
python-cybox Documentation

Release 2.1.0.11

The MITRE Corporation

April 27, 2015

1	Versions	3
2	Contents	5
2.1	Getting Started with python-cybox	5
2.2	Installation	5
2.3	Overview	7
2.4	Examples	7
2.5	Contributing	14
3	API Reference	15
3.1	API Reference	15
3.2	API Coverage	483
4	Indices and tables	487
	Python Module Index	489

Version: 2.1.0.11

The python-cybox library provides an API for developing and consuming Cyber Observable eXpression (CybOX) content. Developers can leverage the API to create applications that create, consume, translate, or otherwise work with CybOX content.

Versions

Each version of python-cybox is designed to work with a single version of the CybOX Language. The table below shows the latest version the library for each version of CybOX.

CybOX Version	python-cybox Version
2.1	2.1.0.11 (PyPI) (GitHub)
2.0.1	2.0.1.4 (PyPI) (GitHub)
2.0	2.0.0.1 (PyPI) (GitHub)
1.0	1.0.0b3 (PyPI) (GitHub)

Version: 2.1.0.11

2.1 Getting Started with python-cybox

Note: The python-cybox library is intended for developers who want to add CybOX support to existing programs or create new programs that handle CybOX content. Experience with Python development is assumed.

Other users should look at existing [tools](#) that support CybOX.

Understanding XML, XML Schema, and the CybOX language is also incredibly helpful when using python-cybox in an application.

First, you should follow the [Installation](#) procedures.

2.1.1 Example Scripts

The python-cybox repository contains several [example scripts](#) that help illustrate the capabilities of the APIs. These scripts are simple command line utilities that can be executed by passing the name of the script to a Python interpreter.

```
$ python simple_email_instance.py
```

2.1.2 Writing Your Own Application

See the [Examples](#) page for more examples of using python-cybox in your own application.

Version: 2.1.0.11

2.2 Installation

2.2.1 Recommended Installation

Use `pip`:

```
$ pip install cybox
```

You might also want to consider using a [virtualenv](#).

2.2.2 Dependencies

The python-cybox library is developed on Python 2.7 and tested against both Python 2.6 and 2.7. Besides the Python Standard Library, python-cybox relies on the following Python libraries:

- `lxml` - A Pythonic binding for the C libraries `libxml2` and `libxslt`.
- `python-dateutil` - A library for parsing datetime information.
- `importlib` (Python 2.6) - Convenience wrappers for `__import__()`.

Note: `importlib` is built into Python 2.7, and is available on PyPI for Python 2.6.

Each of these can be installed with `pip` or by manually downloading packages from PyPI. On Windows, you will probably have the most luck using [pre-compiled binaries](#) for `lxml`. On Ubuntu (12.04 or 14.04), you should make sure the following packages are installed before attempting to compile `lxml` from source:

- `libxml2-dev`
- `libxslt1-dev`
- `zlib1g-dev`

2.2.3 Manual Installation

If you are unable to use `pip`, you can also install python-cybox with `setuptools`. If you don't already have `setuptools` installed, please install it before continuing.

1. Download and install the [dependencies](#) above. Although `setuptools` will generally install dependencies automatically, installing the dependencies manually beforehand helps distinguish errors in dependency installation from errors in python-cybox installation. Make sure you check to ensure the versions you install are compatible with the version of python-cybox you plan to install.
2. Download the desired version of python-cybox from [PyPI](#) or the [GitHub releases](#) page. The steps below assume you are using the 2.1.0.11 release.
3. Extract the downloaded file. This will leave you with a directory named `cybox-2.1.0.11`.

```
$ tar -zxf cybox-2.1.0.11.tar.gz
$ ls
cybox-2.1.0.11 cybox-2.1.0.11.tar.gz
```

OR

```
$ unzip cybox-2.1.0.11.zip
$ ls
cybox-2.1.0.11 cybox-2.1.0.11.zip
```

4. Run the installation script.

```
$ cd cybox-2.1.0.11
$ python setup.py install
```

5. Test the installation.

```
$ python
Python 2.7.6 (default, Mar 22 2014, 22:59:56)
[GCC 4.8.2] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import cybox
>>>
```

If you don't see an `ImportError`, the installation was successful.

2.2.4 Further Information

If you're new to installing Python packages, you can learn more at the [Python Packaging User Guide](#), specifically the [Installing Python Packages](#) section.

Version: 2.1.0.11

2.3 Overview

This page provides a quick overview needed to understand the inner workings of the python-cybox library. If you prefer a more hands-on approach, browse the [Examples](#).

2.3.1 CybOX Entities

Each type within CybOX is represented by a class which derives from `cybox.Entity`. In general, there is one Python class per CybOX type, though in some cases classes which would have identical functionality have been reused rather than writing duplicating classes. One example of this is that many enumerated values are implemented using the `cybox.common.properties.String`, since values aren't checked to make sure they are valid enumeration values.

Note: Not all CybOX types have yet been implemented.

2.3.2 Controlled Vocabulary Strings

Controlled Vocabulary strings are a concept originally designed for STIX and adapted for use in CybOX as well. For background, see the [STIX documentation](#). Controlled Vocabulary strings are implemented in the `cybox` Python package very similarly to how they are implemented in the `stix` package, so viewing the [python-stix documentation](#) should help explain how to work with CybOX Controlled Vocabulary strings as well. CybOX vocabularies are defined in the `cybox.common.vocabs` module.

Version: 2.1.0.11

2.4 Examples

This page includes some basic examples of creating and parsing CybOX content.

There are a couple things we do in these examples for purposes of demonstration that shouldn't be done in production code:

- When calling `to_xml()`, we use `include_namespaces=False`. This is to make the example output easier to read, but means the resulting output cannot be successfully parsed. The XML parser doesn't know what namespaces to use if they aren't included. In production code, you should explicitly set `include_namespaces` to `True` or omit it entirely (`True` is the default).
- We use `set_id_method(IDGenerator.METHOD_INT)` to make IDs for Objects and Observables easier to read and cross-reference within the XML document. In production code, you should omit this statement, which causes random UUIDs to be created instead, or create explicit IDs yourself for objects and observables.

2.4.1 Creating Objects

The easiest way to create an object is to construct one and then set various properties on it.

```
from cybox.objects.file_object import File
f = File()
f.file_name = "malware.exe"
f.file_path = "C:\Windows\Temp\malware.exe"
print f.to_xml(include_namespaces=False)
```

Which outputs:

```
<FileObj:FileObjectType xsi:type="FileObj:FileObjectType">
  <FileObj:File_Name>malware.exe</FileObj:File_Name>
  <FileObj:File_Path>C:\Windows\Temp\malware.exe</FileObj:File_Path>
</FileObj:FileObjectType>
```

For some objects, such as the AddressObject, you can pass parameters directly into the constructor.

```
from cybox.objects.address_object import Address
a = Address("1.2.3.4", Address.CAT_IPV4)
print a.to_xml(include_namespaces=False)
```

```
<AddressObj:AddressObjectType xsi:type="AddressObj:AddressObjectType" category="ipv4-addr">
  <AddressObj:Address_Value>1.2.3.4</AddressObj:Address_Value>
</AddressObj:AddressObjectType>
```

2.4.2 Creating Observables

Full CyBOX documents are expected to have Observables as the root element. You can pass any object to the Observables constructor to generate the proper XML.

```
from cybox.core import Observables
from cybox.objects.file_object import File
from cybox.utils import IDGenerator, set_id_method
set_id_method(IDGenerator.METHOD_INT)
f = File()
f.file_name = "malware.exe"
f.file_path = "C:\Windows\Temp\malware.exe"
print Observables(f).to_xml(include_namespaces=False)
```

```
<cybox:Observables cybox_major_version="2" cybox_minor_version="1" cybox_update_version="0">
  <cybox:Observable id="example:Observable-1">
    <cybox:Object id="example:File-2">
      <cybox:Properties xsi:type="FileObj:FileObjectType">
        <FileObj:File_Name>malware.exe</FileObj:File_Name>
        <FileObj:File_Path>C:\Windows\Temp\malware.exe</FileObj:File_Path>
      </cybox:Properties>
    </cybox:Object>
  </cybox:Observable>
</cybox:Observables>
```

To include multiple objects as individual Observables within one document, you can pass them as a list to the Observables constructor.

```
from cybox.core import Observables
from cybox.objects.address_object import Address
from cybox.objects.uri_object import URI
```

```

from cybox.utils import IDGenerator, set_id_method
set_id_method(IDGenerator.METHOD_INT)
a = Address("1.2.3.4", Address.CAT_IPV4)
u = URI("http://cybox.mitre.org/")
print Observables([a, u]).to_xml(include_namespaces=False)

<cybox:Observables cybox_major_version="2" cybox_minor_version="1" cybox_update_version="0">
  <cybox:Observable id="example:Observable-1">
    <cybox:Object id="example:Address-2">
      <cybox:Properties xsi:type="AddressObj:AddressObjectType" category="ipv4-addr">
        <AddressObj:Address_Value>1.2.3.4</AddressObj:Address_Value>
      </cybox:Properties>
    </cybox:Object>
  </cybox:Observable>
  <cybox:Observable id="example:Observable-3">
    <cybox:Object id="example:URI-4">
      <cybox:Properties xsi:type="URIObj:URIObjectType">
        <URIObj:Value>http://cybox.mitre.org/</URIObj:Value>
      </cybox:Properties>
    </cybox:Object>
  </cybox:Observable>
</cybox:Observables>

```

2.4.3 HTTP Message Body

When outputting XML, by default, reserved XML characters such as < and > are escaped by default.

```

from cybox.objects.http_session_object import HTTPMessage
m = HTTPMessage()
m.message_body = "<html><title>An HTML page</title><body><p>Body text</p></body></html>"
m.length = len(m.message_body.value)
print m.to_xml(include_namespaces=False)

<HTTPSessionObj:HTTPMessageType>
  <HTTPSessionObj:Length>69</HTTPSessionObj:Length>
  <HTTPSessionObj:Message_Body>&lt;html&gt;&lt;title&gt;An HTML page&lt;/title&gt;&lt;body&gt;&lt;p&gt;Body text&lt;/p&gt;&lt;/body&gt;&lt;/html&gt;
</HTTPSessionObj:HTTPMessageType>

```

When you parse this content, these characters are converted back.

```

from cybox.bindings.http_session_object import parseString
m2 = HTTPMessage.from_obj(parseString(m.to_xml()))
print m2.message_body

<html><title>An HTML page</title><body><p>Body text</p></body></html>

```

2.4.4 HTTP User Agent

```

from cybox.objects.http_session_object import *
fields = HTTPRequestHeaderFields()
fields.user_agent = 'Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:25.0) Gecko/20100101 Firefox/25.0'

header = HTTPRequestHeader()
header.parsed_header = fields

```

```
request = HTTPClientRequest()
request.http_request_header = header

req_res = HTTPRequestResponse()
req_res.http_client_request = request

session = HTTPSession()
session.http_request_response = [req_res]

print session.to_xml(include_namespaces=False)

<HTTPSessionObj:HTTPSessionObjectType xsi:type="HTTPSessionObj:HTTPSessionObjectType">
  <HTTPSessionObj:HTTP_Request_Response>
    <HTTPSessionObj:HTTP_Client_Request>
      <HTTPSessionObj:HTTP_Request_Header>
        <HTTPSessionObj:Parsed_Header>
          <HTTPSessionObj:User_Agent>Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:25.0) Gecko/20100101 Firefox/25.0
        </HTTPSessionObj:Parsed_Header>
      </HTTPSessionObj:HTTP_Request_Header>
    </HTTPSessionObj:HTTP_Client_Request>
  </HTTPSessionObj:HTTP_Request_Response>
</HTTPSessionObj:HTTPSessionObjectType>
```

2.4.5 Objects with DateTime properties

When setting DateTime properties on objects, you can either use a native Python `datetime.datetime` or a string. The `python-dateutil` library is used to parse strings into dates, so a wide variety of formats is supported.

```
import datetime
from cybox.objects.email_message_object import EmailMessage
e = EmailMessage()
e.from_ = "spammer@spam.com"
e.subject = "This is not spam"
e.date = datetime.datetime(2012, 1, 17, 8, 35, 6)
print e.to_xml(include_namespaces=False)

<EmailMessageObj:EmailMessageObjectType xsi:type="EmailMessageObj:EmailMessageObjectType">
  <EmailMessageObj:Header>
    <EmailMessageObj:From xsi:type="AddressObj:AddressObjectType" category="e-mail">
      <AddressObj:Address_Value>spammer@spam.com</AddressObj:Address_Value>
    </EmailMessageObj:From>
    <EmailMessageObj:Subject>This is not spam</EmailMessageObj:Subject>
    <EmailMessageObj:Date>2012-01-17T08:35:06</EmailMessageObj:Date>
  </EmailMessageObj:Header>
</EmailMessageObj:EmailMessageObjectType>

from cybox.objects.email_message_object import EmailMessage
e = EmailMessage()
e.date = "Mon, 14 Oct, 2013 12:32:03 -0500"
print e.to_xml(include_namespaces=False)

<EmailMessageObj:EmailMessageObjectType xsi:type="EmailMessageObj:EmailMessageObjectType">
  <EmailMessageObj:Header>
    <EmailMessageObj:Date>2013-10-14T12:32:03-05:00</EmailMessageObj:Date>
  </EmailMessageObj:Header>
</EmailMessageObj:EmailMessageObjectType>
```

2.4.6 Hashes

In many cases you can pass a dictionary or a list to create an instance of a CybOX type.

```
from cybox.common import HashList
h = HashList.from_list([{'type' : 'MD5', 'simple_hash_value' : 'FFFFFF'},
                       {'type' : 'SHA1', 'simple_hash_value' : 'FFFFFF'}])
print h.to_xml(include_namespaces=False)

<cyboxCommon:HashListType>
  <cyboxCommon:Hash>
    <cyboxCommon:Type>MD5</cyboxCommon:Type>
    <cyboxCommon:Simple_Hash_Value>FFFFFF</cyboxCommon:Simple_Hash_Value>
  </cyboxCommon:Hash>
  <cyboxCommon:Hash>
    <cyboxCommon:Type>SHA1</cyboxCommon:Type>
    <cyboxCommon:Simple_Hash_Value>FFFFFF</cyboxCommon:Simple_Hash_Value>
  </cyboxCommon:Hash>
</cyboxCommon:HashListType>
```

This can easily be incorporated into constructing objects as well.

```
from cybox.objects.win_file_object import WinFile
f = WinFile()
f.file_name = "foo.exe"
f.drive = "C:\\\\"
f.hashes = h
print f.to_xml(include_namespaces=False)

<WinFileObj:WindowsFileObjectType xsi:type="WinFileObj:WindowsFileObjectType">
  <FileObj:File_Name>foo.exe</FileObj:File_Name>
  <FileObj:Hashes>
    <cyboxCommon:Hash>
      <cyboxCommon:Type>MD5</cyboxCommon:Type>
      <cyboxCommon:Simple_Hash_Value>FFFFFF</cyboxCommon:Simple_Hash_Value>
    </cyboxCommon:Hash>
    <cyboxCommon:Hash>
      <cyboxCommon:Type>SHA1</cyboxCommon:Type>
      <cyboxCommon:Simple_Hash_Value>FFFFFF</cyboxCommon:Simple_Hash_Value>
    </cyboxCommon:Hash>
  </FileObj:Hashes>
  <WinFileObj:Drive>C:\\</WinFileObj:Drive>
</WinFileObj:WindowsFileObjectType>
```

2.4.7 Object Subclasses

The WindowsFile object is a subclass of the File object. As you can see, the correct namespaces for the various properties are set.

```
from cybox.objects.win_file_object import WinFile
f = WinFile()
f.file_name = "blah.exe"
f.drive = "C:\\\\"
print f.to_xml(include_namespaces=False)

<WinFileObj:WindowsFileObjectType xsi:type="WinFileObj:WindowsFileObjectType">
  <FileObj:File_Name>blah.exe</FileObj:File_Name>
```

```
<WinFileObj:Drive>C:\</WinFileObj:Drive>
</WinFileObj:WindowsFileObjectType>
```

As another example, the WinUser object is a refinement of the UserAccount object, which itself is a refinement of the Account object. As with Hashes, these can be constructed from a dictionary representation.

```
from cybox.objects.win_user_object import WinUser
winuser_dict = {
    # Account-specific fields
    'disabled': False,
    'domain': u'ADMIN',
    # UserAccount-specific fields
    'password_required': True,
    'full_name': u"Steve Ballmer",
    'home_directory': u"C:\\Users\\ballmer\\",
    'last_login': "2011-05-12T07:14:01+07:00",
    'username': u"ballmer",
    'user_password_age': u"P180D",
    # WinUser-specific fields
    'security_id': u"S-1-5-21-3623811015-3361044348-30300820-1013",
    'security_type': "SidTypeUser",
    'xsi:type': 'WindowsUserAccountObjectType',
}
print WinUser.from_dict(winuser_dict).to_xml(include_namespaces=False)
```

```
<WinUserAccountObj:WindowsUserAccountObjectType xsi:type="WinUserAccountObj:WindowsUserAccountObjectType"
  disabled="false" password_required="true">
  <AccountObj:Domain>ADMIN</AccountObj:Domain>
  <UserAccountObj:Full_Name>Steve Ballmer</UserAccountObj:Full_Name>
  <UserAccountObj:Home_Directory>C:\Users\ballmer</UserAccountObj:Home_Directory>
  <UserAccountObj:Last_Login>2011-05-12T07:14:01+07:00</UserAccountObj:Last_Login>
  <UserAccountObj:Username>ballmer</UserAccountObj:Username>
  <UserAccountObj:User_Password_Age>P180D</UserAccountObj:User_Password_Age>
  <WinUserAccountObj:Security_ID>S-1-5-21-3623811015-3361044348-30300820-1013</WinUserAccountObj:Security_ID>
  <WinUserAccountObj:Security_Type>SidTypeUser</WinUserAccountObj:Security_Type>
</WinUserAccountObj:WindowsUserAccountObjectType>
```

2.4.8 ObservableCompositions

```
from cybox.core import Observable, Observables, ObservableComposition
from cybox.objects.file_object import File
from cybox.objects.process_object import Process
from cybox.utils import IDGenerator, set_id_method
set_id_method(IDGenerator.METHOD_INT)

observables = Observables()

proc = Process.from_dict(
    {"name": "cmd.exe",
     "image_info": {"command_line": "cmd.exe /c blah.bat"}})
proc.name.condition = "Equals"
proc.image_info.command_line.condition = "Contains"
oproc = Observable(proc)
observables.add(oproc)

f = File.from_dict({"file_name": "blah", "file_extension": "bat"})
f.file_name.condition = "Contains"
```

```

f.file_extension.condition = "Equals"
ofile = Observable(f)
observables.add(ofile)

oproc_ref = Observable()
oproc_ref.id_ = None
oproc_ref.idref = oproc.id_

ofile_ref = Observable()
ofile_ref.id_ = None
ofile_ref.idref = ofile.id_

o_comp = ObservableComposition(operator="OR")
o_comp.add(oproc_ref)
o_comp.add(ofile_ref)
observables.add(Observable(o_comp))

print observables.to_xml(include_namespaces=False)

<cybox:Observables cybox_major_version="2" cybox_minor_version="1" cybox_update_version="0">
  <cybox:Observable id="example:Observable-1">
    <cybox:Object id="example:Process-2">
      <cybox:Properties xsi:type="ProcessObj:ProcessObjectType">
        <ProcessObj:Name condition="Equals">cmd.exe</ProcessObj:Name>
        <ProcessObj:Image_Info>
          <ProcessObj:Command_Line condition="Contains">cmd.exe /c blah.bat</ProcessObj:Command_Line>
        </ProcessObj:Image_Info>
      </cybox:Properties>
    </cybox:Object>
  </cybox:Observable>
  <cybox:Observable id="example:Observable-3">
    <cybox:Object id="example:File-4">
      <cybox:Properties xsi:type="FileObj:FileObjectType">
        <FileObj:File_Name condition="Contains">blah</FileObj:File_Name>
        <FileObj:File_Extension condition="Equals">bat</FileObj:File_Extension>
      </cybox:Properties>
    </cybox:Object>
  </cybox:Observable>
  <cybox:Observable id="example:Observable-7">
    <cybox:Observable_Composition operator="OR">
      <cybox:Observable idref="example:Observable-1">
      </cybox:Observable>
      <cybox:Observable idref="example:Observable-3">
      </cybox:Observable>
    </cybox:Observable_Composition>
  </cybox:Observable>
</cybox:Observables>

```

2.4.9 Parsing example

Just as you can call `to_xml()` to generate XML, you can call `parseString()` to parse an XML string.

```

>>> import cybox.bindings.file_object as file_binding
>>> from cybox.objects.file_object import File
>>> a = ""
... <FileObj:FileObjectType
...     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

```

```
...     xmlns:FileObj="http://cybox.mitre.org/objects#FileObject-2"
...     xsi:type="FileObj:FileObjectType">
...     <FileObj:File_Name condition="Contains">bad.exe</FileObj:File_Name>
... </FileObj:FileObjectType>
... """
>>> file_obj = file_binding.parseString(a)
>>> type(file_obj)
<class 'cybox.bindings.file_object.FileObjectType'>
>>> f = File.from_obj(file_obj)
>>> f.file_name.value
'bad.exe'
>>> str(f.file_name)
'bad.exe'
>>> f.file_name.condition
'Contains'
```

2.4.10 Comparisons

CyBOX objects can be compared for equality using the standard Python equality operator. By default, every field must be equal between the two objects. However, you can explicitly say that some fields should not be considered.

```
>>> from cybox.objects.file_object import File

>>> file_1 = File.from_dict({'file_name': 'abcd.dll', 'size_in_bytes': '25556'})
>>> file_2 = File.from_dict({'file_name': 'abcd.dll', 'size_in_bytes': '25556'})
>>> file_3 = File.from_dict({'file_name': 'abcd.dll', 'size_in_bytes': '1337'})

# First, disable the use of ``size_in_bytes`` comparisons.
>>> File.size_in_bytes.comparable = False

>>> file_1 == file_2
True
>>> file_1 == file_3
True

# Now, set it back to True (the default).
>>> File.size_in_bytes.comparable = True

>>> file_1 == file_2
True
>>> file_1 == file_3
False
```

Version: 2.1.0.11

2.5 Contributing

If you notice a bug, have a suggestion for a new feature, or find that something just isn't behaving the way you'd expect it to, please submit an issue to our [issue tracker](#).

If you'd like to contribute code to our repository, you can do so by issuing a pull request and we will work with you to try and integrate that code into our repository. Users who want to contribute code to the python-cybox repository should be familiar with [git](#) and the [GitHub pull request process](#).

API Reference

Version: 2.1.0.11

3.1 API Reference

3.1.1 CybOX Common

Modules located in the base `cybox.common` package

Note: Most objects from the CybOX Common schema can be implemented directly from the `cybox.common` package, rather than needing to remember which submodule they are defined in.

Version: 2.1.0.11

`cybox.common` package

The `cybox.common` module contains classes needed to implement the types found in the CybOX Common schema (`cybox_common.xsd`). Although the implementation is spread between different modules within the `cybox.common` package, types should be imported directly from this module in case the implementations are reorganized in the future.

In other words, do this:

```
from cybox.common import String
```

rather than:

```
from cybox.common.properties import String
```

Submodules

Version: 2.1.0.11

`cybox.common.attribute_groups` module Version: 2.1.0.11

cybox.common.byterun module

class cybox.common.byterun.**ByteRun**

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.ByteRunType

byte_order

Type: cybox.common.properties.String

XML Binding class name: Byte_Order

Dictionary key name: byte_order

byte_run_data

XML Binding class name: Byte_Run_Data

Dictionary key name: byte_run_data

file_system_offset

Type: cybox.common.properties.Integer

XML Binding class name: File_System_Offset

Dictionary key name: file_system_offset

hashes

Type: cybox.common.hashes.HashList

XML Binding class name: Hashes

Dictionary key name: hashes

image_offset

Type: cybox.common.properties.Integer

XML Binding class name: Image_Offset

Dictionary key name: image_offset

length

Type: cybox.common.properties.Integer

XML Binding class name: Length

Dictionary key name: length

offset

Type: cybox.common.properties.Integer

XML Binding class name: Offset

Dictionary key name: offset

class cybox.common.byterun.**ByteRuns** (*args)

Bases: cybox.EntityList

XML binding class: `cybox.bindings.cybox_common.ByteRunsType`

Version: 2.1.0.11

cybox.common.contributor module

class `cybox.common.contributor.Contributor`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ContributorType`

contribution_location

XML Binding class name: `Contribution_Location`

Dictionary key name: `contribution_location`

date

Type: `cybox.common.daterange.DateRange`

XML Binding class name: `Date`

Dictionary key name: `date`

email

XML Binding class name: `Email`

Dictionary key name: `email`

name

XML Binding class name: `Name`

Dictionary key name: `name`

organization

XML Binding class name: `Organization`

Dictionary key name: `organization`

phone

XML Binding class name: `Phone`

Dictionary key name: `phone`

role

XML Binding class name: `Role`

Dictionary key name: `role`

class `cybox.common.contributor.Personnel` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.PersonnelType`

Version: 2.1.0.11

cybox.common.data_segment module

class `cybox.common.data_segment.DataSegment`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DataSegmentType`

byte_order

Type: `cybox.common.properties.String`

XML Binding class name: `Byte_Order`

Dictionary key name: `byte_order`

data_format

XML Binding class name: `Data_Format`

Dictionary key name: `data_format`

data_segment

Type: `cybox.common.properties.String`

XML Binding class name: `Data_Segment`

Dictionary key name: `data_segment`

data_size

Type: `cybox.common.data_segment.DataSize`

XML Binding class name: `Data_Size`

Dictionary key name: `data_size`

id_

XML Binding class name: `id`

Dictionary key name: `id`

offset

Type: `cybox.common.properties.Integer`

XML Binding class name: `Offset`

Dictionary key name: `offset`

search_distance

Type: `cybox.common.properties.Integer`

XML Binding class name: `Search_Distance`

Dictionary key name: search_distance

search_within

Type: `cybox.common.properties.Integer`

XML Binding class name: Search_Within

Dictionary key name: search_within

class `cybox.common.data_segment.DataSize` (*args, **kwargs)
Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.cybox_common.DataSizeType`

static from_dict (*datasize_dict*)

static from_obj (*datasize_obj*)

is_plain ()

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.common.daterange module

class `cybox.common.daterange.DateRange`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DateRangeType`

end_date

Type: `cybox.common.datetimewithprecision.DateWithPrecision`

XML Binding class name: End_Date

Dictionary key name: end_date

start_date

Type: `cybox.common.datetimewithprecision.DateWithPrecision`

XML Binding class name: Start_Date

Dictionary key name: start_date

Version: 2.1.0.11

cybox.common.datetimewithprecision module

class `cybox.common.datetimewithprecision.DateTimeWithPrecision` (*value=None, precision='second'*)
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DateTimeWithPrecisionType`

classmethod `from_dict` (*dict_*)

classmethod `from_obj` (*obj*)

`to_dict` ()

`to_obj` (*return_obj=None, ns_info=None*)

class `cybox.common.datetimewithprecision.DateWithPrecision` (*value=None, precision='day'*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DateWithPrecisionType`

classmethod `from_dict` (*dict_*)

classmethod `from_obj` (*obj*)

`to_dict` ()

`to_obj` (*return_obj=None, ns_info=None*)

`cybox.common.datetimewithprecision.parse_value` (*value*)

`cybox.common.datetimewithprecision.serialize_value` (*value*)

Version: 2.1.0.11

cybox.common.digitalsignature module

class `cybox.common.digitalsignature.DigitalSignature`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DigitalSignatureInfoType`

certificate_issuer

Type: `cybox.common.properties.String`
XML Binding class name: `Certificate_Issuer`
Dictionary key name: `certificate_issuer`

certificate_subject

Type: `cybox.common.properties.String`
XML Binding class name: `Certificate_Subject`
Dictionary key name: `certificate_subject`

signature_description

Type: `cybox.common.properties.String`
XML Binding class name: `Signature_Description`
Dictionary key name: `signature_description`

signature_exists

XML Binding class name: signature_exists

Dictionary key name: signature_exists

signature_verified

XML Binding class name: signature_verified

Dictionary key name: signature_verified

class cybox.common.digitalsignature.DigitalSignatureList (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_common.DigitalSignaturesType

Version: 2.1.0.11

cybox.common.environment_variable module

class cybox.common.environment_variable.EnvironmentVariable

Bases: cybox.Entity

XML binding class: <undefined>

static from_dict (environment_variable_dict)

static from_obj (environment_variable_obj)

to_dict ()

to_obj (return_obj=None, ns_info=None)

class cybox.common.environment_variable.EnvironmentVariableList (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_common.EnvironmentVariableListType

Version: 2.1.0.11

cybox.common.extracted_features module

class cybox.common.extracted_features.CodeSnippets (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_common.CodeSnippetsType

class cybox.common.extracted_features.ExtractedFeatures

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.ExtractedFeaturesType

code_snippets

Type: `cybox.common.extracted_features.CodeSnippets`

XML Binding class name: `Code_Snippets`

Dictionary key name: `code_snippets`

functions

Type: `cybox.common.extracted_features.Functions`

XML Binding class name: `Functions`

Dictionary key name: `functions`

imports

Type: `cybox.common.extracted_features.Imports`

XML Binding class name: `Imports`

Dictionary key name: `imports`

strings

Type: `cybox.common.extracted_string.ExtractedStrings`

XML Binding class name: `Strings`

Dictionary key name: `strings`

class `cybox.common.extracted_features.Functions` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.FunctionsType`

class `cybox.common.extracted_features.Imports` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.ImportsType`

Version: 2.1.0.11

cybox.common.extracted_string module

class `cybox.common.extracted_string.ExtractedString` (*string_value=None*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ExtractedStringType`

address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Address

Dictionary key name: address

byte_string_value

Type: `cybox.common.properties.String`

XML Binding class name: Byte_String_Value

Dictionary key name: byte_string_value

encoding

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Encoding

Dictionary key name: encoding

english_translation

Type: `cybox.common.properties.String`

XML Binding class name: English_Translation

Dictionary key name: english_translation

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

language

Type: `cybox.common.properties.String`

XML Binding class name: Language

Dictionary key name: language

length

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: Length

Dictionary key name: length

string_value

Type: `cybox.common.properties.String`

XML Binding class name: String_Value

Dictionary key name: string_value

class `cybox.common.extracted_string.ExtractedStrings` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.ExtractedStringsType`

Version: 2.1.0.11

cybox.common.hashes module

class cybox.common.hashes.**Hash** (*hash_value=None, type_=None, exact=False*)
Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.HashType

fuzzy_hash_value

Type: cybox.common.properties.String
XML Binding class name: Fuzzy_Hash_Value
Dictionary key name: fuzzy_hash_value

simple_hash_value

Type: cybox.common.properties.HexBinary
XML Binding class name: Simple_Hash_Value
Dictionary key name: simple_hash_value

type_

TypedField subclass for VocabString fields.

Type: cybox.common.vocabs.VocabString
XML Binding class name: Type
Dictionary key name: type

class cybox.common.hashes.**HashList** (**args*)
Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_common.HashListType

Version: 2.1.0.11

cybox.common.measuresource module

class cybox.common.measuresource.**MeasureSource**
Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.MeasureSourceType

class_

XML Binding class name: classxx
Dictionary key name: class

contributors

Type: `cybox.common.contributor.Personnel`

XML Binding class name: Contributors

Dictionary key name: contributors

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: Description

Dictionary key name: description

information_source_type

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Information_Source_Type

Dictionary key name: information_source_type

instance

Type: `cybox.common.object_properties.ObjectProperties`

XML Binding class name: Instance

Dictionary key name: instance

name

XML Binding class name: name

Dictionary key name: name

platform

Type: `cybox.common.platform_specification.PlatformSpecification`

XML Binding class name: Platform

Dictionary key name: platform

sighting_count

XML Binding class name: sighting_count

Dictionary key name: sighting_count

source_type

XML Binding class name: source_type

Dictionary key name: source_type

system

Type: `cybox.common.object_properties.ObjectProperties`

XML Binding class name: System

Dictionary key name: system

time

Type: `cybox.common.time.Time`

XML Binding class name: Time

Dictionary key name: time

tool_type

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Tool_Type

Dictionary key name: tool_type

tools

Type: `cybox.common.tools.ToolInformationList`

XML Binding class name: Tools

Dictionary key name: tools

Version: 2.1.0.11

cybox.common.object_properties module

class `cybox.common.object_properties.CustomProperties` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.CustomPropertiesType`

class `cybox.common.object_properties.ObjectProperties`

Bases: `cybox.Entity`

The Cybox ObjectProperties base class.

XML binding class: <undefined>

add_related (*related, relationship, inline=True*)

custom_properties

Type: `cybox.common.object_properties.CustomProperties`

XML Binding class name: Custom_Properties

Dictionary key name: custom_properties

classmethod from_dict (*defobj_dict, defobj=None*)

classmethod from_obj (*defobj_obj, defobj=None*)

object_reference

XML Binding class name: `object_reference`

Dictionary key name: `object_reference`

to_dict (*partial_dict=None*)

to_obj (*return_obj=None, ns_info=None*)

class `cybox.common.object_properties.Property`

Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.cybox_common.PropertyType`

static from_dict (*property_dict*)

static from_obj (*property_obj*)

is_plain ()

Whether the Property can be represented as a single value.

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.common.platform_specification module

class `cybox.common.platform_specification.PlatformIdentifier`

Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.cybox_common.PlatformIdentifierType`

static from_dict (*platform_identifier_dict*)

static from_obj (*platform_identifier_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.common.platform_specification.PlatformSpecification`

Bases: `cybox.Entity`

Cybox Common PlatformSpecification object representation

XML binding class: <undefined>

static from_dict (*platform_specification_dict*)

static from_obj (*platform_specification_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.common.properties module

class cybox.common.properties.**BaseProperty** (*value=None*)

XML binding class: <undefined>

is_plain ()

Whether the Property can be represented as a single value.

The *datatype* can be inferred by the particular BaseProperty subclass, so if *datatype* and *value* are the only non-None properties, the BaseProperty can be represented by a single value rather than a dictionary. This makes the JSON representation simpler without losing any data fidelity.

class cybox.common.properties.**AnyURI** (*value=None*)

XML binding class: cybox.bindings.cybox_common.AnyURIObjectPropertyType

class cybox.common.properties.**Base64Binary** (*value=None*)

XML binding class: cybox.bindings.cybox_common.Base64BinaryObjectPropertyType

class cybox.common.properties.**Date** (*value=None, precision='day'*)

XML binding class: cybox.bindings.cybox_common.DateObjectPropertyType

class cybox.common.properties.**DateTime** (*value=None, precision='second'*)

XML binding class: cybox.bindings.cybox_common.DateTimeObjectPropertyType

class cybox.common.properties.**Double** (*value=None*)

XML binding class: cybox.bindings.cybox_common.DoubleObjectPropertyType

class cybox.common.properties.**Duration** (*value=None*)

XML binding class: cybox.bindings.cybox_common.DurationObjectPropertyType

class cybox.common.properties.**Float** (*value=None*)

XML binding class: cybox.bindings.cybox_common.FloatObjectPropertyType

class cybox.common.properties.**HexBinary** (*value=None*)

XML binding class: cybox.bindings.cybox_common.HexBinaryObjectPropertyType

class cybox.common.properties.**Integer** (*value=None*)

XML binding class: cybox.bindings.cybox_common.IntegerObjectPropertyType

class cybox.common.properties.**Long** (*value=None*)

XML binding class: cybox.bindings.cybox_common.LongObjectPropertyType

class `cybox.common.properties.Name` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.NameObjectPropertyType`

class `cybox.common.properties.NonNegativeInteger` (*value=None*)

XML binding class:

`cybox.bindings.cybox_common.NonNegativeIntegerObjectPropertyType`

class `cybox.common.properties.PositiveInteger` (*value=None*)

XML binding class:

`cybox.bindings.cybox_common.PositiveIntegerObjectPropertyType`

class `cybox.common.properties.String` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.StringObjectPropertyType`

class `cybox.common.properties.Time` (*value=None, precision='second'*)

XML binding class: `cybox.bindings.cybox_common.TimeObjectPropertyType`

class `cybox.common.properties.UnsignedInteger` (*value=None*)

XML binding class:

`cybox.bindings.cybox_common.UnsignedIntegerObjectPropertyType`

class `cybox.common.properties.UnsignedLong` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.UnsignedLongObjectPropertyType`

Version: 2.1.0.11

cybox.common.structured_text module

class `cybox.common.structured_text.StructuredText` (*value=None*)

Bases: `cybox.Entity`

XML binding class: <undefined>

classmethod `from_dict` (*text_dict, text=None*)

classmethod `from_obj` (*text_obj, text=None*)

is_plain ()

Whether this can be represented as a string rather than a dictionary

Subclasses can override this to include their custom fields in this check:

return `(super(..., self).is_plain() and self.other_field is None)`

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.common.time module

class cybox.common.time.**Time** (*start_time=None, end_time=None, produced_time=None, received_time=None*)

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.TimeType

end_time

Type: cybox.common.datetimewithprecision.DateTimeWithPrecision

XML Binding class name: End_Time

Dictionary key name: end_time

produced_time

Type: cybox.common.datetimewithprecision.DateTimeWithPrecision

XML Binding class name: Produced_Time

Dictionary key name: produced_time

received_time

Type: cybox.common.datetimewithprecision.DateTimeWithPrecision

XML Binding class name: Received_Time

Dictionary key name: received_time

start_time

Type: cybox.common.datetimewithprecision.DateTimeWithPrecision

XML Binding class name: Start_Time

Dictionary key name: start_time

Version: 2.1.0.11

cybox.common.tools module

class cybox.common.tools.**ToolInformation** (*tool_name=None, tool_vendor=None*)

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.ToolInformationType

static from_dict (*toolinfo_dict, toolinfo=None*)

static from_obj (*toolinfo_obj, toolinfo=None*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class cybox.common.tools.**ToolInformationList** (**args*)

Bases: cybox.EntityList

XML binding class: `cybox.bindings.cybox_common.ToolsInformationType`

Version: 2.1.0.11

cybox.common.vocabs module

class `cybox.common.vocabs.ActionArgumentName` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionName` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionObjectAssociationType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionRelationshipType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.CharacterEncoding` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.EventType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.HashName` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.InformationSourceType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ObjectRelationship` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ObjectState` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ToolType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.VocabString` (*value=None*)
Bases: `cybox.common.attribute_groups.PatternFieldGroup`, `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

classmethod `from_dict` (*vocab_dict*, *return_obj=None*)

classmethod `from_obj` (*vocab_obj*, *return_obj=None*)

is_plain ()

Whether the VocabString can be represented as a single value.

static lookup_class (*xsi_type*)

to_dict ()

to_obj (*return_obj=None*, *ns_info=None*)

`cybox.common.vocabs.register_vocab` (*cls*)

Register a VocabString subclass.

Also, calculate all the permitted values for class being decorated by adding an `_ALLOWED_VALUES` tuple of all the values of class members beginning with `TERM_`.

Version: 2.1.0.11

`cybox.common.attribute_groups` module

Version: 2.1.0.11

`cybox.common.byterun` module

class `cybox.common.byterun.ByteRun`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ByteRunType`

byte_order

Type: `cybox.common.properties.String`

XML Binding class name: `Byte_Order`

Dictionary key name: `byte_order`

byte_run_data

XML Binding class name: `Byte_Run_Data`

Dictionary key name: `byte_run_data`

file_system_offset

Type: `cybox.common.properties.Integer`

XML Binding class name: `File_System_Offset`

Dictionary key name: `file_system_offset`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Hashes`

Dictionary key name: `hashes`

image_offset

Type: `cybox.common.properties.Integer`

XML Binding class name: `Image_Offset`

Dictionary key name: `image_offset`

length

Type: `cybox.common.properties.Integer`
XML Binding class name: Length
Dictionary key name: length

offset

Type: `cybox.common.properties.Integer`
XML Binding class name: Offset
Dictionary key name: offset

class `cybox.common.byterun.ByteRuns` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.ByteRunsType`

Version: 2.1.0.11

cybox.common.contributor module

class `cybox.common.contributor.Contributor`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ContributorType`

contribution_location

XML Binding class name: Contribution_Location
Dictionary key name: contribution_location

date

Type: `cybox.common.daterange.DateRange`
XML Binding class name: Date
Dictionary key name: date

email

XML Binding class name: Email
Dictionary key name: email

name

XML Binding class name: Name
Dictionary key name: name

organization

XML Binding class name: Organization

Dictionary key name: organization

phone

XML Binding class name: Phone

Dictionary key name: phone

role

XML Binding class name: Role

Dictionary key name: role

class cybox.common.contributor.**Personnel** (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_common.PersonnelType

Version: 2.1.0.11

cybox.common.data_segment module

class cybox.common.data_segment.**DataSegment**

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_common.DataSegmentType

byte_order

Type: cybox.common.properties.String

XML Binding class name: Byte_Order

Dictionary key name: byte_order

data_format

XML Binding class name: Data_Format

Dictionary key name: data_format

data_segment

Type: cybox.common.properties.String

XML Binding class name: Data_Segment

Dictionary key name: data_segment

data_size

Type: cybox.common.data_segment.DataSize

XML Binding class name: Data_Size

Dictionary key name: data_size

id_

XML Binding class name: id

Dictionary key name: id

offset

Type: `cybox.common.properties.Integer`

XML Binding class name: Offset

Dictionary key name: offset

search_distance

Type: `cybox.common.properties.Integer`

XML Binding class name: Search_Distance

Dictionary key name: search_distance

search_within

Type: `cybox.common.properties.Integer`

XML Binding class name: Search_Within

Dictionary key name: search_within

class `cybox.common.data_segment.DataSize` (*args, **kwargs)
Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.cybox_common.DataSizeType`

static from_dict (*datasize_dict*)

static from_obj (*datasize_obj*)

is_plain ()

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.common.daterange module

class `cybox.common.daterange.DateRange`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DateRangeType`

end_date

Type: `cybox.common.datetimewithprecision.DateWithPrecision`

XML Binding class name: End_Date

Dictionary key name: end_date

start_date

Type: `cybox.common.datetimewithprecision.DateWithPrecision`

XML Binding class name: Start_Date

Dictionary key name: start_date

Version: 2.1.0.11

cybox.common.datetimewithprecision module

class `cybox.common.datetimewithprecision.DateTimeWithPrecision` (*value=None, precision='second'*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DateTimeWithPrecisionType`

classmethod `from_dict` (*dict_*)

classmethod `from_obj` (*obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.common.datetimewithprecision.DateWithPrecision` (*value=None, precision='day'*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DateWithPrecisionType`

classmethod `from_dict` (*dict_*)

classmethod `from_obj` (*obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

`cybox.common.datetimewithprecision.parse_value` (*value*)

`cybox.common.datetimewithprecision.serialize_value` (*value*)

Version: 2.1.0.11

cybox.common.digitalsignature module

class `cybox.common.digitalsignature.DigitalSignature`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.DigitalSignatureInfoType`

certificate_issuer

Type: `cybox.common.properties.String`
XML Binding class name: `Certificate_Issuer`
Dictionary key name: `certificate_issuer`

certificate_subject

Type: `cybox.common.properties.String`
XML Binding class name: `Certificate_Subject`
Dictionary key name: `certificate_subject`

signature_description

Type: `cybox.common.properties.String`
XML Binding class name: `Signature_Description`
Dictionary key name: `signature_description`

signature_exists

XML Binding class name: `signature_exists`
Dictionary key name: `signature_exists`

signature_verified

XML Binding class name: `signature_verified`
Dictionary key name: `signature_verified`

class `cybox.common.digitalsignature.DigitalSignatureList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.DigitalSignaturesType`

Version: 2.1.0.11

cybox.common.environment_variable module

class `cybox.common.environment_variable.EnvironmentVariable`
Bases: `cybox.Entity`

XML binding class: <undefined>

static from_dict (*environment_variable_dict*)

static from_obj (*environment_variable_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.common.environment_variable.EnvironmentVariableList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.EnvironmentVariableListType`

Version: 2.1.0.11

cybox.common.extracted_features module

class `cybox.common.extracted_features.CodeSnippets` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.CodeSnippetsType`

class `cybox.common.extracted_features.ExtractedFeatures`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ExtractedFeaturesType`

code_snippets

Type: `cybox.common.extracted_features.CodeSnippets`
XML Binding class name: `Code_Snippets`
Dictionary key name: `code_snippets`

functions

Type: `cybox.common.extracted_features.Functions`
XML Binding class name: `Functions`
Dictionary key name: `functions`

imports

Type: `cybox.common.extracted_features.Imports`
XML Binding class name: `Imports`
Dictionary key name: `imports`

strings

Type: `cybox.common.extracted_string.ExtractedStrings`
XML Binding class name: `Strings`
Dictionary key name: `strings`

class `cybox.common.extracted_features.Functions` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.FunctionsType`

class `cybox.common.extracted_features.Imports` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.ImportsType`

Version: 2.1.0.11

cybox.common.extracted_string module

class `cybox.common.extracted_string.ExtractedString` (*string_value=None*)
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ExtractedStringType`

address

Type: `cybox.common.properties.HexBinary`
XML Binding class name: Address
Dictionary key name: address

byte_string_value

Type: `cybox.common.properties.String`
XML Binding class name: Byte_String_Value
Dictionary key name: byte_string_value

encoding

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: Encoding
Dictionary key name: encoding

english_translation

Type: `cybox.common.properties.String`
XML Binding class name: English_Translation
Dictionary key name: english_translation

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

language

Type: `cybox.common.properties.String`

XML Binding class name: Language

Dictionary key name: language

length

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: Length

Dictionary key name: length

string_value

Type: `cybox.common.properties.String`

XML Binding class name: String_Value

Dictionary key name: string_value

class `cybox.common.extracted_string.ExtractedStrings` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.ExtractedStringsType`

Version: 2.1.0.11

cybox.common.hashes module

class `cybox.common.hashes.Hash` (*hash_value=None, type_=None, exact=False*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.HashType`

fuzzy_hash_value

Type: `cybox.common.properties.String`

XML Binding class name: Fuzzy_Hash_Value

Dictionary key name: fuzzy_hash_value

simple_hash_value

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Simple_Hash_Value

Dictionary key name: simple_hash_value

type_

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Type

Dictionary key name: type

class `cybox.common.hashes.HashList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.HashListType`

Version: 2.1.0.11

cybox.common.measuresource module

class `cybox.common.measuresource.MeasureSource`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.MeasureSourceType`

class_

XML Binding class name: classxx

Dictionary key name: class

contributors

Type: `cybox.common.contributor.Personnel`

XML Binding class name: Contributors

Dictionary key name: contributors

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: Description

Dictionary key name: description

information_source_type

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Information_Source_Type

Dictionary key name: information_source_type

instance

Type: `cybox.common.object_properties.ObjectProperties`

XML Binding class name: Instance

Dictionary key name: instance

name

XML Binding class name: name

Dictionary key name: name

platform

Type: `cybox.common.platform_specification.PlatformSpecification`

XML Binding class name: Platform

Dictionary key name: platform

sighting_count

XML Binding class name: sighting_count

Dictionary key name: sighting_count

source_type

XML Binding class name: source_type

Dictionary key name: source_type

system

Type: `cybox.common.object_properties.ObjectProperties`

XML Binding class name: System

Dictionary key name: system

time

Type: `cybox.common.time.Time`

XML Binding class name: Time

Dictionary key name: time

tool_type

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Tool_Type

Dictionary key name: tool_type

tools

Type: `cybox.common.tools.ToolInformationList`

XML Binding class name: Tools

Dictionary key name: tools

Version: 2.1.0.11

cybox.common.object_properties module

class cybox.common.object_properties.**CustomProperties** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_common.CustomPropertiesType

class cybox.common.object_properties.**ObjectProperties**
Bases: cybox.Entity

The Cybox ObjectProperties base class.

XML binding class: <undefined>

add_related (related, relationship, inline=True)

custom_properties

Type: cybox.common.object_properties.CustomProperties

XML Binding class name: Custom_Properties

Dictionary key name: custom_properties

classmethod from_dict (defobj_dict, defobj=None)

classmethod from_obj (defobj_obj, defobj=None)

object_reference

XML Binding class name: object_reference

Dictionary key name: object_reference

to_dict (partial_dict=None)

to_obj (return_obj=None, ns_info=None)

class cybox.common.object_properties.**Property**
Bases: cybox.common.properties.String

XML binding class: cybox.bindings.cybox_common.PropertyType

static from_dict (property_dict)

static from_obj (property_obj)

is_plain ()

Whether the Property can be represented as a single value.

`to_dict()`

`to_obj (return_obj=None, ns_info=None)`

Version: 2.1.0.11

cybox.common.platform_specification module

class `cybox.common.platform_specification.PlatformIdentifier`

Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.cybox_common.PlatformIdentifierType`

static `from_dict (platform_identifier_dict)`

static `from_obj (platform_identifier_obj)`

`to_dict()`

`to_obj (return_obj=None, ns_info=None)`

class `cybox.common.platform_specification.PlatformSpecification`

Bases: `cybox.Entity`

CyBOX Common PlatformSpecification object representation

XML binding class: <undefined>

static `from_dict (platform_specification_dict)`

static `from_obj (platform_specification_obj)`

`to_dict()`

`to_obj (return_obj=None, ns_info=None)`

Version: 2.1.0.11

cybox.common.properties module

class `cybox.common.properties.BaseProperty (value=None)`

XML binding class: <undefined>

is_plain()

Whether the Property can be represented as a single value.

The *datatype* can be inferred by the particular BaseProperty subclass, so if *datatype* and *value* are the only non-None properties, the BaseProperty can be represented by a single value rather than a dictionary. This makes the JSON representation simpler without losing any data fidelity.

class `cybox.common.properties.AnyURI (value=None)`

XML binding class: `cybox.bindings.cybox_common.AnyURIObjectPropertyType`

class `cybox.common.properties.Base64Binary` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.Base64BinaryObjectPropertyType`

class `cybox.common.properties.Date` (*value=None, precision='day'*)

XML binding class: `cybox.bindings.cybox_common.DateObjectPropertyType`

class `cybox.common.properties.DateTime` (*value=None, precision='second'*)

XML binding class: `cybox.bindings.cybox_common.DateTimeObjectPropertyType`

class `cybox.common.properties.Double` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.DoubleObjectPropertyType`

class `cybox.common.properties.Duration` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.DurationObjectPropertyType`

class `cybox.common.properties.Float` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.FloatObjectPropertyType`

class `cybox.common.properties.HexBinary` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.HexBinaryObjectPropertyType`

class `cybox.common.properties.Integer` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.IntegerObjectPropertyType`

class `cybox.common.properties.Long` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.LongObjectPropertyType`

class `cybox.common.properties.Name` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.NameObjectPropertyType`

class `cybox.common.properties.NonNegativeInteger` (*value=None*)

XML binding class:

`cybox.bindings.cybox_common.NonNegativeIntegerObjectPropertyType`

class `cybox.common.properties.PositiveInteger` (*value=None*)

XML binding class:

`cybox.bindings.cybox_common.PositiveIntegerObjectPropertyType`

class `cybox.common.properties.String` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.StringObjectPropertyType`

class `cybox.common.properties.Time` (*value=None, precision='second'*)

XML binding class: `cybox.bindings.cybox_common.TimeObjectPropertyType`

class `cybox.common.properties.UnsignedInteger` (*value=None*)

XML binding class:

`cybox.bindings.cybox_common.UnsignedIntegerObjectPropertyType`

class `cybox.common.properties.UnsignedLong` (*value=None*)

XML binding class: `cybox.bindings.cybox_common.UnsignedLongObjectPropertyType`

Version: 2.1.0.11

cybox.common.structured_text module

class `cybox.common.structured_text.StructuredText` (*value=None*)

Bases: `cybox.Entity`

XML binding class: <undefined>

classmethod `from_dict` (*text_dict, text=None*)

classmethod `from_obj` (*text_obj, text=None*)

is_plain ()

Whether this can be represented as a string rather than a dictionary

Subclasses can override this to include their custom fields in this check:

return `(super(..., self).is_plain() and self.other_field is None)`

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.common.time module

class `cybox.common.time.Time` (*start_time=None, end_time=None, produced_time=None, received_time=None*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.TimeType`

end_time

Type: `cybox.common.datetimewithprecision.DateTimeWithPrecision`

XML Binding class name: `End_Time`

Dictionary key name: end_time

produced_time

Type: `cybox.common.datetimewithprecision.DateTimeWithPrecision`

XML Binding class name: `Produced_Time`

Dictionary key name: produced_time

received_time

Type: `cybox.common.datetimewithprecision.DateTimeWithPrecision`

XML Binding class name: `Received_Time`

Dictionary key name: received_time

start_time

Type: `cybox.common.datetimewithprecision.DateTimeWithPrecision`

XML Binding class name: `Start_Time`

Dictionary key name: start_time

Version: 2.1.0.11

cybox.common.tools module

class `cybox.common.tools.ToolInformation` (*tool_name=None, tool_vendor=None*)

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ToolInformationType`

static from_dict (*toolinfo_dict, toolinfo=None*)

static from_obj (*toolinfo_obj, toolinfo=None*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.common.tools.ToolInformationList` (**args*)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_common.ToolsInformationType`

Version: 2.1.0.11

cybox.common.vocabs module

class `cybox.common.vocabs.ActionArgumentName` (*value=None*)

Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionName` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionObjectAssociationType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionRelationshipType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ActionType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.CharacterEncoding` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.EventType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.HashName` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.InformationSourceType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ObjectRelationship` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ObjectState` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.ToolType` (*value=None*)
Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

class `cybox.common.vocabs.VocabString` (*value=None*)
Bases: `cybox.common.attribute_groups.PatternFieldGroup`, `cybox.Entity`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

classmethod `from_dict` (*vocab_dict*, *return_obj=None*)

classmethod `from_obj` (*vocab_obj*, *return_obj=None*)

is_plain ()

Whether the VocabString can be represented as a single value.

static lookup_class (*xsi_type*)

to_dict ()

to_obj (*return_obj=None*, *ns_info=None*)

`cybox.common.vocabs.register_vocab` (*cls*)
Register a VocabString subclass.

Also, calculate all the permitted values for class being decorated by adding an `_ALLOWED_VALUES` tuple of all the values of class members beginning with `TERM_`.

3.1.2 CybOX Core

Modules located in the base `cybox.core` package

Note: Most objects from the CybOX Core schema can be implemented directly from the `cybox.core` package, rather than needing to remember which submodule they are defined in.

Version: 2.1.0.11

cybox.core package

Submodules

Version: 2.1.0.11

cybox.core.action module

class cybox.core.action.**Action**

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_core.ActionType

action_aliases

Type: cybox.core.action.ActionAliases

XML Binding class name: ActionAliases

Dictionary key name: action_aliases

action_arguments

Type: cybox.core.action.ActionArguments

XML Binding class name: ActionArguments

Dictionary key name: action_arguments

action_status

XML Binding class name: action_status

Dictionary key name: action_status

associated_objects

Type: cybox.core.action.AssociatedObjects

XML Binding class name: Associated_Objects

Dictionary key name: associated_objects

context

XML Binding class name: context

Dictionary key name: context

description

Type: cybox.common.structured_text.StructuredText

XML Binding class name: Description

Dictionary key name: description

discovery_method

Type: `cybox.common.measuresource.MeasureSource`

XML Binding class name: `Discovery_Method`

Dictionary key name: `discovery_method`

frequency

Type: `cybox.core.frequency.Frequency`

XML Binding class name: `Frequency`

Dictionary key name: `frequency`

id_

XML Binding class name: `id`

Dictionary key name: `id`

idref

XML Binding class name: `idref`

Dictionary key name: `idref`

name

TypedField subclass for `VocabString` fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: `Name`

Dictionary key name: `name`

ordinal_position

XML Binding class name: `ordinal_position`

Dictionary key name: `ordinal_position`

relationships

Type: `cybox.core.action.ActionRelationships`

XML Binding class name: `Relationships`

Dictionary key name: `relationships`

timestamp

XML Binding class name: `timestamp`

Dictionary key name: `timestamp`

type_

TypedField subclass for `VocabString` fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Type

Dictionary key name: type

class cybox.core.action.**ActionAliases** (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_core.ActionAliasesType

class cybox.core.action.**ActionArgument**

Bases: cybox.Entity

XML binding class: cybox.bindings.cybox_core.ActionArgumentType

argument_name

TypedField subclass for VocabString fields.

Type: cybox.common.vocabs.VocabString

XML Binding class name: Argument_Name

Dictionary key name: argument_name

argument_value

XML Binding class name: Argument_Value

Dictionary key name: argument_value

class cybox.core.action.**ActionArguments** (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_core.ActionArgumentsType

class cybox.core.action.**ActionRelationship**

Bases: cybox.Entity

XML binding class: <undefined>

static from_dict (action_relationship_dict)

static from_obj (action_relationship_obj)

to_dict ()

to_obj (return_obj=None, ns_info=None)

class cybox.core.action.**ActionRelationships** (*args)

Bases: cybox.EntityList

XML binding class: `cybox.bindings.cybox_core.ActionRelationshipsType`

```
class cybox.core.action.Actions (*args)
    Bases: cybox.EntityList
```

XML binding class: `cybox.bindings.cybox_core.ActionsType`

```
class cybox.core.action.AssociatedObjects (*args)
    Bases: cybox.EntityList
```

XML binding class: `cybox.bindings.cybox_core.AssociatedObjectsType`

Version: 2.1.0.11

cybox.core.action_reference module CybOX Action Reference Class

```
class cybox.core.action_reference.ActionReference (action_id=None)
    Bases: cybox.Entity
```

XML binding class: `cybox.bindings.cybox_core.ActionReferenceType`

action_id

XML Binding class name: `action_id`
Dictionary key name: `action_id`

Version: 2.1.0.11

cybox.core.associated_object module

```
class cybox.core.associated_object.AssociatedObject (defined_object=None, type_=None,
                                                    association_type=None)
```

Bases: `cybox.core.object.Object`

The CybOX Associated Object element.

Currently only supports the `id`, `association_type` and `ObjectProperties` properties

XML binding class: <undefined>

static from_dict (*object_dict*)

static from_obj (*object_obj*)

superclass

alias of `Object` | XML binding class: <undefined>

to_dict ()

`to_obj` (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.core.event module

class `cybox.core.event.Event`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_core.EventType`

actions

Type: `cybox.core.action.Actions`

XML Binding class name: `Actions`

Dictionary key name: `actions`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

event

(List of values permitted)

Type: `cybox.core.event.Event`

XML Binding class name: `Event`

Dictionary key name: `event`

frequency

Type: `cybox.core.frequency.Frequency`

XML Binding class name: `Frequency`

Dictionary key name: `frequency`

id_

XML Binding class name: `id`

Dictionary key name: `id`

idref

XML Binding class name: `idref`

Dictionary key name: `idref`

observation_method

Type: `cybox.common.measuresource.MeasureSource`

XML Binding class name: `Observation_Method`

Dictionary key name: `observation_method`

type_
TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: Type
Dictionary key name: type

Version: 2.1.0.11

cybox.core.frequency module

class `cybox.core.frequency.Frequency`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_core.FrequencyType`

rate

XML Binding class name: rate
Dictionary key name: rate

scale

XML Binding class name: scale
Dictionary key name: scale

trend

XML Binding class name: trend
Dictionary key name: trend

units

XML Binding class name: units
Dictionary key name: units

Version: 2.1.0.11

cybox.core.object module

class `cybox.core.object.DomainSpecificObjectProperties`
Bases: `cybox.Entity`

The Cybox DomainSpecificObjectProperties base class.

XML binding class: <undefined>

static from_dict (*domain_specific_properties_dict*)

static from_obj (*domain_specific_properties_obj*)

to_dict (*partial_dict=None*)

Populate an existing dictionary.

Note that this is different than `to_dict()` on most other CybOX types.

to_obj (*return_obj=None, ns_info=None*)

Populate an existing bindings object.

Note that this is different than `to_obj()` on most other CybOX types.

class `cybox.core.object.Object` (*properties=None, type_=None*)

Bases: `cybox.Entity`

The CybOX Object element.

Currently only supports the following data members: - `id_` - `idref` - `properties` - `related_objects`

XML binding class: <undefined>

add_related (*related, relationship, inline=True*)

static from_dict (*object_dict, obj=None*)

static from_obj (*object_obj, obj=None*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.core.object.RelatedObject` (**args, **kwargs*)

Bases: `cybox.core.object.Object`

XML binding class: <undefined>

static from_dict (*relobj_dict*)

static from_obj (*relobj_obj*)

get_properties ()

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

`cybox.core.object.add_external_class` (*klass, name=None*)

Adds a class implementation to this binding's `globals()` dict.

These classes can be used to implement `Properties`, `Domain_Specific_Object_Properties`, or `Defined_Effect` fields on an `Object`.

Parameters

- **klass** (*class*) – Python class that implements the new type
- **name** (*str*) – The name of the class, as it will appear in XML documents to be parsed. Defaults to `klass.__name__`.

Version: 2.1.0.11

cybox.core.observable module

class cybox.core.observable.**Keywords** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.cybox_core.KeywordsType

class cybox.core.observable.**Observable** (item=None, id=None, idref=None, title=None, description=None)
Bases: cybox.Entity

Bases: cybox.Entity

A single Observable.

XML binding class: <undefined>

add_keyword (value)

static from_dict (observable_dict)

static from_obj (observable_obj)

to_dict ()

to_obj (return_obj=None, ns_info=None)

class cybox.core.observable.**ObservableComposition** (operator='AND', observables=None)
Bases: cybox.Entity

The ObservableCompositionType entity defines a logical compositions of CybOX Observables. The combinatorial behavior is derived from the operator property.

XML binding class: <undefined>

add (observable)

static from_dict (observable_comp_dict)

static from_obj (observable_comp_obj)

to_dict ()

to_obj (return_obj=None, ns_info=None)

class cybox.core.observable.**Observables** (observables=None)
Bases: cybox.EntityList

The root CybOX Observables object.

Pools are not currently supported.

XML binding class: <undefined>

add (observable)

static from_dict (observables_dict)

```
static from_obj (observables_obj)
to_dict ()
to_obj (return_obj=None, ns_info=None)
```

Version: 2.1.0.11

cybox.core.action module

```
class cybox.core.action.Action
    Bases: cybox.Entity
```

XML binding class: `cybox.bindings.cybox_core.ActionType`

action_aliases

```
Type: cybox.core.action.ActionAliases
XML Binding class name: ActionAliases
Dictionary key name: action_aliases
```

action_arguments

```
Type: cybox.core.action.ActionArguments
XML Binding class name: Action_Arguments
Dictionary key name: action_arguments
```

action_status

```
XML Binding class name: action_status
Dictionary key name: action_status
```

associated_objects

```
Type: cybox.core.action.AssociatedObjects
XML Binding class name: Associated_Objects
Dictionary key name: associated_objects
```

context

```
XML Binding class name: context
Dictionary key name: context
```

description

```
Type: cybox.common.structured_text.StructuredText
XML Binding class name: Description
Dictionary key name: description
```

discovery_method

Type: `cybox.common.measuresource.MeasureSource`
XML Binding class name: `Discovery_Method`
Dictionary key name: `discovery_method`

frequency

Type: `cybox.core.frequency.Frequency`
XML Binding class name: `Frequency`
Dictionary key name: `frequency`

id_

XML Binding class name: `id`
Dictionary key name: `id`

idref

XML Binding class name: `idref`
Dictionary key name: `idref`

name

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: `Name`
Dictionary key name: `name`

ordinal_position

XML Binding class name: `ordinal_position`
Dictionary key name: `ordinal_position`

relationships

Type: `cybox.core.action.ActionRelationships`
XML Binding class name: `Relationships`
Dictionary key name: `relationships`

timestamp

XML Binding class name: `timestamp`
Dictionary key name: `timestamp`

type_

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: `Type`
Dictionary key name: `type`

class `cybox.core.action.ActionAliases` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_core.ActionAliasesType`

class `cybox.core.action.ActionArgument`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_core.ActionArgumentType`

argument_name
TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: `Argument_Name`
Dictionary key name: `argument_name`

argument_value

XML Binding class name: `Argument_Value`
Dictionary key name: `argument_value`

class `cybox.core.action.ActionArguments` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_core.ActionArgumentsType`

class `cybox.core.action.ActionRelationship`
Bases: `cybox.Entity`

XML binding class: <undefined>

static from_dict (*action_relationship_dict*)

static from_obj (*action_relationship_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.core.action.ActionRelationships` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_core.ActionRelationshipsType`

class `cybox.core.action.Actions` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_core.ActionsType`

class `cybox.core.action.AssociatedObjects` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_core.AssociatedObjectsType`

Version: 2.1.0.11

cybox.core.action_reference module

CyBOX Action Reference Class

class `cybox.core.action_reference.ActionReference` (*action_id=None*)
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_core.ActionReferenceType`

action_id

XML Binding class name: `action_id`

Dictionary key name: `action_id`

Version: 2.1.0.11

cybox.core.associated_object module

class `cybox.core.associated_object.AssociatedObject` (*defined_object=None, type_=None, association_type=None*)

Bases: `cybox.core.object.Object`

The CyBOX Associated Object element.

Currently only supports the `id`, `association_type` and `ObjectProperties` properties

XML binding class: <undefined>

static from_dict (*object_dict*)

static from_obj (*object_obj*)

superclass

alias of `Object` | XML binding class: <undefined>

to_dict ()

`to_obj` (*return_obj=None, ns_info=None*)

Version: 2.1.0.11

cybox.core.event module

class `cybox.core.event.Event`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_core.EventType`

actions

Type: `cybox.core.action.Actions`

XML Binding class name: `Actions`

Dictionary key name: `actions`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

event

(List of values permitted)

Type: `cybox.core.event.Event`

XML Binding class name: `Event`

Dictionary key name: `event`

frequency

Type: `cybox.core.frequency.Frequency`

XML Binding class name: `Frequency`

Dictionary key name: `frequency`

id_

XML Binding class name: `id`

Dictionary key name: `id`

idref

XML Binding class name: `idref`

Dictionary key name: `idref`

observation_method

Type: `cybox.common.measuresource.MeasureSource`

XML Binding class name: `Observation_Method`

Dictionary key name: `observation_method`

type_

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.core.frequency module

class `cybox.core.frequency.Frequency`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.cybox_core.FrequencyType`

rate

XML Binding class name: `rate`

Dictionary key name: `rate`

scale

XML Binding class name: `scale`

Dictionary key name: `scale`

trend

XML Binding class name: `trend`

Dictionary key name: `trend`

units

XML Binding class name: `units`

Dictionary key name: `units`

Version: 2.1.0.11

cybox.core.object module

class `cybox.core.object.DomainSpecificObjectProperties`

Bases: `cybox.Entity`

The Cybox `DomainSpecificObjectProperties` base class.

XML binding class: <undefined>

static from_dict (*domain_specific_properties_dict*)

static from_obj (*domain_specific_properties_obj*)

to_dict (*partial_dict=None*)

Populate an existing dictionary.

Note that this is different than `to_dict()` on most other CybOX types.

to_obj (*return_obj=None, ns_info=None*)

Populate an existing bindings object.

Note that this is different than `to_obj()` on most other CybOX types.

class `cybox.core.object.Object` (*properties=None, type_=None*)

Bases: `cybox.Entity`

The CybOX Object element.

Currently only supports the following data members: - `id_` - `idref` - `properties` - `related_objects`

XML binding class: <undefined>

add_related (*related, relationship, inline=True*)

static from_dict (*object_dict, obj=None*)

static from_obj (*object_obj, obj=None*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.core.object.RelatedObject` (**args, **kwargs*)

Bases: `cybox.core.object.Object`

XML binding class: <undefined>

static from_dict (*relobj_dict*)

static from_obj (*relobj_obj*)

get_properties ()

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

`cybox.core.object.add_external_class` (*klass, name=None*)

Adds a class implementation to this binding's `globals()` dict.

These classes can be used to implement `Properties`, `Domain_Specific_Object_Properties`, or `Defined_Effect` fields on an `Object`.

Parameters

- **klass** (*class*) – Python class that implements the new type

- **name** (*str*) – The name of the class, as it will appear in XML documents to be parsed. Defaults to `klass.__name__`.

Version: 2.1.0.11

cybox.core.observable module

class `cybox.core.observable.Keywords` (**args*)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.cybox_core.KeywordsType`

class `cybox.core.observable.Observable` (*item=None, id=None, idref=None, title=None, description=None*)

Bases: `cybox.Entity`

A single Observable.

XML binding class: <undefined>

add_keyword (*value*)

static from_dict (*observable_dict*)

static from_obj (*observable_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.core.observable.ObservableComposition` (*operator='AND', observables=None*)
Bases: `cybox.Entity`

The ObservableCompositionType entity defines a logical compositions of CyBOX Observables. The combinatorial behavior is derived from the operator property.

XML binding class: <undefined>

add (*observable*)

static from_dict (*observable_comp_dict*)

static from_obj (*observable_comp_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.core.observable.Observables` (*observables=None*)
Bases: `cybox.EntityList`

The root CybOX Observables object.

Pools are not currently supported.

XML binding class: <undefined>

```
add (observable)  
static from_dict (observables_dict)  
static from_obj (observables_obj)  
to_dict ()  
to_obj (return_obj=None, ns_info=None)
```

3.1.3 CybOX Objects

Modules located in the base `cybox.objects` package

Version: 2.1.0.11

`cybox.objects` package

Submodules

Version: 2.1.0.11

`cybox.objects.account_object` module

class `cybox.objects.account_object.Account`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.account_object.AccountObjectType`

authentication

(List of values permitted)

Type: `cybox.objects.account_object.Authentication`

XML Binding class name: Authentication

Dictionary key name: authentication

creation_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: Creation_Date

Dictionary key name: creation_date

description

Type: `cybox.common.properties.String`

XML Binding class name: Description

Dictionary key name: description

disabled

XML Binding class name: disabled

Dictionary key name: disabled

domain

Type: `cybox.common.properties.String`

XML Binding class name: Domain

Dictionary key name: domain

last_accessed_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Last_Accessed_Time

Dictionary key name: last_accessed_time

locked_out

XML Binding class name: locked_out

Dictionary key name: locked_out

modified_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: Modified_Date

Dictionary key name: modified_date

class `cybox.objects.account_object.Authentication`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.account_object.AuthenticationType`

authentication_data

Type: `cybox.common.properties.String`

XML Binding class name: Authentication_Data

Dictionary key name: authentication_data

authentication_token_protection_mechanism

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Authentication-Token-Protection-Mechanism

Dictionary key name: authentication_token_protection_mechanism

authentication_type

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: `Authentication_Type`
Dictionary key name: `authentication_type`

structured_authentication_mechanism

Type: `cybox.objects.account_object.StructuredAuthenticationMechanism`
XML Binding class name: `Structured_Authentication_Mechanism`
Dictionary key name: `structured_authentication_mechanism`

class `cybox.objects.account_object.StructuredAuthenticationMechanism`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.account_object.StructuredAuthenticationMechanismType`

description

Type: `cybox.common.properties.String`
XML Binding class name: `Description`
Dictionary key name: `description`

Version: 2.1.0.11

cybox.objects.address_object module

class `cybox.objects.address_object.Address` (*address_value=None, category=None*)
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.address_object.AddressObjectType`

address_value

Type: `cybox.common.properties.String`
XML Binding class name: `Address_Value`
Dictionary key name: `address_value`

category

XML Binding class name: `category`
Dictionary key name: `category`

is_destination

XML Binding class name: `is_destination`
Dictionary key name: `is_destination`

is_source

XML Binding class name: `is_source`

Dictionary key name: `is_source`

is_spoofed

XML Binding class name: `is_spoofed`

Dictionary key name: `is_spoofed`

vlan_name

Type: `cybox.common.properties.String`

XML Binding class name: `VLAN_Name`

Dictionary key name: `vlan_name`

vlan_num

Type: `cybox.common.properties.Integer`

XML Binding class name: `VLAN_Num`

Dictionary key name: `vlan_num`

class `cybox.objects.address_object.EmailAddress` (*addr_string=None*)

Bases: `cybox.objects.address_object.Address`

Convenience class for creating email addresses.

Note that this is not an actual CybOX type.

XML binding class: `cybox.bindings.address_object.AddressObjectType`

classmethod `istypeof` (*obj*)

Version: 2.1.0.11

cybox.objects.api_object module

class `cybox.objects.api_object.API`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.api_object.APIObjectType`

address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Address`

Dictionary key name: `address`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: Description

Dictionary key name: description

function_name

Type: `cybox.common.properties.String`

XML Binding class name: Function_Name

Dictionary key name: function_name

normalized_function_name

Type: `cybox.common.properties.String`

XML Binding class name: Normalized_Function_Name

Dictionary key name: normalized_function_name

platform

Type: `cybox.common.platform_specification.PlatformSpecification`

XML Binding class name: Platform

Dictionary key name: platform

Version: 2.1.0.11

cybox.objects.archive_file_object module

class `cybox.objects.archive_file_object.ArchiveFile`

Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.file_object.FileObjectType`

archive_format

Type: `cybox.common.properties.String`

XML Binding class name: Archive_Format

Dictionary key name: archive_format

archived_file

(List of values permitted)

Type: `cybox.objects.file_object.File`

XML Binding class name: Archived_File

Dictionary key name: archived_file

comment

Type: `cybox.common.properties.String`

XML Binding class name: Comment

Dictionary key name: comment

decryption_key

Type: `cybox.common.properties.String`
XML Binding class name: `Decryption_Key`
Dictionary key name: `decryption_key`

encryption_algorithm

Type: `cybox.common.properties.String`
XML Binding class name: `Encryption_Algorithm`
Dictionary key name: `encryption_algorithm`

file_count

Type: `cybox.common.properties.Integer`
XML Binding class name: `File_Count`
Dictionary key name: `file_count`

version

Type: `cybox.common.properties.String`
XML Binding class name: `Version`
Dictionary key name: `version`

Version: 2.1.0.11

cybox.objects.artifact_object module

class `cybox.objects.artifact_object.Artifact` (*data=None, type_=None*)
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: <undefined>

static from_dict (*artifact_dict*)

static from_obj (*artifact_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Base64Encoding`
Bases: `cybox.objects.artifact_object.Encoding`

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class `cybox.objects.artifact_object.Bz2Compression`
Bases: `cybox.objects.artifact_object.Compression`

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class `cybox.objects.artifact_object.Compression` (*compression_mechanism=None*)

Bases: `cybox.objects.artifact_object.Packaging`

A Compression packaging layer

Currently only zlib and bz2 are supported. Also, `compression_mechanism_ref` is not currently supported.

XML binding class: <undefined>

static from_dict (*compression_dict*)

static from_obj (*compression_obj*)

static get_object (*mechanism*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Encoding`

Bases: `cybox.objects.artifact_object.Packaging`

An encoding packaging layer.

Currently only base64 with a standard alphabet is supported.

XML binding class: <undefined>

static from_dict (*encoding_dict*)

static from_obj (*encoding_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Encryption` (*encryption_mechanism=None, encryption_key=None*)

Bases: `cybox.objects.artifact_object.Packaging`

An encryption packaging layer.

XML binding class: <undefined>

static from_dict (*encryption_dict*)

static from_obj (*encryption_obj*)

static get_object (*mechanism, key*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Packaging`

Bases: `cybox.Entity`

An individual packaging layer.

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class `cybox.objects.artifact_object.PasswordProtectedZipEncryption` (*key*)

Bases: `cybox.objects.artifact_object.Encryption`

XML binding class: <undefined>

unpack (*packed_data*)

class `cybox.objects.artifact_object.RawArtifact` (*value=None*)

Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.artifact_object.RawArtifactType`

byte_order

XML Binding class name: `byte_order`

Dictionary key name: `byte_order`

class `cybox.objects.artifact_object.XOREncryption` (*key*)

Bases: `cybox.objects.artifact_object.Encryption`

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class `cybox.objects.artifact_object.ZlibCompression`

Bases: `cybox.objects.artifact_object.Compression`

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

`cybox.objects.artifact_object.xor` (*data*, *key*)

Version: 2.1.0.11

cybox.objects.as_object module

`cybox.objects.as_object.AS`

alias of `AutonomousSystem` | XML binding class: `cybox.bindings.as_object.ASObjectType`

class `cybox.objects.as_object.AutonomousSystem`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.as_object.ASObjectType`

handle

Type: `cybox.common.properties.String`

XML Binding class name: `Handle`

Dictionary key name: `handle`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

number

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number`

Dictionary key name: `number`

regional_internet_registry

Type: `cybox.common.properties.String`

XML Binding class name: `Regional_Internet_Registry`

Dictionary key name: `regional_internet_registry`

Version: 2.1.0.11

cybox.objects.arp_cache_object module

class `cybox.objects.arp_cache_object.ARPCache`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.arp_cache_object.ARPCacheObjectType`

arp_cache_entry

(List of values permitted)

Type: `cybox.objects.arp_cache_object.ARPCacheEntry`

XML Binding class name: `ARP_Cache_Entry`

Dictionary key name: arp_cache_entry
class cybox.objects.arp_cache_object.ARPCacheEntry
Bases: cybox.Entity

XML binding class: cybox.bindings.arp_cache_object.ARPCacheEntryType

ip_address

Type: cybox.objects.address_object.Address
XML Binding class name: IP_Address
Dictionary key name: ip_address

network_interface

Type: cybox.objects.system_object.NetworkInterface
XML Binding class name: Network_Interface
Dictionary key name: network_interface

physical_address

Type: cybox.common.properties.String
XML Binding class name: Physical_Address
Dictionary key name: physical_address

type_

Type: cybox.common.properties.String
XML Binding class name: Type
Dictionary key name: type

Version: 2.1.0.11

cybox.objects.code_object module

class cybox.objects.code_object.Code
Bases: cybox.common.object_properties.ObjectProperties

XML binding class: cybox.bindings.code_object.CodeObjectType

code_language

Type: cybox.common.properties.String
XML Binding class name: Code_Language
Dictionary key name: code_language

code_segment

Type: cybox.common.properties.String

XML Binding class name: Code_Segment

Dictionary key name: code_segment

code_segment_xor

Type: `cybox.objects.code_object.CodeSegmentXOR`

XML Binding class name: Code_Segment_XOR

Dictionary key name: code_segment_xor

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: Description

Dictionary key name: description

digital_signatures

Type: `cybox.common.digitalsignature.DigitalSignatureList`

XML Binding class name: Digital_Signatures

Dictionary key name: digital_signatures

discovery_method

Type: `cybox.common.measuresource.MeasureSource`

XML Binding class name: Discovery_Method

Dictionary key name: discovery_method

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

processor_family

(List of values permitted)

Type: `cybox.common.properties.String`

XML Binding class name: Processor_Family

Dictionary key name: processor_family

purpose

Type: `cybox.common.properties.String`

XML Binding class name: Purpose

Dictionary key name: purpose

start_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Start_Address

Dictionary key name: start_address

targeted_platforms

Type: `cybox.objects.code_object.TargetedPlatforms`

XML Binding class name: `Targeted_Platforms`

Dictionary key name: `targeted_platforms`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

class `cybox.objects.code_object.CodeSegmentXOR` (*value=None*)

Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.code_object.CodeSegmentXORType`

xor_pattern

XML Binding class name: `xor_pattern`

Dictionary key name: `xor_pattern`

class `cybox.objects.code_object.TargetedPlatforms` (**args*)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.code_object.TargetedPlatformsType`

Version: 2.1.0.11

cybox.objects.device_object module

class `cybox.objects.device_object.Device`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.device_object.DeviceObjectType`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

device_type

Type: `cybox.common.properties.String`

XML Binding class name: `Device_Type`

Dictionary key name: `device_type`

firmware_version

Type: `cybox.common.properties.String`

XML Binding class name: `Firmware_Version`

Dictionary key name: `firmware_version`

manufacturer

Type: `cybox.common.properties.String`

XML Binding class name: `Manufacturer`

Dictionary key name: `manufacturer`

model

Type: `cybox.common.properties.String`

XML Binding class name: `Model`

Dictionary key name: `model`

serial_number

Type: `cybox.common.properties.String`

XML Binding class name: `Serial_Number`

Dictionary key name: `serial_number`

Version: 2.1.0.11

cybox.objects.disk_object module

class `cybox.objects.disk_object.Disk`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.disk_object.DiskObjectType`

disk_name

Type: `cybox.common.properties.String`

XML Binding class name: `Disk_Name`

Dictionary key name: `disk_name`

disk_size

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Disk_Size`

Dictionary key name: `disk_size`

free_space

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Free_Space`

Dictionary key name: `free_space`

partition_list

Type: `cybox.objects.disk_object.PartitionList`

XML Binding class name: `Partition_List`

Dictionary key name: `partition_list`

type

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

class `cybox.objects.disk_object.PartitionList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.disk_object.PartitionListType`

Version: 2.1.0.11

cybox.objects.disk_partition_object module

class `cybox.objects.disk_partition_object.DiskPartition`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.disk_partition_object.DiskPartitionObjectType`

created

Type: `cybox.common.properties.String`

XML Binding class name: `Created`

Dictionary key name: `created`

device_name

Type: `cybox.common.properties.Name`

XML Binding class name: `Device_Name`

Dictionary key name: `device_name`

mount_point

Type: `cybox.common.properties.String`

XML Binding class name: `Mount_Point`

Dictionary key name: `mount_point`

partition_id

Type: `cybox.common.properties.Integer`

XML Binding class name: `Partition_ID`

Dictionary key name: `partition_id`

partition_length

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Partition_Length`

Dictionary key name: `partition_length`

partition_offset

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Partition_Offset`

Dictionary key name: `partition_offset`

space_left

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Space_Left`

Dictionary key name: `space_left`

space_used

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Space_Used`

Dictionary key name: `space_used`

total_space

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Total_Space`

Dictionary key name: `total_space`

type

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.dns_cache_object module

class `cybox.objects.dns_cache_object.DNSCache`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.dns_cache_object.DNSCacheObjectType`

dns_cache_entry

(List of values permitted)

Type: `cybox.objects.dns_cache_object.DNSCacheEntry`

XML Binding class name: DNS_Cache_Entry

Dictionary key name: dns_cache_entry

class cybox.objects.dns_cache_object.DNSCacheEntry

Bases: cybox.Entity

XML binding class: cybox.bindings.dns_cache_object.DNSCacheEntryType

dns_entry

Type: cybox.objects.dns_record_object.DNSRecord

XML Binding class name: DNS_Entry

Dictionary key name: dns_entry

t11

Type: cybox.common.properties.PositiveInteger

XML Binding class name: TTL

Dictionary key name: t11

Version: 2.1.0.11

cybox.objects.dns_query_object module

class cybox.objects.dns_query_object.DNSQuery

Bases: cybox.common.object_properties.ObjectProperties

XML binding class: cybox.bindings.dns_query_object.DNSQueryObjectType

additional_records

Type: cybox.objects.dns_query_object.DNSResourceRecords

XML Binding class name: Additional_Records

Dictionary key name: additional_records

answer_resource_records

Type: cybox.objects.dns_query_object.DNSResourceRecords

XML Binding class name: Answer_Resource_Records

Dictionary key name: answer_resource_records

authority_resource_records

Type: cybox.objects.dns_query_object.DNSResourceRecords

XML Binding class name: Authority_Resource_Records

Dictionary key name: authority_resource_records

date_ran

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Date_Ran`

Dictionary key name: `date_ran`

question

Type: `cybox.objects.dns_query_object.DNSQuestion`

XML Binding class name: `Question`

Dictionary key name: `question`

service_used

Type: `cybox.common.properties.String`

XML Binding class name: `Service_Used`

Dictionary key name: `service_used`

successful

XML Binding class name: `successful`

Dictionary key name: `successful`

transaction_id

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Transaction_ID`

Dictionary key name: `transaction_id`

class `cybox.objects.dns_query_object.DNSQuestion`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.dns_query_object.DNSQuestionType`

qclass

Type: `cybox.common.properties.String`

XML Binding class name: `QClass`

Dictionary key name: `qclass`

qname

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `QName`

Dictionary key name: `qname`

qtype

Type: `cybox.common.properties.String`

XML Binding class name: `QType`

Dictionary key name: `qtype`

class `cybox.objects.dns_query_object.DNSResourceRecords` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.dns_query_object.DNSResourceRecordsType`

Version: 2.1.0.11

cybox.objects.dns_record_object module

class `cybox.objects.dns_record_object.DNSRecord`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.dns_record_object.DNSRecordObjectType`

address_class

Type: `cybox.common.properties.String`
XML Binding class name: `Address_Class`
Dictionary key name: `address_class`

data_length

Type: `cybox.common.properties.Integer`
XML Binding class name: `Data_Length`
Dictionary key name: `data_length`

description

Type: `cybox.common.structured_text.StructuredText`
XML Binding class name: `Description`
Dictionary key name: `description`

domain_name

Type: `cybox.objects.uri_object.URI`
XML Binding class name: `Domain_Name`
Dictionary key name: `domain_name`

entry_type

Type: `cybox.common.properties.String`
XML Binding class name: `Entry_Type`
Dictionary key name: `entry_type`

flags

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Flags`

Dictionary key name: flags

ip_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: IP_Address

Dictionary key name: ip_address

queried_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: Queried_Date

Dictionary key name: queried_date

record_data

XML Binding class name: Record_Data

Dictionary key name: record_data

record_name

Type: `cybox.common.properties.String`

XML Binding class name: Record_Name

Dictionary key name: record_name

record_type

Type: `cybox.common.properties.String`

XML Binding class name: Record_Type

Dictionary key name: record_type

ttl

Type: `cybox.common.properties.Integer`

XML Binding class name: TTL

Dictionary key name: ttl

Version: 2.1.0.11

cybox.objects.domain_name_object module

class `cybox.objects.domain_name_object.DomainName`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.domain_name_object.DomainNameObjectType`

type_

XML Binding class name: type_

Dictionary key name: type

value

Type: `cybox.common.properties.String`

XML Binding class name: Value

Dictionary key name: value

Version: 2.1.0.11

cybox.objects.email_message_object module

class `cybox.objects.email_message_object.AttachmentReference` (*object_reference=None*)

Bases: `cybox.ObjectReference`

XML binding class: `cybox.bindings.email_message_object.AttachmentReferenceType`

class `cybox.objects.email_message_object.Attachments` (*args)

Bases: `cybox.ReferenceList`

XML binding class: `cybox.bindings.email_message_object.AttachmentsType`

class `cybox.objects.email_message_object.EmailHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.email_message_object.EmailHeaderType`

bcc

Type: `cybox.objects.email_message_object.EmailRecipients`

XML Binding class name: BCC

Dictionary key name: bcc

boundary

Type: `cybox.common.properties.String`

XML Binding class name: Boundary

Dictionary key name: boundary

cc

Type: `cybox.objects.email_message_object.EmailRecipients`

XML Binding class name: CC

Dictionary key name: cc

content_type

Type: `cybox.common.properties.String`

XML Binding class name: Content_Type

Dictionary key name: content_type

date

Type: `cybox.common.properties.DateTime`

XML Binding class name: Date

Dictionary key name: date

errors_to

Type: `cybox.common.properties.String`

XML Binding class name: Errors_To

Dictionary key name: errors_to

from_

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: From

Dictionary key name: from

in_reply_to

Type: `cybox.common.properties.String`

XML Binding class name: In_Reply_To

Dictionary key name: in_reply_to

message_id

Type: `cybox.common.properties.String`

XML Binding class name: Message_ID

Dictionary key name: message_id

mime_version

Type: `cybox.common.properties.String`

XML Binding class name: MIME_Version

Dictionary key name: mime_version

precedence

Type: `cybox.common.properties.String`

XML Binding class name: Precedence

Dictionary key name: precedence

received_lines

Type: `cybox.objects.email_message_object.ReceivedLineList`

XML Binding class name: Received_Lines

Dictionary key name: received_lines

reply_to

Type: `cybox.objects.address_object.EmailAddress`
XML Binding class name: `Reply_To`
Dictionary key name: `reply_to`

sender

Type: `cybox.objects.address_object.EmailAddress`
XML Binding class name: `Sender`
Dictionary key name: `sender`

subject

Type: `cybox.common.properties.String`
XML Binding class name: `Subject`
Dictionary key name: `subject`

to

Type: `cybox.objects.email_message_object.EmailRecipients`
XML Binding class name: `To`
Dictionary key name: `to`

user_agent

Type: `cybox.common.properties.String`
XML Binding class name: `User_Agent`
Dictionary key name: `user_agent`

x_mailer

Type: `cybox.common.properties.String`
XML Binding class name: `X_Mailer`
Dictionary key name: `x_mailer`

x_originating_ip

Type: `cybox.objects.address_object.Address`
XML Binding class name: `X_Originating_IP`
Dictionary key name: `x_originating_ip`

x_priority

Type: `cybox.common.properties.PositiveInteger`
XML Binding class name: `X_Priority`
Dictionary key name: `x_priority`

class `cybox.objects.email_message_object.EmailMessage`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.email_message_object.EmailMessageObjectType`

attachments

Type: `cybox.objects.email_message_object.Attachments`

XML Binding class name: Attachments

Dictionary key name: attachments

email_server

Type: `cybox.common.properties.String`

XML Binding class name: Email_Server

Dictionary key name: email_server

header

Type: `cybox.objects.email_message_object.EmailHeader`

XML Binding class name: Header

Dictionary key name: header

links

Type: `cybox.objects.email_message_object.Links`

XML Binding class name: Links

Dictionary key name: links

raw_body

Type: `cybox.common.properties.String`

XML Binding class name: Raw_Body

Dictionary key name: raw_body

raw_header

Type: `cybox.common.properties.String`

XML Binding class name: Raw_Header

Dictionary key name: raw_header

class `cybox.objects.email_message_object.EmailRecipients` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.email_message_object.EmailRecipientsType`

class `cybox.objects.email_message_object.LinkReference` (*object_reference=None*)

Bases: `cybox.ObjectReference`

XML binding class: `cybox.bindings.email_message_object.LinkReferenceType`

class `cybox.objects.email_message_object.Links` (*args)

Bases: `cybox.ReferenceList`

XML binding class: `cybox.bindings.email_message_object.LinksType`

class `cybox.objects.email_message_object.ReceivedLine`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.email_message_object.EmailReceivedLineType`

by

Type: `cybox.common.properties.String`

XML Binding class name: `By`

Dictionary key name: `by`

for_

Type: `cybox.common.properties.String`

XML Binding class name: `For`

Dictionary key name: `for`

from_

Type: `cybox.common.properties.String`

XML Binding class name: `From`

Dictionary key name: `from`

id_

Type: `cybox.common.properties.String`

XML Binding class name: `ID`

Dictionary key name: `id`

timestamp

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Timestamp`

Dictionary key name: `timestamp`

via

Type: `cybox.common.properties.String`

XML Binding class name: `Via`

Dictionary key name: `via`

with_

Type: `cybox.common.properties.String`

XML Binding class name: `With`

Dictionary key name: `with`

class `cybox.objects.email_message_object.ReceivedLineList` (*args)
Bases: `cybox.EntityList`

XML binding class:

`cybox.bindings.email_message_object.EmailReceivedLineListType`

Version: 2.1.0.11

cybox.objects.file_object module

class `cybox.objects.file_object.EPJumpCode`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.file_object.EPJumpCodeType`

depth

Type: `cybox.common.properties.Integer`

XML Binding class name: `Depth`

Dictionary key name: `depth`

opcodes

Type: `cybox.common.properties.String`

XML Binding class name: `Opcodes`

Dictionary key name: `opcodes`

class `cybox.objects.file_object.EntryPointSignature`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.file_object.EntryPointSignatureType`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

class `cybox.objects.file_object.EntryPointSignatureList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.file_object.EntryPointSignatureListType`

class `cybox.objects.file_object.File`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.file_object.FileObjectType`

accessed_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Accessed_Time`

Dictionary key name: `accessed_time`

add_hash (*hash_*)

byte_runs

Type: `cybox.common.byterun.ByteRuns`

XML Binding class name: `Byte_Runs`

Dictionary key name: `byte_runs`

compression_comment

Type: `cybox.common.properties.String`

XML Binding class name: `Compression_Comment`

Dictionary key name: `compression_comment`

compression_method

Type: `cybox.common.properties.String`

XML Binding class name: `Compression_Method`

Dictionary key name: `compression_method`

compression_version

Type: `cybox.common.properties.String`

XML Binding class name: `Compression_Version`

Dictionary key name: `compression_version`

created_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Created_Time`

Dictionary key name: `created_time`

decryption_key

Type: `cybox.common.properties.String`

XML Binding class name: `Decryption_Key`

Dictionary key name: decryption_key

device_path

Type: `cybox.common.properties.String`

XML Binding class name: Device_Path

Dictionary key name: device_path

digital_signatures

Type: `cybox.common.digitalsignature.DigitalSignatureList`

XML Binding class name: Digital_Signatures

Dictionary key name: digital_signatures

encryption_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: Encryption_Algorithm

Dictionary key name: encryption_algorithm

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

file_attributes_list

Type: `cybox.objects.file_object.FileAttribute`

XML Binding class name: File_Attributes_List

Dictionary key name: file_attributes_list

file_extension

Type: `cybox.common.properties.String`

XML Binding class name: File_Extension

Dictionary key name: file_extension

file_format

Type: `cybox.common.properties.String`

XML Binding class name: File_Format

Dictionary key name: file_format

file_name

Type: `cybox.common.properties.String`

XML Binding class name: File_Name

Dictionary key name: file_name

file_path

Type: `cybox.objects.file_object.FilePath`
XML Binding class name: `File_Path`
Dictionary key name: `file_path`

full_path

Type: `cybox.common.properties.String`
XML Binding class name: `Full_Path`
Dictionary key name: `full_path`

hashes

Type: `cybox.common.hashes.HashList`
XML Binding class name: `Hashes`
Dictionary key name: `hashes`

is_masqueraded

XML Binding class name: `is_masqueraded`
Dictionary key name: `is_masqueraded`

is_packed

XML Binding class name: `is_packed`
Dictionary key name: `is_packed`

magic_number

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Magic_Number`
Dictionary key name: `magic_number`

modified_time

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Modified_Time`
Dictionary key name: `modified_time`

packer_list

Type: `cybox.objects.file_object.PackerList`
XML Binding class name: `Packer_List`
Dictionary key name: `packer_list`

peak_entropy

Type: `cybox.common.properties.Double`
XML Binding class name: `Peak_Entropy`
Dictionary key name: `peak_entropy`

permissions

Type: `cybox.objects.file_object.FilePermissions`
 XML Binding class name: `Permissions`
 Dictionary key name: `permissions`

size_in_bytes

Type: `cybox.common.properties.UnsignedLong`
 XML Binding class name: `Size_In_Bytes`
 Dictionary key name: `size_in_bytes`

sym_links

Type: `cybox.objects.file_object.SymLinksList`
 XML Binding class name: `Sym_Links`
 Dictionary key name: `sym_links`

user_owner

Type: `cybox.common.properties.String`
 XML Binding class name: `User_Owner`
 Dictionary key name: `user_owner`

class `cybox.objects.file_object.FileAttribute`
 Bases: `cybox.Entity`

An abstract class for file attributes.

XML binding class: <undefined>

class `cybox.objects.file_object.FilePath(*args, **kwargs)`
 Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.file_object.FilePathType`

static from_dict (*filepath_dict*)

static from_obj (*filepath_obj*)

is_plain ()

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.file_object.FilePermissions`
 Bases: `cybox.Entity`

An abstract class for file permissions.

XML binding class: <undefined>

class `cybox.objects.file_object.Packer`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.file_object.PackerType`

detected_entrypoint_signatures

Type: `cybox.objects.file_object.EntryPointSignatureList`
XML Binding class name: `Detected_Entrypoint_Signatures`
Dictionary key name: `detected_entrypoint_signatures`

entry_point

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Entry_Point`
Dictionary key name: `entry_point`

ep_jump_codes

Type: `cybox.objects.file_object.EPJumpCode`
XML Binding class name: `EP_Jump_Codes`
Dictionary key name: `ep_jump_codes`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

signature

Type: `cybox.common.properties.String`
XML Binding class name: `Signature`
Dictionary key name: `signature`

type_

Type: `cybox.common.properties.String`
XML Binding class name: `Type`
Dictionary key name: `type`

version

Type: `cybox.common.properties.String`
XML Binding class name: `Version`
Dictionary key name: `version`

class `cybox.objects.file_object.PackerList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.file_object.PackerListType`

class `cybox.objects.file_object.SymLinksList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.file_object.SymLinksListType`

Version: 2.1.0.11

cybox.objects.gui_dialogbox_object module

class `cybox.objects.gui_dialogbox_object.GUIDialogbox`
Bases: `cybox.objects.gui_object.GUI`

XML binding class: `cybox.bindings.gui_dialogbox_object.GUIDialogboxObjectType`

box_caption

Type: `cybox.common.properties.String`
XML Binding class name: `Box_Caption`
Dictionary key name: `box_caption`

box_text

Type: `cybox.common.properties.String`
XML Binding class name: `Box_Text`
Dictionary key name: `box_text`

Version: 2.1.0.11

cybox.objects.gui_object module

class `cybox.objects.gui_object.GUI`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.gui_object.GUIObjectType`

height

Type: `cybox.common.properties.Integer`
XML Binding class name: `Height`
Dictionary key name: `height`

width

Type: `cybox.common.properties.Integer`
XML Binding class name: `Width`

Dictionary key name: width

Version: 2.1.0.11

cybox.objects.gui_window_object module

class cybox.objects.gui_window_object.**GUIWindow**

Bases: cybox.objects.gui_object.GUI

XML binding class: cybox.bindings.gui_window_object.GUIWindowObjectType

owner_window

Type: cybox.common.properties.String

XML Binding class name: Owner_Window

Dictionary key name: owner_window

parent_window

Type: cybox.common.properties.String

XML Binding class name: Parent_Window

Dictionary key name: parent_window

window_display_name

Type: cybox.common.properties.String

XML Binding class name: Window_Display_Name

Dictionary key name: window_display_name

Version: 2.1.0.11

cybox.objects.hostname_object module

class cybox.objects.hostname_object.**Hostname**

Bases: cybox.common.object_properties.ObjectProperties

XML binding class: cybox.bindings.hostname_object.HostnameObjectType

hostname_value

Type: cybox.common.properties.String

XML Binding class name: Hostname_Value

Dictionary key name: hostname_value

is_domain_name

XML Binding class name: is_domain_name

Dictionary key name: is_domain_name

naming_system

(List of values permitted)

Type: `cybox.common.properties.String`

XML Binding class name: `Naming_System`

Dictionary key name: `naming_system`

Version: 2.1.0.11

cybox.objects.http_session_object module

class `cybox.objects.http_session_object.HTTPClientRequest`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPClientRequestType`

http_message_body

Type: `cybox.objects.http_session_object.HTTPMessage`

XML Binding class name: `HTTP_Message_Body`

Dictionary key name: `http_message_body`

http_request_header

Type: `cybox.objects.http_session_object.HTTPRequestHeader`

XML Binding class name: `HTTP_Request_Header`

Dictionary key name: `http_request_header`

http_request_line

Type: `cybox.objects.http_session_object.HTTPRequestLine`

XML Binding class name: `HTTP_Request_Line`

Dictionary key name: `http_request_line`

class `cybox.objects.http_session_object.HTTPMessage`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPMessageType`

length

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Length`

Dictionary key name: `length`

message_body

Type: `cybox.common.properties.String`

XML Binding class name: `Message_Body`

Dictionary key name: `message_body`

class `cybox.objects.http_session_object.HTTPRequestHeader`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPRequestHeaderType`

parsed_header

Type: `cybox.objects.http_session_object.HTTPRequestHeaderFields`
XML Binding class name: `Parsed_Header`
Dictionary key name: `parsed_header`

raw_header

Type: `cybox.common.properties.String`
XML Binding class name: `Raw_Header`
Dictionary key name: `raw_header`

class `cybox.objects.http_session_object.HTTPRequestHeaderFields`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.http_session_object.HTTPRequestHeaderFieldsType`

accept

Type: `cybox.common.properties.String`
XML Binding class name: `Accept`
Dictionary key name: `accept`

accept_charset

Type: `cybox.common.properties.String`
XML Binding class name: `Accept_Charset`
Dictionary key name: `accept_charset`

accept_datetime

Type: `cybox.common.properties.String`
XML Binding class name: `Accept_Datetime`
Dictionary key name: `accept_datetime`

accept_encoding

Type: `cybox.common.properties.String`
XML Binding class name: `Accept_Encoding`
Dictionary key name: `accept_encoding`

accept_language

Type: `cybox.common.properties.String`

XML Binding class name: `Accept_Language`

Dictionary key name: `accept_language`

authorization

Type: `cybox.common.properties.String`

XML Binding class name: `Authorization`

Dictionary key name: `authorization`

cache_control

Type: `cybox.common.properties.String`

XML Binding class name: `Cache_Control`

Dictionary key name: `cache_control`

connection

Type: `cybox.common.properties.String`

XML Binding class name: `Connection`

Dictionary key name: `connection`

content_length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Content_Length`

Dictionary key name: `content_length`

content_md5

Type: `cybox.common.properties.String`

XML Binding class name: `Content_MD5`

Dictionary key name: `content_md5`

content_type

Type: `cybox.common.properties.String`

XML Binding class name: `Content_Type`

Dictionary key name: `content_type`

cookie

Type: `cybox.common.properties.String`

XML Binding class name: `Cookie`

Dictionary key name: `cookie`

date

Type: `cybox.common.properties.DateTime`

XML Binding class name: Date

Dictionary key name: date

dnt

Type: `cybox.common.properties.String`

XML Binding class name: DNT

Dictionary key name: dnt

expect

Type: `cybox.common.properties.String`

XML Binding class name: Expect

Dictionary key name: expect

from_

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: From

Dictionary key name: from

host

Type: `cybox.objects.http_session_object.HostField`

XML Binding class name: Host

Dictionary key name: host

if_match

Type: `cybox.common.properties.String`

XML Binding class name: If_Match

Dictionary key name: if_match

if_modified_since

Type: `cybox.common.properties.DateTime`

XML Binding class name: If_Modified_Since

Dictionary key name: if_modified_since

if_none_match

Type: `cybox.common.properties.String`

XML Binding class name: If_None_Match

Dictionary key name: if_none_match

if_range

Type: `cybox.common.properties.String`

XML Binding class name: If_Range

Dictionary key name: if_range

if_unmodified_since

Type: `cybox.common.properties.DateTime`
XML Binding class name: `If_Unmodified_Since`
Dictionary key name: `if_unmodified_since`

max_forwards

Type: `cybox.common.properties.Integer`
XML Binding class name: `Max_Forwards`
Dictionary key name: `max_forwards`

pragma

Type: `cybox.common.properties.String`
XML Binding class name: `Pragma`
Dictionary key name: `pragma`

proxy_authorization

Type: `cybox.common.properties.String`
XML Binding class name: `Proxy_Authorization`
Dictionary key name: `proxy_authorization`

range_

Type: `cybox.common.properties.String`
XML Binding class name: `Range`
Dictionary key name: `range`

referer

Type: `cybox.objects.uri_object.URI`
XML Binding class name: `Referer`
Dictionary key name: `referer`

te

Type: `cybox.common.properties.String`
XML Binding class name: `TE`
Dictionary key name: `te`

user_agent

Type: `cybox.common.properties.String`
XML Binding class name: `User_Agent`
Dictionary key name: `user_agent`

via

Type: `cybox.common.properties.String`

XML Binding class name: Via

Dictionary key name: via

warning

Type: `cybox.common.properties.String`

XML Binding class name: Warning

Dictionary key name: warning

x_att_deviceid

Type: `cybox.common.properties.String`

XML Binding class name: X_ATT_DeviceId

Dictionary key name: x_att_deviceid

x_forwarded_for

Type: `cybox.common.properties.String`

XML Binding class name: X_Forwarded_For

Dictionary key name: x_forwarded_for

x_forwarded_proto

Type: `cybox.common.properties.String`

XML Binding class name: X_Forwarded_Proto

Dictionary key name: x_forwarded_proto

x_requested_with

Type: `cybox.common.properties.String`

XML Binding class name: X_Requested_With

Dictionary key name: x_requested_with

x_wap_profile

Type: `cybox.objects.uri_object.URI`

XML Binding class name: X_Wap_Profile

Dictionary key name: x_wap_profile

class `cybox.objects.http_session_object.HTTPRequestLine`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPRequestLineType`

http_method

Type: `cybox.common.properties.String`

XML Binding class name: HTTP_Method

Dictionary key name: http_method

value

Type: `cybox.common.properties.String`

XML Binding class name: Value

Dictionary key name: value

version

Type: `cybox.common.properties.String`

XML Binding class name: Version

Dictionary key name: version

class `cybox.objects.http_session_object.HTTPRequestResponse`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPRequestResponseType`

http_client_request

Type: `cybox.objects.http_session_object.HTTPClientRequest`

XML Binding class name: HTTP_Client_Request

Dictionary key name: http_client_request

http_provisional_server_response

Type: `cybox.objects.http_session_object.HTTPServerResponse`

XML Binding class name: HTTP_Provisional_Server_Response

Dictionary key name: http_provisional_server_response

http_server_response

Type: `cybox.objects.http_session_object.HTTPServerResponse`

XML Binding class name: HTTP_Server_Response

Dictionary key name: http_server_response

ordinal_position

XML Binding class name: ordinal_position

Dictionary key name: ordinal_position

class `cybox.objects.http_session_object.HTTPResponseHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPResponseHeaderType`

parsed_header

Type: `cybox.objects.http_session_object.HTTPResponseHeaderFields`

XML Binding class name: Parsed_Header

Dictionary key name: parsed_header

raw_header

Type: `cybox.common.properties.String`

XML Binding class name: Raw_Header

Dictionary key name: raw_header

class `cybox.objects.http_session_object.HTTPResponseHeaderFields`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.http_session_object.HTTPResponseHeaderFieldsType`

accept_ranges

Type: `cybox.common.properties.String`

XML Binding class name: Accept_Ranges

Dictionary key name: accept_ranges

access_control_allow_origin

Type: `cybox.common.properties.String`

XML Binding class name: Access_Control-Allow-Origin

Dictionary key name: access_control_allow_origin

age

Type: `cybox.common.properties.Integer`

XML Binding class name: Age

Dictionary key name: age

cache_control

Type: `cybox.common.properties.String`

XML Binding class name: Cache_Control

Dictionary key name: cache_control

connection

Type: `cybox.common.properties.String`

XML Binding class name: Connection

Dictionary key name: connection

content_disposition

Type: `cybox.common.properties.String`

XML Binding class name: Content-Disposition

Dictionary key name: content_disposition

content_encoding

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Encoding`
Dictionary key name: `content_encoding`

content_language

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Language`
Dictionary key name: `content_language`

content_length

Type: `cybox.common.properties.Integer`
XML Binding class name: `Content_Length`
Dictionary key name: `content_length`

content_location

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Location`
Dictionary key name: `content_location`

content_md5

Type: `cybox.common.properties.String`
XML Binding class name: `Content_MD5`
Dictionary key name: `content_md5`

content_range

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Range`
Dictionary key name: `content_range`

content_type

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Type`
Dictionary key name: `content_type`

date

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Date`
Dictionary key name: `date`

etag

Type: `cybox.common.properties.String`

XML Binding class name: ETag

Dictionary key name: etag

expires

Type: `cybox.common.properties.DateTime`

XML Binding class name: Expires

Dictionary key name: expires

last_modified

Type: `cybox.common.properties.DateTime`

XML Binding class name: Last_Modified

Dictionary key name: last_modified

link

Type: `cybox.common.properties.String`

XML Binding class name: Link

Dictionary key name: link

location

Type: `cybox.objects.uri_object.URI`

XML Binding class name: Location

Dictionary key name: location

p3p

Type: `cybox.common.properties.String`

XML Binding class name: P3P

Dictionary key name: p3p

pragma

Type: `cybox.common.properties.String`

XML Binding class name: Pragma

Dictionary key name: pragma

proxy_authenticate

Type: `cybox.common.properties.String`

XML Binding class name: Proxy_Authenticate

Dictionary key name: proxy_authenticate

refresh

Type: `cybox.common.properties.String`

XML Binding class name: Refresh

Dictionary key name: refresh

retry_after

Type: `cybox.common.properties.Integer`

XML Binding class name: `Retry_After`

Dictionary key name: `retry_after`

server

Type: `cybox.common.properties.String`

XML Binding class name: `Server`

Dictionary key name: `server`

set_cookie

Type: `cybox.common.properties.String`

XML Binding class name: `Set_Cookie`

Dictionary key name: `set_cookie`

strict_transport_security

Type: `cybox.common.properties.String`

XML Binding class name: `Strict_Transport_Security`

Dictionary key name: `strict_transport_security`

trailer

Type: `cybox.common.properties.String`

XML Binding class name: `Trailer`

Dictionary key name: `trailer`

transfer_encoding

Type: `cybox.common.properties.String`

XML Binding class name: `Transfer_Encoding`

Dictionary key name: `transfer_encoding`

vary

Type: `cybox.common.properties.String`

XML Binding class name: `Vary`

Dictionary key name: `vary`

via

Type: `cybox.common.properties.String`

XML Binding class name: `Via`

Dictionary key name: `via`

warning

Type: `cybox.common.properties.String`

XML Binding class name: Warning

Dictionary key name: warning

www_authenticate

Type: `cybox.common.properties.String`

XML Binding class name: WWW_Authenticate

Dictionary key name: www_authenticate

x_content_type_options

Type: `cybox.common.properties.String`

XML Binding class name: X_Content_Type_Options

Dictionary key name: x_content_type_options

x_frame_options

Type: `cybox.common.properties.String`

XML Binding class name: X_Frame_Options

Dictionary key name: x_frame_options

x_powered_by

Type: `cybox.common.properties.String`

XML Binding class name: X_Powered_By

Dictionary key name: x_powered_by

x_ua_compatible

Type: `cybox.common.properties.String`

XML Binding class name: X_UA_Compatible

Dictionary key name: x_ua_compatible

x_xss_protection

Type: `cybox.common.properties.String`

XML Binding class name: X_XSS_Protection

Dictionary key name: x_xss_protection

class `cybox.objects.http_session_object.HTTPServerResponse`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPServerResponseType`

http_message_body

Type: `cybox.objects.http_session_object.HTTPMessage`

XML Binding class name: HTTP_Message_Body

Dictionary key name: http_message_body

http_response_header

Type: `cybox.objects.http_session_object.HTTPResponseHeader`

XML Binding class name: `HTTP_Response_Header`

Dictionary key name: `http_response_header`

http_status_line

Type: `cybox.objects.http_session_object.HTTPStatusLine`

XML Binding class name: `HTTP_Status_Line`

Dictionary key name: `http_status_line`

class `cybox.objects.http_session_object.HTTPSession`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.http_session_object.HTTPSessionObjectType`

http_request_response

(List of values permitted)

Type: `cybox.objects.http_session_object.HTTPRequestResponse`

XML Binding class name: `HTTP_Request_Response`

Dictionary key name: `http_request_response`

class `cybox.objects.http_session_object.HTTPStatusLine`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPStatusLineType`

reason_phrase

Type: `cybox.common.properties.String`

XML Binding class name: `Reason_Phrase`

Dictionary key name: `reason_phrase`

status_code

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Status_Code`

Dictionary key name: `status_code`

version

Type: `cybox.common.properties.String`

XML Binding class name: `Version`

Dictionary key name: `version`

class `cybox.objects.http_session_object.HostField`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HostFieldType`

domain_name

Type: `cybox.objects.uri_object.URI`
XML Binding class name: `Domain_Name`
Dictionary key name: `domain_name`

port

Type: `cybox.objects.port_object.Port`
XML Binding class name: `Port`
Dictionary key name: `port`

Version: 2.1.0.11

cybox.objects.image_file_object module

class `cybox.objects.image_file_object.ImageFile`
Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.file_object.FileObjectType`

bits_per_pixel

Type: `cybox.common.properties.PositiveInteger`
XML Binding class name: `Bits_Per_Pixel`
Dictionary key name: `bits_per_pixel`

compression_algorithm

Type: `cybox.common.properties.String`
XML Binding class name: `Compression_Algorithm`
Dictionary key name: `compression_algorithm`

image_file_format

Type: `cybox.common.properties.String`
XML Binding class name: `Image_File_Format`
Dictionary key name: `image_file_format`

image_height

Type: `cybox.common.properties.Integer`
XML Binding class name: `Image_Height`

Dictionary key name: image_height

image_is_compressed

XML Binding class name: image_is_compressed

Dictionary key name: image_is_compressed

image_width

Type: `cybox.common.properties.Integer`

XML Binding class name: Image_Width

Dictionary key name: image_width

Version: 2.1.0.11

cybox.objects.library_object module

class `cybox.objects.library_object.Library`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.library_object.LibraryObjectType`

base_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Base_Address

Dictionary key name: base_address

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

path

Type: `cybox.common.properties.String`

XML Binding class name: Path

Dictionary key name: path

size

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Size

Dictionary key name: size

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

version

Type: `cybox.common.properties.String`

XML Binding class name: `Version`

Dictionary key name: `version`

Version: 2.1.0.11

cybox.objects.link_object module

class `cybox.objects.link_object.Link` (*value=None, type_=None*)

Bases: `cybox.objects.uri_object.URI`

XML binding class: `cybox.bindings.link_object.LinkObjectType`

url_label

Type: `cybox.common.properties.String`

XML Binding class name: `URL_Label`

Dictionary key name: `url_label`

Version: 2.1.0.11

cybox.objects.linux_package_object module

class `cybox.objects.linux_package_object.LinuxPackage`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.linux_package_object.LinuxPackageObjectType`

architecture

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: `Architecture`

Dictionary key name: `architecture`

category

Type: `cybox.common.properties.String`

XML Binding class name: `Category`

Dictionary key name: `category`

description

Type: `cybox.common.properties.String`

XML Binding class name: `Description`

Dictionary key name: `description`

epoch

Type: `cybox.common.properties.String`

XML Binding class name: `Epoch`

Dictionary key name: `epoch`

evr

Type: `cybox.common.properties.String`

XML Binding class name: `EVR`

Dictionary key name: `evr`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

release

Type: `cybox.common.properties.String`

XML Binding class name: `Release`

Dictionary key name: `release`

vendor

Type: `cybox.common.properties.String`

XML Binding class name: `Vendor`

Dictionary key name: `vendor`

version

Type: `cybox.common.properties.String`

XML Binding class name: `Version`

Dictionary key name: `version`

class `cybox.objects.linux_package_object.LinuxPackageArchitecture` (*value=None*)

Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

Version: 2.1.0.11

cybox.objects.memory_object module

class `cybox.objects.memory_object.Memory`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.memory_object.MemoryObjectType`

block_type

Type: `cybox.common.properties.String`

XML Binding class name: `Block_Type`

Dictionary key name: `block_type`

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: `Extracted_Features`

Dictionary key name: `extracted_features`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Hashes`

Dictionary key name: `hashes`

is_injected

XML Binding class name: `is_injected`

Dictionary key name: `is_injected`

is_mapped

XML Binding class name: `is_mapped`

Dictionary key name: `is_mapped`

is_protected

XML Binding class name: `is_protected`

Dictionary key name: `is_protected`

is_volatile

XML Binding class name: `is_volatile`

Dictionary key name: `is_volatile`

memory_source

Type: `cybox.common.properties.String`

XML Binding class name: `Memory_Source`

Dictionary key name: `memory_source`

nameType: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

region_end_addressType: `cybox.common.properties.HexBinary`

XML Binding class name: Region_End_Address

Dictionary key name: region_end_address

region_sizeType: `cybox.common.properties.UnsignedLong`

XML Binding class name: Region_Size

Dictionary key name: region_size

region_start_addressType: `cybox.common.properties.HexBinary`

XML Binding class name: Region_Start_Address

Dictionary key name: region_start_address

Version: 2.1.0.11**cybox.objects.mutex_object module****class** `cybox.objects.mutex_object.Mutex`Bases: `cybox.common.object_properties.ObjectProperties`XML binding class: `cybox.bindings.mutex_object.MutexObjectType`**name**Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

named

XML Binding class name: named

Dictionary key name: named

Version: 2.1.0.11**cybox.objects.network_connection_object module****class** `cybox.objects.network_connection_object.Layer7Connections`Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_connection_object.Layer7ConnectionsType`

dns_query

(List of values permitted)

Type: `cybox.objects.dns_query_object.DNSQuery`

XML Binding class name: `DNS_Query`

Dictionary key name: `dns_query`

http_session

Type: `cybox.objects.http_session_object.HTTPSession`

XML Binding class name: `HTTP_Session`

Dictionary key name: `http_session`

class `cybox.objects.network_connection_object.NetworkConnection`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.network_connection_object.NetworkConnectionObjectType`

creation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Creation_Time`

Dictionary key name: `creation_time`

destination_socket_address

Type: `cybox.objects.socket_address_object.SocketAddress`

XML Binding class name: `Destination_Socket_Address`

Dictionary key name: `destination_socket_address`

destination_tcp_state

XML Binding class name: `Destination_TCP_State`

Dictionary key name: `destination_tcp_state`

layer3_protocol

Type: `cybox.common.properties.String`

XML Binding class name: `Layer3_Protocol`

Dictionary key name: `layer3_protocol`

layer4_protocol

Type: `cybox.common.properties.String`

XML Binding class name: `Layer4_Protocol`

Dictionary key name: layer4_protocol

layer7_connections

Type: `cybox.objects.network_connection_object.Layer7Connections`

XML Binding class name: Layer7_Connections

Dictionary key name: layer7_connections

layer7_protocol

Type: `cybox.common.properties.String`

XML Binding class name: Layer7_Protocol

Dictionary key name: layer7_protocol

source_socket_address

Type: `cybox.objects.socket_address_object.SocketAddress`

XML Binding class name: Source_Socket_Address

Dictionary key name: source_socket_address

source_tcp_state

XML Binding class name: Source_TCP_State

Dictionary key name: source_tcp_state

tls_used

XML Binding class name: tls_used

Dictionary key name: tls_used

Version: 2.1.0.11

cybox.objects.network_packet_object module

class `cybox.objects.network_packet_object.ARP`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ARPTyp`

hardware_addr_size

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Hardware_Addr_Size

Dictionary key name: hardware_addr_size

hardware_addr_type

Type: `cybox.common.properties.String`

XML Binding class name: Hardware_Addr_Type

Dictionary key name: hardware_addr_type

op_type

Type: `cybox.common.properties.String`

XML Binding class name: `Op_Type`

Dictionary key name: `op_type`

proto_addr_size

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Proto_Addr_Size`

Dictionary key name: `proto_addr_size`

proto_addr_type

Type: `cybox.common.properties.String`

XML Binding class name: `Proto_Addr_Type`

Dictionary key name: `proto_addr_type`

recip_hardware_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Recip_Hardware_Addr`

Dictionary key name: `recip_hardware_addr`

recip_protocol_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Recip_Protocol_Addr`

Dictionary key name: `recip_protocol_addr`

sender_hardware_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Sender_Hardware_Addr`

Dictionary key name: `sender_hardware_addr`

sender_protocol_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Sender_Protocol_Addr`

Dictionary key name: `sender_protocol_addr`

class `cybox.objects.network_packet_object.AuthenticationHeader`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.AuthenticationHeaderType`

Authentication_Data

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Authentication_Data`
 Dictionary key name: `authentication_data`

header_ext_len

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Header_Ext_Len`
 Dictionary key name: `header_ext_len`

next_header

Type: `cybox.common.properties.String`
 XML Binding class name: `Next_Header`
 Dictionary key name: `next_header`

security_parameters_index

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Security_Parameters_Index`
 Dictionary key name: `security_parameters_index`

sequence_number

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Sequence_Number`
 Dictionary key name: `sequence_number`

class `cybox.objects.network_packet_object.DestinationOptions`
 Bases: `cybox.objects.network_packet_object._IPv6ExtHeader`

XML binding class: `cybox.bindings.network_packet_object.DestinationOptionsType`

class `cybox.objects.network_packet_object.EncapsulatingSecurityPayload`
 Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.network_packet_object.EncapsulatingSecurityPayloadType`

authentication_data

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Authentication_Data`
 Dictionary key name: `authentication_data`

next_header

Type: `cybox.common.properties.String`

XML Binding class name: Next_Header

Dictionary key name: next_header

padding

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Padding

Dictionary key name: padding

padding_len

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Padding_Len

Dictionary key name: padding_len

payload_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Payload_Data

Dictionary key name: payload_data

security_parameters_index

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Security_Parameters_Index

Dictionary key name: security_parameters_index

sequence_number

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Sequence_Number

Dictionary key name: sequence_number

class `cybox.objects.network_packet_object.EthernetHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.EthernetHeaderType`

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Checksum

Dictionary key name: checksum

destination_mac_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Destination_MAC_Addr

Dictionary key name: destination_mac_addr

source_mac_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Source_MAC_Addr`

Dictionary key name: `source_mac_addr`

type_or_length

Type: `cybox.objects.network_packet_object.TypeLength`

XML Binding class name: `Type_Or_Length`

Dictionary key name: `type_or_length`

class `cybox.objects.network_packet_object.EthernetInterface`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.EthernetInterfaceType`

ethernet_header

Type: `cybox.objects.network_packet_object.EthernetHeader`

XML Binding class name: `Ethernet_Header`

Dictionary key name: `ethernet_header`

class `cybox.objects.network_packet_object.Fragment`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.FragmentType`

fragment

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Fragment`

Dictionary key name: `fragment`

fragment_header

Type: `cybox.objects.network_packet_object.FragmentHeader`

XML Binding class name: `Fragment_Header`

Dictionary key name: `fragment_header`

class `cybox.objects.network_packet_object.FragmentHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.FragmentHeaderType`

fragment_offset

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Fragment_Offset`

Dictionary key name: `fragment_offset`

identification

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Identification`

Dictionary key name: `identification`

m_flag

Type: `cybox.common.properties.String`

XML Binding class name: `M_Flag`

Dictionary key name: `m_flag`

next_header

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Next_Header`

Dictionary key name: `next_header`

class `cybox.objects.network_packet_object.FragmentationRequired`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.FragmentationRequiredType`

fragmentation_required

XML Binding class name: `Fragmentation_Required`

Dictionary key name: `fragmentation_required`

next_hop_mtu

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Next_Hop_MTU`

Dictionary key name: `next_hop_mtu`

class `cybox.objects.network_packet_object.HopByHopOptions`

Bases: `cybox.objects.network_packet_object._IPv6ExtHeader`

XML binding class: `cybox.bindings.network_packet_object.HopByHopOptionsType`

class `cybox.objects.network_packet_object.ICMPv4AddressMaskReply`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4AddressMaskReplyType`

address_mask

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Address_Mask`

Dictionary key name: `address_mask`

address_mask_reply

XML Binding class name: `Address_Mask_Reply`

Dictionary key name: `address_mask_reply`

class `cybox.objects.network_packet_object.ICMPv4AddressMaskRequest`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4AddressMaskRequestType`

address_mask

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Address_Mask`

Dictionary key name: `address_mask`

address_mask_request

XML Binding class name: `Address_Mask_Request`

Dictionary key name: `address_mask_request`

class `cybox.objects.network_packet_object.ICMPv4DestinationUnreachable`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4DestinationUnreachableType`

communication_administratively_prohibited

XML Binding class name: `Communication_Administratively_Prohibited`

Dictionary key name: `communication_administratively_prohibited`

destination_host_unknown

XML Binding class name: `Destination_Host_Unknown`

Dictionary key name: `destination_host_unknown`

destination_host_unreachable

XML Binding class name: Destination_Host_Unreachable

Dictionary key name: destination_host_unreachable

destination_network_unknown

XML Binding class name: Destination_Network_Unknown

Dictionary key name: destination_network_unknown

destination_network_unreachable

XML Binding class name: Destination_Network_Unreachable

Dictionary key name: destination_network_unreachable

destination_port_unreachable

XML Binding class name: Destination_Port_Unreachable

Dictionary key name: destination_port_unreachable

destination_protocol_unreachable

XML Binding class name: Destination_Protocol_Unreachable

Dictionary key name: destination_protocol_unreachable

fragmentation_required

Type: `cybox.objects.network_packet_object.FragmentationRequired`

XML Binding class name: Fragmentation_Required

Dictionary key name: fragmentation_required

host_administratively_prohibited

XML Binding class name: Host_Administratively_Prohibited

Dictionary key name: host_administratively_prohibited

host_precedence_violation

XML Binding class name: Host_Precedence_Violation

Dictionary key name: host_precedence_violation

host_unreachable_for_tos

XML Binding class name: Host_Unreachable_For_TOS

Dictionary key name: host_unreachable_for_tos

network_administratively_prohibited

XML Binding class name: Network_Administratively_Prohibited

Dictionary key name: network_administratively_prohibited

network_unreachable_for_tos

XML Binding class name: Network_Unreachable_For_TOS

Dictionary key name: network_unreachable_for_tos

precedence_cutoff_in_effect

XML Binding class name: Precedence_Cutoff_In_Effect

Dictionary key name: precedence_cutoff_in_effect

source_host_isolated

XML Binding class name: Source_Host_Isolated

Dictionary key name: source_host_isolated

source_route_failed

XML Binding class name: Source_Route_Failed

Dictionary key name: source_route_failed

class cybox.objects.network_packet_object.**ICMPv4EchoReply**
Bases: cybox.objects.network_packet_object._ICMPEchoReply

XML binding class: cybox.bindings.network_packet_object.ICMPv4EchoReplyType

class cybox.objects.network_packet_object.**ICMPv4EchoRequest**
Bases: cybox.objects.network_packet_object._ICMPEchoRequest

XML binding class: cybox.bindings.network_packet_object.ICMPv4EchoRequestType

class cybox.objects.network_packet_object.**ICMPv4ErrorMessage**
Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.ICMPv4ErrorMessageType

destination_unreachable

Type: cybox.objects.network_packet_object.ICMPv4DestinationUnreachable

XML Binding class name: Destination_Unreachable

Dictionary key name: destination_unreachable

error_msg_content

Type: cybox.objects.network_packet_object.ICMPv4ErrorMessageContent

XML Binding class name: Error_Msg_Content

Dictionary key name: error_msg_content

redirect_message

Type: `cybox.objects.network_packet_object.ICMPv4RedirectMessage`

XML Binding class name: `Redirect_Message`

Dictionary key name: `redirect_message`

source_quench

Type: `cybox.objects.network_packet_object.ICMPv4SourceQuench`

XML Binding class name: `Source_Quench`

Dictionary key name: `source_quench`

time_exceeded

Type: `cybox.objects.network_packet_object.ICMPv4TimeExceeded`

XML Binding class name: `Time_Exceeded`

Dictionary key name: `time_exceeded`

class `cybox.objects.network_packet_object.ICMPv4ErrorMessageContent`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4ErrorMessageContentType`

first_eight_bytes

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `First_Eight_Bytes`

Dictionary key name: `first_eight_bytes`

ip_header

Type: `cybox.objects.network_packet_object.IPv4Header`

XML Binding class name: `IP_Header`

Dictionary key name: `ip_header`

class `cybox.objects.network_packet_object.ICMPv4Header`

Bases: `cybox.objects.network_packet_object._ICMPHeader`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4HeaderType`

class `cybox.objects.network_packet_object.ICMPv4InfoMessage`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4InfoMessageType`

address_mask_reply

Type: `cybox.objects.network_packet_object.ICMPv4AddressMaskReply`

XML Binding class name: `Address_Mask_Reply`

Dictionary key name: `address_mask_reply`

address_mask_request

Type: `cybox.objects.network_packet_object.ICMPv4AddressMaskRequest`

XML Binding class name: `Address_Mask_Request`

Dictionary key name: `address_mask_request`

echo_reply

Type: `cybox.objects.network_packet_object.ICMPv4EchoReply`

XML Binding class name: `Echo_Reply`

Dictionary key name: `echo_reply`

echo_request

Type: `cybox.objects.network_packet_object.ICMPv4EchoRequest`

XML Binding class name: `Echo_Request`

Dictionary key name: `echo_request`

info_msg_content

Type: `cybox.objects.network_packet_object.ICMPv4InfoMessageContent`

XML Binding class name: `Info_Msg_Content`

Dictionary key name: `info_msg_content`

timestamp_reply

Type: `cybox.objects.network_packet_object.ICMPv4TimestampReply`

XML Binding class name: `Timestamp_Reply`

Dictionary key name: `timestamp_reply`

timestamp_request

Type: `cybox.objects.network_packet_object.ICMPv4TimestampRequest`

XML Binding class name: `Timestamp_Request`

Dictionary key name: `timestamp_request`

class `cybox.objects.network_packet_object.ICMPv4InfoMessageContent`

Bases: `cybox.objects.network_packet_object._ICMPInfoMessageContent`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4InfoMessageContentType`

class `cybox.objects.network_packet_object.ICMPv4Packet`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4PacketType`

error_msg

Type: `cybox.objects.network_packet_object.ICMPv4ErrorMessage`

XML Binding class name: `Error_Msg`

Dictionary key name: `error_msg`

icmpv4_header

Type: `cybox.objects.network_packet_object.ICMPv4Header`

XML Binding class name: `ICMPv4_Header`

Dictionary key name: `icmpv4_header`

info_msg

Type: `cybox.objects.network_packet_object.ICMPv4InfoMessage`

XML Binding class name: `Info_Msg`

Dictionary key name: `info_msg`

traceroute

Type: `cybox.objects.network_packet_object.ICMPv4Traceroute`

XML Binding class name: `Traceroute`

Dictionary key name: `traceroute`

class `cybox.objects.network_packet_object.ICMPv4RedirectMessage`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4RedirectMessageType`

host_redirect

XML Binding class name: `Host_Redirect`

Dictionary key name: `host_redirect`

ip_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IP_Address`

Dictionary key name: `ip_address`

network_redirect

XML Binding class name: `Network_Redirect`

Dictionary key name: `network_redirect`

tos_host_redirect

XML Binding class name: ToS_Host_Redirect

Dictionary key name: tos_host_redirect

tos_network_redirect

XML Binding class name: ToS_Network_Redirect

Dictionary key name: tos_network_redirect

class cybox.objects.network_packet_object.ICMPv4SourceQuench

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.ICMPv4SourceQuenchType

source_quench

XML Binding class name: Source_Quench

Dictionary key name: source_quench

class cybox.objects.network_packet_object.ICMPv4TimeExceeded

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.ICMPv4TimeExceededType

frag_reassembly_time_exceeded

XML Binding class name: Frag_Reassembly_Time_Exceeded

Dictionary key name: frag_reassembly_time_exceeded

ttl_exceeded_in_transit

XML Binding class name: TTL_Exceeded_In_Transit

Dictionary key name: ttl_exceeded_in_transit

class cybox.objects.network_packet_object.ICMPv4TimestampReply

Bases: cybox.Entity

XML binding class:

cybox.bindings.network_packet_object.ICMPv4TimestampReplyType

originate_timestamp

Type: cybox.common.properties.UnsignedInteger

XML Binding class name: Originate_Timestamp

Dictionary key name: originate_timestamp

receive_timestamp

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Receive_Timestamp`

Dictionary key name: `receive_timestamp`

timestamp_reply

XML Binding class name: `Timestamp_Reply`

Dictionary key name: `timestamp_reply`

transmit_timestamp

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Transmit_Timestamp`

Dictionary key name: `transmit_timestamp`

class `cybox.objects.network_packet_object.ICMPv4TimestampRequest`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4TimestampRequestType`

originate_timestamp

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Originate_Timestamp`

Dictionary key name: `originate_timestamp`

timestamp

XML Binding class name: `Timestamp`

Dictionary key name: `timestamp`

class `cybox.objects.network_packet_object.ICMPv4Traceroute`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4TracerouteType`

identifier

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Identifier`

Dictionary key name: `identifier`

outbound_hop_count

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Outbound_Hop_Count

Dictionary key name: outbound_hop_count

outbound_packet_forward_success

XML Binding class name: Outbound_Packet_Forward_Success

Dictionary key name: outbound_packet_forward_success

outbound_packet_no_route

XML Binding class name: Outbound_Packet_no_Route

Dictionary key name: outbound_packet_no_route

output_link_mtu

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Output_Link_MTU

Dictionary key name: output_link_mtu

output_link_speed

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Output_Link_Speed

Dictionary key name: output_link_speed

return_hop_count

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Return_Hop_Count

Dictionary key name: return_hop_count

class `cybox.objects.network_packet_object.ICMPv6DestinationUnreachable`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv6DestinationUnreachableType`

address_unreachable

XML Binding class name: Address_Unreachable

Dictionary key name: address_unreachable

beyond_scope

XML Binding class name: Beyond_Scope

Dictionary key name: beyond_scope

comm_prohibited

XML Binding class name: Comm_Prohibited

Dictionary key name: comm_prohibited

no_route

XML Binding class name: No_Route

Dictionary key name: no_route

port_unreachable

XML Binding class name: Port_Unreachable

Dictionary key name: port_unreachable

reject_route

XML Binding class name: Reject_Route

Dictionary key name: reject_route

src_addr_failed_policy

XML Binding class name: Src_Addr_Failed_Policy

Dictionary key name: src_addr_failed_policy

class cybox.objects.network_packet_object.ICMPv6EchoReply

Bases: cybox.objects.network_packet_object._ICMPEchoReply

XML binding class: cybox.bindings.network_packet_object.ICMPv6EchoReplyType

class cybox.objects.network_packet_object.ICMPv6EchoRequest

Bases: cybox.objects.network_packet_object._ICMPEchoRequest

XML binding class: cybox.bindings.network_packet_object.ICMPv6EchoRequestType

class cybox.objects.network_packet_object.ICMPv6ErrorMessage

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.ICMPv6ErrorMessageType

destination_unreachable

Type: cybox.objects.network_packet_object.ICMPv6DestinationUnreachable

XML Binding class name: Destination_Unreachable

Dictionary key name: destination_unreachable

invoking_packet

Type: cybox.common.properties.HexBinary

XML Binding class name: Invoking_Packet

Dictionary key name: `invoking_packet`

packet_too_big

Type: `cybox.objects.network_packet_object.ICMPv6PacketTooBig`

XML Binding class name: `Packet_Too_Big`

Dictionary key name: `packet_too_big`

parameter_problem

Type: `cybox.objects.network_packet_object.ICMPv6ParameterProblem`

XML Binding class name: `Parameter_Problem`

Dictionary key name: `parameter_problem`

time_exceeded

Type: `cybox.objects.network_packet_object.ICMPv6TimeExceeded`

XML Binding class name: `Time_Exceeded`

Dictionary key name: `time_exceeded`

class `cybox.objects.network_packet_object.ICMPv6Header`

Bases: `cybox.objects.network_packet_object._ICMPHeader`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6HeaderType`

class `cybox.objects.network_packet_object.ICMPv6InfoMessage`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6InfoMessageType`

echo_reply

Type: `cybox.objects.network_packet_object.ICMPv6EchoReply`

XML Binding class name: `Echo_Reply`

Dictionary key name: `echo_reply`

echo_request

Type: `cybox.objects.network_packet_object.ICMPv6EchoRequest`

XML Binding class name: `Echo_Request`

Dictionary key name: `echo_request`

info_msg_content

Type: `cybox.objects.network_packet_object.ICMPv6InfoMessageContent`

XML Binding class name: `Info_Msg_Content`

Dictionary key name: `info_msg_content`

class `cybox.objects.network_packet_object.ICMPv6InfoMessageContent`
Bases: `cybox.objects.network_packet_object._ICMPInfoMessageContent`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv6InfoMessageContentType`

class `cybox.objects.network_packet_object.ICMPv6Packet`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6PacketType`

error_msg

Type: `cybox.objects.network_packet_object.ICMPv6ErrorMessage`

XML Binding class name: `Error_Msg`

Dictionary key name: `error_msg`

icmpv6_header

Type: `cybox.objects.network_packet_object.ICMPv6Header`

XML Binding class name: `ICMPv6_Header`

Dictionary key name: `icmpv6_header`

info_msg

Type: `cybox.objects.network_packet_object.ICMPv6InfoMessage`

XML Binding class name: `Info_Msg`

Dictionary key name: `info_msg`

class `cybox.objects.network_packet_object.ICMPv6PacketTooBig`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6PacketTooBigType`

mtu

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `MTU`

Dictionary key name: `mtu`

packet_too_big

XML Binding class name: `Packet_Too_Big`

Dictionary key name: `packet_too_big`

class `cybox.objects.network_packet_object.ICMPv6ParameterProblem`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv6ParameterProblemType`

erroneous_header_field

XML Binding class name: `Erroneous_Header_Field`

Dictionary key name: `erroneous_header_field`

pointer

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer`

Dictionary key name: `pointer`

unrecognized_ipv6_option

XML Binding class name: `Unrecognized_IPv6_Option`

Dictionary key name: `unrecognized_ipv6_option`

unrecognized_next_header_type

XML Binding class name: `Unrecognized_Next_Header_Type`

Dictionary key name: `unrecognized_next_header_type`

class `cybox.objects.network_packet_object.ICMPv6TimeExceeded`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6TimeExceededType`

fragment_reassem_time_exceeded

XML Binding class name: `Fragment_Reassem_Time_Exceeded`

Dictionary key name: `fragment_reassem_time_exceeded`

hop_limit_exceeded

XML Binding class name: `Hop_Limit_Exceeded`

Dictionary key name: `hop_limit_exceeded`

class `cybox.objects.network_packet_object.IPv4Flags`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv4FlagsType`

do_not_fragment

Type: `cybox.common.properties.String`

XML Binding class name: Do_Not_Fragment

Dictionary key name: do_not_fragment

more_fragments

Type: `cybox.common.properties.String`

XML Binding class name: More_Fragments

Dictionary key name: more_fragments

reserved

Type: `cybox.common.properties.Integer`

XML Binding class name: Reserved

Dictionary key name: reserved

class `cybox.objects.network_packet_object.IPv4Header`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv4HeaderType`

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Checksum

Dictionary key name: checksum

dest_ipv4_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Dest_IPv4_Addr

Dictionary key name: dest_ipv4_addr

dscp

Type: `cybox.common.properties.HexBinary`

XML Binding class name: DSCP

Dictionary key name: dscp

ecn

Type: `cybox.common.properties.HexBinary`

XML Binding class name: ECN

Dictionary key name: ecn

flags

Type: `cybox.objects.network_packet_object.IPv4Flags`

XML Binding class name: Flags

Dictionary key name: flags

fragment_offset

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Fragment_Offset`

Dictionary key name: `fragment_offset`

header_length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Header_Length`

Dictionary key name: `header_length`

identification

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Identification`

Dictionary key name: `identification`

ip_version

Type: `cybox.common.properties.String`

XML Binding class name: `IP_Version`

Dictionary key name: `ip_version`

option

(List of values permitted)

Type: `cybox.objects.network_packet_object.IPv4Option`

XML Binding class name: `Option`

Dictionary key name: `option`

protocol

Type: `cybox.common.properties.String`

XML Binding class name: `Protocol`

Dictionary key name: `protocol`

src_ipv4_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Src_IPv4_Addr`

Dictionary key name: `src_ipv4_addr`

total_length

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Total_Length`

Dictionary key name: `total_length`

ttl

Type: `cybox.common.properties.HexBinary`

XML Binding class name: TTL

Dictionary key name: ttl

class `cybox.objects.network_packet_object.IPv4Option`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv4OptionType`

class_

Type: `cybox.common.properties.String`

XML Binding class name: Class

Dictionary key name: class

copy_flag

Type: `cybox.common.properties.String`

XML Binding class name: Copy_Flag

Dictionary key name: copy_flag

option

Type: `cybox.common.properties.String`

XML Binding class name: Option

Dictionary key name: option

class `cybox.objects.network_packet_object.IPv4Packet`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv4PacketType`

data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Data

Dictionary key name: data

ipv4_header

Type: `cybox.objects.network_packet_object.IPv4Header`

XML Binding class name: IPv4_Header

Dictionary key name: ipv4_header

class `cybox.objects.network_packet_object.IPv6ExtHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6ExtHeaderType`

authentication_header

Type: `cybox.objects.network_packet_object.AuthenticationHeader`

XML Binding class name: `Authentication_Header`

Dictionary key name: `authentication_header`

destination_options

(List of values permitted)

Type: `cybox.objects.network_packet_object.DestinationOptions`

XML Binding class name: `Destination_Options`

Dictionary key name: `destination_options`

encapsulating_security_payload

Type: `cybox.objects.network_packet_object.EncapsulatingSecurityPayload`

XML Binding class name: `Encapsulating_Security_Payload`

Dictionary key name: `encapsulating_security_payload`

fragment

Type: `cybox.objects.network_packet_object.Fragment`

XML Binding class name: `Fragment`

Dictionary key name: `fragment`

hop_by_hop_options

Type: `cybox.objects.network_packet_object.HopByHopOptions`

XML Binding class name: `Hop_by_Hop_Options`

Dictionary key name: `hop_by_hop_options`

routing

Type: `cybox.objects.network_packet_object.Routing`

XML Binding class name: `Routing`

Dictionary key name: `routing`

class `cybox.objects.network_packet_object.IPv6Header`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6HeaderType`

dest_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Dest_IPv6_Addr`

Dictionary key name: `dest_ipv6_addr`

flow_label

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Flow_Label`
Dictionary key name: `flow_label`

ip_version

Type: `cybox.common.properties.String`
XML Binding class name: `IP_Version`
Dictionary key name: `ip_version`

next_header

Type: `cybox.common.properties.String`
XML Binding class name: `Next_Header`
Dictionary key name: `next_header`

payload_length

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Payload_Length`
Dictionary key name: `payload_length`

src_ipv6_addr

Type: `cybox.objects.address_object.Address`
XML Binding class name: `Src_IPv6_Addr`
Dictionary key name: `src_ipv6_addr`

traffic_class

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Traffic_Class`
Dictionary key name: `traffic_class`

ttl

Type: `cybox.common.properties.PositiveInteger`
XML Binding class name: `TTL`
Dictionary key name: `ttl`

class `cybox.objects.network_packet_object.IPv6Option`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6OptionType`

do_not_recogn_action

Type: `cybox.common.properties.String`
XML Binding class name: `Do_Not_Recogn_Action`

Dictionary key name: do_not_recogn_action

option_byte

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Option_Byte`

Dictionary key name: `option_byte`

packet_change

Type: `cybox.common.properties.String`

XML Binding class name: `Packet_Change`

Dictionary key name: `packet_change`

class `cybox.objects.network_packet_object.IPv6Packet`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6PacketType`

data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Data`

Dictionary key name: `data`

ext_headers

(List of values permitted)

Type: `cybox.objects.network_packet_object.IPv6ExtHeader`

XML Binding class name: `Ext_Headers`

Dictionary key name: `ext_headers`

ipv6_header

Type: `cybox.objects.network_packet_object.IPv6Header`

XML Binding class name: `IPv6_Header`

Dictionary key name: `ipv6_header`

class `cybox.objects.network_packet_object.InternetLayer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.InternetLayerType`

icmpv4

Type: `cybox.objects.network_packet_object.ICMPv4Packet`

XML Binding class name: `ICMPv4`

Dictionary key name: `icmpv4`

icmpv6

Type: `cybox.objects.network_packet_object.ICMPv6Packet`

XML Binding class name: `ICMPv6`

Dictionary key name: `icmpv6`

ipv4

Type: `cybox.objects.network_packet_object.IPv4Packet`

XML Binding class name: `IPv4`

Dictionary key name: `ipv4`

ipv6

Type: `cybox.objects.network_packet_object.IPv6Packet`

XML Binding class name: `IPv6`

Dictionary key name: `ipv6`

class `cybox.objects.network_packet_object.LinkLayer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.LinkLayerType`

logical_protocols

Type: `cybox.objects.network_packet_object.LogicalProtocol`

XML Binding class name: `Logical_Protocols`

Dictionary key name: `logical_protocols`

physical_interface

Type: `cybox.objects.network_packet_object.PhysicalInterface`

XML Binding class name: `Physical_Interface`

Dictionary key name: `physical_interface`

class `cybox.objects.network_packet_object.LogicalProtocol`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.LogicalProtocolType`

arp_rarp

Type: `cybox.objects.network_packet_object.ARP`

XML Binding class name: `ARP_RARP`

Dictionary key name: `arp_rarp`

ndp

Type: `cybox.objects.network_packet_object.NDP`

XML Binding class name: NDP

Dictionary key name: ndp

class `cybox.objects.network_packet_object.NDP`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPType`

icmpv6_header

Type: `cybox.objects.network_packet_object.ICMPv6Header`

XML Binding class name: ICMPv6_Header

Dictionary key name: icmpv6_header

neighbor_advertisement

Type: `cybox.objects.network_packet_object.NeighborAdvertisement`

XML Binding class name: Neighbor_Advertisement

Dictionary key name: neighbor_advertisement

neighbor_solicitation

Type: `cybox.objects.network_packet_object.NeighborSolicitation`

XML Binding class name: Neighbor_Solicitation

Dictionary key name: neighbor_solicitation

redirect

Type: `cybox.objects.network_packet_object.Redirect`

XML Binding class name: Redirect

Dictionary key name: redirect

router_advertisement

Type: `cybox.objects.network_packet_object.RouterAdvertisement`

XML Binding class name: Router_Advertisement

Dictionary key name: router_advertisement

router_solicitation

Type: `cybox.objects.network_packet_object.RouterSolicitation`

XML Binding class name: Router_Solicitation

Dictionary key name: router_solicitation

class `cybox.objects.network_packet_object.NDPLinkAddr`

Bases: `cybox.Entity`

Abstract Type

XML binding class: `cybox.bindings.network_packet_object.NDPLinkAddrType`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

link_layer_mac_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Link_Layer_MAC_Addr`

Dictionary key name: `link_layer_mac_addr`

class `cybox.objects.network_packet_object.NDPMTU`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPMTUType`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

mtu

Type: `cybox.common.properties.Integer`

XML Binding class name: `MTU`

Dictionary key name: `mtu`

class `cybox.objects.network_packet_object.NDPPrefixInfo`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPPrefixInfoType`

addr_config_flag

XML Binding class name: `addr_config_flag`

Dictionary key name: `addr_config_flag`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

link_flag

XML Binding class name: link_flag

Dictionary key name: link_flag

preferred_lifetime

Type: `cybox.common.properties.Integer`

XML Binding class name: Preferred_Lifetime

Dictionary key name: preferred_lifetime

prefix

Type: `cybox.objects.network_packet_object.Prefix`

XML Binding class name: Prefix

Dictionary key name: prefix

prefix_length

Type: `cybox.common.properties.Integer`

XML Binding class name: Prefix_Length

Dictionary key name: prefix_length

valid_lifetime

Type: `cybox.common.properties.Integer`

XML Binding class name: Valid_Lifetime

Dictionary key name: valid_lifetime

class `cybox.objects.network_packet_object.NDPRedirectedHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPRedirectedHeaderType`

ipheader_and_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: IPHeader_And_Data

Dictionary key name: ipheader_and_data

length

Type: `cybox.common.properties.Integer`

XML Binding class name: Length

Dictionary key name: length

class `cybox.objects.network_packet_object.NeighborAdvertisement`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.NeighborAdvertisementType`

options

Type: `cybox.objects.network_packet_object.NeighborOptions`

XML Binding class name: Options

Dictionary key name: options

override_flag

XML Binding class name: override_flag

Dictionary key name: override_flag

router_flag

XML Binding class name: router_flag

Dictionary key name: router_flag

solicited_flag

XML Binding class name: solicited_flag

Dictionary key name: solicited_flag

target_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Target_IPv6_Addr

Dictionary key name: target_ipv6_addr

class `cybox.objects.network_packet_object.NeighborOptions`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NeighborOptionsType`

target_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: Target_Link_Addr

Dictionary key name: target_link_addr

class `cybox.objects.network_packet_object.NeighborSolicitation`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.NeighborSolicitationType`

options

Type: `cybox.objects.network_packet_object.NeighborSolicitationOptions`

XML Binding class name: `Options`

Dictionary key name: `options`

target_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Target_IPv6_Addr`

Dictionary key name: `target_ipv6_addr`

class `cybox.objects.network_packet_object.NeighborSolicitationOptions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.NeighborSolicitationOptionsType`

src_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: `Src_Link_Addr`

Dictionary key name: `src_link_addr`

class `cybox.objects.network_packet_object.NetworkPacket`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_packet_object.NetworkPacketObjectType`

internet_layer

Type: `cybox.objects.network_packet_object.InternetLayer`

XML Binding class name: `Internet_Layer`

Dictionary key name: `internet_layer`

link_layer

Type: `cybox.objects.network_packet_object.LinkLayer`

XML Binding class name: `Link_Layer`

Dictionary key name: `link_layer`

transport_layer

Type: `cybox.objects.network_packet_object.TransportLayer`

XML Binding class name: `Transport_Layer`

Dictionary key name: `transport_layer`

class `cybox.objects.network_packet_object.OptionData`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.OptionDataType`

option_data_len

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Option_Data_Len`
Dictionary key name: `option_data_len`

option_type

Type: `cybox.objects.network_packet_object.IPv6Option`
XML Binding class name: `Option_Type`
Dictionary key name: `option_type`

pad1

Type: `cybox.objects.network_packet_object.Pad1`
XML Binding class name: `Pad1`
Dictionary key name: `pad1`

padn

Type: `cybox.objects.network_packet_object.PadN`
XML Binding class name: `PadN`
Dictionary key name: `padn`

class `cybox.objects.network_packet_object.Pad1`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.Pad1Type`

octet

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Octet`
Dictionary key name: `octet`

class `cybox.objects.network_packet_object.PadN`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.PadNType`

octet

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Octet`

Dictionary key name: `octet`

option_data

Type: `cybox.common.properties.Integer`

XML Binding class name: `Option_Data`

Dictionary key name: `option_data`

option_data_length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Option_Data_Length`

Dictionary key name: `option_data_length`

class `cybox.objects.network_packet_object.PhysicalInterface`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.PhysicalInterfaceType`

ethernet

Type: `cybox.objects.network_packet_object.EthernetInterface`

XML Binding class name: `Ethernet`

Dictionary key name: `ethernet`

class `cybox.objects.network_packet_object.Prefix`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.PrefixType`

ip_addr_prefix

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IP_Addr_Prefix`

Dictionary key name: `ip_addr_prefix`

ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IPv6_Addr`

Dictionary key name: `ipv6_addr`

class `cybox.objects.network_packet_object.Redirect`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RedirectType`

dest_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Dest_IPv6_Addr`

Dictionary key name: `dest_ipv6_addr`

options

Type: `cybox.objects.network_packet_object.RedirectOptions`

XML Binding class name: `Options`

Dictionary key name: `options`

target_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Target_IPv6_Addr`

Dictionary key name: `target_ipv6_addr`

class `cybox.objects.network_packet_object.RedirectOptions`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NeighborOptionsType`

redirected_header

Type: `cybox.objects.network_packet_object.NDPRedirectedHeader`

XML Binding class name: `Redirected_Header`

Dictionary key name: `redirected_header`

target_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: `Target_Link_Addr`

Dictionary key name: `target_link_addr`

class `cybox.objects.network_packet_object.RouterAdvertisement`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RouterAdvertisementType`

cur_hop_limit

Type: `cybox.common.properties.Integer`

XML Binding class name: `Cur_Hop_Limit`

Dictionary key name: `cur_hop_limit`

managed_address_config_flag

XML Binding class name: managed_address_config_flag

Dictionary key name: managed_address_config_flag

options

Type: `cybox.objects.network_packet_object.RouterAdvertisementOptions`

XML Binding class name: Options

Dictionary key name: options

other_config_flag

XML Binding class name: other_config_flag

Dictionary key name: other_config_flag

reachable_time

Type: `cybox.common.properties.Integer`

XML Binding class name: Reachable_Time

Dictionary key name: reachable_time

retrans_timer

Type: `cybox.common.properties.Integer`

XML Binding class name: Retrans_Timer

Dictionary key name: retrans_timer

router_lifetime

Type: `cybox.common.properties.Integer`

XML Binding class name: Router_Lifetime

Dictionary key name: router_lifetime

class `cybox.objects.network_packet_object.RouterAdvertisementOptions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.RouterAdvertisementOptionsType`

mtu

Type: `cybox.objects.network_packet_object.NDPMTU`

XML Binding class name: MTU

Dictionary key name: mtu

prefix_info

Type: `cybox.objects.network_packet_object.NDPPrefixInfo`

XML Binding class name: Prefix_Info

Dictionary key name: prefix_info

src_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: Src_Link_Addr

Dictionary key name: src_link_addr

class `cybox.objects.network_packet_object.RouterSolicitation`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RouterSolicitationType`

options

(List of values permitted)

Type: `cybox.objects.network_packet_object.RouterSolicitationOptions`

XML Binding class name: Options

Dictionary key name: options

class `cybox.objects.network_packet_object.RouterSolicitationOptions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.RouterSolicitationOptionsType`

src_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: Src_Link_Addr

Dictionary key name: src_link_addr

class `cybox.objects.network_packet_object.Routing`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RoutingType`

header_ext_len

Type: `cybox.common.properties.Integer`

XML Binding class name: Header_Ext_Len

Dictionary key name: header_ext_len

next_header

Type: `cybox.common.properties.String`
 XML Binding class name: `Next_Header`
 Dictionary key name: `next_header`

routing_type

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Routing_Type`
 Dictionary key name: `routing_type`

segments_left

Type: `cybox.common.properties.Integer`
 XML Binding class name: `Segments_Left`
 Dictionary key name: `segments_left`

type_specific_data

Type: `cybox.common.properties.String`
 XML Binding class name: `Type_Specific_Data`
 Dictionary key name: `type_specific_data`

class `cybox.objects.network_packet_object.TCP`
 Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TCPType`

data

Type: `cybox.common.data_segment.DataSegment`
 XML Binding class name: `Data`
 Dictionary key name: `data`

options

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: `Options`
 Dictionary key name: `options`

tcp_header

Type: `cybox.objects.network_packet_object.TCPHeader`
 XML Binding class name: `TCP_Header`
 Dictionary key name: `tcp_header`

class `cybox.objects.network_packet_object.TCPFlags`
 Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TCPFlagsType`

ack

XML Binding class name: ack

Dictionary key name: ack

cwr

XML Binding class name: cwr

Dictionary key name: cwr

ece

XML Binding class name: ece

Dictionary key name: ece

fin

XML Binding class name: fin

Dictionary key name: fin

ns

XML Binding class name: ns

Dictionary key name: ns

psh

XML Binding class name: psh

Dictionary key name: psh

rst

XML Binding class name: rst

Dictionary key name: rst

syn

XML Binding class name: syn

Dictionary key name: syn

urg

XML Binding class name: urg

Dictionary key name: urg

class cybox.objects.network_packet_object.**TCPHeader**

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.TCPHeaderType

ack_num

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `ACK_Num`

Dictionary key name: `ack_num`

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Checksum`

Dictionary key name: `checksum`

data_offset

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Data_Offset`

Dictionary key name: `data_offset`

dest_port

Type: `cybox.objects.port_object.Port`

XML Binding class name: `Dest_Port`

Dictionary key name: `dest_port`

reserved

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Reserved`

Dictionary key name: `reserved`

seq_num

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Seq_Num`

Dictionary key name: `seq_num`

src_port

Type: `cybox.objects.port_object.Port`

XML Binding class name: `Src_Port`

Dictionary key name: `src_port`

tcp_flags

Type: `cybox.objects.network_packet_object.TCPFlags`

XML Binding class name: `TCP_Flags`

Dictionary key name: `tcp_flags`

urg_ptr

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Urg_Ptr

Dictionary key name: urg_ptr

window

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Window

Dictionary key name: window

class `cybox.objects.network_packet_object.TransportLayer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TransportLayerType`

tcp

Type: `cybox.objects.network_packet_object.TCP`

XML Binding class name: TCP

Dictionary key name: tcp

udp

Type: `cybox.objects.network_packet_object.UDP`

XML Binding class name: UDP

Dictionary key name: udp

class `cybox.objects.network_packet_object.TypeLength`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TypeLengthType`

internet_layer_type

Type: `cybox.common.properties.String`

XML Binding class name: Internet_Layer_Type

Dictionary key name: internet_layer_type

length

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Length

Dictionary key name: length

class `cybox.objects.network_packet_object.UDP`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.UDPType`

data

Type: `cybox.common.data_segment.DataSegment`

XML Binding class name: `Data`

Dictionary key name: `data`

udp_header

Type: `cybox.objects.network_packet_object.UDPHeader`

XML Binding class name: `UDP_Header`

Dictionary key name: `udp_header`

class `cybox.objects.network_packet_object.UDPHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.UDPHeaderType`

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Checksum`

Dictionary key name: `checksum`

destport

Type: `cybox.objects.port_object.Port`

XML Binding class name: `DestPort`

Dictionary key name: `destport`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

srcport

Type: `cybox.objects.port_object.Port`

XML Binding class name: `SrcPort`

Dictionary key name: `srcport`

Version: 2.1.0.11

cybox.objects.network_route_entry_object module

class `cybox.objects.network_route_entry_object.NetworkRouteEntry`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.network_route_entry_object.NetworkRouteEntryObjectType`

destination_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Destination_Address`

Dictionary key name: `destination_address`

gateway_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Gateway_Address`

Dictionary key name: `gateway_address`

interface

Type: `cybox.common.properties.String`

XML Binding class name: `Interface`

Dictionary key name: `interface`

is_autoconfigure_address

XML Binding class name: `is_autoconfigure_address`

Dictionary key name: `is_autoconfigure_address`

is_immortal

XML Binding class name: `is_immortal`

Dictionary key name: `is_immortal`

is_ipv6

XML Binding class name: `is_ipv6`

Dictionary key name: `is_ipv6`

is_loopback

XML Binding class name: `is_loopback`

Dictionary key name: `is_loopback`

is_publish

XML Binding class name: `is_publish`

Dictionary key name: `is_publish`

metric

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Metric`

Dictionary key name: `metric`

netmask

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Netmask`

Dictionary key name: `netmask`

origin

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Origin`

Dictionary key name: `origin`

preferred_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Preferred_Lifetime`

Dictionary key name: `preferred_lifetime`

protocol

Type: `cybox.common.properties.String`

XML Binding class name: `Protocol`

Dictionary key name: `protocol`

route_age

Type: `cybox.common.properties.Duration`

XML Binding class name: `Route_Age`

Dictionary key name: `route_age`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

valid_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Valid_Lifetime`

Dictionary key name: `valid_lifetime`

Version: 2.1.0.11

cybox.objects.network_route_object module

class `cybox.objects.network_route_object.NetRoute`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_route_object.NetRouteObjectType`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

is_autoconfigure_address

XML Binding class name: `is_autoconfigure_address`

Dictionary key name: `is_autoconfigure_address`

is_immortal

XML Binding class name: `is_immortal`

Dictionary key name: `is_immortal`

is_ipv6

XML Binding class name: `is_ipv6`

Dictionary key name: `is_ipv6`

is_loopback

XML Binding class name: `is_loopback`

Dictionary key name: `is_loopback`

is_publish

XML Binding class name: `is_publish`

Dictionary key name: `is_publish`

network_route_entries

Type: `cybox.objects.network_route_object.NetworkRouteEntries`

XML Binding class name: `Network_Route_Entries`

Dictionary key name: `network_route_entries`

preferred_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Preferred_Lifetime`

Dictionary key name: `preferred_lifetime`

route_age

Type: `cybox.common.properties.Duration`

XML Binding class name: `Route_Age`

Dictionary key name: `route_age`

valid_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Valid_Lifetime`

Dictionary key name: `valid_lifetime`

class `cybox.objects.network_route_object.NetworkRouteEntries` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.network_route_object.NetworkRouteEntriesType`

Version: 2.1.0.11

cybox.objects.network_socket_object module

class `cybox.objects.network_socket_object.NetworkSocket`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_socket_object.NetworkSocketObjectType`

address_family

Type: `cybox.common.properties.String`

XML Binding class name: `Address_Family`

Dictionary key name: `address_family`

domain

Type: `cybox.common.properties.String`

XML Binding class name: `Domain`

Dictionary key name: `domain`

is_blocking

XML Binding class name: `is_blocking`

Dictionary key name: `is_blocking`

is_listening

XML Binding class name: `is_listening`

Dictionary key name: `is_listening`

local_address

Type: `cybox.objects.socket_address_object.SocketAddress`

XML Binding class name: `Local_Address`

Dictionary key name: `local_address`

options

Type: `cybox.objects.network_socket_object.SocketOptions`

XML Binding class name: Options

Dictionary key name: options

protocol

Type: `cybox.common.properties.String`

XML Binding class name: Protocol

Dictionary key name: protocol

remote_address

Type: `cybox.objects.socket_address_object.SocketAddress`

XML Binding class name: Remote_Address

Dictionary key name: remote_address

socket_descriptor

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Socket_Descriptor

Dictionary key name: socket_descriptor

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

class `cybox.objects.network_socket_object.SocketOptions`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_socket_object.SocketOptionsType`

ip_multicast_if

Type: `cybox.common.properties.String`

XML Binding class name: IP_MULTICAST_IF

Dictionary key name: ip_multicast_if

ip_multicast_if2

Type: `cybox.common.properties.String`

XML Binding class name: IP_MULTICAST_IF2

Dictionary key name: ip_multicast_if2

ip_multicast_loop

XML Binding class name: IP_MULTICAST_LOOP

Dictionary key name: ip_multicast_loop

ip_tos

Type: `cybox.common.properties.String`
XML Binding class name: `IP_TOS`
Dictionary key name: `ip_tos`

so_broadcast

XML Binding class name: `SO_BROADCAST`
Dictionary key name: `so_broadcast`

so_conditional_accept

XML Binding class name: `SO_CONDITIONAL_ACCEPT`
Dictionary key name: `so_conditional_accept`

so_debug

XML Binding class name: `SO_DEBUG`
Dictionary key name: `so_debug`

so_dontlinger

XML Binding class name: `SO_DONTLINGER`
Dictionary key name: `so_dontlinger`

so_dontroute

XML Binding class name: `SO_DONTRROUTE`
Dictionary key name: `so_dontroute`

so_group_priority

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `SO_GROUP_PRIORITY`
Dictionary key name: `so_group_priority`

so_keepalive

XML Binding class name: `SO_KEEPALIVE`
Dictionary key name: `so_keepalive`

so_linger

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `SO_LINGER`
Dictionary key name: `so_linger`

so_oobinline

XML Binding class name: `SO_OOBINLINE`
Dictionary key name: `so_oobinline`

so_rcvbuf

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_RCVBUF`

Dictionary key name: `so_rcvbuf`

so_rcvtimeo

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_RCVTIMEO`

Dictionary key name: `so_rcvtimeo`

so_reuseaddr

XML Binding class name: `SO_REUSEADDR`

Dictionary key name: `so_reuseaddr`

so_sndbuf

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_SNDBUF`

Dictionary key name: `so_sndbuf`

so_sndtimeo

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_SNDTIMEO`

Dictionary key name: `so_sndtimeo`

so_timeout

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_TIMEOUT`

Dictionary key name: `so_timeout`

so_update_accept_context

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_UPDATE_ACCEPT_CONTEXT`

Dictionary key name: `so_update_accept_context`

tcp_nodelay

XML Binding class name: `TCP_NODELAY`

Dictionary key name: `tcp_nodelay`

Version: 2.1.0.11

cybox.objects.network_subnet_object module

class `cybox.objects.network_subnet_object.NetworkSubnet`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_subnet_object.NetworkSubnetObjectType`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

number_of_ip_addresses

Type: `cybox.common.properties.Integer`

XML Binding class name: `Number_Of_IP_Addresses`

Dictionary key name: `number_of_ip_addresses`

routes

Type: `cybox.objects.network_subnet_object.Routes`

XML Binding class name: `Routes`

Dictionary key name: `routes`

class `cybox.objects.network_subnet_object.Routes` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.network_subnet_object.RoutesType`

Version: 2.1.0.11

cybox.objects.pdf_file_object module

class `cybox.objects.pdf_file_object.PDFDocumentInformationDictionary`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.pdf_file_object.PDFDocumentInformationDictionaryType`

author

Type: `cybox.common.properties.String`

XML Binding class name: `Author`

Dictionary key name: `author`

creationdate

Type: `cybox.common.properties.DateTime`

XML Binding class name: `CreationDate`

Dictionary key name: `creationdate`

creator

Type: `cybox.common.properties.String`

XML Binding class name: `Creator`

Dictionary key name: `creator`

keywords

Type: `cybox.common.properties.String`

XML Binding class name: `Keywords`

Dictionary key name: `keywords`

moddate

Type: `cybox.common.properties.DateTime`

XML Binding class name: `ModDate`

Dictionary key name: `moddate`

producer

Type: `cybox.common.properties.String`

XML Binding class name: `Producer`

Dictionary key name: `producer`

subject

Type: `cybox.common.properties.String`

XML Binding class name: `Subject`

Dictionary key name: `subject`

title

Type: `cybox.common.properties.String`

XML Binding class name: `Title`

Dictionary key name: `title`

trapped

Type: `cybox.common.properties.String`

XML Binding class name: `Trapped`

Dictionary key name: `trapped`

class `cybox.objects.pdf_file_object.PDFFile`

Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.pdf_file_object.PDFFileObjectType`

metadata

Type: `cybox.objects.pdf_file_object.PDFFileMetadata`

XML Binding class name: `Metadata`

Dictionary key name: `metadata`

version

Type: `cybox.common.properties.Double`

XML Binding class name: `Version`

Dictionary key name: `version`

class `cybox.objects.pdf_file_object.PDFFileMetadata`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.pdf_file_object.PDFFileMetadataType`

document_information_dictionary

Type: `cybox.objects.pdf_file_object.PDFDocumentInformationDictionary`

XML Binding class name: `Document_Information_Dictionary`

Dictionary key name: `document_information_dictionary`

encrypted

XML Binding class name: `encrypted`

Dictionary key name: `encrypted`

keyword_counts

Type: `cybox.objects.pdf_file_object.PDFKeywordCounts`

XML Binding class name: `Keyword_Counts`

Dictionary key name: `keyword_counts`

number_of_cross_reference_tables

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Number_Of_Cross_Reference_Tables`

Dictionary key name: `number_of_cross_reference_tables`

number_of_indirect_objects

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Number_Of_Indirect_Objects`

Dictionary key name: `number_of_indirect_objects`

number_of_trailers

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Number_Of_Trailers`

Dictionary key name: `number_of_trailers`

optimized

XML Binding class name: `optimized`

Dictionary key name: `optimized`

class `cybox.objects.pdf_file_object.PDFKeywordCount`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.pdf_file_object.PDFKeywordCountType`

non_obfuscated_count

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Non_Obfuscated_Count`

Dictionary key name: `non_obfuscated_count`

obfuscated_count

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Obfuscated_Count`

Dictionary key name: `obfuscated_count`

class `cybox.objects.pdf_file_object.PDFKeywordCounts`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.pdf_file_object.PDFKeywordCountsType`

aa_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `AA_Count`

Dictionary key name: `aa_count`

ascii85decode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `ASCII85Decode_Count`

Dictionary key name: `ascii85decode_count`

asciihexdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: ASCIIHexDecode_Count

Dictionary key name: asciihexdecode_count

ccittfaxdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: CCITTFaxDecode_Count

Dictionary key name: ccittfaxdecode_count

dctdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: DCTDecode_Count

Dictionary key name: dctdecode_count

encrypt_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: Encrypt_Count

Dictionary key name: encrypt_count

flatedecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: FlateDecode_Count

Dictionary key name: flatedecode_count

javascript_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: JavaScript_Count

Dictionary key name: javascript_count

jbig2decode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: JBIG2Decode_Count

Dictionary key name: jbig2decode_count

js_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: JS_Count

Dictionary key name: js_count

launch_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: Launch_Count

Dictionary key name: launch_count

lzwdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `LZWDecode_Count`

Dictionary key name: `lzwdecode_count`

objstm_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `ObjStm_Count`

Dictionary key name: `objstm_count`

openaction_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `OpenAction_Count`

Dictionary key name: `openaction_count`

page_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `Page_Count`

Dictionary key name: `page_count`

richmedia_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `RichMedia_Count`

Dictionary key name: `richmedia_count`

runlengthdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `RunLengthDecode_Count`

Dictionary key name: `runlengthdecode_count`

xfa_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `XFA_Count`

Dictionary key name: `xfa_count`

Version: 2.1.0.11

cybox.objects.pipe_object module

class `cybox.objects.pipe_object.Pipe`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.pipe_object.PipeObjectType`

nameType: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

named

XML Binding class name: named

Dictionary key name: named

Version: 2.1.0.11**cybox.objects.port_object module****class** `cybox.objects.port_object.Port`Bases: `cybox.common.object_properties.ObjectProperties`XML binding class: `cybox.bindings.port_object.PortObjectType`**layer4_protocol**Type: `cybox.common.properties.String`

XML Binding class name: Layer4_Protocol

Dictionary key name: layer4_protocol

port_valueType: `cybox.common.properties.PositiveInteger`

XML Binding class name: Port_Value

Dictionary key name: port_value

Version: 2.1.0.11**cybox.objects.process_object module****class** `cybox.objects.process_object.ArgumentList` (*args)Bases: `cybox.EntityList`XML binding class: `cybox.bindings.process_object.ArgumentListType`**class** `cybox.objects.process_object.ChildPIDList` (*args)Bases: `cybox.EntityList`XML binding class: `cybox.bindings.process_object.ChildPIDListType`**class** `cybox.objects.process_object.ImageInfo`Bases: `cybox.Entity`

XML binding class: `cybox.bindings.process_object.ImageInfoType`

command_line

Type: `cybox.common.properties.String`

XML Binding class name: `Command_Line`

Dictionary key name: `command_line`

current_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Current_Directory`

Dictionary key name: `current_directory`

file_name

Type: `cybox.common.properties.String`

XML Binding class name: `File_Name`

Dictionary key name: `file_name`

path

Type: `cybox.common.properties.String`

XML Binding class name: `Path`

Dictionary key name: `path`

class `cybox.objects.process_object.NetworkConnectionList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.process_object.NetworkConnectionListType`

class `cybox.objects.process_object.PortList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.process_object.PortListType`

class `cybox.objects.process_object.Process`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.process_object.ProcessObjectType`

argument_list

Type: `cybox.objects.process_object.ArgumentList`

XML Binding class name: `Argument_List`

Dictionary key name: `argument_list`

child_pid_list

Type: `cybox.objects.process_object.ChildPIDList`

XML Binding class name: `Child_PID_List`

Dictionary key name: `child_pid_list`

creation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Creation_Time`

Dictionary key name: `creation_time`

environment_variable_list

Type: `cybox.common.environment_variable.EnvironmentVariableList`

XML Binding class name: `Environment_Variable_List`

Dictionary key name: `environment_variable_list`

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: `Extracted_Features`

Dictionary key name: `extracted_features`

image_info

Type: `cybox.objects.process_object.ImageInfo`

XML Binding class name: `Image_Info`

Dictionary key name: `image_info`

kernel_time

Type: `cybox.common.properties.Duration`

XML Binding class name: `Kernel_Time`

Dictionary key name: `kernel_time`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

network_connection_list

Type: `cybox.objects.process_object.NetworkConnectionList`

XML Binding class name: `Network_Connection_List`

Dictionary key name: `network_connection_list`

parent_pid

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `Parent_PID`
Dictionary key name: `parent_pid`

pid

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `PID`
Dictionary key name: `pid`

port_list

Type: `cybox.objects.process_object.PortList`
XML Binding class name: `Port_List`
Dictionary key name: `port_list`

start_time

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Start_Time`
Dictionary key name: `start_time`

user_time

Type: `cybox.common.properties.Duration`
XML Binding class name: `User_Time`
Dictionary key name: `user_time`

username

Type: `cybox.common.properties.String`
XML Binding class name: `Username`
Dictionary key name: `username`

Version: 2.1.0.11

cybox.objects.product_object module

class `cybox.objects.product_object.Product`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.product_object.ProductObjectType`

edition

Type: `cybox.common.properties.String`
XML Binding class name: `Edition`
Dictionary key name: `edition`

language

Type: `cybox.common.properties.String`
XML Binding class name: Language
Dictionary key name: language

product

Type: `cybox.common.properties.String`
XML Binding class name: Product
Dictionary key name: product

update

Type: `cybox.common.properties.String`
XML Binding class name: Update
Dictionary key name: update

vendor

Type: `cybox.common.properties.String`
XML Binding class name: Vendor
Dictionary key name: vendor

version

Type: `cybox.common.properties.String`
XML Binding class name: Version
Dictionary key name: version

Version: 2.1.0.11

cybox.objects.semaphore_object module

class `cybox.objects.semaphore_object.Semaphore`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.semaphore_object.SemaphoreObjectType`

current_count

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: Current_Count
Dictionary key name: current_count

maximum_count

Type: `cybox.common.properties.PositiveInteger`
XML Binding class name: Maximum_Count
Dictionary key name: maximum_count

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

named

XML Binding class name: `named`
Dictionary key name: `named`

Version: 2.1.0.11

cybox.objects.socket_address_object module

class `cybox.objects.socket_address_object.SocketAddress`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.socket_address_object.SocketAddressObjectType`

hostname

Type: `cybox.objects.hostname_object.Hostname`
XML Binding class name: `Hostname`
Dictionary key name: `hostname`

ip_address

Type: `cybox.objects.address_object.Address`
XML Binding class name: `IP_Address`
Dictionary key name: `ip_address`

port

Type: `cybox.objects.port_object.Port`
XML Binding class name: `Port`
Dictionary key name: `port`

Version: 2.1.0.11

cybox.objects.sms_message_object module

class `cybox.objects.sms_message_object.SMSMessage`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.sms_message_object.SMSMessageObjectType`

bits_per_character

Type: `cybox.common.properties.PositiveInteger`
XML Binding class name: `Bits_Per_Character`
Dictionary key name: `bits_per_character`

body

Type: `cybox.common.properties.String`

XML Binding class name: `Body`

Dictionary key name: `body`

encoding

Type: `cybox.common.properties.String`

XML Binding class name: `Encoding`

Dictionary key name: `encoding`

is_premium

XML Binding class name: `is_premium`

Dictionary key name: `is_premium`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

recipient_phone_number

Type: `cybox.common.properties.String`

XML Binding class name: `Recipient_Phone_Number`

Dictionary key name: `recipient_phone_number`

sender_phone_number

Type: `cybox.common.properties.String`

XML Binding class name: `Sender_Phone_Number`

Dictionary key name: `sender_phone_number`

sent_datetime

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Sent_DateTime`

Dictionary key name: `sent_datetime`

size

Type: `cybox.common.properties.Integer`

XML Binding class name: `Size`

Dictionary key name: `size`

user_data_header

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `User_Data_Header`

Dictionary key name: user_data_header

Version: 2.1.0.11

cybox.objects.system_object module

class cybox.objects.system_object.**BIOSInfo**

Bases: cybox.Entity

XML binding class: cybox.bindings.system_object.BIOSInfoType

bios_date

Type: cybox.common.properties.Date

XML Binding class name: BIOS_Date

Dictionary key name: bios_date

bios_manufacturer

Type: cybox.common.properties.String

XML Binding class name: BIOS_Manufacturer

Dictionary key name: bios_manufacturer

bios_release_date

Type: cybox.common.properties.Date

XML Binding class name: BIOS_Release_Date

Dictionary key name: bios_release_date

bios_serial_number

Type: cybox.common.properties.String

XML Binding class name: BIOS_Serial_Number

Dictionary key name: bios_serial_number

bios_version

Type: cybox.common.properties.String

XML Binding class name: BIOS_Version

Dictionary key name: bios_version

class cybox.objects.system_object.**DHCPServerList** (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.system_object.DHCPServerListType

class cybox.objects.system_object.**IPGatewayList** (*args)

Bases: cybox.EntityList

XML binding class: `cybox.bindings.system_object.IPGatewayListType`

class `cybox.objects.system_object.IPInfo`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.IPInfoType`

class `cybox.objects.system_object.IPInfoList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.system_object.IPInfoListType`

class `cybox.objects.system_object.NetworkInterface`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.NetworkInterfaceType`

adapter

Type: `cybox.common.properties.String`

XML Binding class name: Adapter

Dictionary key name: adapter

description

Type: `cybox.common.properties.String`

XML Binding class name: Description

Dictionary key name: description

dhcp_lease_expires

Type: `cybox.common.properties.DateTime`

XML Binding class name: DHCP_Lease_Expires

Dictionary key name: dhcp_lease_expires

dhcp_lease_obtained

Type: `cybox.common.properties.DateTime`

XML Binding class name: DHCP_Lease_Obtained

Dictionary key name: dhcp_lease_obtained

dhcp_server_list

Type: `cybox.objects.system_object.DHCPServerList`

XML Binding class name: DHCP_Server_List

Dictionary key name: dhcp_server_list

ip_gateway_list

Type: `cybox.objects.system_object.IPGatewayList`

XML Binding class name: `IP_Gateway_List`

Dictionary key name: `ip_gateway_list`

ip_list

Type: `cybox.objects.system_object.IPInfoList`

XML Binding class name: `IP_List`

Dictionary key name: `ip_list`

mac

Type: `cybox.common.properties.String`

XML Binding class name: `MAC`

Dictionary key name: `mac`

class `cybox.objects.system_object.NetworkInterfaceList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.system_object.NetworkInterfaceListType`

class `cybox.objects.system_object.OS`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.OSType`

bitness

Type: `cybox.common.properties.String`

XML Binding class name: `Bitness`

Dictionary key name: `bitness`

build_number

Type: `cybox.common.properties.String`

XML Binding class name: `Build_Number`

Dictionary key name: `build_number`

environment_variable_list

Type: `cybox.common.environment_variable.EnvironmentVariableList`

XML Binding class name: `Environment_Variable_List`

Dictionary key name: `environment_variable_list`

install_date

Type: `cybox.common.properties.Date`

XML Binding class name: `Install_Date`

Dictionary key name: `install_date`

patch_level

Type: `cybox.common.properties.String`

XML Binding class name: `Patch_Level`

Dictionary key name: `patch_level`

platform

Type: `cybox.common.platform_specification.PlatformSpecification`

XML Binding class name: `Platform`

Dictionary key name: `platform`

class `cybox.objects.system_object.System`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.system_object.SystemObjectType`

available_physical_memory

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Available_Physical_Memory`

Dictionary key name: `available_physical_memory`

bios_info

Type: `cybox.objects.system_object.BIOSInfo`

XML Binding class name: `BIOS_Info`

Dictionary key name: `bios_info`

date

Type: `cybox.common.properties.Date`

XML Binding class name: `Date`

Dictionary key name: `date`

hostname

Type: `cybox.common.properties.String`

XML Binding class name: `Hostname`

Dictionary key name: `hostname`

local_time

Type: `cybox.common.properties.Time`
XML Binding class name: `Local_Time`
Dictionary key name: `local_time`

network_interface_list

Type: `cybox.objects.system_object.NetworkInterfaceList`
XML Binding class name: `Network_Interface_List`
Dictionary key name: `network_interface_list`

os

Type: `cybox.objects.system_object.OS`
XML Binding class name: `OS`
Dictionary key name: `os`

processor

Type: `cybox.common.properties.String`
XML Binding class name: `Processor`
Dictionary key name: `processor`

system_time

Type: `cybox.common.properties.Time`
XML Binding class name: `System_Time`
Dictionary key name: `system_time`

timezone_dst

Type: `cybox.common.properties.String`
XML Binding class name: `Timezone_DST`
Dictionary key name: `timezone_dst`

timezone_standard

Type: `cybox.common.properties.String`
XML Binding class name: `Timezone_Standard`
Dictionary key name: `timezone_standard`

total_physical_memory

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Total_Physical_Memory`
Dictionary key name: `total_physical_memory`

uptime

Type: `cybox.common.properties.Duration`
XML Binding class name: `Uptime`
Dictionary key name: `uptime`

username

Type: `cybox.common.properties.String`

XML Binding class name: Username

Dictionary key name: username

Version: 2.1.0.11

cybox.objects.uri_object module

class `cybox.objects.uri_object.URI` (*value=None, type_=None*)

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.uri_object.URIOBJECTType`

type_

XML Binding class name: type_

Dictionary key name: type

value

Type: `cybox.common.properties.AnyURI`

XML Binding class name: Value

Dictionary key name: value

Version: 2.1.0.11

cybox.objects.user_account_object module

class `cybox.objects.user_account_object.Group`

Bases: `cybox.Entity`

An abstract class for account groups.

XML binding class: <undefined>

class `cybox.objects.user_account_object.GroupList` (**args*)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.user_account_object.GroupListType`

class `cybox.objects.user_account_object.Privilege`

Bases: `cybox.Entity`

An abstract class for account privileges.

XML binding class: <undefined>

class `cybox.objects.user_account_object.PrivilegeList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.user_account_object.PrivilegeListType`

class `cybox.objects.user_account_object.UserAccount`
Bases: `cybox.objects.account_object.Account`

XML binding class: `cybox.bindings.user_account_object.UserAccountObjectType`

full_name

Type: `cybox.common.properties.String`

XML Binding class name: `Full_Name`

Dictionary key name: `full_name`

group_list

Type: `cybox.objects.user_account_object.GroupList`

XML Binding class name: `Group_List`

Dictionary key name: `group_list`

home_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Home_Directory`

Dictionary key name: `home_directory`

last_login

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Last_Login`

Dictionary key name: `last_login`

password_required

XML Binding class name: `password_required`

Dictionary key name: `password_required`

privilege_list

Type: `cybox.objects.user_account_object.PrivilegeList`

XML Binding class name: `Privilege_List`

Dictionary key name: `privilege_list`

script_path

Type: `cybox.common.properties.String`

XML Binding class name: `Script_Path`

Dictionary key name: `script_path`

user_password_age

Type: `cybox.common.properties.Duration`

XML Binding class name: `User_Password_Age`

Dictionary key name: `user_password_age`

username

Type: `cybox.common.properties.String`

XML Binding class name: `Username`

Dictionary key name: `username`

Version: 2.1.0.11

cybox.objects.volume_object module

class `cybox.objects.volume_object.FileSystemFlagList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.volume_object.FileSystemFlagListType`

class `cybox.objects.volume_object.Volume`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.volume_object.VolumeObjectType`

actual_available_allocation_units

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Actual_Available_Allocation_Units`

Dictionary key name: `actual_available_allocation_units`

bytes_per_sector

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Bytes_Per_Sector`

Dictionary key name: `bytes_per_sector`

creation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Creation_Time`

Dictionary key name: `creation_time`

device_path

Type: `cybox.common.properties.String`
XML Binding class name: `Device_Path`
Dictionary key name: `device_path`

file_system_flag_list

Type: `cybox.objects.volume_object.FileSystemFlagList`
XML Binding class name: `File_System_Flag_List`
Dictionary key name: `file_system_flag_list`

file_system_type

Type: `cybox.common.properties.String`
XML Binding class name: `File_System_Type`
Dictionary key name: `file_system_type`

is_mounted

XML Binding class name: `is_mounted`
Dictionary key name: `is_mounted`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

sectors_per_allocation_unit

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `Sectors_Per_Allocation_Unit`
Dictionary key name: `sectors_per_allocation_unit`

serial_number

Type: `cybox.common.properties.String`
XML Binding class name: `Serial_Number`
Dictionary key name: `serial_number`

total_allocation_units

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Total_Allocation_Units`
Dictionary key name: `total_allocation_units`

Version: 2.1.0.11

cybox.objects.whois_object module

class `cybox.objects.whois_object.WhoisContact`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.whois_object.WhoisContactType`

address

Type: `cybox.common.properties.String`

XML Binding class name: `Address`

Dictionary key name: `address`

contact_id

Type: `cybox.common.properties.String`

XML Binding class name: `Contact_ID`

Dictionary key name: `contact_id`

contact_type

XML Binding class name: `contact_type`

Dictionary key name: `contact_type`

email_address

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: `Email_Address`

Dictionary key name: `email_address`

fax_number

Type: `cybox.common.properties.String`

XML Binding class name: `Fax_Number`

Dictionary key name: `fax_number`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

organization

Type: `cybox.common.properties.String`

XML Binding class name: `Organization`

Dictionary key name: `organization`

phone_number

Type: `cybox.common.properties.String`

XML Binding class name: `Phone_Number`

Dictionary key name: `phone_number`

class `cybox.objects.whois_object.WhoisContacts` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisContactsType`

class `cybox.objects.whois_object.WhoisEntry`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.whois_object.WhoisObjectType`

contact_info

Type: `cybox.objects.whois_object.WhoisContact`

XML Binding class name: `Contact_Info`

Dictionary key name: `contact_info`

creation_date

Type: `cybox.common.properties.Date`

XML Binding class name: `Creation_Date`

Dictionary key name: `creation_date`

dnssec

XML Binding class name: `DNSSEC`

Dictionary key name: `dnssec`

domain_id

Type: `cybox.common.properties.String`

XML Binding class name: `Domain_ID`

Dictionary key name: `domain_id`

domain_name

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Domain_Name`

Dictionary key name: `domain_name`

expiration_date

Type: `cybox.common.properties.Date`

XML Binding class name: `Expiration_Date`

Dictionary key name: `expiration_date`

ip_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IP_Address`

Dictionary key name: `ip_address`

lookup_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Lookup_Date`

Dictionary key name: `lookup_date`

nameservers

Type: `cybox.objects.whois_object.WhoisNameservers`

XML Binding class name: `Nameservers`

Dictionary key name: `nameservers`

regional_internet_registry

Type: `cybox.common.properties.String`

XML Binding class name: `Regional_Internet_Registry`

Dictionary key name: `regional_internet_registry`

registrants

Type: `cybox.objects.whois_object.WhoisRegistrants`

XML Binding class name: `Registrants`

Dictionary key name: `registrants`

registrar_info

Type: `cybox.objects.whois_object.WhoisRegistrar`

XML Binding class name: `Registrar_Info`

Dictionary key name: `registrar_info`

remarks

Type: `cybox.common.properties.String`

XML Binding class name: `Remarks`

Dictionary key name: `remarks`

server_name

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Server_Name`

Dictionary key name: `server_name`

sponsoring_registrar

Type: `cybox.common.properties.String`

XML Binding class name: `Sponsoring_Registrar`

Dictionary key name: `sponsoring_registrar`

status

Type: `cybox.objects.whois_object.WhoisStatuses`

XML Binding class name: Status

Dictionary key name: status

updated_date

Type: `cybox.common.properties.Date`

XML Binding class name: Updated_Date

Dictionary key name: updated_date

class `cybox.objects.whois_object.WhoisNameservers` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisNameserversType`

class `cybox.objects.whois_object.WhoisRegistrant`

Bases: `cybox.objects.whois_object.WhoisContact`

XML binding class: `cybox.bindings.whois_object.WhoisRegistrantInfoType`

registrant_id

Type: `cybox.common.properties.String`

XML Binding class name: Registrant_ID

Dictionary key name: registrant_id

class `cybox.objects.whois_object.WhoisRegistrants` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisRegistrantsType`

class `cybox.objects.whois_object.WhoisRegistrar`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.whois_object.WhoisRegistrarInfoType`

address

Type: `cybox.common.properties.String`

XML Binding class name: Address

Dictionary key name: address

contacts

Type: `cybox.objects.whois_object.WhoisContacts`

XML Binding class name: Contacts

Dictionary key name: contacts

email_address

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: Email_Address

Dictionary key name: email_address

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

phone_number

Type: `cybox.common.properties.String`

XML Binding class name: Phone_Number

Dictionary key name: phone_number

referral_url

Type: `cybox.objects.uri_object.URI`

XML Binding class name: Referral_URL

Dictionary key name: referral_url

registrar_guid

Type: `cybox.common.properties.String`

XML Binding class name: Registrar_GUID

Dictionary key name: registrar_guid

registrar_id

Type: `cybox.common.properties.String`

XML Binding class name: Registrar_ID

Dictionary key name: registrar_id

whois_server

Type: `cybox.objects.uri_object.URI`

XML Binding class name: Whois_Server

Dictionary key name: whois_server

class `cybox.objects.whois_object.WhoisStatus` (*value=None*)

Bases: `cybox.common.properties.BaseProperty`

XML binding class: `cybox.bindings.whois_object.WhoisStatusType`

class `cybox.objects.whois_object.WhoisStatuses` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisStatusesType`

Version: 2.1.0.11

cybox.objects.win_computer_account_object module

class `cybox.objects.win_computer_account_object.FullyQualifiedName`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.win_computer_account_object.FullyQualifiedNameType`

full_name

Type: `cybox.common.properties.String`
XML Binding class name: `Full_Name`
Dictionary key name: `full_name`

netbeui_name

Type: `cybox.common.properties.String`
XML Binding class name: `NetBEUI_Name`
Dictionary key name: `netbeui_name`

class `cybox.objects.win_computer_account_object.Kerberos`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_computer_account_object.KerberosType`

delegation

Type: `cybox.objects.win_computer_account_object.KerberosDelegation`
XML Binding class name: `Delegation`
Dictionary key name: `delegation`

ticket

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Ticket`
Dictionary key name: `ticket`

class `cybox.objects.win_computer_account_object.KerberosDelegation`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_computer_account_object.KerberosDelegationType`

bitmask

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Bitmask

Dictionary key name: bitmask

service

Type: `cybox.objects.win_computer_account_object.KerberosService`

XML Binding class name: Service

Dictionary key name: service

class `cybox.objects.win_computer_account_object.KerberosService`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_computer_account_object.KerberosServiceType`

computer

Type: `cybox.common.properties.String`

XML Binding class name: Computer

Dictionary key name: computer

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

port

Type: `cybox.objects.port_object.Port`

XML Binding class name: Port

Dictionary key name: port

user

Type: `cybox.common.properties.String`

XML Binding class name: User

Dictionary key name: user

class `cybox.objects.win_computer_account_object.WinComputerAccount`

Bases: `cybox.objects.account_object.Account`

XML binding class:

`cybox.bindings.win_computer_account_object.WindowsComputerAccountObjectType`

fully_qualified_name

Type: `cybox.objects.win_computer_account_object.FullyQualifiedName`

XML Binding class name: `FullyQualifiedName`

Dictionary key name: `fully_qualified_name`

kerberos

Type: `cybox.objects.win_computer_account_object.Kerberos`

XML Binding class name: `Kerberos`

Dictionary key name: `kerberos`

security_id

Type: `cybox.common.properties.String`

XML Binding class name: `SecurityID`

Dictionary key name: `security_id`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_critical_section_object module

class `cybox.objects.win_critical_section_object.WinCriticalSection`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_critical_section_object.WindowsCriticalSectionObjectType`

address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Address`

Dictionary key name: `address`

spin_count

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `SpinCount`

Dictionary key name: `spin_count`

Version: 2.1.0.11

cybox.objects.win_driver_object module

class cybox.objects.win_driver_object.**DeviceObjectList** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.win_driver_object.DeviceObjectListType

class cybox.objects.win_driver_object.**DeviceObjectStruct**
Bases: cybox.Entity

XML binding class: cybox.bindings.win_driver_object.DeviceObjectStructType

attached_device_name

Type: cybox.common.properties.String
XML Binding class name: Attached_Device_Name
Dictionary key name: attached_device_name

attached_device_object

Type: cybox.common.properties.UnsignedLong
XML Binding class name: Attached_Device_Object
Dictionary key name: attached_device_object

attached_to_device_name

Type: cybox.common.properties.String
XML Binding class name: Attached_To_Device_Name
Dictionary key name: attached_to_device_name

attached_to_device_object

Type: cybox.common.properties.UnsignedLong
XML Binding class name: Attached_To_Device_Object
Dictionary key name: attached_to_device_object

attached_to_driver_name

Type: cybox.common.properties.String
XML Binding class name: Attached_To_Driver_Name
Dictionary key name: attached_to_driver_name

attached_to_driver_object

Type: cybox.common.properties.UnsignedLong
XML Binding class name: Attached_To_Driver_Object
Dictionary key name: attached_to_driver_object

device_name

Type: `cybox.common.properties.String`
XML Binding class name: `Device_Name`
Dictionary key name: `device_name`

device_object

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Device_Object`
Dictionary key name: `device_object`

class `cybox.objects.win_driver_object.WinDriver`

Bases: `cybox.objects.win_executable_file_object.WinExecutableFile`

XML binding class: `cybox.bindings.win_driver_object.WindowsDriverObjectType`

device_object_list

Type: `cybox.objects.win_driver_object.DeviceObjectList`
XML Binding class name: `Device_Object_List`
Dictionary key name: `device_object_list`

driver_init

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Driver_Init`
Dictionary key name: `driver_init`

driver_name

Type: `cybox.common.properties.String`
XML Binding class name: `Driver_Name`
Dictionary key name: `driver_name`

driver_object_address

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Driver_Object_Address`
Dictionary key name: `driver_object_address`

driver_start_io

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Driver_Start_IO`
Dictionary key name: `driver_start_io`

driver_unload

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Driver_Unload`

Dictionary key name: driver_unload

image_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Image_Base

Dictionary key name: image_base

image_size

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Image_Size

Dictionary key name: image_size

irp_mj_cleanup

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_CLEANUP

Dictionary key name: irp_mj_cleanup

irp_mj_close

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_CLOSE

Dictionary key name: irp_mj_close

irp_mj_create

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_CREATE

Dictionary key name: irp_mj_create

irp_mj_create_mailslot

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_CREATE_MAILSLLOT

Dictionary key name: irp_mj_create_mailslot

irp_mj_create_named_pipe

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_CREATE_NAMED_PIPE

Dictionary key name: irp_mj_create_named_pipe

irp_mj_device_change

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_DEVICE_CHANGE

Dictionary key name: irp_mj_device_change

irp_mj_device_control

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_DEVICE_CONTROL`
Dictionary key name: `irp_mj_device_control`

`irp_mj_directory_control`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_DIRECTORY_CONTROL`
Dictionary key name: `irp_mj_directory_control`

`irp_mj_file_system_control`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_FILE_SYSTEM_CONTROL`
Dictionary key name: `irp_mj_file_system_control`

`irp_mj_flush_buffers`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_FLUSH_BUFFERS`
Dictionary key name: `irp_mj_flush_buffers`

`irp_mj_internal_device_control`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_INTERNAL_DEVICE_CONTROL`
Dictionary key name: `irp_mj_internal_device_control`

`irp_mj_lock_control`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_LOCK_CONTROL`
Dictionary key name: `irp_mj_lock_control`

`irp_mj_pnp`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_PNP`
Dictionary key name: `irp_mj_pnp`

`irp_mj_power`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_POWER`
Dictionary key name: `irp_mj_power`

`irp_mj_query_ea`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_QUERY_EA`
Dictionary key name: `irp_mj_query_ea`

irp_mj_query_information

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_QUERY_INFORMATION`
Dictionary key name: `irp_mj_query_information`

irp_mj_query_quota

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_QUERY_QUOTA`
Dictionary key name: `irp_mj_query_quota`

irp_mj_query_security

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_QUERY_SECURITY`
Dictionary key name: `irp_mj_query_security`

irp_mj_query_volume_information

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_QUERY_VOLUME_INFORMATION`
Dictionary key name: `irp_mj_query_volume_information`

irp_mj_read

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_READ`
Dictionary key name: `irp_mj_read`

irp_mj_set_ea

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_SET_EA`
Dictionary key name: `irp_mj_set_ea`

irp_mj_set_information

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_SET_INFORMATION`
Dictionary key name: `irp_mj_set_information`

irp_mj_set_quota

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_SET_QUOTA`
Dictionary key name: `irp_mj_set_quota`

irp_mj_set_security

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SET_SECURITY

Dictionary key name: irp_mj_set_security

irp_mj_set_volume_information

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SET_VOLUME_INFORMATION

Dictionary key name: irp_mj_set_volume_information

irp_mj_shutdown

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SHUTDOWN

Dictionary key name: irp_mj_shutdown

irp_mj_system_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SYSTEM_CONTROL

Dictionary key name: irp_mj_system_control

irp_mj_write

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_WRITE

Dictionary key name: irp_mj_write

Version: 2.1.0.11

cybox.objects.win_event_log_object module

class `cybox.objects.win_event_log_object.UnformattedMessageList` (*args)

Bases: `cybox.EntityList`

XML binding class:

`cybox.bindings.win_event_log_object.UnformattedMessageListType`

class `cybox.objects.win_event_log_object.WinEventLog`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_event_log_object.WindowsEventLogObjectType`

blob

Type: `cybox.common.properties.Base64Binary`

XML Binding class name: Blob

Dictionary key name: blob

category

Type: `cybox.common.properties.String`

XML Binding class name: `Category`

Dictionary key name: `category`

category_num

Type: `cybox.common.properties.Long`

XML Binding class name: `Category_Num`

Dictionary key name: `category_num`

correlation_activity_id

Type: `cybox.common.properties.String`

XML Binding class name: `Correlation_Activity_ID`

Dictionary key name: `correlation_activity_id`

correlation_related_activity_id

Type: `cybox.common.properties.String`

XML Binding class name: `Correlation_Related_Activity_ID`

Dictionary key name: `correlation_related_activity_id`

eid

Type: `cybox.common.properties.Long`

XML Binding class name: `EID`

Dictionary key name: `eid`

execution_process_id

Type: `cybox.common.properties.String`

XML Binding class name: `Execution_Process_ID`

Dictionary key name: `execution_process_id`

execution_thread_id

Type: `cybox.common.properties.String`

XML Binding class name: `Execution_Thread_ID`

Dictionary key name: `execution_thread_id`

generation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Generation_Time`

Dictionary key name: `generation_time`

index

Type: `cybox.common.properties.Long`

XML Binding class name: Index

Dictionary key name: index

log

Type: `cybox.common.properties.String`

XML Binding class name: Log

Dictionary key name: log

machine

Type: `cybox.common.properties.String`

XML Binding class name: Machine

Dictionary key name: machine

message

Type: `cybox.common.properties.String`

XML Binding class name: Message

Dictionary key name: message

reserved

Type: `cybox.common.properties.Long`

XML Binding class name: Reserved

Dictionary key name: reserved

source

Type: `cybox.common.properties.String`

XML Binding class name: Source

Dictionary key name: source

type

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

unformatted_message_list

Type: `cybox.objects.win_event_log_object.UnformattedMessageList`

XML Binding class name: Unformatted_Message_List

Dictionary key name: unformatted_message_list

user

Type: `cybox.common.properties.String`

XML Binding class name: User

Dictionary key name: user

write_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Write_Time`

Dictionary key name: `write_time`

Version: 2.1.0.11

cybox.objects.win_event_object module

class `cybox.objects.win_event_object.WinEvent`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_event_object.WindowsEventObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: `handle`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_executable_file_object module

class `cybox.objects.win_executable_file_object.DOSHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.DOSHeaderType`

e_cblp

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_cblp`

Dictionary key name: `e_cblp`

e_cp

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cp`
Dictionary key name: `e_cp`

e_cparhdr

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cparhdr`
Dictionary key name: `e_cparhdr`

e_crlc

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_crlc`
Dictionary key name: `e_crlc`

e_cs

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cs`
Dictionary key name: `e_cs`

e_csum

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_csum`
Dictionary key name: `e_csum`

e_ip

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_ip`
Dictionary key name: `e_ip`

e_lfanew

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_lfanew`
Dictionary key name: `e_lfanew`

e_lfarlc

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_lfarlc`
Dictionary key name: `e_lfarlc`

e_magic

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_magic`
Dictionary key name: `e_magic`

e_maxalloc

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_maxalloc`

Dictionary key name: `e_maxalloc`

e_minalloc

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_minalloc`

Dictionary key name: `e_minalloc`

e_oemid

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_oemid`

Dictionary key name: `e_oemid`

e_oeminfo

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_oeminfo`

Dictionary key name: `e_oeminfo`

e_ovro

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_ovro`

Dictionary key name: `e_ovro`

e_sp

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_sp`

Dictionary key name: `e_sp`

e_ss

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_ss`

Dictionary key name: `e_ss`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Hashes`

Dictionary key name: `hashes`

reserved2

Type: `cybox.common.properties.HexBinary`

XML Binding class name: reserved2

Dictionary key name: reserved2

class cybox.objects.win_executable_file_object.**DataDirectory**

Bases: cybox.Entity

XML binding class: cybox.bindings.win_executable_file_object.DataDirectoryType

architecture

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: Architecture

Dictionary key name: architecture

base_relocation_table

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: Base_Relocation_Table

Dictionary key name: base_relocation_table

bound_import

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: Bound_Import

Dictionary key name: bound_import

certificate_table

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: Certificate_Table

Dictionary key name: certificate_table

clr_runtime_header

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: CLR_Runtime_Header

Dictionary key name: clr_runtime_header

debug

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: Debug

Dictionary key name: debug

delay_import_descriptor

Type: cybox.objects.win_executable_file_object.PEDataDirectoryStruct

XML Binding class name: Delay_Import_Descriptor

Dictionary key name: delay_import_descriptor

exception_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Exception_Table`

Dictionary key name: `exception_table`

export_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Export_Table`

Dictionary key name: `export_table`

global_ptr

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Global_Ptr`

Dictionary key name: `global_ptr`

import_address_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Import_Address_Table`

Dictionary key name: `import_address_table`

import_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Import_Table`

Dictionary key name: `import_table`

load_config_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Load_Config_Table`

Dictionary key name: `load_config_table`

reserved

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Reserved`

Dictionary key name: `reserved`

resource_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Resource_Table`

Dictionary key name: `resource_table`

tls_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Tls_Table

Dictionary key name: tls_table

class cybox.objects.win_executable_file_object.**Entropy**

Bases: cybox.Entity

XML binding class: cybox.bindings.win_executable_file_object.EntropyType

max

Type: cybox.common.properties.Float

XML Binding class name: Max

Dictionary key name: max

min

Type: cybox.common.properties.Float

XML Binding class name: Min

Dictionary key name: min

value

Type: cybox.common.properties.Float

XML Binding class name: Value

Dictionary key name: value

class cybox.objects.win_executable_file_object.**PEBuildInformation**

Bases: cybox.Entity

XML binding class:

cybox.bindings.win_executable_file_object.PEBuildInformationType

compiler_name

Type: cybox.common.properties.String

XML Binding class name: Compiler_Name

Dictionary key name: compiler_name

compiler_version

Type: cybox.common.properties.String

XML Binding class name: Compiler_Version

Dictionary key name: compiler_version

linker_name

Type: cybox.common.properties.String

XML Binding class name: Linker_Name

Dictionary key name: linker_name

linker_version

Type: `cybox.common.properties.String`

XML Binding class name: Linker_Version

Dictionary key name: linker_version

class `cybox.objects.win_executable_file_object.PEChecksum`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEChecksumType`

pe_computed_api

Type: `cybox.common.properties.Long`

XML Binding class name: PE_Computed_API

Dictionary key name: pe_computed_api

pe_file_api

Type: `cybox.common.properties.Long`

XML Binding class name: PE_File_API

Dictionary key name: pe_file_api

pe_file_raw

Type: `cybox.common.properties.Long`

XML Binding class name: PE_File_Raw

Dictionary key name: pe_file_raw

class `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEDataDirectoryStructType`

size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Size

Dictionary key name: size

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Virtual_Address

Dictionary key name: virtual_address

class `cybox.objects.win_executable_file_object.PEExportedFunction`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.win_executable_file_object.PEExportedFunctionType`

entry_point

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Entry_Point`
Dictionary key name: `entry_point`

function_name

Type: `cybox.common.properties.String`
XML Binding class name: `Function_Name`
Dictionary key name: `function_name`

ordinal

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Ordinal`
Dictionary key name: `ordinal`

class `cybox.objects.win_executable_file_object.PEExportedFunctions` (*args)
Bases: `cybox.EntityList`

XML binding class:
`cybox.bindings.win_executable_file_object.PEExportedFunctionsType`

class `cybox.objects.win_executable_file_object.PEExports`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEExportsType`

exported_functions

Type: `cybox.objects.win_executable_file_object.PEExportedFunctions`
XML Binding class name: `Exported_Functions`
Dictionary key name: `exported_functions`

exports_time_stamp

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Exports_Time_Stamp`
Dictionary key name: `exports_time_stamp`

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

number_of_addresses

Type: `cybox.common.properties.Long`

XML Binding class name: Number_Of_Addresses

Dictionary key name: number_of_addresses

number_of_functions

Type: `cybox.common.properties.Integer`

XML Binding class name: Number_Of_Functions

Dictionary key name: number_of_functions

number_of_names

Type: `cybox.common.properties.Long`

XML Binding class name: Number_Of_Names

Dictionary key name: number_of_names

class `cybox.objects.win_executable_file_object.PEFileHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEFileHeaderType`

characteristics

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Characteristics

Dictionary key name: characteristics

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

machine

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Machine

Dictionary key name: machine

number_of_sections

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Number_Of_Sections`
Dictionary key name: `number_of_sections`

number_of_symbols

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Number_Of_Symbols`
Dictionary key name: `number_of_symbols`

pointer_to_symbol_table

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Pointer_To_Symbol_Table`
Dictionary key name: `pointer_to_symbol_table`

size_of_optional_header

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Size_Of_Optional_Header`
Dictionary key name: `size_of_optional_header`

time_date_stamp

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Time_Date_Stamp`
Dictionary key name: `time_date_stamp`

class `cybox.objects.win_executable_file_object.PEHeaders`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEHeadersType`

dos_header

Type: `cybox.objects.win_executable_file_object.DOSHeader`
XML Binding class name: `DOS_Header`
Dictionary key name: `dos_header`

entropy

Type: `cybox.objects.win_executable_file_object.Entropy`
XML Binding class name: `Entropy`
Dictionary key name: `entropy`

file_header

Type: `cybox.objects.win_executable_file_object.PEFileHeader`
XML Binding class name: `File_Header`

Dictionary key name: file_header

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

optional_header

Type: `cybox.objects.win_executable_file_object.PEOptionalHeader`

XML Binding class name: Optional_Header

Dictionary key name: optional_header

signature

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Signature

Dictionary key name: signature

class `cybox.objects.win_executable_file_object.PEImport`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEImportType`

delay_load

XML Binding class name: delay_load

Dictionary key name: delay_load

file_name

Type: `cybox.common.properties.String`

XML Binding class name: File_Name

Dictionary key name: file_name

imported_functions

Type: `cybox.objects.win_executable_file_object.PEImportedFunctions`

XML Binding class name: Imported_Functions

Dictionary key name: imported_functions

initially_visible

XML Binding class name: initially_visible

Dictionary key name: initially_visible

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Virtual_Address

Dictionary key name: virtual_address

class cybox.objects.win_executable_file_object.**PEImportList** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.win_executable_file_object.PEImportListType

class cybox.objects.win_executable_file_object.**PEImportedFunction**
Bases: cybox.Entity

XML binding class:

cybox.bindings.win_executable_file_object.PEImportedFunctionType

bound

Type: cybox.common.properties.HexBinary

XML Binding class name: Bound

Dictionary key name: bound

function_name

Type: cybox.common.properties.String

XML Binding class name: Function_Name

Dictionary key name: function_name

hint

Type: cybox.common.properties.HexBinary

XML Binding class name: Hint

Dictionary key name: hint

ordinal

Type: cybox.common.properties.NonNegativeInteger

XML Binding class name: Ordinal

Dictionary key name: ordinal

virtual_address

Type: cybox.common.properties.HexBinary

XML Binding class name: Virtual_Address

Dictionary key name: virtual_address

class cybox.objects.win_executable_file_object.**PEImportedFunctions** (*args)
Bases: cybox.EntityList

XML binding class:

`cybox.bindings.win_executable_file_object.PEImportedFunctionsType`

class `cybox.objects.win_executable_file_object.PEOptionalHeader`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEOptionalHeaderType`

address_of_entry_point

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Address_Of_Entry_Point`

Dictionary key name: `address_of_entry_point`

base_of_code

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Base_Of_Code`

Dictionary key name: `base_of_code`

base_of_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Base_Of_Data`

Dictionary key name: `base_of_data`

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Checksum`

Dictionary key name: `checksum`

data_directory

Type: `cybox.objects.win_executable_file_object.DataDirectory`

XML Binding class name: `Data_Directory`

Dictionary key name: `data_directory`

dll_characteristics

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `DLL_Characteristics`

Dictionary key name: `dll_characteristics`

file_alignment

Type: `cybox.common.properties.HexBinary`

XML Binding class name: File_Alignment

Dictionary key name: file_alignment

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

image_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Image_Base

Dictionary key name: image_base

loader_flags

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Loader_Flags

Dictionary key name: loader_flags

magic

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Magic

Dictionary key name: magic

major_image_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Major_Image_Version

Dictionary key name: major_image_version

major_linker_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Major_Linker_Version

Dictionary key name: major_linker_version

major_os_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Major_OS_Version

Dictionary key name: major_os_version

major_subsystem_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Major_Subsystem_Version

Dictionary key name: major_subsystem_version

minor_image_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Minor_Image_Version`

Dictionary key name: `minor_image_version`

minor_linker_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Minor_Linker_Version`

Dictionary key name: `minor_linker_version`

minor_os_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Minor_OS_Version`

Dictionary key name: `minor_os_version`

minor_subsystem_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Minor_Subsystem_Version`

Dictionary key name: `minor_subsystem_version`

number_of_rva_and_sizes

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Number_Of_Rva_And_Sizes`

Dictionary key name: `number_of_rva_and_sizes`

section_alignment

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Section_Alignment`

Dictionary key name: `section_alignment`

size_of_code

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Code`

Dictionary key name: `size_of_code`

size_of_headers

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Headers`

Dictionary key name: `size_of_headers`

size_of_heap_commit

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Heap_Commit

Dictionary key name: size_of_heap_commit

size_of_heap_reserve

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Heap_Reserve

Dictionary key name: size_of_heap_reserve

size_of_image

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Image

Dictionary key name: size_of_image

size_of_initialized_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Initialized_Data

Dictionary key name: size_of_initialized_data

size_of_stack_commit

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Stack_Commit

Dictionary key name: size_of_stack_commit

size_of_stack_reserve

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Stack_Reserve

Dictionary key name: size_of_stack_reserve

size_of_uninitialized_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Size_Of_Uninitialized_Data

Dictionary key name: size_of_uninitialized_data

subsystem

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Subsystem

Dictionary key name: subsystem

win32_version_value

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Win32_Version_Value

Dictionary key name: win32_version_value

class `cybox.objects.win_executable_file_object.PEResource`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEResourceType`

data

Type: `cybox.common.properties.String`

XML Binding class name: `Data`

Dictionary key name: `data`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Hashes`

Dictionary key name: `hashes`

language

Type: `cybox.common.properties.String`

XML Binding class name: `Language`

Dictionary key name: `language`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

size

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Size`

Dictionary key name: `size`

sub_language

Type: `cybox.common.properties.String`

XML Binding class name: `Sub_Language`

Dictionary key name: `sub_language`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Virtual_Address`

Dictionary key name: `virtual_address`

class `cybox.objects.win_executable_file_object.PEResourceList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_executable_file_object.PEResourceListType`

static from_list (*pe_resource_list*)

class `cybox.objects.win_executable_file_object.PESection`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PESectionType`

data_hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Data_Hashes`

Dictionary key name: `data_hashes`

entropy

Type: `cybox.objects.win_executable_file_object.Entropy`

XML Binding class name: `Entropy`

Dictionary key name: `entropy`

header_hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Header_Hashes`

Dictionary key name: `header_hashes`

section_header

Type: `cybox.objects.win_executable_file_object.PESectionHeaderStruct`

XML Binding class name: `Section_Header`

Dictionary key name: `section_header`

class `cybox.objects.win_executable_file_object.PESectionHeaderStruct`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PESectionHeaderStructType`

characteristics

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Characteristics`

Dictionary key name: `characteristics`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

number_of_linenumbers

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number_Of_Linenumbers`

Dictionary key name: `number_of_linenumbers`

number_of_relocations

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number_Of_Relocations`

Dictionary key name: `number_of_relocations`

pointer_to_linenumbers

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer_To_Linenumbers`

Dictionary key name: `pointer_to_linenumbers`

pointer_to_raw_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer_To_Raw_Data`

Dictionary key name: `pointer_to_raw_data`

pointer_to_relocations

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer_To_Relocations`

Dictionary key name: `pointer_to_relocations`

size_of_raw_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Raw_Data`

Dictionary key name: `size_of_raw_data`

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Virtual_Address

Dictionary key name: virtual_address

virtual_size

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Virtual_Size

Dictionary key name: virtual_size

class `cybox.objects.win_executable_file_object.PESectionList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_executable_file_object.PESectionListType`

class `cybox.objects.win_executable_file_object.PEVersionInfoResource`

Bases: `cybox.objects.win_executable_file_object.PEResource`

XML binding class:

`cybox.bindings.win_executable_file_object.PEVersionInfoResourceType`

comments

Type: `cybox.common.properties.String`

XML Binding class name: Comments

Dictionary key name: comments

companyname

Type: `cybox.common.properties.String`

XML Binding class name: CompanyName

Dictionary key name: companyname

filedescription

Type: `cybox.common.properties.String`

XML Binding class name: FileDescription

Dictionary key name: filedescription

fileversion

Type: `cybox.common.properties.String`

XML Binding class name: FileVersion

Dictionary key name: fileversion

internalname

Type: `cybox.common.properties.String`

XML Binding class name: InternalName

Dictionary key name: `internalname`

static keyword_test (*pe_resource_dict*)

langid

Type: `cybox.common.properties.String`

XML Binding class name: `LangID`

Dictionary key name: `langid`

legalcopyright

Type: `cybox.common.properties.String`

XML Binding class name: `LegalCopyright`

Dictionary key name: `legalcopyright`

legaltrademarks

Type: `cybox.common.properties.String`

XML Binding class name: `LegalTrademarks`

Dictionary key name: `legaltrademarks`

originalfilename

Type: `cybox.common.properties.String`

XML Binding class name: `OriginalFilename`

Dictionary key name: `originalfilename`

privatebuild

Type: `cybox.common.properties.String`

XML Binding class name: `PrivateBuild`

Dictionary key name: `privatebuild`

productname

Type: `cybox.common.properties.String`

XML Binding class name: `ProductName`

Dictionary key name: `productname`

productversion

Type: `cybox.common.properties.String`

XML Binding class name: `ProductVersion`

Dictionary key name: `productversion`

specialbuild

Type: `cybox.common.properties.String`

XML Binding class name: `SpecialBuild`

Dictionary key name: `specialbuild`

class `cybox.objects.win_executable_file_object.WinExecutableFile`
Bases: `cybox.objects.win_file_object.WinFile`

XML binding class:

`cybox.bindings.win_executable_file_object.WindowsExecutableFileObjectType`

build_information

Type: `cybox.objects.win_executable_file_object.PEBuildInformation`

XML Binding class name: `Build_Information`

Dictionary key name: `build_information`

digital_signature

Type: `cybox.common.digitalsignature.DigitalSignature`

XML Binding class name: `Digital_Signature`

Dictionary key name: `digital_signature`

exports

Type: `cybox.objects.win_executable_file_object.PEExports`

XML Binding class name: `Exports`

Dictionary key name: `exports`

extraneous_bytes

Type: `cybox.common.properties.Integer`

XML Binding class name: `Extraneous_Bytes`

Dictionary key name: `extraneous_bytes`

headers

Type: `cybox.objects.win_executable_file_object.PEHeaders`

XML Binding class name: `Headers`

Dictionary key name: `headers`

imports

Type: `cybox.objects.win_executable_file_object.PEImportList`

XML Binding class name: `Imports`

Dictionary key name: `imports`

pe_checksum

Type: `cybox.objects.win_executable_file_object.PEChecksum`

XML Binding class name: `PE_Checksum`

Dictionary key name: `pe_checksum`

resources

Type: `cybox.objects.win_executable_file_object.PEResourceList`

XML Binding class name: Resources

Dictionary key name: resources

sections

Type: `cybox.objects.win_executable_file_object.PESectionList`

XML Binding class name: Sections

Dictionary key name: sections

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

Version: 2.1.0.11

cybox.objects.win_file_object module

class `cybox.objects.win_file_object.Stream`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_file_object.StreamObjectType`

hashes

(List of values permitted)

Type: `cybox.common.hashes.Hash`

XML Binding class name: Hash

Dictionary key name: hashes

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

size_in_bytes

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Size_In_Bytes

Dictionary key name: size_in_bytes

class `cybox.objects.win_file_object.StreamList (*args)`

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_file_object.StreamListType`

class `cybox.objects.win_file_object.WinFile`

Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.win_file_object.WindowsFileObjectType`

drive

Type: `cybox.common.properties.String`

XML Binding class name: `Drive`

Dictionary key name: `drive`

file_attributes_list

Type: `cybox.objects.win_file_object.WindowsFileAttributes`

XML Binding class name: `File_Attributes_List`

Dictionary key name: `file_attributes_list`

filename_accessed_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Filename_Accessed_Time`

Dictionary key name: `filename_accessed_time`

filename_created_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Filename_Created_Time`

Dictionary key name: `filename_created_time`

filename_modified_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Filename_Modified_Time`

Dictionary key name: `filename_modified_time`

privilege_list

Type: `cybox.objects.win_file_object.WindowsFilePermissions`

XML Binding class name: `Permissions`

Dictionary key name: `permissions`

security_id

Type: `cybox.common.properties.String`

XML Binding class name: `Security_ID`

Dictionary key name: `security_id`

security_type

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Type`
Dictionary key name: `security_type`

stream_list

Type: `cybox.objects.win_file_object.StreamList`
XML Binding class name: `Stream_List`
Dictionary key name: `stream_list`

class `cybox.objects.win_file_object.WindowsFileAttribute` (*value=None*)
Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.win_file_object.WindowsFileAttributeType`

class `cybox.objects.win_file_object.WindowsFileAttributes` (**args*)
Bases: `cybox.objects.file_object.FileAttribute`, `cybox.EntityList`

XML binding class: `cybox.bindings.win_file_object.WindowsFileAttributesType`

class `cybox.objects.win_file_object.WindowsFilePermissions`
Bases: `cybox.objects.file_object.FilePermissions`, `cybox.Entity`

XML binding class: `cybox.bindings.win_file_object.WindowsFilePermissionsType`

full_control

XML Binding class name: `Full_Control`
Dictionary key name: `full_control`

modify

XML Binding class name: `Modify`
Dictionary key name: `modify`

read

XML Binding class name: `Read`
Dictionary key name: `read`

read_and_execute

XML Binding class name: `Read_And_Execute`
Dictionary key name: `read_and_execute`

write

XML Binding class name: Write

Dictionary key name: write

Version: 2.1.0.11

cybox.objects.win_filemapping_object module

class cybox.objects.win_filemapping_object.**WinFilemapping**

Bases: cybox.common.object_properties.ObjectProperties

XML binding class:

cybox.bindings.win_filemapping_object.WindowsFilemappingObjectType

actual_size

Type: cybox.common.properties.UnsignedLong

XML Binding class name: Actual_Size

Dictionary key name: actual_size

file_handle

Type: cybox.objects.win_handle_object.WinHandle

XML Binding class name: File_Handle

Dictionary key name: file_handle

handle

Type: cybox.objects.win_handle_object.WinHandle

XML Binding class name: Handle

Dictionary key name: handle

maximum_size

Type: cybox.common.properties.UnsignedLong

XML Binding class name: Maximum_Size

Dictionary key name: maximum_size

name

Type: cybox.common.properties.String

XML Binding class name: Name

Dictionary key name: name

page_protection_attribute

(List of values permitted)

Type: cybox.common.properties.String

XML Binding class name: Page_Protection_Attribute

Dictionary key name: page_protection_attribute

page_protection_value

Type: `cybox.common.properties.String`
XML Binding class name: `Page_Protection_Value`
Dictionary key name: `page_protection_value`

security_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Attributes`
Dictionary key name: `security_attributes`

Version: 2.1.0.11

cybox.objects.win_handle_object module

class `cybox.objects.win_handle_object.WinHandle`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_handle_object.WindowsHandleObjectType`

access_mask

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Access_Mask`
Dictionary key name: `access_mask`

id_

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `ID`
Dictionary key name: `id`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

object_address

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Object_Address`
Dictionary key name: `object_address`

pointer_count

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Pointer_Count`
Dictionary key name: `pointer_count`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

class `cybox.objects.win_handle_object.WinHandleList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_handle_object.WindowsHandleListType`

Version: 2.1.0.11

cybox.objects.win_hook_object module

class `cybox.objects.win_hook_object.WinHook`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_hook_object.WindowsHookObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: `handle`

hooking_function_name

Type: `cybox.common.properties.String`

XML Binding class name: `Hooking_Function_Name`

Dictionary key name: `hooking_function_name`

hooking_module

Type: `cybox.objects.library_object.Library`

XML Binding class name: `Hooking_Module`

Dictionary key name: `hooking_module`

thread_id

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Thread_ID`

Dictionary key name: `thread_id`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: type

Version: 2.1.0.11

cybox.objects.win_kernel_object module

class cybox.objects.win_kernel_object.IDTEntry

Bases: cybox.Entity

XML binding class: cybox.bindings.win_kernel_object.IDTEntryType

offset_high

Type: cybox.common.properties.HexBinary

XML Binding class name: Offset_High

Dictionary key name: offset_high

offset_low

Type: cybox.common.properties.HexBinary

XML Binding class name: Offset_Low

Dictionary key name: offset_low

offset_middle

Type: cybox.common.properties.HexBinary

XML Binding class name: Offset_Middle

Dictionary key name: offset_middle

selector

Type: cybox.common.properties.HexBinary

XML Binding class name: Selector

Dictionary key name: selector

type_attr

Type: cybox.common.properties.HexBinary

XML Binding class name: Type_Attr

Dictionary key name: type_attr

class cybox.objects.win_kernel_object.IDTEntryList (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.win_kernel_object.IDTEntryListType

class cybox.objects.win_kernel_object.SSDTEntry

Bases: cybox.Entity

XML binding class: `cybox.bindings.win_kernel_object.SSDTEntryType`

argument_table_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Argument_Table_Base`

Dictionary key name: `argument_table_base`

hooked

XML Binding class name: `hooked`

Dictionary key name: `hooked`

number_of_services

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number_Of_Services`

Dictionary key name: `number_of_services`

service_counter_table_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Service_Counter_Table_Base`

Dictionary key name: `service_counter_table_base`

service_table_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Service_Table_Base`

Dictionary key name: `service_table_base`

class `cybox.objects.win_kernel_object.SSDTEntryList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_kernel_object.SSDTEntryListType`

class `cybox.objects.win_kernel_object.WinKernel`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_kernel_object.WindowsKernelObjectType`

idt

Type: `cybox.objects.win_kernel_object.IDTEntryList`

XML Binding class name: `IDT`

Dictionary key name: `idt`

ssdt

Type: `cybox.objects.win_kernel_object.SSDTEntryList`

XML Binding class name: `SSDT`

Dictionary key name: `ssdt`

Version: 2.1.0.11

cybox.objects.win_kernel_hook_object module

class `cybox.objects.win_kernel_hook_object.WinKernelHook`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_kernel_hook_object.WindowsKernelHookObjectType`

digital_signature_hooked

Type: `cybox.common.digitalsignature.DigitalSignature`

XML Binding class name: `Digital_Signature_Hooked`

Dictionary key name: `digital_signature_hooked`

digital_signature_hooking

Type: `cybox.common.digitalsignature.DigitalSignature`

XML Binding class name: `Digital_Signature_Hooking`

Dictionary key name: `digital_signature_hooking`

hook_description

Type: `cybox.common.properties.String`

XML Binding class name: `Hook_Description`

Dictionary key name: `hook_description`

hooked_function

Type: `cybox.common.properties.String`

XML Binding class name: `Hooked_Function`

Dictionary key name: `hooked_function`

hooked_module

Type: `cybox.common.properties.String`

XML Binding class name: `Hooked_Module`

Dictionary key name: `hooked_module`

hooking_address

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Hooking_Address`

Dictionary key name: hooking_address

hooking_module

Type: `cybox.common.properties.String`

XML Binding class name: `Hooking_Module`

Dictionary key name: `hooking_module`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_mailslot_object module

class `cybox.objects.win_mailslot_object.WinMailslot`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_mailslot_object.WindowsMailslotObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: `handle`

max_message_size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Max_Message_Size`

Dictionary key name: `max_message_size`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

read_timeout

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Read_Timeout`

Dictionary key name: `read_timeout`

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Attributes`

Dictionary key name: security_attributes

Version: 2.1.0.11

cybox.objects.win_memory_page_region_object module

class cybox.objects.win_memory_page_region_object.**WinMemoryPageRegion**

Bases: cybox.objects.memory_object.Memory

XML binding class:

cybox.bindings.win_memory_page_region_object.WindowsMemoryPageRegionObjectType

allocation_base_address

Type: cybox.common.properties.HexBinary

XML Binding class name: Allocation_Base_Address

Dictionary key name: allocation_base_address

allocation_protect

Type: cybox.common.properties.String

XML Binding class name: Allocation_Protect

Dictionary key name: allocation_protect

block_type

Type: cybox.common.properties.String

XML Binding class name: Block_Type

Dictionary key name: block_type

extracted_features

Type: cybox.common.extracted_features.ExtractedFeatures

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

hashes

Type: cybox.common.hashes.HashList

XML Binding class name: Hashes

Dictionary key name: hashes

is_injected

XML Binding class name: is_injected

Dictionary key name: is_injected

is_mapped

XML Binding class name: is_mapped

Dictionary key name: is_mapped

is_protected

XML Binding class name: `is_protected`

Dictionary key name: `is_protected`

is_volatile

XML Binding class name: `is_volatile`

Dictionary key name: `is_volatile`

memory_source

Type: `cybox.common.properties.String`

XML Binding class name: `Memory_Source`

Dictionary key name: `memory_source`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

protect

Type: `cybox.common.properties.String`

XML Binding class name: `Protect`

Dictionary key name: `protect`

region_end_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Region_End_Address`

Dictionary key name: `region_end_address`

region_size

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Region_Size`

Dictionary key name: `region_size`

region_start_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Region_Start_Address`

Dictionary key name: `region_start_address`

state

Type: `cybox.common.properties.String`

XML Binding class name: `State`

Dictionary key name: `state`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_mutex_object module

class `cybox.objects.win_mutex_object.WinMutex`

Bases: `cybox.objects.mutex_object.Mutex`

XML binding class: `cybox.bindings.win_mutex_object.WindowsMutexObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: `handle`

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Attributes`

Dictionary key name: `security_attributes`

Version: 2.1.0.11

cybox.objects.win_network_route_entry_object module

class `cybox.objects.win_network_route_entry_object.WinNetworkRouteEntry`

Bases: `cybox.objects.network_route_entry_object.NetworkRouteEntry`

XML binding class:

`cybox.bindings.win_network_route_entry_object.WindowsNetworkRouteEntryObjectType`

nl_route_origin

Type: `cybox.common.properties.String`

XML Binding class name: `NL_ROUTE_ORIGIN`

Dictionary key name: `nl_route_origin`

nl_route_protocol

Type: `cybox.common.properties.String`

XML Binding class name: `NL_ROUTE_PROTOCOL`

Dictionary key name: `nl_route_protocol`

Version: 2.1.0.11

cybox.objects.win_network_share_object module

class cybox.objects.win_network_share_object.**WinNetworkShare**

Bases: cybox.common.object_properties.ObjectProperties

XML binding class:

cybox.bindings.win_network_share_object.WindowsNetworkShareObjectType

access_all

XML Binding class name: ACCESS_ALL

Dictionary key name: access_all

access_atrib

XML Binding class name: ACCESS_ATRIB

Dictionary key name: access_atrib

access_create

XML Binding class name: ACCESS_CREATE

Dictionary key name: access_create

access_delete

XML Binding class name: ACCESS_DELETE

Dictionary key name: access_delete

access_exec

XML Binding class name: ACCESS_EXEC

Dictionary key name: access_exec

access_perm

XML Binding class name: ACCESS_PERM

Dictionary key name: access_perm

access_read

XML Binding class name: ACCESS_READ

Dictionary key name: access_read

access_write

XML Binding class name: ACCESS_WRITE

Dictionary key name: access_write

current_uses

Type: cybox.common.properties.NonNegativeInteger

XML Binding class name: Current_Uses

Dictionary key name: current_uses

local_path

Type: `cybox.common.properties.String`

XML Binding class name: Local_Path

Dictionary key name: local_path

max_uses

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Max_Uses

Dictionary key name: max_uses

netname

Type: `cybox.common.properties.String`

XML Binding class name: Netname

Dictionary key name: netname

type

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

Version: 2.1.0.11

cybox.objects.win_pipe_object module

class `cybox.objects.win_pipe_object.WinPipe`

Bases: `cybox.objects.pipe_object.Pipe`

XML binding class: `cybox.bindings.win_pipe_object.WindowsPipeObjectType`

default_time_out

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Default_Time_Out

Dictionary key name: default_time_out

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: Handle

Dictionary key name: handle

in_buffer_size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: In_Buffer_Size

Dictionary key name: in_buffer_size

max_instances

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Max_Instances

Dictionary key name: max_instances

open_mode

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Open_Mode

Dictionary key name: open_mode

out_buffer_size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Out_Buffer_Size

Dictionary key name: out_buffer_size

pipe_mode

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Pipe_Mode

Dictionary key name: pipe_mode

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: Security_Attributes

Dictionary key name: security_attributes

Version: 2.1.0.11

cybox.objects.win_prefetch_object module

class `cybox.objects.win_prefetch_object.AccessedDirectoryList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_prefetch_object.AccessedDirectoryListType`

class `cybox.objects.win_prefetch_object.AccessedFileList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_prefetch_object.AccessedFileListType`

class `cybox.objects.win_prefetch_object.Volume` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_prefetch_object.VolumeType`

deviceitem

Type: `cybox.objects.device_object.Device`

XML Binding class name: `DeviceItem`

Dictionary key name: `deviceitem`

volumeitem

Type: `cybox.objects.win_volume_object.WinVolume`

XML Binding class name: `VolumeItem`

Dictionary key name: `volumeitem`

class `cybox.objects.win_prefetch_object.WinPrefetch`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_prefetch_object.WindowsPrefetchObjectType`

accessed_directory_list

Type: `cybox.objects.win_prefetch_object.AccessedDirectoryList`

XML Binding class name: `Accessed_Directory_List`

Dictionary key name: `accessed_directory_list`

accessed_file_list

Type: `cybox.objects.win_prefetch_object.AccessedFileList`

XML Binding class name: `Accessed_File_List`

Dictionary key name: `accessed_file_list`

application_file_name

Type: `cybox.common.properties.String`

XML Binding class name: `Application_File_Name`

Dictionary key name: `application_file_name`

first_run

Type: `cybox.common.properties.DateTime`

XML Binding class name: `First_Run`

Dictionary key name: `first_run`

last_run

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Last_Run`

Dictionary key name: `last_run`

prefetch_hash

Type: `cybox.common.properties.String`

XML Binding class name: Prefetch_Hash

Dictionary key name: prefetch_hash

times_executed

Type: `cybox.common.properties.Long`

XML Binding class name: Times_Executed

Dictionary key name: times_executed

volume

Type: `cybox.objects.win_volume_object.WinVolume`

XML Binding class name: Volume

Dictionary key name: volume

Version: 2.1.0.11

cybox.objects.win_process_object module

class `cybox.objects.win_process_object.MemorySectionList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_process_object.MemorySectionListType`

class `cybox.objects.win_process_object.StartupInfo`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_process_object.StartupInfoType`

dwfillattribute

Type: `cybox.common.properties.Integer`

XML Binding class name: dwFillAttribute

Dictionary key name: dwfillattribute

dwflags

Type: `cybox.common.properties.Integer`

XML Binding class name: dwFlags

Dictionary key name: dwflags

dwX

Type: `cybox.common.properties.Integer`

XML Binding class name: dwX

Dictionary key name: dwx

dwxcntchars

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwXCountChars`

Dictionary key name: `dwxcntchars`

dwysize

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwXSize`

Dictionary key name: `dwysize`

dwy

Type: `cybox.common.properties.Integer`

XML Binding class name: `dwY`

Dictionary key name: `dwy`

dwycntchars

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwYCountChars`

Dictionary key name: `dwycntchars`

dwysize

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwYSize`

Dictionary key name: `dwysize`

hstderror

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `hStdError`

Dictionary key name: `hstderror`

hstdinput

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `hStdInput`

Dictionary key name: `hstdinput`

hstdoutput

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `hStdOutput`

Dictionary key name: `hstdoutput`

lpdesktop

Type: `cybox.common.properties.String`
XML Binding class name: `lpDesktop`
Dictionary key name: `lpdesktop`

lpTitle

Type: `cybox.common.properties.String`
XML Binding class name: `lpTitle`
Dictionary key name: `lpTitle`

wShowWindow

Type: `cybox.common.properties.Integer`
XML Binding class name: `wShowWindow`
Dictionary key name: `wshowwindow`

class `cybox.objects.win_process_object.WinProcess`

Bases: `cybox.objects.process_object.Process`

XML binding class: `cybox.bindings.win_process_object.WindowsProcessObjectType`

aslr_enabled

XML Binding class name: `aslr_enabled`
Dictionary key name: `aslr_enabled`

dep_enabled

XML Binding class name: `dep_enabled`
Dictionary key name: `dep_enabled`

handle_list

Type: `cybox.objects.win_handle_object.WinHandleList`
XML Binding class name: `Handle_List`
Dictionary key name: `handle_list`

priority

Type: `cybox.common.properties.String`
XML Binding class name: `Priority`
Dictionary key name: `priority`

section_list

Type: `cybox.objects.win_process_object.MemorySectionList`
XML Binding class name: `Section_List`
Dictionary key name: `section_list`

security_id

Type: `cybox.common.properties.String`

XML Binding class name: `Security_ID`

Dictionary key name: `security_id`

security_type

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Type`

Dictionary key name: `security_type`

startup_info

Type: `cybox.objects.win_process_object.StartupInfo`

XML Binding class name: `Startup_Info`

Dictionary key name: `startup_info`

thread

(List of values permitted)

Type: `cybox.objects.win_thread_object.WinThread`

XML Binding class name: `Thread`

Dictionary key name: `thread`

window_title

Type: `cybox.common.properties.String`

XML Binding class name: `Window_Title`

Dictionary key name: `window_title`

Version: 2.1.0.11

cybox.objects.win_registry_key_object module

class `cybox.objects.win_registry_key_object.RegistrySubkeys` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_registry_key_object.RegistrySubkeysType`

class `cybox.objects.win_registry_key_object.RegistryValue`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_registry_key_object.RegistryValueType`

byte_runs

Type: `cybox.common.byterun.ByteRuns`

XML Binding class name: Byte_Runs

Dictionary key name: byte_runs

data

Type: `cybox.common.properties.String`

XML Binding class name: Data

Dictionary key name: data

datatype

Type: `cybox.common.properties.String`

XML Binding class name: Datatype

Dictionary key name: datatype

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

class `cybox.objects.win_registry_key_object.RegistryValues` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_registry_key_object.RegistryValuesType`

class `cybox.objects.win_registry_key_object.WinRegistryKey`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_registry_key_object.WindowsRegistryKeyObjectType`

byte_runs

Type: `cybox.common.byterun.ByteRuns`

XML Binding class name: Byte_Runs

Dictionary key name: byte_runs

creator_username

Type: `cybox.common.properties.String`

XML Binding class name: Creator_Username

Dictionary key name: creator_username

handle_list

Type: `cybox.objects.win_handle_object.WinHandleList`

XML Binding class name: Handle_List

Dictionary key name: handle_list

hive

Type: `cybox.common.properties.String`

XML Binding class name: Hive

Dictionary key name: hive

key

Type: `cybox.common.properties.String`

XML Binding class name: Key

Dictionary key name: key

modified_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Modified_Time

Dictionary key name: modified_time

number_subkeys

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: Number_Subkeys

Dictionary key name: number_subkeys

number_values

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: Number_Values

Dictionary key name: number_values

subkeys

Type: `cybox.objects.win_registry_key_object.RegistrySubkeys`

XML Binding class name: Subkeys

Dictionary key name: subkeys

values

Type: `cybox.objects.win_registry_key_object.RegistryValues`

XML Binding class name: Values

Dictionary key name: values

Version: 2.1.0.11

cybox.objects.win_service_object module

class `cybox.objects.win_service_object.ServiceDescriptionList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_service_object.ServiceDescriptionListType`

class `cybox.objects.win_service_object.WinService`
Bases: `cybox.objects.win_process_object.WinProcess`

XML binding class: `cybox.bindings.win_service_object.WindowsServiceObjectType`

description_list

Type: `cybox.objects.win_service_object.ServiceDescriptionList`
XML Binding class name: `Description_List`
Dictionary key name: `description_list`

display_name

Type: `cybox.common.properties.String`
XML Binding class name: `Display_Name`
Dictionary key name: `display_name`

group_name

Type: `cybox.common.properties.String`
XML Binding class name: `Group_Name`
Dictionary key name: `group_name`

service_dll

Type: `cybox.common.properties.String`
XML Binding class name: `Service_DLL`
Dictionary key name: `service_dll`

service_dll_certificate_issuer

Type: `cybox.common.properties.String`
XML Binding class name: `Service_DLL_Certificate_Issuer`
Dictionary key name: `service_dll_certificate_issuer`

service_dll_certificate_subject

Type: `cybox.common.properties.String`
XML Binding class name: `Service_DLL_Certificate_Subject`
Dictionary key name: `service_dll_certificate_subject`

service_dll_hashes

Type: `cybox.common.hashes.HashList`
XML Binding class name: `Service_DLL_Hashes`
Dictionary key name: `service_dll_hashes`

service_dll_signature_description

Type: `cybox.common.properties.String`
XML Binding class name: `Service_DLL_Signature_Description`
Dictionary key name: `service_dll_signature_description`

service_dll_signature_exists

XML Binding class name: `service_dll_signature_exists`
Dictionary key name: `service_dll_signature_exists`

service_dll_signature_verified

XML Binding class name: `service_dll_signature_verified`
Dictionary key name: `service_dll_signature_verified`

service_name

Type: `cybox.common.properties.String`
XML Binding class name: `Service_Name`
Dictionary key name: `service_name`

service_status

Type: `cybox.common.properties.String`
XML Binding class name: `Service_Status`
Dictionary key name: `service_status`

service_type

Type: `cybox.common.properties.String`
XML Binding class name: `Service_Type`
Dictionary key name: `service_type`

started_as

Type: `cybox.common.properties.String`
XML Binding class name: `Started_As`
Dictionary key name: `started_as`

startup_command_line

Type: `cybox.common.properties.String`
XML Binding class name: `Startup_Command_Line`
Dictionary key name: `startup_command_line`

startup_type

Type: `cybox.common.properties.String`
XML Binding class name: `Startup_Type`
Dictionary key name: `startup_type`

Version: 2.1.0.11

cybox.objects.win_semaphore_object module

class `cybox.objects.win_semaphore_object.WinSemaphore`

Bases: `cybox.objects.semaphore_object.Semaphore`

XML binding class:

`cybox.bindings.win_semaphore_object.WindowsSemaphoreObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: `handle`

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Attributes`

Dictionary key name: `security_attributes`

Version: 2.1.0.11

cybox.objects.win_system_object module

class `cybox.objects.win_system_object.GlobalFlag`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_system_object.GlobalFlagType`

abbreviation

Type: `cybox.common.properties.String`

XML Binding class name: `Abbreviation`

Dictionary key name: `abbreviation`

destination

Type: `cybox.common.properties.String`

XML Binding class name: `Destination`

Dictionary key name: `destination`

hexadecimal_value

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Hexadecimal_Value`

Dictionary key name: `hexadecimal_value`

symbolic_name

Type: `cybox.common.properties.String`

XML Binding class name: Symbolic_Name
 Dictionary key name: symbolic_name
class cybox.objects.win_system_object.**GlobalFlagList** (*args)
 Bases: cybox.EntityList

XML binding class: cybox.bindings.win_system_object.GlobalFlagListType

class cybox.objects.win_system_object.**WinSystem**
 Bases: cybox.objects.system_object.System

XML binding class: cybox.bindings.win_system_object.WindowsSystemObjectType

domain

(List of values permitted)
 Type: cybox.common.properties.String
 XML Binding class name: Domain
 Dictionary key name: domain

global_flag_list

Type: cybox.objects.win_system_object.GlobalFlagList
 XML Binding class name: Global_Flag_List
 Dictionary key name: global_flag_list

netbios_name

Type: cybox.common.properties.String
 XML Binding class name: NetBIOS_Name
 Dictionary key name: netbios_name

open_handle_list

Type: cybox.objects.win_handle_object.WinHandleList
 XML Binding class name: Open_Handle_List
 Dictionary key name: open_handle_list

product_id

Type: cybox.common.properties.String
 XML Binding class name: Product_ID
 Dictionary key name: product_id

product_name

Type: cybox.common.properties.String
 XML Binding class name: Product_Name

Dictionary key name: product_name

registered_organization

Type: `cybox.common.properties.String`
XML Binding class name: Registered_Organization
Dictionary key name: registered_organization

registered_owner

Type: `cybox.common.properties.String`
XML Binding class name: Registered_Owner
Dictionary key name: registered_owner

windows_directory

Type: `cybox.common.properties.String`
XML Binding class name: Windows_Directory
Dictionary key name: windows_directory

windows_system_directory

Type: `cybox.common.properties.String`
XML Binding class name: Windows_System_Directory
Dictionary key name: windows_system_directory

windows_temp_directory

Type: `cybox.common.properties.String`
XML Binding class name: Windows_Temp_Directory
Dictionary key name: windows_temp_directory

Version: 2.1.0.11

cybox.objects.win_system_restore_object module

class `cybox.objects.win_system_restore_object.HiveList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_system_restore_object.HiveListType`

class `cybox.objects.win_system_restore_object.WinSystemRestore`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:
`cybox.bindings.win_system_restore_object.WindowsSystemRestoreObjectType`

acl_change_sid

Type: `cybox.common.properties.String`
XML Binding class name: `ACL_Change_SID`
Dictionary key name: `acl_change_sid`

acl_change_username

Type: `cybox.common.properties.String`
XML Binding class name: `ACL_Change_Username`
Dictionary key name: `acl_change_username`

backup_file_name

Type: `cybox.common.properties.String`
XML Binding class name: `Backup_File_Name`
Dictionary key name: `backup_file_name`

change_event

Type: `cybox.common.properties.String`
XML Binding class name: `Change_Event`
Dictionary key name: `change_event`

changelog_entry_flags

Type: `cybox.common.properties.String`
XML Binding class name: `ChangeLog_Entry_Flags`
Dictionary key name: `changelog_entry_flags`

changelog_entry_sequence_number

Type: `cybox.common.properties.Long`
XML Binding class name: `ChangeLog_Entry_Sequence_Number`
Dictionary key name: `changelog_entry_sequence_number`

changelog_entry_type

Type: `cybox.common.properties.String`
XML Binding class name: `ChangeLog_Entry_Type`
Dictionary key name: `changelog_entry_type`

created

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Created`
Dictionary key name: `created`

file_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `File_Attributes`
Dictionary key name: `file_attributes`

new_file_name

Type: `cybox.common.properties.String`

XML Binding class name: `New_File_Name`

Dictionary key name: `new_file_name`

original_file_name

Type: `cybox.common.properties.String`

XML Binding class name: `Original_File_Name`

Dictionary key name: `original_file_name`

original_short_file_name

Type: `cybox.common.properties.String`

XML Binding class name: `Original_Short_File_Name`

Dictionary key name: `original_short_file_name`

process_name

Type: `cybox.common.properties.String`

XML Binding class name: `Process_Name`

Dictionary key name: `process_name`

registry_hive_list

Type: `cybox.objects.win_system_restore_object.HiveList`

XML Binding class name: `Registry_Hive_List`

Dictionary key name: `registry_hive_list`

restore_point_description

Type: `cybox.common.properties.String`

XML Binding class name: `Restore_Point_Description`

Dictionary key name: `restore_point_description`

restore_point_full_path

Type: `cybox.common.properties.String`

XML Binding class name: `Restore_Point_Full_Path`

Dictionary key name: `restore_point_full_path`

restore_point_name

Type: `cybox.common.properties.String`

XML Binding class name: `Restore_Point_Name`

Dictionary key name: `restore_point_name`

restore_point_type

Type: `cybox.common.properties.String`

XML Binding class name: Restore_Point_Type

Dictionary key name: restore_point_type

Version: 2.1.0.11

cybox.objects.win_task_object module

class cybox.objects.win_task_object.**IComHandlerAction**

Bases: cybox.Entity

XML binding class: cybox.bindings.win_task_object.IComHandlerActionType

com_class_id

Type: cybox.common.properties.String

XML Binding class name: COM_Class_ID

Dictionary key name: com_class_id

com_data

Type: cybox.common.properties.String

XML Binding class name: COM_Data

Dictionary key name: com_data

class cybox.objects.win_task_object.**IExecAction**

Bases: cybox.Entity

XML binding class: cybox.bindings.win_task_object.IExecActionType

exec_arguments

Type: cybox.common.properties.String

XML Binding class name: Exec_Arguments

Dictionary key name: exec_arguments

exec_program_hashes

Type: cybox.common.hashes.HashList

XML Binding class name: Exec_Program_Hashes

Dictionary key name: exec_program_hashes

exec_program_path

Type: cybox.common.properties.String

XML Binding class name: Exec_Program_Path

Dictionary key name: exec_program_path

exec_working_directory

Type: `cybox.common.properties.String`
XML Binding class name: `Exec_Working_Directory`
Dictionary key name: `exec_working_directory`

class `cybox.objects.win_task_object.IShowMessageAction`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.IShowMessageType`

show_message_body

Type: `cybox.common.properties.String`
XML Binding class name: `Show_Message_Body`
Dictionary key name: `show_message_body`

show_message_title

Type: `cybox.common.properties.String`
XML Binding class name: `Show_Message_Title`
Dictionary key name: `show_message_title`

class `cybox.objects.win_task_object.TaskAction`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.TaskActionType`

action_id

Type: `cybox.common.properties.String`
XML Binding class name: `Action_ID`
Dictionary key name: `action_id`

action_type

Type: `cybox.common.properties.String`
XML Binding class name: `Action_Type`
Dictionary key name: `action_type`

icomhandleraction

Type: `cybox.objects.win_task_object.IComHandlerAction`
XML Binding class name: `IComHandlerAction`
Dictionary key name: `icomhandleraction`

iemailaction

Type: `cybox.objects.email_message_object.EmailMessage`
XML Binding class name: `IEmailAction`

Dictionary key name: iemailaction

iexecaction

Type: `cybox.objects.win_task_object.IExecAction`

XML Binding class name: `IExecAction`

Dictionary key name: iexecaction

ishowmessageaction

Type: `cybox.objects.win_task_object.IShowMessageAction`

XML Binding class name: `IShowMessageAction`

Dictionary key name: ishowmessageaction

class `cybox.objects.win_task_object.TaskActionList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_task_object.TaskActionListType`

class `cybox.objects.win_task_object.Trigger`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.TriggerType`

trigger_begin

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Trigger_Begin`

Dictionary key name: trigger_begin

trigger_delay

Type: `cybox.common.properties.Duration`

XML Binding class name: `Trigger_Delay`

Dictionary key name: trigger_delay

trigger_end

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Trigger_End`

Dictionary key name: trigger_end

trigger_frequency

Type: `cybox.common.properties.String`

XML Binding class name: `Trigger_Frequency`

Dictionary key name: trigger_frequency

trigger_max_run_time

Type: `cybox.common.properties.Duration`
XML Binding class name: `Trigger_Max_Run_Time`
Dictionary key name: `trigger_max_run_time`

trigger_session_change_type

Type: `cybox.common.properties.String`
XML Binding class name: `Trigger_Session_Change_Type`
Dictionary key name: `trigger_session_change_type`

trigger_type

Type: `cybox.common.properties.String`
XML Binding class name: `Trigger_Type`
Dictionary key name: `trigger_type`

class `cybox.objects.win_task_object.TriggerList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_task_object.TriggerListType`

class `cybox.objects.win_task_object.WinTask`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_task_object.WindowsTaskObjectType`

account_logon_type

Type: `cybox.common.properties.String`
XML Binding class name: `Account_Logon_Type`
Dictionary key name: `account_logon_type`

account_name

Type: `cybox.common.properties.String`
XML Binding class name: `Account_Name`
Dictionary key name: `account_name`

account_run_level

Type: `cybox.common.properties.String`
XML Binding class name: `Account_Run_Level`
Dictionary key name: `account_run_level`

action_list

Type: `cybox.objects.win_task_object.TaskActionList`
XML Binding class name: `Action_List`
Dictionary key name: `action_list`

application_name

Type: `cybox.common.properties.String`
XML Binding class name: `Application_Name`
Dictionary key name: `application_name`

comment

Type: `cybox.common.properties.String`
XML Binding class name: `Comment`
Dictionary key name: `comment`

creation_date

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Creation_Date`
Dictionary key name: `creation_date`

creator

Type: `cybox.common.properties.String`
XML Binding class name: `Creator`
Dictionary key name: `creator`

exit_code

Type: `cybox.common.properties.Long`
XML Binding class name: `Exit_Code`
Dictionary key name: `exit_code`

flags

Type: `cybox.common.properties.String`
XML Binding class name: `Flags`
Dictionary key name: `flags`

max_run_time

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Max_Run_Time`
Dictionary key name: `max_run_time`

most_recent_run_time

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Most_Recent_Run_Time`
Dictionary key name: `most_recent_run_time`

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

next_run_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Next_Run_Time

Dictionary key name: next_run_time

parameters

Type: `cybox.common.properties.String`

XML Binding class name: Parameters

Dictionary key name: parameters

priority

Type: `cybox.common.properties.String`

XML Binding class name: Priority

Dictionary key name: priority

status

Type: `cybox.common.properties.String`

XML Binding class name: Status

Dictionary key name: status

trigger_list

Type: `cybox.objects.win_task_object.TriggerList`

XML Binding class name: Trigger_List

Dictionary key name: trigger_list

work_item_data

Type: `cybox.common.properties.Base64Binary`

XML Binding class name: Work_Item_Data

Dictionary key name: work_item_data

working_directory

Type: `cybox.common.properties.String`

XML Binding class name: Working_Directory

Dictionary key name: working_directory

Version: 2.1.0.11

cybox.objects.win_thread_object module**class** `cybox.objects.win_thread_object.WinThread`Bases: `cybox.common.object_properties.ObjectProperties`XML binding class: `cybox.bindings.win_thread_object.WindowsThreadObjectType`**context**Type: `cybox.common.properties.String`

XML Binding class name: Context

Dictionary key name: context

creation_flagsType: `cybox.common.properties.HexBinary`

XML Binding class name: Creation_Flags

Dictionary key name: creation_flags

creation_timeType: `cybox.common.properties.DateTime`

XML Binding class name: Creation_Time

Dictionary key name: creation_time

handleType: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: Handle

Dictionary key name: handle

parameter_addressType: `cybox.common.properties.HexBinary`

XML Binding class name: Parameter_Address

Dictionary key name: parameter_address

priorityType: `cybox.common.properties.UnsignedInteger`

XML Binding class name: Priority

Dictionary key name: priority

running_statusType: `cybox.common.properties.String`

XML Binding class name: Running_Status

Dictionary key name: running_status

security_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Attributes`
Dictionary key name: `security_attributes`

stack_size

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Stack_Size`
Dictionary key name: `stack_size`

start_address

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Start_Address`
Dictionary key name: `start_address`

thread_id

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Thread_ID`
Dictionary key name: `thread_id`

Version: 2.1.0.11

cybox.objects.win_user_object module

class `cybox.objects.win_user_object.WinGroup`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_user_account_object.WindowsGroupType`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

class `cybox.objects.win_user_object.WinGroupList (*args)`
Bases: `cybox.objects.user_account_object.GroupList`

XML binding class: `cybox.bindings.user_account_object.GroupListType`

class `cybox.objects.win_user_object.WinPrivilege`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_user_account_object.WindowsPrivilegeType`

user_right

Type: `cybox.common.properties.String`

XML Binding class name: `User_Right`

Dictionary key name: `user_right`

class `cybox.objects.win_user_object.WinPrivilegeList` (*args)

Bases: `cybox.objects.user_account_object.PrivilegeList`

XML binding class: `cybox.bindings.user_account_object.PrivilegeListType`

class `cybox.objects.win_user_object.WinUser`

Bases: `cybox.objects.user_account_object.UserAccount`

XML binding class:

`cybox.bindings.win_user_account_object.WindowsUserAccountObjectType`

group_list

Type: `cybox.objects.win_user_object.WinGroupList`

XML Binding class name: `Group_List`

Dictionary key name: `group_list`

privilege_list

Type: `cybox.objects.win_user_object.WinPrivilegeList`

XML Binding class name: `Privilege_List`

Dictionary key name: `privilege_list`

security_id

Type: `cybox.common.properties.String`

XML Binding class name: `Security_ID`

Dictionary key name: `security_id`

security_type

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Type`

Dictionary key name: `security_type`

Version: 2.1.0.11

cybox.objects.win_volume_object module

class `cybox.objects.win_volume_object.WinVolume`

Bases: `cybox.objects.volume_object.Volume`

XML binding class: `cybox.bindings.win_volume_object.WindowsVolumeObjectType`

attributes_list

Type: `cybox.objects.win_volume_object.WindowsVolumeAttributesList`

XML Binding class name: `Attributes_List`

Dictionary key name: `attributes_list`

drive_Type

Type: `cybox.common.properties.String`

XML Binding class name: `Drive_Type`

Dictionary key name: `drive_type`

drive_letter

Type: `cybox.common.properties.String`

XML Binding class name: `Drive_Letter`

Dictionary key name: `drive_letter`

class `cybox.objects.win_volume_object.WindowsVolumeAttributesList` (*args)
Bases: `cybox.EntityList`

XML binding class:

`cybox.bindings.win_volume_object.WindowsVolumeAttributesListType`

Version: 2.1.0.11

cybox.objects.win_waitable_timer_object module

class `cybox.objects.win_waitable_timer_object.WinWaitableTimer`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_waitable_timer_object.WindowsWaitableTimerObjectType`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Attributes`

Dictionary key name: `security_attributes`

type_Type: `cybox.common.properties.String`XML Binding class name: `Type`Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.x509_certificate_object module**class** `cybox.objects.x509_certificate_object.RSAPublicKey`Bases: `cybox.Entity`XML binding class: `cybox.bindings.x509_certificate_object.RSAPublicKeyType`**exponent**Type: `cybox.common.properties.Integer`XML Binding class name: `Exponent`Dictionary key name: `exponent`**modulus**Type: `cybox.common.properties.String`XML Binding class name: `Modulus`Dictionary key name: `modulus`**class** `cybox.objects.x509_certificate_object.SubjectPublicKey`Bases: `cybox.Entity`XML binding class: `cybox.bindings.x509_certificate_object.SubjectPublicKeyType`**public_key_algorithm**Type: `cybox.common.properties.String`XML Binding class name: `Public_Key_Algorithm`Dictionary key name: `public_key_algorithm`**rsa_public_key**Type: `cybox.objects.x509_certificate_object.RSAPublicKey`XML Binding class name: `RSA_Public_Key`Dictionary key name: `rsa_public_key`**class** `cybox.objects.x509_certificate_object.Validity`Bases: `cybox.Entity`XML binding class: `cybox.bindings.x509_certificate_object.ValidityType`

not_after

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Not_After`

Dictionary key name: `not_after`

not_before

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Not_Before`

Dictionary key name: `not_before`

class `cybox.objects.x509_certificate_object.X509Cert`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.x509_certificate_object.X509CertificateContentsType`

issuer

Type: `cybox.common.properties.String`

XML Binding class name: `Issuer`

Dictionary key name: `issuer`

non_standard_extensions

Type: `cybox.objects.x509_certificate_object.X509NonStandardExtensions`

XML Binding class name: `Non_Standard_Extensions`

Dictionary key name: `non_standard_extensions`

serial_number

Type: `cybox.common.properties.String`

XML Binding class name: `Serial_Number`

Dictionary key name: `serial_number`

signature_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: `Signature_Algorithm`

Dictionary key name: `signature_algorithm`

standard_extensions

Type: `cybox.objects.x509_certificate_object.X509V3Extensions`

XML Binding class name: `Standard_Extensions`

Dictionary key name: `standard_extensions`

subject

Type: `cybox.common.properties.String`
XML Binding class name: `Subject`
Dictionary key name: `subject`

subject_public_key

Type: `cybox.objects.x509_certificate_object.SubjectPublicKey`
XML Binding class name: `Subject_Public_Key`
Dictionary key name: `subject_public_key`

validity

Type: `cybox.objects.x509_certificate_object.Validity`
XML Binding class name: `Validity`
Dictionary key name: `validity`

version

Type: `cybox.common.properties.Integer`
XML Binding class name: `Version`
Dictionary key name: `version`

class `cybox.objects.x509_certificate_object.X509Certificate`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:
`cybox.bindings.x509_certificate_object.X509CertificateObjectType`

certificate

Type: `cybox.objects.x509_certificate_object.X509Cert`
XML Binding class name: `Certificate`
Dictionary key name: `certificate`

certificate_signature

Type: `cybox.objects.x509_certificate_object.X509CertificateSignature`
XML Binding class name: `Certificate_Signature`
Dictionary key name: `certificate_signature`

raw_certificate

Type: `cybox.common.properties.String`
XML Binding class name: `Raw_Certificate`
Dictionary key name: `raw_certificate`

class `cybox.objects.x509_certificate_object.X509CertificateSignature`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.x509_certificate_object.X509CertificateSignatureType`

signature

Type: `cybox.common.properties.String`

XML Binding class name: `Signature`

Dictionary key name: `signature`

signature_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: `Signature_Algorithm`

Dictionary key name: `signature_algorithm`

class `cybox.objects.x509_certificate_object.X509NonStandardExtensions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.x509_certificate_object.X509NonStandardExtensionsType`

netscape_certificate_type

Type: `cybox.common.properties.String`

XML Binding class name: `Netscape_Certificate_Type`

Dictionary key name: `netscape_certificate_type`

netscape_comment

Type: `cybox.common.properties.String`

XML Binding class name: `Netscape_Comment`

Dictionary key name: `netscape_comment`

old_authority_key_identifier

Type: `cybox.common.properties.String`

XML Binding class name: `Old_Authority_Key_Identifier`

Dictionary key name: `old_authority_key_identifier`

old_primary_key_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Old_Primary_Key_Attributes`

Dictionary key name: `old_primary_key_attributes`

class `cybox.objects.x509_certificate_object.X509V3Extensions`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.x509_certificate_object.X509V3ExtensionsType`

authority_key_identifier

Type: `cybox.common.properties.String`
XML Binding class name: `Authority_Key_Identifier`
Dictionary key name: `authority_key_identifier`

basic_constraints

Type: `cybox.common.properties.String`
XML Binding class name: `Basic_Constraints`
Dictionary key name: `basic_constraints`

certificate_policies

Type: `cybox.common.properties.String`
XML Binding class name: `Certificate_Policies`
Dictionary key name: `certificate_policies`

crl_distribution_points

Type: `cybox.common.properties.String`
XML Binding class name: `CRL_Distribution_Points`
Dictionary key name: `crl_distribution_points`

extended_key_usage

Type: `cybox.common.properties.String`
XML Binding class name: `Extended_Key_Usage`
Dictionary key name: `extended_key_usage`

inhibit_any_policy

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Inhibit_Any_Policy`
Dictionary key name: `inhibit_any_policy`

issuer_alternative_name

Type: `cybox.common.properties.String`
XML Binding class name: `Issuer_Alternative_Name`
Dictionary key name: `issuer_alternative_name`

key_usage

Type: `cybox.common.properties.String`
XML Binding class name: `Key_Usage`
Dictionary key name: `key_usage`

name_constraints

Type: `cybox.common.properties.String`

XML Binding class name: `Name_Constraints`

Dictionary key name: `name_constraints`

policy_constraints

Type: `cybox.common.properties.String`

XML Binding class name: `Policy_Constraints`

Dictionary key name: `policy_constraints`

policy_mappings

Type: `cybox.common.properties.String`

XML Binding class name: `Policy_Mappings`

Dictionary key name: `policy_mappings`

private_key_usage_period

Type: `cybox.objects.x509_certificate_object.Validity`

XML Binding class name: `Private_Key_Usage_Period`

Dictionary key name: `private_key_usage_period`

subject_alternative_name

Type: `cybox.common.properties.String`

XML Binding class name: `Subject_Alternative_Name`

Dictionary key name: `subject_alternative_name`

subject_directory_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Subject_Directory_Attributes`

Dictionary key name: `subject_directory_attributes`

subject_key_identifier

Type: `cybox.common.properties.String`

XML Binding class name: `Subject_Key_Identifier`

Dictionary key name: `subject_key_identifier`

Module contents

Version: 2.1.0.11

cybox.objects.account_object module

class `cybox.objects.account_object.Account`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.account_object.AccountObjectType`

authentication

(List of values permitted)

Type: `cybox.objects.account_object.Authentication`

XML Binding class name: `Authentication`

Dictionary key name: `authentication`

creation_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Creation_Date`

Dictionary key name: `creation_date`

description

Type: `cybox.common.properties.String`

XML Binding class name: `Description`

Dictionary key name: `description`

disabled

XML Binding class name: `disabled`

Dictionary key name: `disabled`

domain

Type: `cybox.common.properties.String`

XML Binding class name: `Domain`

Dictionary key name: `domain`

last_accessed_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Last_Accessed_Time`

Dictionary key name: `last_accessed_time`

locked_out

XML Binding class name: `locked_out`

Dictionary key name: `locked_out`

modified_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Modified_Date`

Dictionary key name: `modified_date`

class `cybox.objects.account_object.Authentication`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.account_object.AuthenticationType`

authentication_data

Type: `cybox.common.properties.String`
XML Binding class name: `Authentication_Data`
Dictionary key name: `authentication_data`

authentication_token_protection_mechanism

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: `Authentication-Token-Protection-Mechanism`
Dictionary key name: `authentication_token_protection_mechanism`

authentication_type

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`
XML Binding class name: `Authentication_Type`
Dictionary key name: `authentication_type`

structured_authentication_mechanism

Type: `cybox.objects.account_object.StructuredAuthenticationMechanism`
XML Binding class name: `Structured_Authentication_Mechanism`
Dictionary key name: `structured_authentication_mechanism`

class `cybox.objects.account_object.StructuredAuthenticationMechanism`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.account_object.StructuredAuthenticationMechanismType`

description

Type: `cybox.common.properties.String`
XML Binding class name: `Description`
Dictionary key name: `description`

Version: 2.1.0.11

cybox.objects.address_object module

class `cybox.objects.address_object.Address` (*address_value=None, category=None*)
 Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.address_object.AddressObjectType`

address_value

Type: `cybox.common.properties.String`
 XML Binding class name: `Address_Value`
 Dictionary key name: `address_value`

category

XML Binding class name: `category`
 Dictionary key name: `category`

is_destination

XML Binding class name: `is_destination`
 Dictionary key name: `is_destination`

is_source

XML Binding class name: `is_source`
 Dictionary key name: `is_source`

is_spoofed

XML Binding class name: `is_spoofed`
 Dictionary key name: `is_spoofed`

vlan_name

Type: `cybox.common.properties.String`
 XML Binding class name: `VLAN_Name`
 Dictionary key name: `vlan_name`

vlan_num

Type: `cybox.common.properties.Integer`
 XML Binding class name: `VLAN_Num`
 Dictionary key name: `vlan_num`

class `cybox.objects.address_object.EmailAddress` (*addr_string=None*)
 Bases: `cybox.objects.address_object.Address`

Convenience class for creating email addresses.

Note that this is not an actual CyBOX type.

XML binding class: `cybox.bindings.address_object.AddressObjectType`

classmethod `istypeof` (*obj*)

Version: 2.1.0.11

`cybox.objects.api_object` module

class `cybox.objects.api_object.API`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.api_object.APIObjectType`

address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Address

Dictionary key name: address

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: Description

Dictionary key name: description

function_name

Type: `cybox.common.properties.String`

XML Binding class name: Function_Name

Dictionary key name: function_name

normalized_function_name

Type: `cybox.common.properties.String`

XML Binding class name: Normalized_Function_Name

Dictionary key name: normalized_function_name

platform

Type: `cybox.common.platform_specification.PlatformSpecification`

XML Binding class name: Platform

Dictionary key name: platform

Version: 2.1.0.11

`cybox.objects.archive_file_object` module

class `cybox.objects.archive_file_object.ArchiveFile`

Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.file_object.FileObjectType`

archive_format

Type: `cybox.common.properties.String`
XML Binding class name: `Archive_Format`
Dictionary key name: `archive_format`

archived_file

(List of values permitted)
Type: `cybox.objects.file_object.File`
XML Binding class name: `Archived_File`
Dictionary key name: `archived_file`

comment

Type: `cybox.common.properties.String`
XML Binding class name: `Comment`
Dictionary key name: `comment`

decryption_key

Type: `cybox.common.properties.String`
XML Binding class name: `Decryption_Key`
Dictionary key name: `decryption_key`

encryption_algorithm

Type: `cybox.common.properties.String`
XML Binding class name: `Encryption_Algorithm`
Dictionary key name: `encryption_algorithm`

file_count

Type: `cybox.common.properties.Integer`
XML Binding class name: `File_Count`
Dictionary key name: `file_count`

version

Type: `cybox.common.properties.String`
XML Binding class name: `Version`
Dictionary key name: `version`

Version: 2.1.0.11

`cybox.objects.arp_cache_object` module

class `cybox.objects.arp_cache_object.ARPCache`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.arp_cache_object.ARPCacheObjectType`

`arp_cache_entry`

(List of values permitted)

Type: `cybox.objects.arp_cache_object.ARPCacheEntry`

XML Binding class name: `ARP_Cache_Entry`

Dictionary key name: `arp_cache_entry`

class `cybox.objects.arp_cache_object.ARPCacheEntry`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.arp_cache_object.ARPCacheEntryType`

`ip_address`

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IP_Address`

Dictionary key name: `ip_address`

`network_interface`

Type: `cybox.objects.system_object.NetworkInterface`

XML Binding class name: `Network_Interface`

Dictionary key name: `network_interface`

`physical_address`

Type: `cybox.common.properties.String`

XML Binding class name: `Physical_Address`

Dictionary key name: `physical_address`

`type_`

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.artifact_object module

class cybox.objects.artifact_object.**Artifact** (*data=None, type_=None*)
 Bases: cybox.common.object_properties.ObjectProperties

XML binding class: <undefined>

static from_dict (*artifact_dict*)

static from_obj (*artifact_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class cybox.objects.artifact_object.**Base64Encoding**
 Bases: cybox.objects.artifact_object.Encoding

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class cybox.objects.artifact_object.**Bz2Compression**
 Bases: cybox.objects.artifact_object.Compression

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class cybox.objects.artifact_object.**Compression** (*compression_mechanism=None*)
 Bases: cybox.objects.artifact_object.Packaging

A Compression packaging layer

Currently only zlib and bz2 are supported. Also, compression_mechanism_ref is not currently supported.

XML binding class: <undefined>

static from_dict (*compression_dict*)

static from_obj (*compression_obj*)

static get_object (*mechanism*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Encoding`
Bases: `cybox.objects.artifact_object.Packaging`

An encoding packaging layer.

Currently only base64 with a standard alphabet is supported.

XML binding class: <undefined>

static from_dict (*encoding_dict*)

static from_obj (*encoding_obj*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Encryption` (*encryption_mechanism=None, encryption_key=None*)
Bases: `cybox.objects.artifact_object.Packaging`

An encryption packaging layer.

XML binding class: <undefined>

static from_dict (*encryption_dict*)

static from_obj (*encryption_obj*)

static get_object (*mechanism, key*)

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.artifact_object.Packaging`
Bases: `cybox.Entity`

An individual packaging layer.

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class `cybox.objects.artifact_object.PasswordProtectedZipEncryption` (*key*)
Bases: `cybox.objects.artifact_object.Encryption`

XML binding class: <undefined>

unpack (*packed_data*)

class `cybox.objects.artifact_object.RawArtifact` (*value=None*)
 Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.artifact_object.RawArtifactType`

byte_order

XML Binding class name: `byte_order`

Dictionary key name: `byte_order`

class `cybox.objects.artifact_object.XOREncryption` (*key*)
 Bases: `cybox.objects.artifact_object.Encryption`

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

class `cybox.objects.artifact_object.ZlibCompression`
 Bases: `cybox.objects.artifact_object.Compression`

XML binding class: <undefined>

pack (*data*)

unpack (*packed_data*)

`cybox.objects.artifact_object.xor` (*data, key*)

Version: 2.1.0.11

cybox.objects.as_object module

`cybox.objects.as_object.AS`
 alias of `AutonomousSystem` | XML binding class: `cybox.bindings.as_object.ASObjectType`

class `cybox.objects.as_object.AutonomousSystem`
 Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.as_object.ASObjectType`

handle

Type: `cybox.common.properties.String`

XML Binding class name: `Handle`

Dictionary key name: `handle`

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

number

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Number

Dictionary key name: number

regional_internet_registry

Type: `cybox.common.properties.String`

XML Binding class name: Regional_Internet_Registry

Dictionary key name: regional_internet_registry

Version: 2.1.0.11

cybox.objects.code_object module

class `cybox.objects.code_object.Code`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.code_object.CodeObjectType`

code_language

Type: `cybox.common.properties.String`

XML Binding class name: Code_Language

Dictionary key name: code_language

code_segment

Type: `cybox.common.properties.String`

XML Binding class name: Code_Segment

Dictionary key name: code_segment

code_segment_xor

Type: `cybox.objects.code_object.CodeSegmentXOR`

XML Binding class name: Code_Segment_XOR

Dictionary key name: code_segment_xor

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: Description

Dictionary key name: description

digital_signatures

Type: `cybox.common.digitalsignature.DigitalSignatureList`

XML Binding class name: Digital_Signatures

Dictionary key name: digital_signatures

discovery_method

Type: `cybox.common.measuresource.MeasureSource`

XML Binding class name: Discovery_Method

Dictionary key name: discovery_method

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

processor_family

(List of values permitted)

Type: `cybox.common.properties.String`

XML Binding class name: Processor_Family

Dictionary key name: processor_family

purpose

Type: `cybox.common.properties.String`

XML Binding class name: Purpose

Dictionary key name: purpose

start_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Start_Address

Dictionary key name: start_address

targeted_platforms

Type: `cybox.objects.code_object.TargetedPlatforms`

XML Binding class name: Targeted_Platforms

Dictionary key name: targeted_platforms

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

class `cybox.objects.code_object.CodeSegmentXOR` (*value=None*)
Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.code_object.CodeSegmentXORType`

xor_pattern

XML Binding class name: `xor_pattern`
Dictionary key name: `xor_pattern`

class `cybox.objects.code_object.TargetedPlatforms` (**args*)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.code_object.TargetedPlatformsType`

Version: 2.1.0.11

cybox.objects.device_object module

class `cybox.objects.device_object.Device`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.device_object.DeviceObjectType`

description

Type: `cybox.common.structured_text.StructuredText`
XML Binding class name: `Description`
Dictionary key name: `description`

device_type

Type: `cybox.common.properties.String`
XML Binding class name: `Device_Type`
Dictionary key name: `device_type`

firmware_version

Type: `cybox.common.properties.String`
XML Binding class name: `Firmware_Version`
Dictionary key name: `firmware_version`

manufacturer

Type: `cybox.common.properties.String`

XML Binding class name: Manufacturer

Dictionary key name: manufacturer

model

Type: `cybox.common.properties.String`

XML Binding class name: Model

Dictionary key name: model

serial_number

Type: `cybox.common.properties.String`

XML Binding class name: Serial_Number

Dictionary key name: serial_number

Version: 2.1.0.11

cybox.objects.disk_object module

class `cybox.objects.disk_object.Disk`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.disk_object.DiskObjectType`

disk_name

Type: `cybox.common.properties.String`

XML Binding class name: Disk_Name

Dictionary key name: disk_name

disk_size

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Disk_Size

Dictionary key name: disk_size

free_space

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Free_Space

Dictionary key name: free_space

partition_list

Type: `cybox.objects.disk_object.PartitionList`

XML Binding class name: Partition_List

Dictionary key name: partition_list

type

Type: `cybox.common.properties.String`
XML Binding class name: `Type`
Dictionary key name: `type`

class `cybox.objects.disk_object.PartitionList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.disk_object.PartitionListType`

Version: 2.1.0.11

`cybox.objects.disk_partition_object` module

class `cybox.objects.disk_partition_object.DiskPartition`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.disk_partition_object.DiskPartitionObjectType`

created

Type: `cybox.common.properties.String`
XML Binding class name: `Created`
Dictionary key name: `created`

device_name

Type: `cybox.common.properties.Name`
XML Binding class name: `Device_Name`
Dictionary key name: `device_name`

mount_point

Type: `cybox.common.properties.String`
XML Binding class name: `Mount_Point`
Dictionary key name: `mount_point`

partition_id

Type: `cybox.common.properties.Integer`
XML Binding class name: `Partition_ID`
Dictionary key name: `partition_id`

partition_length

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Partition_Length`
Dictionary key name: `partition_length`

partition_offset

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Partition_Offset`

Dictionary key name: `partition_offset`

space_left

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Space_Left`

Dictionary key name: `space_left`

space_used

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Space_Used`

Dictionary key name: `space_used`

total_space

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Total_Space`

Dictionary key name: `total_space`

type

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.dns_cache_object module

class `cybox.objects.dns_cache_object.DNSCache`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.dns_cache_object.DNSCacheObjectType`

dns_cache_entry

(List of values permitted)

Type: `cybox.objects.dns_cache_object.DNSCacheEntry`

XML Binding class name: `DNS_Cache_Entry`

Dictionary key name: `dns_cache_entry`

class `cybox.objects.dns_cache_object.DNSCacheEntry`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.dns_cache_object.DNSCacheEntryType`

dns_entry

Type: `cybox.objects.dns_record_object.DNSRecord`

XML Binding class name: `DNS_Entry`

Dictionary key name: `dns_entry`

t11

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `TTL`

Dictionary key name: `t11`

Version: 2.1.0.11

cybox.objects.dns_query_object module

class `cybox.objects.dns_query_object.DNSQuery`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.dns_query_object.DNSQueryObjectType`

additional_records

Type: `cybox.objects.dns_query_object.DNSResourceRecords`

XML Binding class name: `Additional_Records`

Dictionary key name: `additional_records`

answer_resource_records

Type: `cybox.objects.dns_query_object.DNSResourceRecords`

XML Binding class name: `Answer_Resource_Records`

Dictionary key name: `answer_resource_records`

authority_resource_records

Type: `cybox.objects.dns_query_object.DNSResourceRecords`

XML Binding class name: `Authority_Resource_Records`

Dictionary key name: `authority_resource_records`

date_ran

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Date_Ran`

Dictionary key name: `date_ran`

question

Type: `cybox.objects.dns_query_object.DNSQuestion`

XML Binding class name: `Question`

Dictionary key name: `question`

service_used

Type: `cybox.common.properties.String`

XML Binding class name: `Service_Used`

Dictionary key name: `service_used`

successful

XML Binding class name: `successful`

Dictionary key name: `successful`

transaction_id

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Transaction_ID`

Dictionary key name: `transaction_id`

class `cybox.objects.dns_query_object.DNSQuestion`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.dns_query_object.DNSQuestionType`

qclass

Type: `cybox.common.properties.String`

XML Binding class name: `QClass`

Dictionary key name: `qclass`

qname

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `QName`

Dictionary key name: `qname`

qtype

Type: `cybox.common.properties.String`

XML Binding class name: `QType`

Dictionary key name: `qtype`

class `cybox.objects.dns_query_object.DNSResourceRecords` (**args*)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.dns_query_object.DNSResourceRecordsType`

Version: 2.1.0.11

`cybox.objects.dns_record_object` module

class `cybox.objects.dns_record_object.DNSRecord`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.dns_record_object.DNSRecordObjectType`

address_class

Type: `cybox.common.properties.String`

XML Binding class name: `Address_Class`

Dictionary key name: `address_class`

data_length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Data_Length`

Dictionary key name: `data_length`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

domain_name

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Domain_Name`

Dictionary key name: `domain_name`

entry_type

Type: `cybox.common.properties.String`

XML Binding class name: `Entry_Type`

Dictionary key name: `entry_type`

flags

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Flags`

Dictionary key name: `flags`

ip_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IP_Address`

Dictionary key name: `ip_address`

queried_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Queried_Date`

Dictionary key name: `queried_date`

record_data

XML Binding class name: `Record_Data`

Dictionary key name: `record_data`

record_name

Type: `cybox.common.properties.String`

XML Binding class name: `Record_Name`

Dictionary key name: `record_name`

record_type

Type: `cybox.common.properties.String`

XML Binding class name: `Record_Type`

Dictionary key name: `record_type`

t11

Type: `cybox.common.properties.Integer`

XML Binding class name: `TTL`

Dictionary key name: `t11`

Version: 2.1.0.11

cybox.objects.domain_name_object module

class `cybox.objects.domain_name_object.DomainName`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.domain_name_object.DomainNameObjectType`

type_

XML Binding class name: `type_`

Dictionary key name: `type`

value

Type: `cybox.common.properties.String`

XML Binding class name: Value

Dictionary key name: value

Version: 2.1.0.11

cybox.objects.email_message_object module

class `cybox.objects.email_message_object.AttachmentReference` (*object_reference=None*)
Bases: `cybox.ObjectReference`

XML binding class: `cybox.bindings.email_message_object.AttachmentReferenceType`

class `cybox.objects.email_message_object.Attachments` (*args)
Bases: `cybox.ReferenceList`

XML binding class: `cybox.bindings.email_message_object.AttachmentsType`

class `cybox.objects.email_message_object.EmailHeader`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.email_message_object.EmailHeaderType`

bcc

Type: `cybox.objects.email_message_object.EmailRecipients`

XML Binding class name: BCC

Dictionary key name: bcc

boundary

Type: `cybox.common.properties.String`

XML Binding class name: Boundary

Dictionary key name: boundary

cc

Type: `cybox.objects.email_message_object.EmailRecipients`

XML Binding class name: CC

Dictionary key name: cc

content_type

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Type`
Dictionary key name: `content_type`

date

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Date`
Dictionary key name: `date`

errors_to

Type: `cybox.common.properties.String`
XML Binding class name: `Errors_To`
Dictionary key name: `errors_to`

from_

Type: `cybox.objects.address_object.EmailAddress`
XML Binding class name: `From`
Dictionary key name: `from`

in_reply_to

Type: `cybox.common.properties.String`
XML Binding class name: `In_Reply_To`
Dictionary key name: `in_reply_to`

message_id

Type: `cybox.common.properties.String`
XML Binding class name: `Message_ID`
Dictionary key name: `message_id`

mime_version

Type: `cybox.common.properties.String`
XML Binding class name: `MIME_Version`
Dictionary key name: `mime_version`

precedence

Type: `cybox.common.properties.String`
XML Binding class name: `Precedence`
Dictionary key name: `precedence`

received_lines

Type: `cybox.objects.email_message_object.ReceivedLineList`
XML Binding class name: `Received_Lines`
Dictionary key name: `received_lines`

reply_to

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: `Reply_To`

Dictionary key name: `reply_to`

sender

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: `Sender`

Dictionary key name: `sender`

subject

Type: `cybox.common.properties.String`

XML Binding class name: `Subject`

Dictionary key name: `subject`

to

Type: `cybox.objects.email_message_object.EmailRecipients`

XML Binding class name: `To`

Dictionary key name: `to`

user_agent

Type: `cybox.common.properties.String`

XML Binding class name: `User_Agent`

Dictionary key name: `user_agent`

x_mailer

Type: `cybox.common.properties.String`

XML Binding class name: `X_Mailer`

Dictionary key name: `x_mailer`

x_originating_ip

Type: `cybox.objects.address_object.Address`

XML Binding class name: `X_Originating_IP`

Dictionary key name: `x_originating_ip`

x_priority

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `X_Priority`

Dictionary key name: `x_priority`

class `cybox.objects.email_message_object.EmailMessage`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.email_message_object.EmailMessageObjectType`

attachments

Type: `cybox.objects.email_message_object.Attachments`

XML Binding class name: `Attachments`

Dictionary key name: `attachments`

email_server

Type: `cybox.common.properties.String`

XML Binding class name: `Email_Server`

Dictionary key name: `email_server`

header

Type: `cybox.objects.email_message_object.EmailHeader`

XML Binding class name: `Header`

Dictionary key name: `header`

links

Type: `cybox.objects.email_message_object.Links`

XML Binding class name: `Links`

Dictionary key name: `links`

raw_body

Type: `cybox.common.properties.String`

XML Binding class name: `Raw_Body`

Dictionary key name: `raw_body`

raw_header

Type: `cybox.common.properties.String`

XML Binding class name: `Raw_Header`

Dictionary key name: `raw_header`

class `cybox.objects.email_message_object.EmailRecipients` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.email_message_object.EmailRecipientsType`

class `cybox.objects.email_message_object.LinkReference` (*object_reference=None*)

Bases: `cybox.ObjectReference`

XML binding class: `cybox.bindings.email_message_object.LinkReferenceType`

class `cybox.objects.email_message_object.Links` (*args)
Bases: `cybox.ReferenceList`

XML binding class: `cybox.bindings.email_message_object.LinksType`

class `cybox.objects.email_message_object.ReceivedLine`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.email_message_object.EmailReceivedLineType`

by

Type: `cybox.common.properties.String`
XML Binding class name: `By`
Dictionary key name: `by`

for_

Type: `cybox.common.properties.String`
XML Binding class name: `For`
Dictionary key name: `for`

from_

Type: `cybox.common.properties.String`
XML Binding class name: `From`
Dictionary key name: `from`

id_

Type: `cybox.common.properties.String`
XML Binding class name: `ID`
Dictionary key name: `id`

timestamp

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Timestamp`
Dictionary key name: `timestamp`

via

Type: `cybox.common.properties.String`
XML Binding class name: `Via`
Dictionary key name: `via`

with_

Type: `cybox.common.properties.String`
XML Binding class name: `With`
Dictionary key name: `with`

class `cybox.objects.email_message_object.ReceivedLineList` (*args)
Bases: `cybox.EntityList`

XML binding class:
`cybox.bindings.email_message_object.EmailReceivedLineListType`

Version: 2.1.0.11

`cybox.objects.file_object` module

class `cybox.objects.file_object.EPJumpCode`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.file_object.EPJumpCodeType`

depth

Type: `cybox.common.properties.Integer`
XML Binding class name: `Depth`
Dictionary key name: `depth`

opcodes

Type: `cybox.common.properties.String`
XML Binding class name: `Opcodes`
Dictionary key name: `opcodes`

class `cybox.objects.file_object.EntryPointSignature`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.file_object.EntryPointSignatureType`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

type_

Type: `cybox.common.properties.String`
XML Binding class name: `Type`

Dictionary key name: type

class `cybox.objects.file_object.EntryPointSignatureList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.file_object.EntryPointSignatureListType`

class `cybox.objects.file_object.File`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.file_object.FileObjectType`

accessed_time

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Accessed_Time`
Dictionary key name: `accessed_time`

add_hash (*hash_*)

byte_runs

Type: `cybox.common.byterun.ByteRuns`
XML Binding class name: `Byte_Runs`
Dictionary key name: `byte_runs`

compression_comment

Type: `cybox.common.properties.String`
XML Binding class name: `Compression_Comment`
Dictionary key name: `compression_comment`

compression_method

Type: `cybox.common.properties.String`
XML Binding class name: `Compression_Method`
Dictionary key name: `compression_method`

compression_version

Type: `cybox.common.properties.String`
XML Binding class name: `Compression_Version`
Dictionary key name: `compression_version`

created_time

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Created_Time`
Dictionary key name: `created_time`

decryption_key

Type: `cybox.common.properties.String`

XML Binding class name: `Decryption_Key`

Dictionary key name: `decryption_key`

device_path

Type: `cybox.common.properties.String`

XML Binding class name: `Device_Path`

Dictionary key name: `device_path`

digital_signatures

Type: `cybox.common.digitalsignature.DigitalSignatureList`

XML Binding class name: `Digital_Signatures`

Dictionary key name: `digital_signatures`

encryption_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: `Encryption_Algorithm`

Dictionary key name: `encryption_algorithm`

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: `Extracted_Features`

Dictionary key name: `extracted_features`

file_attributes_list

Type: `cybox.objects.file_object.FileAttribute`

XML Binding class name: `File_Attributes_List`

Dictionary key name: `file_attributes_list`

file_extension

Type: `cybox.common.properties.String`

XML Binding class name: `File_Extension`

Dictionary key name: `file_extension`

file_format

Type: `cybox.common.properties.String`

XML Binding class name: `File_Format`

Dictionary key name: `file_format`

file_name

Type: `cybox.common.properties.String`

XML Binding class name: File_Name

Dictionary key name: file_name

file_path

Type: `cybox.objects.file_object.FilePath`

XML Binding class name: File_Path

Dictionary key name: file_path

full_path

Type: `cybox.common.properties.String`

XML Binding class name: Full_Path

Dictionary key name: full_path

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

is_masqueraded

XML Binding class name: is_masqueraded

Dictionary key name: is_masqueraded

is_packed

XML Binding class name: is_packed

Dictionary key name: is_packed

magic_number

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Magic_Number

Dictionary key name: magic_number

modified_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Modified_Time

Dictionary key name: modified_time

packer_list

Type: `cybox.objects.file_object.PackerList`

XML Binding class name: Packer_List

Dictionary key name: packer_list

peak_entropy

Type: `cybox.common.properties.Double`

XML Binding class name: Peak_Entropy

Dictionary key name: peak_entropy

permissions

Type: `cybox.objects.file_object.FilePermissions`

XML Binding class name: Permissions

Dictionary key name: permissions

size_in_bytes

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Size_In_Bytes

Dictionary key name: size_in_bytes

sym_links

Type: `cybox.objects.file_object.SymLinksList`

XML Binding class name: Sym_Links

Dictionary key name: sym_links

user_owner

Type: `cybox.common.properties.String`

XML Binding class name: User_Owner

Dictionary key name: user_owner

class `cybox.objects.file_object.FileAttribute`

Bases: `cybox.Entity`

An abstract class for file attributes.

XML binding class: <undefined>

class `cybox.objects.file_object.FilePath(*args, **kwargs)`

Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.file_object.FilePathType`

static from_dict (*filepath_dict*)

static from_obj (*filepath_obj*)

is_plain ()

to_dict ()

to_obj (*return_obj=None, ns_info=None*)

class `cybox.objects.file_object.FilePermissions`

Bases: `cybox.Entity`

An abstract class for file permissions.

XML binding class: <undefined>

class `cybox.objects.file_object.Packer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.file_object.PackerType`

detected_entrypoint_signatures

Type: `cybox.objects.file_object.EntryPointSignatureList`

XML Binding class name: `Detected_Entrypoint_Signatures`

Dictionary key name: `detected_entrypoint_signatures`

entry_point

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Entry_Point`

Dictionary key name: `entry_point`

ep_jump_codes

Type: `cybox.objects.file_object.EPJumpCode`

XML Binding class name: `EP_Jump_Codes`

Dictionary key name: `ep_jump_codes`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

signature

Type: `cybox.common.properties.String`

XML Binding class name: `Signature`

Dictionary key name: `signature`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

version

Type: `cybox.common.properties.String`

XML Binding class name: `Version`

Dictionary key name: `version`

class `cybox.objects.file_object.PackerList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.file_object.PackerListType`

class `cybox.objects.file_object.SymLinksList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.file_object.SymLinksListType`

Version: 2.1.0.11

`cybox.objects.gui_dialogbox_object` module

class `cybox.objects.gui_dialogbox_object.GUIDialogbox`
Bases: `cybox.objects.gui_object.GUI`

XML binding class: `cybox.bindings.gui_dialogbox_object.GUIDialogboxObjectType`

`box_caption`

Type: `cybox.common.properties.String`
XML Binding class name: `Box_Caption`
Dictionary key name: `box_caption`

`box_text`

Type: `cybox.common.properties.String`
XML Binding class name: `Box_Text`
Dictionary key name: `box_text`

Version: 2.1.0.11

`cybox.objects.gui_object` module

class `cybox.objects.gui_object.GUI`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.gui_object.GUIObjectType`

`height`

Type: `cybox.common.properties.Integer`

XML Binding class name: Height

Dictionary key name: height

width

Type: `cybox.common.properties.Integer`

XML Binding class name: Width

Dictionary key name: width

Version: 2.1.0.11

cybox.objects.gui_window_object module

class `cybox.objects.gui_window_object.GUIWindow`

Bases: `cybox.objects.gui_object.GUI`

XML binding class: `cybox.bindings.gui_window_object.GUIWindowObjectType`

owner_window

Type: `cybox.common.properties.String`

XML Binding class name: Owner_Window

Dictionary key name: owner_window

parent_window

Type: `cybox.common.properties.String`

XML Binding class name: Parent_Window

Dictionary key name: parent_window

window_display_name

Type: `cybox.common.properties.String`

XML Binding class name: Window_Display_Name

Dictionary key name: window_display_name

Version: 2.1.0.11

cybox.objects.hostname_object module

class `cybox.objects.hostname_object.Hostname`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.hostname_object.HostnameObjectType`

hostname_value

Type: `cybox.common.properties.String`
XML Binding class name: `Hostname_Value`
Dictionary key name: `hostname_value`

is_domain_name

XML Binding class name: `is_domain_name`
Dictionary key name: `is_domain_name`

naming_system

(List of values permitted)
Type: `cybox.common.properties.String`
XML Binding class name: `Naming_System`
Dictionary key name: `naming_system`

Version: 2.1.0.11

cybox.objects.http_session_object module

class `cybox.objects.http_session_object.HTTPClientRequest`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPClientRequestType`

http_message_body

Type: `cybox.objects.http_session_object.HTTPMessage`
XML Binding class name: `HTTP_Message_Body`
Dictionary key name: `http_message_body`

http_request_header

Type: `cybox.objects.http_session_object.HTTPRequestHeader`
XML Binding class name: `HTTP_Request_Header`
Dictionary key name: `http_request_header`

http_request_line

Type: `cybox.objects.http_session_object.HTTPRequestLine`
XML Binding class name: `HTTP_Request_Line`
Dictionary key name: `http_request_line`

class `cybox.objects.http_session_object.HTTPMessage`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPMessageType`

length

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: Length

Dictionary key name: length

message_body

Type: `cybox.common.properties.String`

XML Binding class name: Message_Body

Dictionary key name: message_body

class `cybox.objects.http_session_object.HTTPRequestHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPRequestHeaderType`

parsed_header

Type: `cybox.objects.http_session_object.HTTPRequestHeaderFields`

XML Binding class name: Parsed_Header

Dictionary key name: parsed_header

raw_header

Type: `cybox.common.properties.String`

XML Binding class name: Raw_Header

Dictionary key name: raw_header

class `cybox.objects.http_session_object.HTTPRequestHeaderFields`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.http_session_object.HTTPRequestHeaderFieldsType`

accept

Type: `cybox.common.properties.String`

XML Binding class name: Accept

Dictionary key name: accept

accept_charset

Type: `cybox.common.properties.String`

XML Binding class name: Accept_Charset

Dictionary key name: accept_charset

accept_datetime

Type: `cybox.common.properties.String`

XML Binding class name: `Accept_Datetime`

Dictionary key name: `accept_datetime`

accept_encoding

Type: `cybox.common.properties.String`

XML Binding class name: `Accept_Encoding`

Dictionary key name: `accept_encoding`

accept_language

Type: `cybox.common.properties.String`

XML Binding class name: `Accept_Language`

Dictionary key name: `accept_language`

authorization

Type: `cybox.common.properties.String`

XML Binding class name: `Authorization`

Dictionary key name: `authorization`

cache_control

Type: `cybox.common.properties.String`

XML Binding class name: `Cache_Control`

Dictionary key name: `cache_control`

connection

Type: `cybox.common.properties.String`

XML Binding class name: `Connection`

Dictionary key name: `connection`

content_length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Content_Length`

Dictionary key name: `content_length`

content_md5

Type: `cybox.common.properties.String`

XML Binding class name: `Content_MD5`

Dictionary key name: `content_md5`

content_type

Type: `cybox.common.properties.String`

XML Binding class name: Content_Type
Dictionary key name: content_type

cookie

Type: `cybox.common.properties.String`
XML Binding class name: Cookie
Dictionary key name: cookie

date

Type: `cybox.common.properties.DateTime`
XML Binding class name: Date
Dictionary key name: date

dnt

Type: `cybox.common.properties.String`
XML Binding class name: DNT
Dictionary key name: dnt

expect

Type: `cybox.common.properties.String`
XML Binding class name: Expect
Dictionary key name: expect

from_

Type: `cybox.objects.address_object.EmailAddress`
XML Binding class name: From
Dictionary key name: from

host

Type: `cybox.objects.http_session_object.HostField`
XML Binding class name: Host
Dictionary key name: host

if_match

Type: `cybox.common.properties.String`
XML Binding class name: If_Match
Dictionary key name: if_match

if_modified_since

Type: `cybox.common.properties.DateTime`
XML Binding class name: If_Modified_Since
Dictionary key name: if_modified_since

if_none_match

Type: `cybox.common.properties.String`

XML Binding class name: `If_None_Match`

Dictionary key name: `if_none_match`

if_range

Type: `cybox.common.properties.String`

XML Binding class name: `If_Range`

Dictionary key name: `if_range`

if_unmodified_since

Type: `cybox.common.properties.DateTime`

XML Binding class name: `If_Unmodified_Since`

Dictionary key name: `if_unmodified_since`

max_forwards

Type: `cybox.common.properties.Integer`

XML Binding class name: `Max_Forwards`

Dictionary key name: `max_forwards`

pragma

Type: `cybox.common.properties.String`

XML Binding class name: `Pragma`

Dictionary key name: `pragma`

proxy_authorization

Type: `cybox.common.properties.String`

XML Binding class name: `Proxy_Authorization`

Dictionary key name: `proxy_authorization`

range_

Type: `cybox.common.properties.String`

XML Binding class name: `Range`

Dictionary key name: `range`

referer

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Referer`

Dictionary key name: `referer`

te

Type: `cybox.common.properties.String`

XML Binding class name: TE

Dictionary key name: te

user_agent

Type: `cybox.common.properties.String`

XML Binding class name: User_Agent

Dictionary key name: user_agent

via

Type: `cybox.common.properties.String`

XML Binding class name: Via

Dictionary key name: via

warning

Type: `cybox.common.properties.String`

XML Binding class name: Warning

Dictionary key name: warning

x_att_deviceid

Type: `cybox.common.properties.String`

XML Binding class name: X_ATT_DeviceId

Dictionary key name: x_att_deviceid

x_forwarded_for

Type: `cybox.common.properties.String`

XML Binding class name: X_Forwarded_For

Dictionary key name: x_forwarded_for

x_forwarded_proto

Type: `cybox.common.properties.String`

XML Binding class name: X_Forwarded_Proto

Dictionary key name: x_forwarded_proto

x_requested_with

Type: `cybox.common.properties.String`

XML Binding class name: X_Requested_With

Dictionary key name: x_requested_with

x_wap_profile

Type: `cybox.objects.uri_object.URI`

XML Binding class name: X_Wap_Profile

Dictionary key name: x_wap_profile

class `cybox.objects.http_session_object.HTTPRequestLine`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPRequestLineType`

http_method

Type: `cybox.common.properties.String`
XML Binding class name: `HTTP_Method`
Dictionary key name: `http_method`

value

Type: `cybox.common.properties.String`
XML Binding class name: `Value`
Dictionary key name: `value`

version

Type: `cybox.common.properties.String`
XML Binding class name: `Version`
Dictionary key name: `version`

class `cybox.objects.http_session_object.HTTPRequestResponse`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPRequestResponseType`

http_client_request

Type: `cybox.objects.http_session_object.HTTPClientRequest`
XML Binding class name: `HTTP_Client_Request`
Dictionary key name: `http_client_request`

http_provisional_server_response

Type: `cybox.objects.http_session_object.HTTPServerResponse`
XML Binding class name: `HTTP_Provisional_Server_Response`
Dictionary key name: `http_provisional_server_response`

http_server_response

Type: `cybox.objects.http_session_object.HTTPServerResponse`
XML Binding class name: `HTTP_Server_Response`
Dictionary key name: `http_server_response`

ordinal_position

XML Binding class name: ordinal_position

Dictionary key name: ordinal_position

class cybox.objects.http_session_object.HTTPResponseHeader

Bases: cybox.Entity

XML binding class: cybox.bindings.http_session_object.HTTPResponseHeaderType

parsed_header

Type: cybox.objects.http_session_object.HTTPResponseHeaderFields

XML Binding class name: Parsed_Header

Dictionary key name: parsed_header

raw_header

Type: cybox.common.properties.String

XML Binding class name: Raw_Header

Dictionary key name: raw_header

class cybox.objects.http_session_object.HTTPResponseHeaderFields

Bases: cybox.Entity

XML binding class:

cybox.bindings.http_session_object.HTTPResponseHeaderFieldsType

accept_ranges

Type: cybox.common.properties.String

XML Binding class name: Accept_Ranges

Dictionary key name: accept_ranges

access_control_allow_origin

Type: cybox.common.properties.String

XML Binding class name: Access_Control-Allow-Origin

Dictionary key name: access_control_allow_origin

age

Type: cybox.common.properties.Integer

XML Binding class name: Age

Dictionary key name: age

cache_control

Type: cybox.common.properties.String

XML Binding class name: Cache_Control

Dictionary key name: `cache_control`

connection

Type: `cybox.common.properties.String`

XML Binding class name: `Connection`

Dictionary key name: `connection`

content_disposition

Type: `cybox.common.properties.String`

XML Binding class name: `Content_Disposition`

Dictionary key name: `content_disposition`

content_encoding

Type: `cybox.common.properties.String`

XML Binding class name: `Content_Encoding`

Dictionary key name: `content_encoding`

content_language

Type: `cybox.common.properties.String`

XML Binding class name: `Content_Language`

Dictionary key name: `content_language`

content_length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Content_Length`

Dictionary key name: `content_length`

content_location

Type: `cybox.common.properties.String`

XML Binding class name: `Content_Location`

Dictionary key name: `content_location`

content_md5

Type: `cybox.common.properties.String`

XML Binding class name: `Content_MD5`

Dictionary key name: `content_md5`

content_range

Type: `cybox.common.properties.String`

XML Binding class name: `Content_Range`

Dictionary key name: `content_range`

content_type

Type: `cybox.common.properties.String`
XML Binding class name: `Content_Type`
Dictionary key name: `content_type`

date

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Date`
Dictionary key name: `date`

etag

Type: `cybox.common.properties.String`
XML Binding class name: `ETag`
Dictionary key name: `etag`

expires

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Expires`
Dictionary key name: `expires`

last_modified

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Last_Modified`
Dictionary key name: `last_modified`

link

Type: `cybox.common.properties.String`
XML Binding class name: `Link`
Dictionary key name: `link`

location

Type: `cybox.objects.uri_object.URI`
XML Binding class name: `Location`
Dictionary key name: `location`

p3p

Type: `cybox.common.properties.String`
XML Binding class name: `P3P`
Dictionary key name: `p3p`

pragma

Type: `cybox.common.properties.String`
XML Binding class name: `Pragma`
Dictionary key name: `pragma`

proxy_authenticate

Type: `cybox.common.properties.String`
XML Binding class name: `Proxy_Authenticate`
Dictionary key name: `proxy_authenticate`

refresh

Type: `cybox.common.properties.String`
XML Binding class name: `Refresh`
Dictionary key name: `refresh`

retry_after

Type: `cybox.common.properties.Integer`
XML Binding class name: `Retry_After`
Dictionary key name: `retry_after`

server

Type: `cybox.common.properties.String`
XML Binding class name: `Server`
Dictionary key name: `server`

set_cookie

Type: `cybox.common.properties.String`
XML Binding class name: `Set_Cookie`
Dictionary key name: `set_cookie`

strict_transport_security

Type: `cybox.common.properties.String`
XML Binding class name: `Strict_Transport_Security`
Dictionary key name: `strict_transport_security`

trailer

Type: `cybox.common.properties.String`
XML Binding class name: `Trailer`
Dictionary key name: `trailer`

transfer_encoding

Type: `cybox.common.properties.String`
XML Binding class name: `Transfer_Encoding`
Dictionary key name: `transfer_encoding`

vary

Type: `cybox.common.properties.String`

XML Binding class name: Vary

Dictionary key name: vary

via

Type: `cybox.common.properties.String`

XML Binding class name: Via

Dictionary key name: via

warning

Type: `cybox.common.properties.String`

XML Binding class name: Warning

Dictionary key name: warning

www_authenticate

Type: `cybox.common.properties.String`

XML Binding class name: WWW_Authenticate

Dictionary key name: www_authenticate

x_content_type_options

Type: `cybox.common.properties.String`

XML Binding class name: X_Content_Type_Options

Dictionary key name: x_content_type_options

x_frame_options

Type: `cybox.common.properties.String`

XML Binding class name: X_Frame_Options

Dictionary key name: x_frame_options

x_powered_by

Type: `cybox.common.properties.String`

XML Binding class name: X_Powered_By

Dictionary key name: x_powered_by

x_ua_compatible

Type: `cybox.common.properties.String`

XML Binding class name: X_UA_Compatible

Dictionary key name: x_ua_compatible

x_xss_protection

Type: `cybox.common.properties.String`

XML Binding class name: X_XSS_Protection

Dictionary key name: x_xss_protection

class `cybox.objects.http_session_object.HTTPServerResponse`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPServerResponseType`

http_message_body

Type: `cybox.objects.http_session_object.HTTPMessage`
XML Binding class name: `HTTP_Message_Body`
Dictionary key name: `http_message_body`

http_response_header

Type: `cybox.objects.http_session_object.HTTPResponseHeader`
XML Binding class name: `HTTP_Response_Header`
Dictionary key name: `http_response_header`

http_status_line

Type: `cybox.objects.http_session_object.HTTPStatusLine`
XML Binding class name: `HTTP_Status_Line`
Dictionary key name: `http_status_line`

class `cybox.objects.http_session_object.HTTPSession`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.http_session_object.HTTPSessionObjectType`

http_request_response

(List of values permitted)
Type: `cybox.objects.http_session_object.HTTPRequestResponse`
XML Binding class name: `HTTP_Request_Response`
Dictionary key name: `http_request_response`

class `cybox.objects.http_session_object.HTTPStatusLine`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HTTPStatusLineType`

reason_phrase

Type: `cybox.common.properties.String`
XML Binding class name: `Reason_Phrase`
Dictionary key name: `reason_phrase`

status_code

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Status_Code`

Dictionary key name: `status_code`

version

Type: `cybox.common.properties.String`

XML Binding class name: `Version`

Dictionary key name: `version`

class `cybox.objects.http_session_object.HostField`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.http_session_object.HostFieldType`

domain_name

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Domain_Name`

Dictionary key name: `domain_name`

port

Type: `cybox.objects.port_object.Port`

XML Binding class name: `Port`

Dictionary key name: `port`

Version: 2.1.0.11

cybox.objects.image_file_object module

class `cybox.objects.image_file_object.ImageFile`

Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.file_object.FileObjectType`

bits_per_pixel

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Bits_Per_Pixel`

Dictionary key name: `bits_per_pixel`

compression_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: `Compression_Algorithm`

Dictionary key name: `compression_algorithm`

image_file_format

Type: `cybox.common.properties.String`

XML Binding class name: `Image_File_Format`

Dictionary key name: `image_file_format`

image_height

Type: `cybox.common.properties.Integer`

XML Binding class name: `Image_Height`

Dictionary key name: `image_height`

image_is_compressed

XML Binding class name: `image_is_compressed`

Dictionary key name: `image_is_compressed`

image_width

Type: `cybox.common.properties.Integer`

XML Binding class name: `Image_Width`

Dictionary key name: `image_width`

Version: 2.1.0.11

cybox.objects.library_object module

class `cybox.objects.library_object.Library`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.library_object.LibraryObjectType`

base_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Base_Address`

Dictionary key name: `base_address`

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: `Extracted_Features`

Dictionary key name: `extracted_features`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

path

Type: `cybox.common.properties.String`
XML Binding class name: `Path`
Dictionary key name: `path`

size

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Size`
Dictionary key name: `size`

type_

Type: `cybox.common.properties.String`
XML Binding class name: `Type`
Dictionary key name: `type`

version

Type: `cybox.common.properties.String`
XML Binding class name: `Version`
Dictionary key name: `version`

Version: 2.1.0.11

cybox.objects.link_object module

class `cybox.objects.link_object.Link` (*value=None, type_=None*)
Bases: `cybox.objects.uri_object.URI`

XML binding class: `cybox.bindings.link_object.LinkObjectType`

url_label

Type: `cybox.common.properties.String`
XML Binding class name: `URL_Label`
Dictionary key name: `url_label`

Version: 2.1.0.11

cybox.objects.linux_package_object module

class `cybox.objects.linux_package_object.LinuxPackage`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.linux_package_object.LinuxPackageObjectType`

architecture

TypedField subclass for VocabString fields.

Type: `cybox.common.vocabs.VocabString`

XML Binding class name: Architecture

Dictionary key name: architecture

category

Type: `cybox.common.properties.String`

XML Binding class name: Category

Dictionary key name: category

description

Type: `cybox.common.properties.String`

XML Binding class name: Description

Dictionary key name: description

epoch

Type: `cybox.common.properties.String`

XML Binding class name: Epoch

Dictionary key name: epoch

evr

Type: `cybox.common.properties.String`

XML Binding class name: EVR

Dictionary key name: evr

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

release

Type: `cybox.common.properties.String`

XML Binding class name: Release

Dictionary key name: release

vendor

Type: `cybox.common.properties.String`

XML Binding class name: Vendor

Dictionary key name: vendor

version

Type: `cybox.common.properties.String`

XML Binding class name: Version

Dictionary key name: version

class `cybox.objects.linux_package_object.LinuxPackageArchitecture` (*value=None*)

Bases: `cybox.common.vocabs.VocabString`

XML binding class: `cybox.bindings.cybox_common.ControlledVocabularyStringType`

Version: 2.1.0.11

`cybox.objects.memory_object` module

class `cybox.objects.memory_object.Memory`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.memory_object.MemoryObjectType`

block_type

Type: `cybox.common.properties.String`

XML Binding class name: Block_Type

Dictionary key name: block_type

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

is_injected

XML Binding class name: is_injected

Dictionary key name: is_injected

is_mapped

XML Binding class name: `is_mapped`

Dictionary key name: `is_mapped`

is_protected

XML Binding class name: `is_protected`

Dictionary key name: `is_protected`

is_volatile

XML Binding class name: `is_volatile`

Dictionary key name: `is_volatile`

memory_source

Type: `cybox.common.properties.String`

XML Binding class name: `Memory_Source`

Dictionary key name: `memory_source`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

region_end_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Region_End_Address`

Dictionary key name: `region_end_address`

region_size

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Region_Size`

Dictionary key name: `region_size`

region_start_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Region_Start_Address`

Dictionary key name: `region_start_address`

Version: 2.1.0.11

cybox.objects.mutex_object module

class `cybox.objects.mutex_object.Mutex`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.mutex_object.MutexObjectType`

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

named

XML Binding class name: named

Dictionary key name: named

Version: 2.1.0.11

cybox.objects.network_connection_object module

class `cybox.objects.network_connection_object.Layer7Connections`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_connection_object.Layer7ConnectionsType`

dns_query

(List of values permitted)

Type: `cybox.objects.dns_query_object.DNSQuery`

XML Binding class name: DNS_Query

Dictionary key name: dns_query

http_session

Type: `cybox.objects.http_session_object.HTTPSession`

XML Binding class name: HTTP_Session

Dictionary key name: http_session

class `cybox.objects.network_connection_object.NetworkConnection`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.network_connection_object.NetworkConnectionObjectType`

creation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Creation_Time

Dictionary key name: creation_time

destination_socket_address

Type: `cybox.objects.socket_address_object.SocketAddress`
XML Binding class name: `Destination_Socket_Address`
Dictionary key name: `destination_socket_address`

destination_tcp_state

XML Binding class name: `Destination_TCP_State`
Dictionary key name: `destination_tcp_state`

layer3_protocol

Type: `cybox.common.properties.String`
XML Binding class name: `Layer3_Protocol`
Dictionary key name: `layer3_protocol`

layer4_protocol

Type: `cybox.common.properties.String`
XML Binding class name: `Layer4_Protocol`
Dictionary key name: `layer4_protocol`

layer7_connections

Type: `cybox.objects.network_connection_object.Layer7Connections`
XML Binding class name: `Layer7_Connections`
Dictionary key name: `layer7_connections`

layer7_protocol

Type: `cybox.common.properties.String`
XML Binding class name: `Layer7_Protocol`
Dictionary key name: `layer7_protocol`

source_socket_address

Type: `cybox.objects.socket_address_object.SocketAddress`
XML Binding class name: `Source_Socket_Address`
Dictionary key name: `source_socket_address`

source_tcp_state

XML Binding class name: `Source_TCP_State`
Dictionary key name: `source_tcp_state`

tls_used

XML Binding class name: `tls_used`
Dictionary key name: `tls_used`

Version: 2.1.0.11

cybox.objects.network_packet_object module

class cybox.objects.network_packet_object.**ARP**
Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.ARPTyp

hardware_addr_size

Type: cybox.common.properties.HexBinary
XML Binding class name: Hardware_Addr_Size
Dictionary key name: hardware_addr_size

hardware_addr_type

Type: cybox.common.properties.String
XML Binding class name: Hardware_Addr_Type
Dictionary key name: hardware_addr_type

op_type

Type: cybox.common.properties.String
XML Binding class name: Op_Type
Dictionary key name: op_type

proto_addr_size

Type: cybox.common.properties.HexBinary
XML Binding class name: Proto_Addr_Size
Dictionary key name: proto_addr_size

proto_addr_type

Type: cybox.common.properties.String
XML Binding class name: Proto_Addr_Type
Dictionary key name: proto_addr_type

recip_hardware_addr

Type: cybox.objects.address_object.Address
XML Binding class name: Recip_Hardware_Addr
Dictionary key name: recip_hardware_addr

recip_protocol_addr

Type: cybox.objects.address_object.Address
XML Binding class name: Recip_Protocol_Addr
Dictionary key name: recip_protocol_addr

sender_hardware_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Sender_Hardware_Addr`

Dictionary key name: `sender_hardware_addr`

sender_protocol_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Sender_Protocol_Addr`

Dictionary key name: `sender_protocol_addr`

class `cybox.objects.network_packet_object.AuthenticationHeader`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.AuthenticationHeaderType`

Authentication_Data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Authentication_Data`

Dictionary key name: `authentication_data`

header_ext_len

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Header_Ext_Len`

Dictionary key name: `header_ext_len`

next_header

Type: `cybox.common.properties.String`

XML Binding class name: `Next_Header`

Dictionary key name: `next_header`

security_parameters_index

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Security_Parameters_Index`

Dictionary key name: `security_parameters_index`

sequence_number

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Sequence_Number`

Dictionary key name: `sequence_number`

class `cybox.objects.network_packet_object.DestinationOptions`

Bases: `cybox.objects.network_packet_object._IPv6ExtHeader`

XML binding class: `cybox.bindings.network_packet_object.DestinationOptionsType`

class `cybox.objects.network_packet_object.EncapsulatingSecurityPayload`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.EncapsulatingSecurityPayloadType`

authentication_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Authentication_Data`

Dictionary key name: `authentication_data`

next_header

Type: `cybox.common.properties.String`

XML Binding class name: `Next_Header`

Dictionary key name: `next_header`

padding

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Padding`

Dictionary key name: `padding`

padding_len

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Padding_Len`

Dictionary key name: `padding_len`

payload_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Payload_Data`

Dictionary key name: `payload_data`

security_parameters_index

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Security_Parameters_Index`

Dictionary key name: `security_parameters_index`

sequence_number

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Sequence_Number`

Dictionary key name: `sequence_number`

class `cybox.objects.network_packet_object.EthernetHeader`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.EthernetHeaderType`

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Checksum`

Dictionary key name: `checksum`

destination_mac_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Destination_MAC_Addr`

Dictionary key name: `destination_mac_addr`

source_mac_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Source_MAC_Addr`

Dictionary key name: `source_mac_addr`

type_or_length

Type: `cybox.objects.network_packet_object.TypeLength`

XML Binding class name: `Type_Or_Length`

Dictionary key name: `type_or_length`

class `cybox.objects.network_packet_object.EthernetInterface`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.EthernetInterfaceType`

ethernet_header

Type: `cybox.objects.network_packet_object.EthernetHeader`

XML Binding class name: `Ethernet_Header`

Dictionary key name: `ethernet_header`

class `cybox.objects.network_packet_object.Fragment`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.FragmentType`

fragment

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Fragment`

Dictionary key name: `fragment`

fragment_header

Type: `cybox.objects.network_packet_object.FragmentHeader`

XML Binding class name: `Fragment_Header`

Dictionary key name: `fragment_header`

class `cybox.objects.network_packet_object.FragmentHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.FragmentHeaderType`

fragment_offset

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Fragment_Offset`

Dictionary key name: `fragment_offset`

identification

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Identification`

Dictionary key name: `identification`

m_flag

Type: `cybox.common.properties.String`

XML Binding class name: `M_Flag`

Dictionary key name: `m_flag`

next_header

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Next_Header`

Dictionary key name: `next_header`

class `cybox.objects.network_packet_object.FragmentationRequired`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.FragmentationRequiredType`

fragmentation_required

XML Binding class name: Fragmentation_Required

Dictionary key name: fragmentation_required

next_hop_mtu

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Next_Hop_MTU

Dictionary key name: next_hop_mtu

class `cybox.objects.network_packet_object.HopByHopOptions`

Bases: `cybox.objects.network_packet_object._IPv6ExtHeader`

XML binding class: `cybox.bindings.network_packet_object.HopByHopOptionsType`

class `cybox.objects.network_packet_object.ICMPv4AddressMaskReply`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4AddressMaskReplyType`

address_mask

Type: `cybox.objects.address_object.Address`

XML Binding class name: Address_Mask

Dictionary key name: address_mask

address_mask_reply

XML Binding class name: Address_Mask_Reply

Dictionary key name: address_mask_reply

class `cybox.objects.network_packet_object.ICMPv4AddressMaskRequest`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4AddressMaskRequestType`

address_mask

Type: `cybox.objects.address_object.Address`

XML Binding class name: Address_Mask

Dictionary key name: address_mask

address_mask_request

XML Binding class name: Address_Mask_Request

Dictionary key name: address_mask_request

class cybox.objects.network_packet_object.ICMPv4DestinationUnreachable

Bases: cybox.Entity

XML binding class:

cybox.bindings.network_packet_object.ICMPv4DestinationUnreachableType

communication_administratively_prohibited

XML Binding class name: Communication_Administratively_Prohibited

Dictionary key name: communication_administratively_prohibited

destination_host_unknown

XML Binding class name: Destination_Host_Unknown

Dictionary key name: destination_host_unknown

destination_host_unreachable

XML Binding class name: Destination_Host_Unreachable

Dictionary key name: destination_host_unreachable

destination_network_unknown

XML Binding class name: Destination_Network_Unknown

Dictionary key name: destination_network_unknown

destination_network_unreachable

XML Binding class name: Destination_Network_Unreachable

Dictionary key name: destination_network_unreachable

destination_port_unreachable

XML Binding class name: Destination_Port_Unreachable

Dictionary key name: destination_port_unreachable

destination_protocol_unreachable

XML Binding class name: Destination_Protocol_Unreachable

Dictionary key name: destination_protocol_unreachable

fragmentation_required

Type: cybox.objects.network_packet_object.FragmentationRequired

XML Binding class name: Fragmentation_Required

Dictionary key name: fragmentation_required

host_administratively_prohibited

XML Binding class name: Host_Administratively_Prohibited

Dictionary key name: host_administratively_prohibited

host_precedence_violation

XML Binding class name: Host_Precedence_Violation

Dictionary key name: host_precedence_violation

host_unreachable_for_tos

XML Binding class name: Host_Unreachable_For_TOS

Dictionary key name: host_unreachable_for_tos

network_administratively_prohibited

XML Binding class name: Network_Administratively_Prohibited

Dictionary key name: network_administratively_prohibited

network_unreachable_for_tos

XML Binding class name: Network_Unreachable_For_TOS

Dictionary key name: network_unreachable_for_tos

precedence_cutoff_in_effect

XML Binding class name: Precedence_Cutoff_In_Effect

Dictionary key name: precedence_cutoff_in_effect

source_host_isolated

XML Binding class name: Source_Host_Isolated

Dictionary key name: source_host_isolated

source_route_failed

XML Binding class name: Source_Route_Failed

Dictionary key name: source_route_failed

class cybox.objects.network_packet_object.ICMPv4EchoReply

Bases: cybox.objects.network_packet_object._ICMPEchoReply

XML binding class: cybox.bindings.network_packet_object.ICMPv4EchoReplyType

class cybox.objects.network_packet_object.ICMPv4EchoRequest

Bases: cybox.objects.network_packet_object._ICMPEchoRequest

XML binding class: cybox.bindings.network_packet_object.ICMPv4EchoRequestType

class `cybox.objects.network_packet_object.ICMPv4ErrorMessage`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4ErrorMessageType`

destination_unreachable

Type: `cybox.objects.network_packet_object.ICMPv4DestinationUnreachable`
XML Binding class name: `Destination_Unreachable`
Dictionary key name: `destination_unreachable`

error_msg_content

Type: `cybox.objects.network_packet_object.ICMPv4ErrorMessageContent`
XML Binding class name: `Error_Msg_Content`
Dictionary key name: `error_msg_content`

redirect_message

Type: `cybox.objects.network_packet_object.ICMPv4RedirectMessage`
XML Binding class name: `Redirect_Message`
Dictionary key name: `redirect_message`

source_quench

Type: `cybox.objects.network_packet_object.ICMPv4SourceQuench`
XML Binding class name: `Source_Quench`
Dictionary key name: `source_quench`

time_exceeded

Type: `cybox.objects.network_packet_object.ICMPv4TimeExceeded`
XML Binding class name: `Time_Exceeded`
Dictionary key name: `time_exceeded`

class `cybox.objects.network_packet_object.ICMPv4ErrorMessageContent`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.network_packet_object.ICMPv4ErrorMessageContentType`

first_eight_bytes

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `First_Eight_Bytes`
Dictionary key name: `first_eight_bytes`

ip_header

Type: `cybox.objects.network_packet_object.IPv4Header`

XML Binding class name: `IP_Header`

Dictionary key name: `ip_header`

class `cybox.objects.network_packet_object.ICMPv4Header`

Bases: `cybox.objects.network_packet_object._ICMPHeader`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4HeaderType`

class `cybox.objects.network_packet_object.ICMPv4InfoMessage`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4InfoMessageType`

address_mask_reply

Type: `cybox.objects.network_packet_object.ICMPv4AddressMaskReply`

XML Binding class name: `Address_Mask_Reply`

Dictionary key name: `address_mask_reply`

address_mask_request

Type: `cybox.objects.network_packet_object.ICMPv4AddressMaskRequest`

XML Binding class name: `Address_Mask_Request`

Dictionary key name: `address_mask_request`

echo_reply

Type: `cybox.objects.network_packet_object.ICMPv4EchoReply`

XML Binding class name: `Echo_Reply`

Dictionary key name: `echo_reply`

echo_request

Type: `cybox.objects.network_packet_object.ICMPv4EchoRequest`

XML Binding class name: `Echo_Request`

Dictionary key name: `echo_request`

info_msg_content

Type: `cybox.objects.network_packet_object.ICMPv4InfoMessageContent`

XML Binding class name: `Info_Msg_Content`

Dictionary key name: `info_msg_content`

timestamp_reply

Type: `cybox.objects.network_packet_object.ICMPv4TimestampReply`
XML Binding class name: `Timestamp_Reply`
Dictionary key name: `timestamp_reply`

timestamp_request

Type: `cybox.objects.network_packet_object.ICMPv4TimestampRequest`
XML Binding class name: `Timestamp_Request`
Dictionary key name: `timestamp_request`

class `cybox.objects.network_packet_object.ICMPv4InfoMessageContent`
Bases: `cybox.objects.network_packet_object._ICMPInfoMessageContent`

XML binding class:
`cybox.bindings.network_packet_object.ICMPv4InfoMessageContentType`

class `cybox.objects.network_packet_object.ICMPv4Packet`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4PacketType`

error_msg

Type: `cybox.objects.network_packet_object.ICMPv4ErrorMessage`
XML Binding class name: `Error_Msg`
Dictionary key name: `error_msg`

icmpv4_header

Type: `cybox.objects.network_packet_object.ICMPv4Header`
XML Binding class name: `ICMPv4_Header`
Dictionary key name: `icmpv4_header`

info_msg

Type: `cybox.objects.network_packet_object.ICMPv4InfoMessage`
XML Binding class name: `Info_Msg`
Dictionary key name: `info_msg`

traceroute

Type: `cybox.objects.network_packet_object.ICMPv4Traceroute`
XML Binding class name: `Traceroute`
Dictionary key name: `traceroute`

class `cybox.objects.network_packet_object.ICMPv4RedirectMessage`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv4RedirectMessageType`

host_redirect

XML Binding class name: `Host_Redirect`

Dictionary key name: `host_redirect`

ip_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `IP_Address`

Dictionary key name: `ip_address`

network_redirect

XML Binding class name: `Network_Redirect`

Dictionary key name: `network_redirect`

tos_host_redirect

XML Binding class name: `ToS_Host_Redirect`

Dictionary key name: `tos_host_redirect`

tos_network_redirect

XML Binding class name: `ToS_Network_Redirect`

Dictionary key name: `tos_network_redirect`

class `cybox.objects.network_packet_object.ICMPv4SourceQuench`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4SourceQuenchType`

source_quench

XML Binding class name: `Source_Quench`

Dictionary key name: `source_quench`

class `cybox.objects.network_packet_object.ICMPv4TimeExceeded`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv4TimeExceededType`

frag_reassembly_time_exceeded

XML Binding class name: `Frag_Reassembly_Time_Exceeded`

Dictionary key name: frag_reassembly_time_exceeded

ttl_exceeded_in_transit

XML Binding class name: TTL_Exceeded_In_Transit

Dictionary key name: ttl_exceeded_in_transit

class cybox.objects.network_packet_object.ICMPv4TimestampReply
Bases: cybox.Entity

XML binding class:

cybox.bindings.network_packet_object.ICMPv4TimestampReplyType

originate_timestamp

Type: cybox.common.properties.UnsignedInteger

XML Binding class name: Originate_Timestamp

Dictionary key name: originate_timestamp

receive_timestamp

Type: cybox.common.properties.UnsignedInteger

XML Binding class name: Receive_Timestamp

Dictionary key name: receive_timestamp

timestamp_reply

XML Binding class name: Timestamp_Reply

Dictionary key name: timestamp_reply

transmit_timestamp

Type: cybox.common.properties.UnsignedInteger

XML Binding class name: Transmit_Timestamp

Dictionary key name: transmit_timestamp

class cybox.objects.network_packet_object.ICMPv4TimestampRequest
Bases: cybox.Entity

XML binding class:

cybox.bindings.network_packet_object.ICMPv4TimestampRequestType

originate_timestamp

Type: cybox.common.properties.UnsignedInteger

XML Binding class name: Originate_Timestamp

Dictionary key name: originate_timestamp

timestamp

XML Binding class name: Timestamp

Dictionary key name: timestamp

class cybox.objects.network_packet_object.ICMPv4Traceroute

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.ICMPv4TracerouteType

identifier

Type: cybox.common.properties.HexBinary

XML Binding class name: Identifier

Dictionary key name: identifier

outbound_hop_count

Type: cybox.common.properties.HexBinary

XML Binding class name: Outbound_Hop_Count

Dictionary key name: outbound_hop_count

outbound_packet_forward_success

XML Binding class name: Outbound_Packet_Forward_Success

Dictionary key name: outbound_packet_forward_success

outbound_packet_no_route

XML Binding class name: Outbound_Packet_no_Route

Dictionary key name: outbound_packet_no_route

output_link_mtu

Type: cybox.common.properties.HexBinary

XML Binding class name: Output_Link_MTU

Dictionary key name: output_link_mtu

output_link_speed

Type: cybox.common.properties.HexBinary

XML Binding class name: Output_Link_Speed

Dictionary key name: output_link_speed

return_hop_count

Type: cybox.common.properties.HexBinary

XML Binding class name: Return_Hop_Count

Dictionary key name: return_hop_count

class `cybox.objects.network_packet_object.ICMPv6DestinationUnreachable`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv6DestinationUnreachableType`

address_unreachable

XML Binding class name: `Address_Unreachable`

Dictionary key name: `address_unreachable`

beyond_scope

XML Binding class name: `Beyond_Scope`

Dictionary key name: `beyond_scope`

comm_prohibited

XML Binding class name: `Comm_Prohibited`

Dictionary key name: `comm_prohibited`

no_route

XML Binding class name: `No_Route`

Dictionary key name: `no_route`

port_unreachable

XML Binding class name: `Port_Unreachable`

Dictionary key name: `port_unreachable`

reject_route

XML Binding class name: `Reject_Route`

Dictionary key name: `reject_route`

src_addr_failed_policy

XML Binding class name: `Src_Addr_Failed_Policy`

Dictionary key name: `src_addr_failed_policy`

class `cybox.objects.network_packet_object.ICMPv6EchoReply`
Bases: `cybox.objects.network_packet_object._ICMPEchoReply`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6EchoReplyType`

class `cybox.objects.network_packet_object.ICMPv6EchoRequest`
Bases: `cybox.objects.network_packet_object._ICMPEchoRequest`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6EchoRequestType`

class `cybox.objects.network_packet_object.ICMPv6ErrorMessage`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6ErrorMessageType`

destination_unreachable

Type: `cybox.objects.network_packet_object.ICMPv6DestinationUnreachable`

XML Binding class name: `Destination_Unreachable`

Dictionary key name: `destination_unreachable`

invoking_packet

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Invoking_Packet`

Dictionary key name: `invoking_packet`

packet_too_big

Type: `cybox.objects.network_packet_object.ICMPv6PacketTooBig`

XML Binding class name: `Packet_Too_Big`

Dictionary key name: `packet_too_big`

parameter_problem

Type: `cybox.objects.network_packet_object.ICMPv6ParameterProblem`

XML Binding class name: `Parameter_Problem`

Dictionary key name: `parameter_problem`

time_exceeded

Type: `cybox.objects.network_packet_object.ICMPv6TimeExceeded`

XML Binding class name: `Time_Exceeded`

Dictionary key name: `time_exceeded`

class `cybox.objects.network_packet_object.ICMPv6Header`

Bases: `cybox.objects.network_packet_object._ICMPHeader`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6HeaderType`

class `cybox.objects.network_packet_object.ICMPv6InfoMessage`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6InfoMessageType`

echo_reply

Type: `cybox.objects.network_packet_object.ICMPv6EchoReply`

XML Binding class name: `Echo_Reply`

Dictionary key name: `echo_reply`

echo_request

Type: `cybox.objects.network_packet_object.ICMPv6EchoRequest`

XML Binding class name: `Echo_Request`

Dictionary key name: `echo_request`

info_msg_content

Type: `cybox.objects.network_packet_object.ICMPv6InfoMessageContent`

XML Binding class name: `Info_Msg_Content`

Dictionary key name: `info_msg_content`

class `cybox.objects.network_packet_object.ICMPv6InfoMessageContent`

Bases: `cybox.objects.network_packet_object._ICMPInfoMessageContent`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv6InfoMessageType`

class `cybox.objects.network_packet_object.ICMPv6Packet`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6PacketType`

error_msg

Type: `cybox.objects.network_packet_object.ICMPv6ErrorMessage`

XML Binding class name: `Error_Msg`

Dictionary key name: `error_msg`

icmpv6_header

Type: `cybox.objects.network_packet_object.ICMPv6Header`

XML Binding class name: `ICMPv6_Header`

Dictionary key name: `icmpv6_header`

info_msg

Type: `cybox.objects.network_packet_object.ICMPv6InfoMessage`

XML Binding class name: `Info_Msg`

Dictionary key name: `info_msg`

class `cybox.objects.network_packet_object.ICMPv6PacketTooBig`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6PacketTooBigType`

mtu

Type: `cybox.common.properties.HexBinary`

XML Binding class name: MTU

Dictionary key name: mtu

packet_too_big

XML Binding class name: Packet_Too_Big

Dictionary key name: packet_too_big

class `cybox.objects.network_packet_object.ICMPv6ParameterProblem`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.ICMPv6ParameterProblemType`

erroneous_header_field

XML Binding class name: Erroneous_Header_Field

Dictionary key name: erroneous_header_field

pointer

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Pointer

Dictionary key name: pointer

unrecognized_ipv6_option

XML Binding class name: Unrecognized_IPv6_Option

Dictionary key name: unrecognized_ipv6_option

unrecognized_next_header_type

XML Binding class name: Unrecognized_Next_Header_Type

Dictionary key name: unrecognized_next_header_type

class `cybox.objects.network_packet_object.ICMPv6TimeExceeded`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.ICMPv6TimeExceededType`

fragment_reassem_time_exceeded

XML Binding class name: Fragment_Reassem_Time_Exceeded

Dictionary key name: fragment_reassem_time_exceeded

hop_limit_exceeded

XML Binding class name: Hop_Limit_Exceeded

Dictionary key name: hop_limit_exceeded

class cybox.objects.network_packet_object.**IPv4Flags**

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.IPv4FlagsType

do_not_fragment

Type: cybox.common.properties.String

XML Binding class name: Do_Not_Fragment

Dictionary key name: do_not_fragment

more_fragments

Type: cybox.common.properties.String

XML Binding class name: More_Fragments

Dictionary key name: more_fragments

reserved

Type: cybox.common.properties.Integer

XML Binding class name: Reserved

Dictionary key name: reserved

class cybox.objects.network_packet_object.**IPv4Header**

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.IPv4HeaderType

checksum

Type: cybox.common.properties.HexBinary

XML Binding class name: Checksum

Dictionary key name: checksum

dest_ipv4_addr

Type: cybox.objects.address_object.Address

XML Binding class name: Dest_IPv4_Addr

Dictionary key name: dest_ipv4_addr

dscp

Type: `cybox.common.properties.HexBinary`

XML Binding class name: DSCP

Dictionary key name: dscp

ecn

Type: `cybox.common.properties.HexBinary`

XML Binding class name: ECN

Dictionary key name: ecn

flags

Type: `cybox.objects.network_packet_object.IPv4Flags`

XML Binding class name: Flags

Dictionary key name: flags

fragment_offset

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Fragment_Offset

Dictionary key name: fragment_offset

header_length

Type: `cybox.common.properties.Integer`

XML Binding class name: Header_Length

Dictionary key name: header_length

identification

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: Identification

Dictionary key name: identification

ip_version

Type: `cybox.common.properties.String`

XML Binding class name: IP_Version

Dictionary key name: ip_version

option

(List of values permitted)

Type: `cybox.objects.network_packet_object.IPv4Option`

XML Binding class name: Option

Dictionary key name: option

protocol

Type: `cybox.common.properties.String`

XML Binding class name: Protocol

Dictionary key name: protocol

src_ipv4_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Src_IPv4_Addr

Dictionary key name: src_ipv4_addr

total_length

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Total_Length

Dictionary key name: total_length

ttl

Type: `cybox.common.properties.HexBinary`

XML Binding class name: TTL

Dictionary key name: ttl

class `cybox.objects.network_packet_object.IPv4Option`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv4OptionType`

class_

Type: `cybox.common.properties.String`

XML Binding class name: Class

Dictionary key name: class

copy_flag

Type: `cybox.common.properties.String`

XML Binding class name: Copy_Flag

Dictionary key name: copy_flag

option

Type: `cybox.common.properties.String`

XML Binding class name: Option

Dictionary key name: option

class `cybox.objects.network_packet_object.IPv4Packet`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv4PacketType`

data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Data`

Dictionary key name: `data`

ipv4_header

Type: `cybox.objects.network_packet_object.IPv4Header`

XML Binding class name: `IPv4_Header`

Dictionary key name: `ipv4_header`

class `cybox.objects.network_packet_object.IPv6ExtHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6ExtHeaderType`

authentication_header

Type: `cybox.objects.network_packet_object.AuthenticationHeader`

XML Binding class name: `Authentication_Header`

Dictionary key name: `authentication_header`

destination_options

(List of values permitted)

Type: `cybox.objects.network_packet_object.DestinationOptions`

XML Binding class name: `Destination_Options`

Dictionary key name: `destination_options`

encapsulating_security_payload

Type: `cybox.objects.network_packet_object.EncapsulatingSecurityPayload`

XML Binding class name: `Encapsulating_Security_Payload`

Dictionary key name: `encapsulating_security_payload`

fragment

Type: `cybox.objects.network_packet_object.Fragment`

XML Binding class name: `Fragment`

Dictionary key name: `fragment`

hop_by_hop_options

Type: `cybox.objects.network_packet_object.HopByHopOptions`

XML Binding class name: `Hop_by_Hop_Options`

Dictionary key name: hop_by_hop_options

routing

Type: `cybox.objects.network_packet_object.Routing`

XML Binding class name: Routing

Dictionary key name: routing

class `cybox.objects.network_packet_object.IPv6Header`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6HeaderType`

dest_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Dest_IPv6_Addr

Dictionary key name: dest_ipv6_addr

flow_label

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Flow_Label

Dictionary key name: flow_label

ip_version

Type: `cybox.common.properties.String`

XML Binding class name: IP_Version

Dictionary key name: ip_version

next_header

Type: `cybox.common.properties.String`

XML Binding class name: Next_Header

Dictionary key name: next_header

payload_length

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Payload_Length

Dictionary key name: payload_length

src_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Src_IPv6_Addr

Dictionary key name: src_ipv6_addr

traffic_class

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Traffic_Class`

Dictionary key name: `traffic_class`

ttl

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `TTL`

Dictionary key name: `ttl`

class `cybox.objects.network_packet_object.IPv6Option`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6OptionType`

do_not_recogn_action

Type: `cybox.common.properties.String`

XML Binding class name: `Do_Not_Recogn_Action`

Dictionary key name: `do_not_recogn_action`

option_byte

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Option_Byte`

Dictionary key name: `option_byte`

packet_change

Type: `cybox.common.properties.String`

XML Binding class name: `Packet_Change`

Dictionary key name: `packet_change`

class `cybox.objects.network_packet_object.IPv6Packet`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.IPv6PacketType`

data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Data`

Dictionary key name: `data`

ext_headers

(List of values permitted)

Type: `cybox.objects.network_packet_object.IPv6ExtHeader`

XML Binding class name: `Ext_Headers`

Dictionary key name: `ext_headers`

ipv6_header

Type: `cybox.objects.network_packet_object.IPv6Header`

XML Binding class name: `IPv6_Header`

Dictionary key name: `ipv6_header`

class `cybox.objects.network_packet_object.InternetLayer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.InternetLayerType`

icmpv4

Type: `cybox.objects.network_packet_object.ICMPv4Packet`

XML Binding class name: `ICMPv4`

Dictionary key name: `icmpv4`

icmpv6

Type: `cybox.objects.network_packet_object.ICMPv6Packet`

XML Binding class name: `ICMPv6`

Dictionary key name: `icmpv6`

ipv4

Type: `cybox.objects.network_packet_object.IPv4Packet`

XML Binding class name: `IPv4`

Dictionary key name: `ipv4`

ipv6

Type: `cybox.objects.network_packet_object.IPv6Packet`

XML Binding class name: `IPv6`

Dictionary key name: `ipv6`

class `cybox.objects.network_packet_object.LinkLayer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.LinkLayerType`

logical_protocols

Type: `cybox.objects.network_packet_object.LogicalProtocol`

XML Binding class name: Logical_Protocols

Dictionary key name: logical_protocols

physical_interface

Type: `cybox.objects.network_packet_object.PhysicalInterface`

XML Binding class name: Physical_Interface

Dictionary key name: physical_interface

class `cybox.objects.network_packet_object.LogicalProtocol`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.LogicalProtocolType`

arp_rarp

Type: `cybox.objects.network_packet_object.ARP`

XML Binding class name: ARP_RARP

Dictionary key name: arp_rarp

ndp

Type: `cybox.objects.network_packet_object.NDP`

XML Binding class name: NDP

Dictionary key name: ndp

class `cybox.objects.network_packet_object.NDP`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPType`

icmpv6_header

Type: `cybox.objects.network_packet_object.ICMPv6Header`

XML Binding class name: ICMPv6_Header

Dictionary key name: icmpv6_header

neighbor_advertisement

Type: `cybox.objects.network_packet_object.NeighborAdvertisement`

XML Binding class name: Neighbor_Advertisement

Dictionary key name: neighbor_advertisement

neighbor_solicitation

Type: `cybox.objects.network_packet_object.NeighborSolicitation`

XML Binding class name: Neighbor_Solicitation

Dictionary key name: neighbor_solicitation

redirect

Type: `cybox.objects.network_packet_object.Redirect`

XML Binding class name: `Redirect`

Dictionary key name: `redirect`

router_advertisement

Type: `cybox.objects.network_packet_object.RouterAdvertisement`

XML Binding class name: `Router_Advertisement`

Dictionary key name: `router_advertisement`

router_solicitation

Type: `cybox.objects.network_packet_object.RouterSolicitation`

XML Binding class name: `Router_Solicitation`

Dictionary key name: `router_solicitation`

class `cybox.objects.network_packet_object.NDPLinkAddr`

Bases: `cybox.Entity`

Abstract Type

XML binding class: `cybox.bindings.network_packet_object.NDPLinkAddrType`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

link_layer_mac_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Link_Layer_MAC_Addr`

Dictionary key name: `link_layer_mac_addr`

class `cybox.objects.network_packet_object.NDPMTU`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPMTUType`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

mtu

Type: `cybox.common.properties.Integer`

XML Binding class name: MTU

Dictionary key name: mtu

class `cybox.objects.network_packet_object.NDPPrefixInfo`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPPrefixInfoType`

addr_config_flag

XML Binding class name: `addr_config_flag`

Dictionary key name: `addr_config_flag`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: Length

Dictionary key name: length

link_flag

XML Binding class name: `link_flag`

Dictionary key name: `link_flag`

preferred_lifetime

Type: `cybox.common.properties.Integer`

XML Binding class name: Preferred_Lifetime

Dictionary key name: `preferred_lifetime`

prefix

Type: `cybox.objects.network_packet_object.Prefix`

XML Binding class name: Prefix

Dictionary key name: prefix

prefix_length

Type: `cybox.common.properties.Integer`

XML Binding class name: Prefix_Length

Dictionary key name: `prefix_length`

valid_lifetime

Type: `cybox.common.properties.Integer`

XML Binding class name: Valid_Lifetime

Dictionary key name: `valid_lifetime`

class `cybox.objects.network_packet_object.NDPRedirectedHeader`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NDPRedirectedHeaderType`

ipheader_and_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `IPHeader_And_Data`

Dictionary key name: `ipheader_and_data`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

class `cybox.objects.network_packet_object.NeighborAdvertisement`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.NeighborAdvertisementType`

options

Type: `cybox.objects.network_packet_object.NeighborOptions`

XML Binding class name: `Options`

Dictionary key name: `options`

override_flag

XML Binding class name: `override_flag`

Dictionary key name: `override_flag`

router_flag

XML Binding class name: `router_flag`

Dictionary key name: `router_flag`

solicited_flag

XML Binding class name: `solicited_flag`

Dictionary key name: `solicited_flag`

target_ipv6_addr

Type: `cybox.objects.address_object.Address`

XML Binding class name: Target_IPv6_Addr

Dictionary key name: target_ipv6_addr

class cybox.objects.network_packet_object.**NeighborOptions**

Bases: cybox.Entity

XML binding class: cybox.bindings.network_packet_object.NeighborOptionsType

target_link_addr

Type: cybox.objects.network_packet_object.NDPLinkAddr

XML Binding class name: Target_Link_Addr

Dictionary key name: target_link_addr

class cybox.objects.network_packet_object.**NeighborSolicitation**

Bases: cybox.Entity

XML binding class:

cybox.bindings.network_packet_object.NeighborSolicitationType

options

Type: cybox.objects.network_packet_object.NeighborSolicitationOptions

XML Binding class name: Options

Dictionary key name: options

target_ipv6_addr

Type: cybox.objects.address_object.Address

XML Binding class name: Target_IPv6_Addr

Dictionary key name: target_ipv6_addr

class cybox.objects.network_packet_object.**NeighborSolicitationOptions**

Bases: cybox.Entity

XML binding class:

cybox.bindings.network_packet_object.NeighborSolicitationOptionsType

src_link_addr

Type: cybox.objects.network_packet_object.NDPLinkAddr

XML Binding class name: Src_Link_Addr

Dictionary key name: src_link_addr

class cybox.objects.network_packet_object.**NetworkPacket**

Bases: cybox.common.object_properties.ObjectProperties

XML binding class: `cybox.bindings.network_packet_object.NetworkPacketObjectType`

internet_layer

Type: `cybox.objects.network_packet_object.InternetLayer`

XML Binding class name: `Internet_Layer`

Dictionary key name: `internet_layer`

link_layer

Type: `cybox.objects.network_packet_object.LinkLayer`

XML Binding class name: `Link_Layer`

Dictionary key name: `link_layer`

transport_layer

Type: `cybox.objects.network_packet_object.TransportLayer`

XML Binding class name: `Transport_Layer`

Dictionary key name: `transport_layer`

class `cybox.objects.network_packet_object.OptionData`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.OptionDataType`

option_data_len

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Option_Data_Len`

Dictionary key name: `option_data_len`

option_type

Type: `cybox.objects.network_packet_object.IPv6Option`

XML Binding class name: `Option_Type`

Dictionary key name: `option_type`

pad1

Type: `cybox.objects.network_packet_object.Pad1`

XML Binding class name: `Pad1`

Dictionary key name: `pad1`

padn

Type: `cybox.objects.network_packet_object.PadN`

XML Binding class name: `PadN`

Dictionary key name: `padn`

class `cybox.objects.network_packet_object.Pad1`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.Pad1Type`

octet

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Octet`
Dictionary key name: `octet`

class `cybox.objects.network_packet_object.PadN`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.PadNType`

octet

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Octet`
Dictionary key name: `octet`

option_data

Type: `cybox.common.properties.Integer`
XML Binding class name: `Option_Data`
Dictionary key name: `option_data`

option_data_length

Type: `cybox.common.properties.Integer`
XML Binding class name: `Option_Data_Length`
Dictionary key name: `option_data_length`

class `cybox.objects.network_packet_object.PhysicalInterface`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.PhysicalInterfaceType`

ethernet

Type: `cybox.objects.network_packet_object.EthernetInterface`
XML Binding class name: `Ethernet`
Dictionary key name: `ethernet`

class `cybox.objects.network_packet_object.Prefix`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.PrefixType`

ip_addr_prefix

Type: `cybox.objects.address_object.Address`
XML Binding class name: `IP_Addr_Prefix`
Dictionary key name: `ip_addr_prefix`

ipv6_addr

Type: `cybox.objects.address_object.Address`
XML Binding class name: `IPv6_Addr`
Dictionary key name: `ipv6_addr`

class `cybox.objects.network_packet_object.Redirect`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RedirectType`

dest_ipv6_addr

Type: `cybox.objects.address_object.Address`
XML Binding class name: `Dest_IPv6_Addr`
Dictionary key name: `dest_ipv6_addr`

options

Type: `cybox.objects.network_packet_object.RedirectOptions`
XML Binding class name: `Options`
Dictionary key name: `options`

target_ipv6_addr

Type: `cybox.objects.address_object.Address`
XML Binding class name: `Target_IPv6_Addr`
Dictionary key name: `target_ipv6_addr`

class `cybox.objects.network_packet_object.RedirectOptions`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.NeighborOptionsType`

redirected_header

Type: `cybox.objects.network_packet_object.NDPRedirectedHeader`

XML Binding class name: `Redirected_Header`

Dictionary key name: `redirected_header`

target_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: `Target_Link_Addr`

Dictionary key name: `target_link_addr`

class `cybox.objects.network_packet_object.RouterAdvertisement`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RouterAdvertisementType`

cur_hop_limit

Type: `cybox.common.properties.Integer`

XML Binding class name: `Cur_Hop_Limit`

Dictionary key name: `cur_hop_limit`

managed_address_config_flag

XML Binding class name: `managed_address_config_flag`

Dictionary key name: `managed_address_config_flag`

options

Type: `cybox.objects.network_packet_object.RouterAdvertisementOptions`

XML Binding class name: `Options`

Dictionary key name: `options`

other_config_flag

XML Binding class name: `other_config_flag`

Dictionary key name: `other_config_flag`

reachable_time

Type: `cybox.common.properties.Integer`

XML Binding class name: `Reachable_Time`

Dictionary key name: `reachable_time`

retrans_timer

Type: `cybox.common.properties.Integer`

XML Binding class name: `Retrans_Timer`

Dictionary key name: retrans_timer

router_lifetime

Type: `cybox.common.properties.Integer`

XML Binding class name: Router_Lifetime

Dictionary key name: router_lifetime

class `cybox.objects.network_packet_object.RouterAdvertisementOptions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.RouterAdvertisementOptionsType`

mtu

Type: `cybox.objects.network_packet_object.NDPMTU`

XML Binding class name: MTU

Dictionary key name: mtu

prefix_info

Type: `cybox.objects.network_packet_object.NDPPrefixInfo`

XML Binding class name: Prefix_Info

Dictionary key name: prefix_info

src_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: Src_Link_Addr

Dictionary key name: src_link_addr

class `cybox.objects.network_packet_object.RouterSolicitation`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RouterSolicitationType`

options

(List of values permitted)

Type: `cybox.objects.network_packet_object.RouterSolicitationOptions`

XML Binding class name: Options

Dictionary key name: options

class `cybox.objects.network_packet_object.RouterSolicitationOptions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.network_packet_object.RouterSolicitationOptionsType`

src_link_addr

Type: `cybox.objects.network_packet_object.NDPLinkAddr`

XML Binding class name: `Src_Link_Addr`

Dictionary key name: `src_link_addr`

class `cybox.objects.network_packet_object.Routing`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.RoutingType`

header_ext_len

Type: `cybox.common.properties.Integer`

XML Binding class name: `Header_Ext_Len`

Dictionary key name: `header_ext_len`

next_header

Type: `cybox.common.properties.String`

XML Binding class name: `Next_Header`

Dictionary key name: `next_header`

routing_type

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Routing_Type`

Dictionary key name: `routing_type`

segments_left

Type: `cybox.common.properties.Integer`

XML Binding class name: `Segments_Left`

Dictionary key name: `segments_left`

type_specific_data

Type: `cybox.common.properties.String`

XML Binding class name: `Type_Specific_Data`

Dictionary key name: `type_specific_data`

class `cybox.objects.network_packet_object.TCP`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TCPType`

data

Type: `cybox.common.data_segment.DataSegment`

XML Binding class name: `Data`

Dictionary key name: `data`

options

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Options`

Dictionary key name: `options`

tcp_header

Type: `cybox.objects.network_packet_object.TCPHeader`

XML Binding class name: `TCP_Header`

Dictionary key name: `tcp_header`

class `cybox.objects.network_packet_object.TCPFlags`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TCPFlagsType`

ack

XML Binding class name: `ack`

Dictionary key name: `ack`

cwr

XML Binding class name: `cwr`

Dictionary key name: `cwr`

ece

XML Binding class name: `ece`

Dictionary key name: `ece`

fin

XML Binding class name: `fin`

Dictionary key name: `fin`

ns

XML Binding class name: `ns`

Dictionary key name: `ns`

psh

XML Binding class name: psh

Dictionary key name: psh

rst

XML Binding class name: rst

Dictionary key name: rst

syn

XML Binding class name: syn

Dictionary key name: syn

urg

XML Binding class name: urg

Dictionary key name: urg

class `cybox.objects.network_packet_object.TCPHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TCPHeaderType`

ack_num

Type: `cybox.common.properties.HexBinary`

XML Binding class name: ACK_Num

Dictionary key name: ack_num

checksum

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Checksum

Dictionary key name: checksum

data_offset

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Data_Offset

Dictionary key name: data_offset

dest_port

Type: `cybox.objects.port_object.Port`

XML Binding class name: Dest_Port

Dictionary key name: dest_port

reserved

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Reserved

Dictionary key name: reserved

seq_num

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Seq_Num

Dictionary key name: seq_num

src_port

Type: `cybox.objects.port_object.Port`

XML Binding class name: Src_Port

Dictionary key name: src_port

tcp_flags

Type: `cybox.objects.network_packet_object.TCPFlags`

XML Binding class name: TCP_Flags

Dictionary key name: tcp_flags

urg_ptr

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Urg_Ptr

Dictionary key name: urg_ptr

window

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Window

Dictionary key name: window

class `cybox.objects.network_packet_object.TransportLayer`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TransportLayerType`

tcp

Type: `cybox.objects.network_packet_object.TCP`

XML Binding class name: TCP

Dictionary key name: tcp

udp

Type: `cybox.objects.network_packet_object.UDP`

XML Binding class name: UDP

Dictionary key name: udp

class `cybox.objects.network_packet_object.TypeLength`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.TypeLengthType`

internet_layer_type

Type: `cybox.common.properties.String`
XML Binding class name: `Internet_Layer_Type`
Dictionary key name: `internet_layer_type`

length

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Length`
Dictionary key name: `length`

class `cybox.objects.network_packet_object.UDP`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.UDPType`

data

Type: `cybox.common.data_segment.DataSegment`
XML Binding class name: `Data`
Dictionary key name: `data`

udp_header

Type: `cybox.objects.network_packet_object.UDPHeader`
XML Binding class name: `UDP_Header`
Dictionary key name: `udp_header`

class `cybox.objects.network_packet_object.UDPHeader`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_packet_object.UDPHeaderType`

checksum

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Checksum`
Dictionary key name: `checksum`

destport

Type: `cybox.objects.port_object.Port`

XML Binding class name: `DestPort`

Dictionary key name: `destport`

length

Type: `cybox.common.properties.Integer`

XML Binding class name: `Length`

Dictionary key name: `length`

srcport

Type: `cybox.objects.port_object.Port`

XML Binding class name: `SrcPort`

Dictionary key name: `srcport`

Version: 2.1.0.11

cybox.objects.network_route_entry_object module

class `cybox.objects.network_route_entry_object.NetworkRouteEntry`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.network_route_entry_object.NetworkRouteEntryObjectType`

destination_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Destination_Address`

Dictionary key name: `destination_address`

gateway_address

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Gateway_Address`

Dictionary key name: `gateway_address`

interface

Type: `cybox.common.properties.String`

XML Binding class name: `Interface`

Dictionary key name: `interface`

is_autoconfigure_address

XML Binding class name: `is_autoconfigure_address`

Dictionary key name: `is_autoconfigure_address`

is_immortal

XML Binding class name: `is_immortal`

Dictionary key name: `is_immortal`

is_ipv6

XML Binding class name: `is_ipv6`

Dictionary key name: `is_ipv6`

is_loopback

XML Binding class name: `is_loopback`

Dictionary key name: `is_loopback`

is_publish

XML Binding class name: `is_publish`

Dictionary key name: `is_publish`

metric

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Metric`

Dictionary key name: `metric`

netmask

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Netmask`

Dictionary key name: `netmask`

origin

Type: `cybox.objects.address_object.Address`

XML Binding class name: `Origin`

Dictionary key name: `origin`

preferred_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Preferred_Lifetime`

Dictionary key name: `preferred_lifetime`

protocol

Type: `cybox.common.properties.String`

XML Binding class name: `Protocol`

Dictionary key name: `protocol`

route_age

Type: `cybox.common.properties.Duration`

XML Binding class name: `Route_Age`

Dictionary key name: `route_age`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

valid_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Valid_Lifetime`

Dictionary key name: `valid_lifetime`

Version: 2.1.0.11

cybox.objects.network_route_object module

class `cybox.objects.network_route_object.NetRoute`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_route_object.NetRouteObjectType`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

is_autoconfigure_address

XML Binding class name: `is_autoconfigure_address`

Dictionary key name: `is_autoconfigure_address`

is_immortal

XML Binding class name: `is_immortal`

Dictionary key name: `is_immortal`

is_ipv6

XML Binding class name: `is_ipv6`

Dictionary key name: `is_ipv6`

is_loopback

XML Binding class name: `is_loopback`

Dictionary key name: `is_loopback`

is_publish

XML Binding class name: `is_publish`

Dictionary key name: `is_publish`

network_route_entries

Type: `cybox.objects.network_route_object.NetworkRouteEntries`

XML Binding class name: `Network_Route_Entries`

Dictionary key name: `network_route_entries`

preferred_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Preferred_Lifetime`

Dictionary key name: `preferred_lifetime`

route_age

Type: `cybox.common.properties.Duration`

XML Binding class name: `Route_Age`

Dictionary key name: `route_age`

valid_lifetime

Type: `cybox.common.properties.Duration`

XML Binding class name: `Valid_Lifetime`

Dictionary key name: `valid_lifetime`

class `cybox.objects.network_route_object.NetworkRouteEntries` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.network_route_object.NetworkRouteEntriesType`

Version: 2.1.0.11

cybox.objects.network_socket_object module

class `cybox.objects.network_socket_object.NetworkSocket`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_socket_object.NetworkSocketObjectType`

address_family

Type: `cybox.common.properties.String`
XML Binding class name: `Address_Family`
Dictionary key name: `address_family`

domain

Type: `cybox.common.properties.String`
XML Binding class name: `Domain`
Dictionary key name: `domain`

is_blocking

XML Binding class name: `is_blocking`
Dictionary key name: `is_blocking`

is_listening

XML Binding class name: `is_listening`
Dictionary key name: `is_listening`

local_address

Type: `cybox.objects.socket_address_object.SocketAddress`
XML Binding class name: `Local_Address`
Dictionary key name: `local_address`

options

Type: `cybox.objects.network_socket_object.SocketOptions`
XML Binding class name: `Options`
Dictionary key name: `options`

protocol

Type: `cybox.common.properties.String`
XML Binding class name: `Protocol`
Dictionary key name: `protocol`

remote_address

Type: `cybox.objects.socket_address_object.SocketAddress`
XML Binding class name: `Remote_Address`
Dictionary key name: `remote_address`

socket_descriptor

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Socket_Descriptor`
Dictionary key name: `socket_descriptor`

type_

Type: `cybox.common.properties.String`
XML Binding class name: `Type`
Dictionary key name: `type`

class `cybox.objects.network_socket_object.SocketOptions`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.network_socket_object.SocketOptionsType`

ip_multicast_if

Type: `cybox.common.properties.String`
XML Binding class name: `IP_MULTICAST_IF`
Dictionary key name: `ip_multicast_if`

ip_multicast_if2

Type: `cybox.common.properties.String`
XML Binding class name: `IP_MULTICAST_IF2`
Dictionary key name: `ip_multicast_if2`

ip_multicast_loop

XML Binding class name: `IP_MULTICAST_LOOP`
Dictionary key name: `ip_multicast_loop`

ip_tos

Type: `cybox.common.properties.String`
XML Binding class name: `IP_TOS`
Dictionary key name: `ip_tos`

so_broadcast

XML Binding class name: `SO_BROADCAST`
Dictionary key name: `so_broadcast`

so_conditional_accept

XML Binding class name: `SO_CONDITIONAL_ACCEPT`
Dictionary key name: `so_conditional_accept`

so_debug

XML Binding class name: `SO_DEBUG`
Dictionary key name: `so_debug`

so_dontlinger

XML Binding class name: `SO_DONTLINGER`

Dictionary key name: `so_dontlinger`

so_dontroute

XML Binding class name: `SO_DONTRROUTE`

Dictionary key name: `so_dontroute`

so_group_priority

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_GROUP_PRIORITY`

Dictionary key name: `so_group_priority`

so_keepalive

XML Binding class name: `SO_KEEPALIVE`

Dictionary key name: `so_keepalive`

so_linger

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_LINGER`

Dictionary key name: `so_linger`

so_oobinline

XML Binding class name: `SO_OOBINLINE`

Dictionary key name: `so_oobinline`

so_rcvbuf

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_RCVBUF`

Dictionary key name: `so_rcvbuf`

so_rcvtimeo

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_RCVMIMEO`

Dictionary key name: `so_rcvtimeo`

so_reuseaddr

XML Binding class name: `SO_REUSEADDR`

Dictionary key name: `so_reuseaddr`

so_sndbuf

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_SNDBUF`

Dictionary key name: `so_sndbuf`

so_sndtimeo

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_SNDTIMEO`

Dictionary key name: `so_sndtimeo`

so_timeout

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_TIMEOUT`

Dictionary key name: `so_timeout`

so_update_accept_context

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `SO_UPDATE_ACCEPT_CONTEXT`

Dictionary key name: `so_update_accept_context`

tcp_nodelay

XML Binding class name: `TCP_NODELAY`

Dictionary key name: `tcp_nodelay`

Version: 2.1.0.11

cybox.objects.network_subnet_object module

class `cybox.objects.network_subnet_object.NetworkSubnet`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.network_subnet_object.NetworkSubnetObjectType`

description

Type: `cybox.common.structured_text.StructuredText`

XML Binding class name: `Description`

Dictionary key name: `description`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

number_of_ip_addresses

Type: `cybox.common.properties.Integer`

XML Binding class name: `Number_Of_IP_Addresses`

Dictionary key name: `number_of_ip_addresses`

routes

Type: `cybox.objects.network_subnet_object.Routes`

XML Binding class name: `Routes`

Dictionary key name: `routes`

class `cybox.objects.network_subnet_object.Routes` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.network_subnet_object.RoutesType`

Version: 2.1.0.11

cybox.objects.pdf_file_object module

class `cybox.objects.pdf_file_object.PDFDocumentInformationDictionary`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.pdf_file_object.PDFDocumentInformationDictionaryType`

author

Type: `cybox.common.properties.String`

XML Binding class name: `Author`

Dictionary key name: `author`

creationdate

Type: `cybox.common.properties.DateTime`

XML Binding class name: `CreationDate`

Dictionary key name: `creationdate`

creator

Type: `cybox.common.properties.String`

XML Binding class name: `Creator`

Dictionary key name: `creator`

keywords

Type: `cybox.common.properties.String`

XML Binding class name: `Keywords`

Dictionary key name: `keywords`

moddate

Type: `cybox.common.properties.DateTime`
XML Binding class name: `ModDate`
Dictionary key name: `moddate`

producer

Type: `cybox.common.properties.String`
XML Binding class name: `Producer`
Dictionary key name: `producer`

subject

Type: `cybox.common.properties.String`
XML Binding class name: `Subject`
Dictionary key name: `subject`

title

Type: `cybox.common.properties.String`
XML Binding class name: `Title`
Dictionary key name: `title`

trapped

Type: `cybox.common.properties.String`
XML Binding class name: `Trapped`
Dictionary key name: `trapped`

class `cybox.objects.pdf_file_object.PDFFile`
Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.pdf_file_object.PDFFileObjectType`

metadata

Type: `cybox.objects.pdf_file_object.PDFFileMetadata`
XML Binding class name: `Metadata`
Dictionary key name: `metadata`

version

Type: `cybox.common.properties.Double`
XML Binding class name: `Version`
Dictionary key name: `version`

class `cybox.objects.pdf_file_object.PDFFileMetadata`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.pdf_file_object.PDFFileMetadataType`

document_information_dictionary

Type: `cybox.objects.pdf_file_object.PDFDocumentInformationDictionary`

XML Binding class name: `Document_Information_Dictionary`

Dictionary key name: `document_information_dictionary`

encrypted

XML Binding class name: `encrypted`

Dictionary key name: `encrypted`

keyword_counts

Type: `cybox.objects.pdf_file_object.PDFKeywordCounts`

XML Binding class name: `Keyword_Counts`

Dictionary key name: `keyword_counts`

number_of_cross_reference_tables

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Number_Of_Cross_Reference_Tables`

Dictionary key name: `number_of_cross_reference_tables`

number_of_indirect_objects

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Number_Of_Indirect_Objects`

Dictionary key name: `number_of_indirect_objects`

number_of_trailers

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Number_Of_Trailers`

Dictionary key name: `number_of_trailers`

optimized

XML Binding class name: `optimized`

Dictionary key name: `optimized`

class `cybox.objects.pdf_file_object.PDFKeywordCount`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.pdf_file_object.PDFKeywordCountType`

non_obfuscated_count

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Non_Obfuscated_Count`

Dictionary key name: non_obfuscated_count

obfuscated_count

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Obfuscated_Count`

Dictionary key name: `obfuscated_count`

class `cybox.objects.pdf_file_object.PDFKeywordCounts`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.pdf_file_object.PDFKeywordCountsType`

aa_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `AA_Count`

Dictionary key name: `aa_count`

ascii85decode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `ASCII85Decode_Count`

Dictionary key name: `ascii85decode_count`

asciihexdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `ASCIHexDecode_Count`

Dictionary key name: `asciihexdecode_count`

ccittfaxdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `CCITTFaxDecode_Count`

Dictionary key name: `ccittfaxdecode_count`

dctdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `DCTDecode_Count`

Dictionary key name: `dctdecode_count`

encrypt_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `Encrypt_Count`

Dictionary key name: `encrypt_count`

flatedecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `FlateDecode_Count`

Dictionary key name: `flatedecode_count`

javascript_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `JavaScript_Count`

Dictionary key name: `javascript_count`

jbig2decode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `JBIG2Decode_Count`

Dictionary key name: `jbig2decode_count`

js_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `JS_Count`

Dictionary key name: `js_count`

launch_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `Launch_Count`

Dictionary key name: `launch_count`

lzwdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `LZWDecode_Count`

Dictionary key name: `lzwdecode_count`

objstm_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `ObjStm_Count`

Dictionary key name: `objstm_count`

openaction_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: `OpenAction_Count`

Dictionary key name: `openaction_count`

page_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: Page_Count

Dictionary key name: page_count

richmedia_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: RichMedia_Count

Dictionary key name: richmedia_count

runlengthdecode_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: RunLengthDecode_Count

Dictionary key name: runlengthdecode_count

xfa_count

Type: `cybox.objects.pdf_file_object.PDFKeywordCount`

XML Binding class name: XFA_Count

Dictionary key name: xfa_count

Version: 2.1.0.11

cybox.objects.pipe_object module

class `cybox.objects.pipe_object.Pipe`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.pipe_object.PipeObjectType`

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

named

XML Binding class name: named

Dictionary key name: named

Version: 2.1.0.11

cybox.objects.port_object module

class `cybox.objects.port_object.Port`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.port_object.PortObjectType`

layer4_protocol

Type: `cybox.common.properties.String`

XML Binding class name: `Layer4_Protocol`

Dictionary key name: `layer4_protocol`

port_value

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `Port_Value`

Dictionary key name: `port_value`

Version: 2.1.0.11

cybox.objects.process_object module

class `cybox.objects.process_object.ArgumentList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.process_object.ArgumentListType`

class `cybox.objects.process_object.ChildPIDList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.process_object.ChildPIDListType`

class `cybox.objects.process_object.ImageInfo`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.process_object.ImageInfoType`

command_line

Type: `cybox.common.properties.String`

XML Binding class name: `Command_Line`

Dictionary key name: `command_line`

current_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Current_Directory`

Dictionary key name: `current_directory`

file_name

Type: `cybox.common.properties.String`
 XML Binding class name: `File_Name`
 Dictionary key name: `file_name`

path

Type: `cybox.common.properties.String`
 XML Binding class name: `Path`
 Dictionary key name: `path`

class `cybox.objects.process_object.NetworkConnectionList` (*args)
 Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.process_object.NetworkConnectionListType`

class `cybox.objects.process_object.PortList` (*args)
 Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.process_object.PortListType`

class `cybox.objects.process_object.Process`
 Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.process_object.ProcessObjectType`

argument_list

Type: `cybox.objects.process_object.ArgumentList`
 XML Binding class name: `Argument_List`
 Dictionary key name: `argument_list`

child_pid_list

Type: `cybox.objects.process_object.ChildPIDList`
 XML Binding class name: `Child_PID_List`
 Dictionary key name: `child_pid_list`

creation_time

Type: `cybox.common.properties.DateTime`
 XML Binding class name: `Creation_Time`
 Dictionary key name: `creation_time`

environment_variable_list

Type: `cybox.common.environment_variable.EnvironmentVariableList`

XML Binding class name: Environment_Variable_List

Dictionary key name: environment_variable_list

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

image_info

Type: `cybox.objects.process_object.ImageInfo`

XML Binding class name: Image_Info

Dictionary key name: image_info

kernel_time

Type: `cybox.common.properties.Duration`

XML Binding class name: Kernel_Time

Dictionary key name: kernel_time

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

network_connection_list

Type: `cybox.objects.process_object.NetworkConnectionList`

XML Binding class name: Network_Connection_List

Dictionary key name: network_connection_list

parent_pid

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: Parent_PID

Dictionary key name: parent_pid

pid

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: PID

Dictionary key name: pid

port_list

Type: `cybox.objects.process_object.PortList`

XML Binding class name: Port_List

Dictionary key name: port_list

start_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Start_Time`

Dictionary key name: `start_time`

user_time

Type: `cybox.common.properties.Duration`

XML Binding class name: `User_Time`

Dictionary key name: `user_time`

username

Type: `cybox.common.properties.String`

XML Binding class name: `Username`

Dictionary key name: `username`

Version: 2.1.0.11

cybox.objects.product_object module

class `cybox.objects.product_object.Product`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.product_object.ProductObjectType`

edition

Type: `cybox.common.properties.String`

XML Binding class name: `Edition`

Dictionary key name: `edition`

language

Type: `cybox.common.properties.String`

XML Binding class name: `Language`

Dictionary key name: `language`

product

Type: `cybox.common.properties.String`

XML Binding class name: `Product`

Dictionary key name: `product`

update

Type: `cybox.common.properties.String`

XML Binding class name: `Update`

Dictionary key name: update

vendor

Type: `cybox.common.properties.String`

XML Binding class name: Vendor

Dictionary key name: vendor

version

Type: `cybox.common.properties.String`

XML Binding class name: Version

Dictionary key name: version

Version: 2.1.0.11

cybox.objects.semaphore_object module

class `cybox.objects.semaphore_object.Semaphore`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.semaphore_object.SemaphoreObjectType`

current_count

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: Current_Count

Dictionary key name: current_count

maximum_count

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: Maximum_Count

Dictionary key name: maximum_count

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

named

XML Binding class name: named

Dictionary key name: named

Version: 2.1.0.11

cybox.objects.sms_message_object module**class** cybox.objects.sms_message_object.SMSMessage

Bases: cybox.common.object_properties.ObjectProperties

XML binding class: cybox.bindings.sms_message_object.SMSMessageObjectType

bits_per_character

Type: cybox.common.properties.PositiveInteger

XML Binding class name: Bits_Per_Character

Dictionary key name: bits_per_character

body

Type: cybox.common.properties.String

XML Binding class name: Body

Dictionary key name: body

encoding

Type: cybox.common.properties.String

XML Binding class name: Encoding

Dictionary key name: encoding

is_premium

XML Binding class name: is_premium

Dictionary key name: is_premium

length

Type: cybox.common.properties.Integer

XML Binding class name: Length

Dictionary key name: length

recipient_phone_number

Type: cybox.common.properties.String

XML Binding class name: Recipient_Phone_Number

Dictionary key name: recipient_phone_number

sender_phone_number

Type: cybox.common.properties.String

XML Binding class name: Sender_Phone_Number

Dictionary key name: sender_phone_number

sent_datetime

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Sent_DateTime`
Dictionary key name: `sent_datetime`

size

Type: `cybox.common.properties.Integer`
XML Binding class name: `Size`
Dictionary key name: `size`

user_data_header

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `User_Data_Header`
Dictionary key name: `user_data_header`

Version: 2.1.0.11

cybox.objects.socket_address_object module

class `cybox.objects.socket_address_object.SocketAddress`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.socket_address_object.SocketAddressObjectType`

hostname

Type: `cybox.objects.hostname_object.Hostname`
XML Binding class name: `Hostname`
Dictionary key name: `hostname`

ip_address

Type: `cybox.objects.address_object.Address`
XML Binding class name: `IP_Address`
Dictionary key name: `ip_address`

port

Type: `cybox.objects.port_object.Port`
XML Binding class name: `Port`
Dictionary key name: `port`

Version: 2.1.0.11

cybox.objects.system_object module

class `cybox.objects.system_object.BIOSInfo`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.BIOSInfoType`

bios_date

Type: `cybox.common.properties.Date`

XML Binding class name: `BIOS_Date`

Dictionary key name: `bios_date`

bios_manufacturer

Type: `cybox.common.properties.String`

XML Binding class name: `BIOS_Manufacturer`

Dictionary key name: `bios_manufacturer`

bios_release_date

Type: `cybox.common.properties.Date`

XML Binding class name: `BIOS_Release_Date`

Dictionary key name: `bios_release_date`

bios_serial_number

Type: `cybox.common.properties.String`

XML Binding class name: `BIOS_Serial_Number`

Dictionary key name: `bios_serial_number`

bios_version

Type: `cybox.common.properties.String`

XML Binding class name: `BIOS_Version`

Dictionary key name: `bios_version`

class `cybox.objects.system_object.DHCPServerList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.system_object.DHCPServerListType`

class `cybox.objects.system_object.IPGatewayList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.system_object.IPGatewayListType`

class `cybox.objects.system_object.IPInfo`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.IPInfoType`

class `cybox.objects.system_object.IPInfoList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.system_object.IPInfoListType`

class `cybox.objects.system_object.NetworkInterface`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.NetworkInterfaceType`

adapter

Type: `cybox.common.properties.String`
XML Binding class name: Adapter
Dictionary key name: adapter

description

Type: `cybox.common.properties.String`
XML Binding class name: Description
Dictionary key name: description

dhcp_lease_expires

Type: `cybox.common.properties.DateTime`
XML Binding class name: DHCP_Lease_Expires
Dictionary key name: dhcp_lease_expires

dhcp_lease_obtained

Type: `cybox.common.properties.DateTime`
XML Binding class name: DHCP_Lease_Obtained
Dictionary key name: dhcp_lease_obtained

dhcp_server_list

Type: `cybox.objects.system_object.DHCPServerList`
XML Binding class name: DHCP_Server_List
Dictionary key name: dhcp_server_list

ip_gateway_list

Type: `cybox.objects.system_object.IPGatewayList`
XML Binding class name: IP_Gateway_List
Dictionary key name: ip_gateway_list

ip_list

Type: `cybox.objects.system_object.IPInfoList`
XML Binding class name: `IP_List`
Dictionary key name: `ip_list`

mac

Type: `cybox.common.properties.String`
XML Binding class name: `MAC`
Dictionary key name: `mac`

class `cybox.objects.system_object.NetworkInterfaceList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.system_object.NetworkInterfaceListType`

class `cybox.objects.system_object.OS`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.system_object.OSType`

bitness

Type: `cybox.common.properties.String`
XML Binding class name: `Bitness`
Dictionary key name: `bitness`

build_number

Type: `cybox.common.properties.String`
XML Binding class name: `Build_Number`
Dictionary key name: `build_number`

environment_variable_list

Type: `cybox.common.environment_variable.EnvironmentVariableList`
XML Binding class name: `Environment_Variable_List`
Dictionary key name: `environment_variable_list`

install_date

Type: `cybox.common.properties.Date`
XML Binding class name: `Install_Date`
Dictionary key name: `install_date`

patch_level

Type: `cybox.common.properties.String`
XML Binding class name: `Patch_Level`

Dictionary key name: patch_level

platform

Type: `cybox.common.platform_specification.PlatformSpecification`

XML Binding class name: Platform

Dictionary key name: platform

class `cybox.objects.system_object.System`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.system_object.SystemObjectType`

available_physical_memory

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Available_Physical_Memory

Dictionary key name: available_physical_memory

bios_info

Type: `cybox.objects.system_object.BIOSInfo`

XML Binding class name: BIOS_Info

Dictionary key name: bios_info

date

Type: `cybox.common.properties.Date`

XML Binding class name: Date

Dictionary key name: date

hostname

Type: `cybox.common.properties.String`

XML Binding class name: Hostname

Dictionary key name: hostname

local_time

Type: `cybox.common.properties.Time`

XML Binding class name: Local_Time

Dictionary key name: local_time

network_interface_list

Type: `cybox.objects.system_object.NetworkInterfaceList`

XML Binding class name: Network_Interface_List

Dictionary key name: network_interface_list

os

Type: `cybox.objects.system_object.OS`

XML Binding class name: OS

Dictionary key name: os

processor

Type: `cybox.common.properties.String`

XML Binding class name: Processor

Dictionary key name: processor

system_time

Type: `cybox.common.properties.Time`

XML Binding class name: System_Time

Dictionary key name: system_time

timezone_dst

Type: `cybox.common.properties.String`

XML Binding class name: Timezone_DST

Dictionary key name: timezone_dst

timezone_standard

Type: `cybox.common.properties.String`

XML Binding class name: Timezone_Standard

Dictionary key name: timezone_standard

total_physical_memory

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Total_Physical_Memory

Dictionary key name: total_physical_memory

uptime

Type: `cybox.common.properties.Duration`

XML Binding class name: Uptime

Dictionary key name: uptime

username

Type: `cybox.common.properties.String`

XML Binding class name: Username

Dictionary key name: username

Version: 2.1.0.11

cybox.objects.uri_object module

class cybox.objects.uri_object.**URI** (*value=None, type_=None*)
Bases: cybox.common.object_properties.ObjectProperties

XML binding class: cybox.bindings.uri_object.URIOBJECTTYPE

type_

XML Binding class name: type_

Dictionary key name: type

value

Type: cybox.common.properties.AnyURI

XML Binding class name: Value

Dictionary key name: value

Version: 2.1.0.11

cybox.objects.user_account_object module

class cybox.objects.user_account_object.**Group**
Bases: cybox.Entity

An abstract class for account groups.

XML binding class: <undefined>

class cybox.objects.user_account_object.**GroupList** (**args*)
Bases: cybox.EntityList

XML binding class: cybox.bindings.user_account_object.GroupListType

class cybox.objects.user_account_object.**Privilege**
Bases: cybox.Entity

An abstract class for account privileges.

XML binding class: <undefined>

class cybox.objects.user_account_object.**PrivilegeList** (**args*)
Bases: cybox.EntityList

XML binding class: cybox.bindings.user_account_object.PrivilegeListType

class `cybox.objects.user_account_object.UserAccount`
Bases: `cybox.objects.account_object.Account`

XML binding class: `cybox.bindings.user_account_object.UserAccountObjectType`

full_name

Type: `cybox.common.properties.String`
XML Binding class name: `Full_Name`
Dictionary key name: `full_name`

group_list

Type: `cybox.objects.user_account_object.GroupList`
XML Binding class name: `Group_List`
Dictionary key name: `group_list`

home_directory

Type: `cybox.common.properties.String`
XML Binding class name: `Home_Directory`
Dictionary key name: `home_directory`

last_login

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Last_Login`
Dictionary key name: `last_login`

password_required

XML Binding class name: `password_required`
Dictionary key name: `password_required`

privilege_list

Type: `cybox.objects.user_account_object.PrivilegeList`
XML Binding class name: `Privilege_List`
Dictionary key name: `privilege_list`

script_path

Type: `cybox.common.properties.String`
XML Binding class name: `Script_Path`
Dictionary key name: `script_path`

user_password_age

Type: `cybox.common.properties.Duration`

XML Binding class name: User_Password_Age

Dictionary key name: user_password_age

username

Type: `cybox.common.properties.String`

XML Binding class name: Username

Dictionary key name: username

Version: 2.1.0.11

cybox.objects.volume_object module

class `cybox.objects.volume_object.FileSystemFlagList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.volume_object.FileSystemFlagListType`

class `cybox.objects.volume_object.Volume`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.volume_object.VolumeObjectType`

actual_available_allocation_units

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Actual_Available_Allocation_Units

Dictionary key name: actual_available_allocation_units

bytes_per_sector

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: Bytes_Per_Sector

Dictionary key name: bytes_per_sector

creation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Creation_Time

Dictionary key name: creation_time

device_path

Type: `cybox.common.properties.String`

XML Binding class name: Device_Path

Dictionary key name: device_path

file_system_flag_list

Type: `cybox.objects.volume_object.FileSystemFlagList`

XML Binding class name: `File_System_Flag_List`

Dictionary key name: `file_system_flag_list`

file_system_type

Type: `cybox.common.properties.String`

XML Binding class name: `File_System_Type`

Dictionary key name: `file_system_type`

is_mounted

XML Binding class name: `is_mounted`

Dictionary key name: `is_mounted`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

sectors_per_allocation_unit

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Sectors_Per_Allocation_Unit`

Dictionary key name: `sectors_per_allocation_unit`

serial_number

Type: `cybox.common.properties.String`

XML Binding class name: `Serial_Number`

Dictionary key name: `serial_number`

total_allocation_units

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Total_Allocation_Units`

Dictionary key name: `total_allocation_units`

Version: 2.1.0.11

cybox.objects.whois_object module

class `cybox.objects.whois_object.WhoisContact`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.whois_object.WhoisContactType`

address

Type: `cybox.common.properties.String`

XML Binding class name: `Address`

Dictionary key name: `address`

contact_id

Type: `cybox.common.properties.String`

XML Binding class name: `Contact_ID`

Dictionary key name: `contact_id`

contact_type

XML Binding class name: `contact_type`

Dictionary key name: `contact_type`

email_address

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: `Email_Address`

Dictionary key name: `email_address`

fax_number

Type: `cybox.common.properties.String`

XML Binding class name: `Fax_Number`

Dictionary key name: `fax_number`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

organization

Type: `cybox.common.properties.String`

XML Binding class name: `Organization`

Dictionary key name: `organization`

phone_number

Type: `cybox.common.properties.String`

XML Binding class name: `Phone_Number`

Dictionary key name: `phone_number`

class `cybox.objects.whois_object.WhoisContacts` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisContactsType`

class `cybox.objects.whois_object.WhoisEntry`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.whois_object.WhoisObjectType`

contact_info

Type: `cybox.objects.whois_object.WhoisContact`
XML Binding class name: `Contact_Info`
Dictionary key name: `contact_info`

creation_date

Type: `cybox.common.properties.Date`
XML Binding class name: `Creation_Date`
Dictionary key name: `creation_date`

dnssec

XML Binding class name: `DNSSEC`
Dictionary key name: `dnssec`

domain_id

Type: `cybox.common.properties.String`
XML Binding class name: `Domain_ID`
Dictionary key name: `domain_id`

domain_name

Type: `cybox.objects.uri_object.URI`
XML Binding class name: `Domain_Name`
Dictionary key name: `domain_name`

expiration_date

Type: `cybox.common.properties.Date`
XML Binding class name: `Expiration_Date`
Dictionary key name: `expiration_date`

ip_address

Type: `cybox.objects.address_object.Address`
XML Binding class name: `IP_Address`
Dictionary key name: `ip_address`

lookup_date

Type: `cybox.common.properties.DateTime`

XML Binding class name: Lookup_Date

Dictionary key name: lookup_date

nameservers

Type: `cybox.objects.whois_object.WhoisNameservers`

XML Binding class name: Nameservers

Dictionary key name: nameservers

regional_internet_registry

Type: `cybox.common.properties.String`

XML Binding class name: Regional_Internet_Registry

Dictionary key name: regional_internet_registry

registrants

Type: `cybox.objects.whois_object.WhoisRegistrants`

XML Binding class name: Registrants

Dictionary key name: registrants

registrar_info

Type: `cybox.objects.whois_object.WhoisRegistrar`

XML Binding class name: Registrar_Info

Dictionary key name: registrar_info

remarks

Type: `cybox.common.properties.String`

XML Binding class name: Remarks

Dictionary key name: remarks

server_name

Type: `cybox.objects.uri_object.URI`

XML Binding class name: Server_Name

Dictionary key name: server_name

sponsoring_registrar

Type: `cybox.common.properties.String`

XML Binding class name: Sponsoring_Registrar

Dictionary key name: sponsoring_registrar

status

Type: `cybox.objects.whois_object.WhoisStatuses`

XML Binding class name: Status

Dictionary key name: status

updated_date

Type: `cybox.common.properties.Date`

XML Binding class name: `Updated_Date`

Dictionary key name: `updated_date`

class `cybox.objects.whois_object.WhoisNameservers` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisNameserversType`

class `cybox.objects.whois_object.WhoisRegistrant`
Bases: `cybox.objects.whois_object.WhoisContact`

XML binding class: `cybox.bindings.whois_object.WhoisRegistrantInfoType`

registrant_id

Type: `cybox.common.properties.String`

XML Binding class name: `Registrant_ID`

Dictionary key name: `registrant_id`

class `cybox.objects.whois_object.WhoisRegistrants` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisRegistrantsType`

class `cybox.objects.whois_object.WhoisRegistrar`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.whois_object.WhoisRegistrarInfoType`

address

Type: `cybox.common.properties.String`

XML Binding class name: `Address`

Dictionary key name: `address`

contacts

Type: `cybox.objects.whois_object.WhoisContacts`

XML Binding class name: `Contacts`

Dictionary key name: `contacts`

email_address

Type: `cybox.objects.address_object.EmailAddress`

XML Binding class name: `Email_Address`

Dictionary key name: `email_address`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

phone_number

Type: `cybox.common.properties.String`

XML Binding class name: `Phone_Number`

Dictionary key name: `phone_number`

referral_url

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Referral_URL`

Dictionary key name: `referral_url`

registrar_guid

Type: `cybox.common.properties.String`

XML Binding class name: `Registrar_GUID`

Dictionary key name: `registrar_guid`

registrar_id

Type: `cybox.common.properties.String`

XML Binding class name: `Registrar_ID`

Dictionary key name: `registrar_id`

whois_server

Type: `cybox.objects.uri_object.URI`

XML Binding class name: `Whois_Server`

Dictionary key name: `whois_server`

class `cybox.objects.whois_object.WhoisStatus` (*value=None*)

Bases: `cybox.common.properties.BaseProperty`

XML binding class: `cybox.bindings.whois_object.WhoisStatusType`

class `cybox.objects.whois_object.WhoisStatuses` (**args*)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.whois_object.WhoisStatusesType`

Version: 2.1.0.11

`cybox.objects.win_computer_account_object` module

class `cybox.objects.win_computer_account_object.FullyQualifiedName`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.win_computer_account_object.FullyQualifiedNameType`

full_name

Type: `cybox.common.properties.String`
XML Binding class name: `Full_Name`
Dictionary key name: `full_name`

netbeui_name

Type: `cybox.common.properties.String`
XML Binding class name: `NetBEUI_Name`
Dictionary key name: `netbeui_name`

class `cybox.objects.win_computer_account_object.Kerberos`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_computer_account_object.KerberosType`

delegation

Type: `cybox.objects.win_computer_account_object.KerberosDelegation`
XML Binding class name: `Delegation`
Dictionary key name: `delegation`

ticket

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Ticket`
Dictionary key name: `ticket`

class `cybox.objects.win_computer_account_object.KerberosDelegation`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.win_computer_account_object.KerberosDelegationType`

bitmask

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Bitmask

Dictionary key name: bitmask

service

Type: `cybox.objects.win_computer_account_object.KerberosService`

XML Binding class name: Service

Dictionary key name: service

class `cybox.objects.win_computer_account_object.KerberosService`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_computer_account_object.KerberosServiceType`

computer

Type: `cybox.common.properties.String`

XML Binding class name: Computer

Dictionary key name: computer

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

port

Type: `cybox.objects.port_object.Port`

XML Binding class name: Port

Dictionary key name: port

user

Type: `cybox.common.properties.String`

XML Binding class name: User

Dictionary key name: user

class `cybox.objects.win_computer_account_object.WinComputerAccount`

Bases: `cybox.objects.account_object.Account`

XML binding class:

`cybox.bindings.win_computer_account_object.WindowsComputerAccountObjectType`

fully_qualified_name

Type: `cybox.objects.win_computer_account_object.FullyQualifiedName`

XML Binding class name: `FullyQualifiedName`

Dictionary key name: `fully_qualified_name`

kerberos

Type: `cybox.objects.win_computer_account_object.Kerberos`

XML Binding class name: `Kerberos`

Dictionary key name: `kerberos`

security_id

Type: `cybox.common.properties.String`

XML Binding class name: `SecurityID`

Dictionary key name: `security_id`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_critical_section_object module

class `cybox.objects.win_critical_section_object.WinCriticalSection`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_critical_section_object.WindowsCriticalSectionObjectType`

address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Address`

Dictionary key name: `address`

spin_count

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `SpinCount`

Dictionary key name: `spin_count`

Version: 2.1.0.11

`cybox.objects.win_driver_object` module

class `cybox.objects.win_driver_object.DeviceObjectList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_driver_object.DeviceObjectListType`

class `cybox.objects.win_driver_object.DeviceObjectStruct`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_driver_object.DeviceObjectStructType`

attached_device_name

Type: `cybox.common.properties.String`
XML Binding class name: `Attached_Device_Name`
Dictionary key name: `attached_device_name`

attached_device_object

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Attached_Device_Object`
Dictionary key name: `attached_device_object`

attached_to_device_name

Type: `cybox.common.properties.String`
XML Binding class name: `Attached_To_Device_Name`
Dictionary key name: `attached_to_device_name`

attached_to_device_object

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Attached_To_Device_Object`
Dictionary key name: `attached_to_device_object`

attached_to_driver_name

Type: `cybox.common.properties.String`
XML Binding class name: `Attached_To_Driver_Name`
Dictionary key name: `attached_to_driver_name`

attached_to_driver_object

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Attached_To_Driver_Object`
Dictionary key name: `attached_to_driver_object`

device_name

Type: `cybox.common.properties.String`

XML Binding class name: `Device_Name`

Dictionary key name: `device_name`

device_object

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Device_Object`

Dictionary key name: `device_object`

class `cybox.objects.win_driver_object.WinDriver`

Bases: `cybox.objects.win_executable_file_object.WinExecutableFile`

XML binding class: `cybox.bindings.win_driver_object.WindowsDriverObjectType`

device_object_list

Type: `cybox.objects.win_driver_object.DeviceObjectList`

XML Binding class name: `Device_Object_List`

Dictionary key name: `device_object_list`

driver_init

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Driver_Init`

Dictionary key name: `driver_init`

driver_name

Type: `cybox.common.properties.String`

XML Binding class name: `Driver_Name`

Dictionary key name: `driver_name`

driver_object_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Driver_Object_Address`

Dictionary key name: `driver_object_address`

driver_start_io

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Driver_Start_IO`

Dictionary key name: `driver_start_io`

driver_unload

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Driver_Unload`
Dictionary key name: `driver_unload`

image_base

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Image_Base`
Dictionary key name: `image_base`

image_size

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Image_Size`
Dictionary key name: `image_size`

irp_mj_cleanup

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_CLEANUP`
Dictionary key name: `irp_mj_cleanup`

irp_mj_close

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_CLOSE`
Dictionary key name: `irp_mj_close`

irp_mj_create

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_CREATE`
Dictionary key name: `irp_mj_create`

irp_mj_create_mailslot

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_CREATE_MAILSLLOT`
Dictionary key name: `irp_mj_create_mailslot`

irp_mj_create_named_pipe

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_CREATE_NAMED_PIPE`
Dictionary key name: `irp_mj_create_named_pipe`

irp_mj_device_change

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `IRP_MJ_DEVICE_CHANGE`
Dictionary key name: `irp_mj_device_change`

irp_mj_device_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_DEVICE_CONTROL`

Dictionary key name: `irp_mj_device_control`

irp_mj_directory_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_DIRECTORY_CONTROL`

Dictionary key name: `irp_mj_directory_control`

irp_mj_file_system_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_FILE_SYSTEM_CONTROL`

Dictionary key name: `irp_mj_file_system_control`

irp_mj_flush_buffers

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_FLUSH_BUFFERS`

Dictionary key name: `irp_mj_flush_buffers`

irp_mj_internal_device_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_INTERNAL_DEVICE_CONTROL`

Dictionary key name: `irp_mj_internal_device_control`

irp_mj_lock_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_LOCK_CONTROL`

Dictionary key name: `irp_mj_lock_control`

irp_mj_pnp

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_PNP`

Dictionary key name: `irp_mj_pnp`

irp_mj_power

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_POWER`

Dictionary key name: `irp_mj_power`

irp_mj_query_ea

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_QUERY_EA

Dictionary key name: irp_mj_query_ea

irp_mj_query_information

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_QUERY_INFORMATION

Dictionary key name: irp_mj_query_information

irp_mj_query_quota

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_QUERY_QUOTA

Dictionary key name: irp_mj_query_quota

irp_mj_query_security

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_QUERY_SECURITY

Dictionary key name: irp_mj_query_security

irp_mj_query_volume_information

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_QUERY_VOLUME_INFORMATION

Dictionary key name: irp_mj_query_volume_information

irp_mj_read

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_READ

Dictionary key name: irp_mj_read

irp_mj_set_ea

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SET_EA

Dictionary key name: irp_mj_set_ea

irp_mj_set_information

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SET_INFORMATION

Dictionary key name: irp_mj_set_information

irp_mj_set_quota

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: IRP_MJ_SET_QUOTA

Dictionary key name: irp_mj_set_quota

irp_mj_set_security

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_SET_SECURITY`

Dictionary key name: `irp_mj_set_security`

irp_mj_set_volume_information

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_SET_VOLUME_INFORMATION`

Dictionary key name: `irp_mj_set_volume_information`

irp_mj_shutdown

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_SHUTDOWN`

Dictionary key name: `irp_mj_shutdown`

irp_mj_system_control

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_SYSTEM_CONTROL`

Dictionary key name: `irp_mj_system_control`

irp_mj_write

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `IRP_MJ_WRITE`

Dictionary key name: `irp_mj_write`

Version: 2.1.0.11

cybox.objects.win_event_log_object module

class `cybox.objects.win_event_log_object.UnformattedMessageList` (*args)

Bases: `cybox.EntityList`

XML binding class:

`cybox.bindings.win_event_log_object.UnformattedMessageListType`

class `cybox.objects.win_event_log_object.WinEventLog`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_event_log_object.WindowsEventLogObjectType`

blob

Type: `cybox.common.properties.Base64Binary`
XML Binding class name: Blob
Dictionary key name: blob

category

Type: `cybox.common.properties.String`
XML Binding class name: Category
Dictionary key name: category

category_num

Type: `cybox.common.properties.Long`
XML Binding class name: Category_Num
Dictionary key name: category_num

correlation_activity_id

Type: `cybox.common.properties.String`
XML Binding class name: Correlation_Activity_ID
Dictionary key name: correlation_activity_id

correlation_related_activity_id

Type: `cybox.common.properties.String`
XML Binding class name: Correlation_Related_Activity_ID
Dictionary key name: correlation_related_activity_id

eid

Type: `cybox.common.properties.Long`
XML Binding class name: EID
Dictionary key name: eid

execution_process_id

Type: `cybox.common.properties.String`
XML Binding class name: Execution_Process_ID
Dictionary key name: execution_process_id

execution_thread_id

Type: `cybox.common.properties.String`
XML Binding class name: Execution_Thread_ID
Dictionary key name: execution_thread_id

generation_time

Type: `cybox.common.properties.DateTime`
XML Binding class name: Generation_Time
Dictionary key name: generation_time

index

Type: `cybox.common.properties.Long`

XML Binding class name: Index

Dictionary key name: index

log

Type: `cybox.common.properties.String`

XML Binding class name: Log

Dictionary key name: log

machine

Type: `cybox.common.properties.String`

XML Binding class name: Machine

Dictionary key name: machine

message

Type: `cybox.common.properties.String`

XML Binding class name: Message

Dictionary key name: message

reserved

Type: `cybox.common.properties.Long`

XML Binding class name: Reserved

Dictionary key name: reserved

source

Type: `cybox.common.properties.String`

XML Binding class name: Source

Dictionary key name: source

type

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

unformatted_message_list

Type: `cybox.objects.win_event_log_object.UnformattedMessageList`

XML Binding class name: Unformatted_Message_List

Dictionary key name: unformatted_message_list

user

Type: `cybox.common.properties.String`

XML Binding class name: User

Dictionary key name: user

write_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Write_Time

Dictionary key name: write_time

Version: 2.1.0.11

cybox.objects.win_event_object module

class `cybox.objects.win_event_object.WinEvent`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_event_object.WindowsEventObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: Handle

Dictionary key name: handle

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

Version: 2.1.0.11

cybox.objects.win_executable_file_object module

class `cybox.objects.win_executable_file_object.DOSHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.DOSHeaderType`

e_cblp

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cblp`
Dictionary key name: `e_cblp`

e_cp

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cp`
Dictionary key name: `e_cp`

e_cparhdr

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cparhdr`
Dictionary key name: `e_cparhdr`

e_crlc

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_crlc`
Dictionary key name: `e_crlc`

e_cs

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_cs`
Dictionary key name: `e_cs`

e_csum

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_csum`
Dictionary key name: `e_csum`

e_ip

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_ip`
Dictionary key name: `e_ip`

e_lfanew

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_lfanew`
Dictionary key name: `e_lfanew`

e_lfarlc

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `e_lfarlc`
Dictionary key name: `e_lfarlc`

e_magic

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_magic`

Dictionary key name: `e_magic`

e_maxalloc

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_maxalloc`

Dictionary key name: `e_maxalloc`

e_minalloc

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_minalloc`

Dictionary key name: `e_minalloc`

e_oemid

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_oemid`

Dictionary key name: `e_oemid`

e_oeminfo

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_oeminfo`

Dictionary key name: `e_oeminfo`

e_ovro

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_ovro`

Dictionary key name: `e_ovro`

e_sp

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_sp`

Dictionary key name: `e_sp`

e_ss

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `e_ss`

Dictionary key name: `e_ss`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

reserved2

Type: `cybox.common.properties.HexBinary`

XML Binding class name: reserved2

Dictionary key name: reserved2

class `cybox.objects.win_executable_file_object.DataDirectory`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.DataDirectoryType`

architecture

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Architecture

Dictionary key name: architecture

base_relocation_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Base_Relocation_Table

Dictionary key name: base_relocation_table

bound_import

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Bound_Import

Dictionary key name: bound_import

certificate_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Certificate_Table

Dictionary key name: certificate_table

clr_runtime_header

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: CLR_Runtime_Header

Dictionary key name: clr_runtime_header

debug

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Debug

Dictionary key name: debug

delay_import_descriptor

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Delay_Import_Descriptor`

Dictionary key name: `delay_import_descriptor`

exception_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Exception_Table`

Dictionary key name: `exception_table`

export_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Export_Table`

Dictionary key name: `export_table`

global_ptr

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Global_Ptr`

Dictionary key name: `global_ptr`

import_address_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Import_Address_Table`

Dictionary key name: `import_address_table`

import_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Import_Table`

Dictionary key name: `import_table`

load_config_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Load_Config_Table`

Dictionary key name: `load_config_table`

reserved

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: `Reserved`

Dictionary key name: `reserved`

resource_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Resource_Table

Dictionary key name: resource_table

tls_table

Type: `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

XML Binding class name: Tls_Table

Dictionary key name: tls_table

class `cybox.objects.win_executable_file_object.Entropy`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.EntropyType`

max

Type: `cybox.common.properties.Float`

XML Binding class name: Max

Dictionary key name: max

min

Type: `cybox.common.properties.Float`

XML Binding class name: Min

Dictionary key name: min

value

Type: `cybox.common.properties.Float`

XML Binding class name: Value

Dictionary key name: value

class `cybox.objects.win_executable_file_object.PEBuildInformation`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEBuildInformationType`

compiler_name

Type: `cybox.common.properties.String`

XML Binding class name: Compiler_Name

Dictionary key name: compiler_name

compiler_version

Type: `cybox.common.properties.String`

XML Binding class name: Compiler_Version

Dictionary key name: `compiler_version`

linker_name

Type: `cybox.common.properties.String`

XML Binding class name: `Linker_Name`

Dictionary key name: `linker_name`

linker_version

Type: `cybox.common.properties.String`

XML Binding class name: `Linker_Version`

Dictionary key name: `linker_version`

class `cybox.objects.win_executable_file_object.PEChecksum`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEChecksumType`

pe_computed_api

Type: `cybox.common.properties.Long`

XML Binding class name: `PE_Computed_API`

Dictionary key name: `pe_computed_api`

pe_file_api

Type: `cybox.common.properties.Long`

XML Binding class name: `PE_File_API`

Dictionary key name: `pe_file_api`

pe_file_raw

Type: `cybox.common.properties.Long`

XML Binding class name: `PE_File_Raw`

Dictionary key name: `pe_file_raw`

class `cybox.objects.win_executable_file_object.PEDataDirectoryStruct`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEDataDirectoryStructType`

size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Size`

Dictionary key name: `size`

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Virtual_Address`

Dictionary key name: `virtual_address`

class `cybox.objects.win_executable_file_object.PEEExportedFunction`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEEExportedFunctionType`

entry_point

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Entry_Point`

Dictionary key name: `entry_point`

function_name

Type: `cybox.common.properties.String`

XML Binding class name: `Function_Name`

Dictionary key name: `function_name`

ordinal

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Ordinal`

Dictionary key name: `ordinal`

class `cybox.objects.win_executable_file_object.PEEExportedFunctions (*args)`

Bases: `cybox.EntityList`

XML binding class:

`cybox.bindings.win_executable_file_object.PEEExportedFunctionsType`

class `cybox.objects.win_executable_file_object.PEEExports`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEEExportsType`

exported_functions

Type: `cybox.objects.win_executable_file_object.PEEExportedFunctions`

XML Binding class name: `Exported_Functions`

Dictionary key name: `exported_functions`

exports_time_stamp

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Exports_Time_Stamp`

Dictionary key name: `exports_time_stamp`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

number_of_addresses

Type: `cybox.common.properties.Long`

XML Binding class name: `Number_Of_Addresses`

Dictionary key name: `number_of_addresses`

number_of_functions

Type: `cybox.common.properties.Integer`

XML Binding class name: `Number_Of_Functions`

Dictionary key name: `number_of_functions`

number_of_names

Type: `cybox.common.properties.Long`

XML Binding class name: `Number_Of_Names`

Dictionary key name: `number_of_names`

class `cybox.objects.win_executable_file_object.PEFileHeader`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEFileHeaderType`

characteristics

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Characteristics`

Dictionary key name: `characteristics`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Hashes`

Dictionary key name: `hashes`

machine

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: Machine
 Dictionary key name: machine

number_of_sections

Type: `cybox.common.properties.NonNegativeInteger`
 XML Binding class name: Number_Of_Sections
 Dictionary key name: number_of_sections

number_of_symbols

Type: `cybox.common.properties.NonNegativeInteger`
 XML Binding class name: Number_Of_Symbols
 Dictionary key name: number_of_symbols

pointer_to_symbol_table

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: Pointer_To_Symbol_Table
 Dictionary key name: pointer_to_symbol_table

size_of_optional_header

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: Size_Of_Optional_Header
 Dictionary key name: size_of_optional_header

time_date_stamp

Type: `cybox.common.properties.HexBinary`
 XML Binding class name: Time_Date_Stamp
 Dictionary key name: time_date_stamp

class `cybox.objects.win_executable_file_object.PEHeaders`
 Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEHeadersType`

dos_header

Type: `cybox.objects.win_executable_file_object.DOSHeader`
 XML Binding class name: DOS_Header
 Dictionary key name: dos_header

entropy

Type: `cybox.objects.win_executable_file_object.Entropy`
 XML Binding class name: Entropy

Dictionary key name: entropy

file_header

Type: `cybox.objects.win_executable_file_object.PEFileHeader`

XML Binding class name: File_Header

Dictionary key name: file_header

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

optional_header

Type: `cybox.objects.win_executable_file_object.PEOptionalHeader`

XML Binding class name: Optional_Header

Dictionary key name: optional_header

signature

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Signature

Dictionary key name: signature

class `cybox.objects.win_executable_file_object.PEImport`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PEImportType`

delay_load

XML Binding class name: delay_load

Dictionary key name: delay_load

file_name

Type: `cybox.common.properties.String`

XML Binding class name: File_Name

Dictionary key name: file_name

imported_functions

Type: `cybox.objects.win_executable_file_object.PEImportedFunctions`

XML Binding class name: Imported_Functions

Dictionary key name: imported_functions

initially_visible

XML Binding class name: `initially_visible`

Dictionary key name: `initially_visible`

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Virtual_Address`

Dictionary key name: `virtual_address`

class `cybox.objects.win_executable_file_object.PEImportList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_executable_file_object.PEImportListType`

class `cybox.objects.win_executable_file_object.PEImportedFunction`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEImportedFunctionType`

bound

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Bound`

Dictionary key name: `bound`

function_name

Type: `cybox.common.properties.String`

XML Binding class name: `Function_Name`

Dictionary key name: `function_name`

hint

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Hint`

Dictionary key name: `hint`

ordinal

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Ordinal`

Dictionary key name: `ordinal`

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Virtual_Address`

Dictionary key name: virtual_address

class `cybox.objects.win_executable_file_object.PEImportedFunctions` (*args)
Bases: `cybox.EntityList`

XML binding class:

`cybox.bindings.win_executable_file_object.PEImportedFunctionsType`

class `cybox.objects.win_executable_file_object.PEOptionalHeader`
Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PEOptionalHeaderType`

address_of_entry_point

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Address_Of_Entry_Point`
Dictionary key name: `address_of_entry_point`

base_of_code

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Base_Of_Code`
Dictionary key name: `base_of_code`

base_of_data

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Base_Of_Data`
Dictionary key name: `base_of_data`

checksum

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Checksum`
Dictionary key name: `checksum`

data_directory

Type: `cybox.objects.win_executable_file_object.DataDirectory`
XML Binding class name: `Data_Directory`
Dictionary key name: `data_directory`

dll_characteristics

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `DLL_Characteristics`

Dictionary key name: dll_characteristics

file_alignment

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `File_Alignment`

Dictionary key name: `file_alignment`

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Hashes`

Dictionary key name: `hashes`

image_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Image_Base`

Dictionary key name: `image_base`

loader_flags

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Loader_Flags`

Dictionary key name: `loader_flags`

magic

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Magic`

Dictionary key name: `magic`

major_image_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Major_Image_Version`

Dictionary key name: `major_image_version`

major_linker_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Major_Linker_Version`

Dictionary key name: `major_linker_version`

major_os_version

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Major_OS_Version`

Dictionary key name: `major_os_version`

major_subsystem_version

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Major_Subsystem_Version`
Dictionary key name: `major_subsystem_version`

minor_image_version

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Minor_Image_Version`
Dictionary key name: `minor_image_version`

minor_linker_version

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Minor_Linker_Version`
Dictionary key name: `minor_linker_version`

minor_os_version

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Minor_OS_Version`
Dictionary key name: `minor_os_version`

minor_subsystem_version

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Minor_Subsystem_Version`
Dictionary key name: `minor_subsystem_version`

number_of_rva_and_sizes

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Number_Of_Rva_And_Sizes`
Dictionary key name: `number_of_rva_and_sizes`

section_alignment

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Section_Alignment`
Dictionary key name: `section_alignment`

size_of_code

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Size_Of_Code`
Dictionary key name: `size_of_code`

size_of_headers

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Size_Of_Headers`
Dictionary key name: `size_of_headers`

size_of_heap_commit

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Heap_Commit`

Dictionary key name: `size_of_heap_commit`

size_of_heap_reserve

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Heap_Reserve`

Dictionary key name: `size_of_heap_reserve`

size_of_image

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Image`

Dictionary key name: `size_of_image`

size_of_initialized_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Initialized_Data`

Dictionary key name: `size_of_initialized_data`

size_of_stack_commit

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Stack_Commit`

Dictionary key name: `size_of_stack_commit`

size_of_stack_reserve

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Stack_Reserve`

Dictionary key name: `size_of_stack_reserve`

size_of_uninitialized_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Uninitialized_Data`

Dictionary key name: `size_of_uninitialized_data`

subsystem

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Subsystem`

Dictionary key name: `subsystem`

win32_version_value

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Win32_Version_Value

Dictionary key name: win32_version_value

class cybox.objects.win_executable_file_object.PEResource

Bases: cybox.Entity

XML binding class: cybox.bindings.win_executable_file_object.PEResourceType

data

Type: cybox.common.properties.String

XML Binding class name: Data

Dictionary key name: data

hashes

Type: cybox.common.hashes.HashList

XML Binding class name: Hashes

Dictionary key name: hashes

language

Type: cybox.common.properties.String

XML Binding class name: Language

Dictionary key name: language

name

Type: cybox.common.properties.String

XML Binding class name: Name

Dictionary key name: name

size

Type: cybox.common.properties.PositiveInteger

XML Binding class name: Size

Dictionary key name: size

sub_language

Type: cybox.common.properties.String

XML Binding class name: Sub_Language

Dictionary key name: sub_language

type_

Type: cybox.common.properties.String

XML Binding class name: Type

Dictionary key name: type

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Virtual_Address`

Dictionary key name: `virtual_address`

class `cybox.objects.win_executable_file_object.PEResourceList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_executable_file_object.PEResourceListType`

static from_list (*pe_resource_list*)

class `cybox.objects.win_executable_file_object.PESection`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_executable_file_object.PESectionType`

data_hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Data_Hashes`

Dictionary key name: `data_hashes`

entropy

Type: `cybox.objects.win_executable_file_object.Entropy`

XML Binding class name: `Entropy`

Dictionary key name: `entropy`

header_hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Header_Hashes`

Dictionary key name: `header_hashes`

section_header

Type: `cybox.objects.win_executable_file_object.PESectionHeaderStruct`

XML Binding class name: `Section_Header`

Dictionary key name: `section_header`

class `cybox.objects.win_executable_file_object.PESectionHeaderStruct`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.win_executable_file_object.PESectionHeaderStructType`

characteristics

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Characteristics`

Dictionary key name: `characteristics`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

number_of_linenumbers

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number_Of_Linenumbers`

Dictionary key name: `number_of_linenumbers`

number_of_relocations

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number_Of_Relocations`

Dictionary key name: `number_of_relocations`

pointer_to_linenumbers

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer_To_Linenumbers`

Dictionary key name: `pointer_to_linenumbers`

pointer_to_raw_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer_To_Raw_Data`

Dictionary key name: `pointer_to_raw_data`

pointer_to_relocations

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pointer_To_Relocations`

Dictionary key name: `pointer_to_relocations`

size_of_raw_data

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Size_Of_Raw_Data`

Dictionary key name: `size_of_raw_data`

virtual_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Virtual_Address

Dictionary key name: virtual_address

virtual_size

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Virtual_Size

Dictionary key name: virtual_size

class `cybox.objects.win_executable_file_object.PESectionList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_executable_file_object.PESectionListType`

class `cybox.objects.win_executable_file_object.PEVersionInfoResource`

Bases: `cybox.objects.win_executable_file_object.PEResource`

XML binding class:

`cybox.bindings.win_executable_file_object.PEVersionInfoResourceType`

comments

Type: `cybox.common.properties.String`

XML Binding class name: Comments

Dictionary key name: comments

companyname

Type: `cybox.common.properties.String`

XML Binding class name: CompanyName

Dictionary key name: companyname

filedescription

Type: `cybox.common.properties.String`

XML Binding class name: FileDescription

Dictionary key name: filedescription

fileversion

Type: `cybox.common.properties.String`

XML Binding class name: FileVersion

Dictionary key name: fileversion

internalname

Type: `cybox.common.properties.String`

XML Binding class name: InternalName

Dictionary key name: `internalname`

static keyword_test (*pe_resource_dict*)

langid

Type: `cybox.common.properties.String`

XML Binding class name: `LangID`

Dictionary key name: `langid`

legalcopyright

Type: `cybox.common.properties.String`

XML Binding class name: `LegalCopyright`

Dictionary key name: `legalcopyright`

legaltrademarks

Type: `cybox.common.properties.String`

XML Binding class name: `LegalTrademarks`

Dictionary key name: `legaltrademarks`

originalfilename

Type: `cybox.common.properties.String`

XML Binding class name: `OriginalFilename`

Dictionary key name: `originalfilename`

privatebuild

Type: `cybox.common.properties.String`

XML Binding class name: `PrivateBuild`

Dictionary key name: `privatebuild`

productname

Type: `cybox.common.properties.String`

XML Binding class name: `ProductName`

Dictionary key name: `productname`

productversion

Type: `cybox.common.properties.String`

XML Binding class name: `ProductVersion`

Dictionary key name: `productversion`

specialbuild

Type: `cybox.common.properties.String`

XML Binding class name: `SpecialBuild`

Dictionary key name: `specialbuild`

class `cybox.objects.win_executable_file_object.WinExecutableFile`
Bases: `cybox.objects.win_file_object.WinFile`

XML binding class:

`cybox.bindings.win_executable_file_object.WindowsExecutableFileObjectType`

build_information

Type: `cybox.objects.win_executable_file_object.PEBuildInformation`

XML Binding class name: `Build_Information`

Dictionary key name: `build_information`

digital_signature

Type: `cybox.common.digitalsignature.DigitalSignature`

XML Binding class name: `Digital_Signature`

Dictionary key name: `digital_signature`

exports

Type: `cybox.objects.win_executable_file_object.PEExports`

XML Binding class name: `Exports`

Dictionary key name: `exports`

extraneous_bytes

Type: `cybox.common.properties.Integer`

XML Binding class name: `Extraneous_Bytes`

Dictionary key name: `extraneous_bytes`

headers

Type: `cybox.objects.win_executable_file_object.PEHeaders`

XML Binding class name: `Headers`

Dictionary key name: `headers`

imports

Type: `cybox.objects.win_executable_file_object.PEImportList`

XML Binding class name: `Imports`

Dictionary key name: `imports`

pe_checksum

Type: `cybox.objects.win_executable_file_object.PEChecksum`

XML Binding class name: `PE_Checksum`

Dictionary key name: `pe_checksum`

resources

Type: `cybox.objects.win_executable_file_object.PEResourceList`

XML Binding class name: Resources

Dictionary key name: resources

sections

Type: `cybox.objects.win_executable_file_object.PESectionList`

XML Binding class name: Sections

Dictionary key name: sections

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

Version: 2.1.0.11

cybox.objects.win_file_object module

class `cybox.objects.win_file_object.Stream`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_file_object.StreamObjectType`

hashes

(List of values permitted)

Type: `cybox.common.hashes.Hash`

XML Binding class name: Hash

Dictionary key name: hashes

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

size_in_bytes

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Size_In_Bytes

Dictionary key name: size_in_bytes

class `cybox.objects.win_file_object.StreamList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_file_object.StreamListType`

class `cybox.objects.win_file_object.WinFile`

Bases: `cybox.objects.file_object.File`

XML binding class: `cybox.bindings.win_file_object.WindowsFileObjectType`

drive

Type: `cybox.common.properties.String`

XML Binding class name: `Drive`

Dictionary key name: `drive`

file_attributes_list

Type: `cybox.objects.win_file_object.WindowsFileAttributes`

XML Binding class name: `File_Attributes_List`

Dictionary key name: `file_attributes_list`

filename_accessed_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Filename_Accessed_Time`

Dictionary key name: `filename_accessed_time`

filename_created_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Filename_Created_Time`

Dictionary key name: `filename_created_time`

filename_modified_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Filename_Modified_Time`

Dictionary key name: `filename_modified_time`

privilege_list

Type: `cybox.objects.win_file_object.WindowsFilePermissions`

XML Binding class name: `Permissions`

Dictionary key name: `permissions`

security_id

Type: `cybox.common.properties.String`

XML Binding class name: `Security_ID`

Dictionary key name: `security_id`

security_type

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Type`
Dictionary key name: `security_type`

stream_list

Type: `cybox.objects.win_file_object.StreamList`
XML Binding class name: `Stream_List`
Dictionary key name: `stream_list`

class `cybox.objects.win_file_object.WindowsFileAttribute` (*value=None*)
Bases: `cybox.common.properties.String`

XML binding class: `cybox.bindings.win_file_object.WindowsFileAttributeType`

class `cybox.objects.win_file_object.WindowsFileAttributes` (**args*)
Bases: `cybox.objects.file_object.FileAttribute`, `cybox.EntityList`

XML binding class: `cybox.bindings.win_file_object.WindowsFileAttributesType`

class `cybox.objects.win_file_object.WindowsFilePermissions`
Bases: `cybox.objects.file_object.FilePermissions`, `cybox.Entity`

XML binding class: `cybox.bindings.win_file_object.WindowsFilePermissionsType`

full_control

XML Binding class name: `Full_Control`
Dictionary key name: `full_control`

modify

XML Binding class name: `Modify`
Dictionary key name: `modify`

read

XML Binding class name: `Read`
Dictionary key name: `read`

read_and_execute

XML Binding class name: `Read_And_Execute`
Dictionary key name: `read_and_execute`

write

XML Binding class name: Write

Dictionary key name: write

Version: 2.1.0.11

cybox.objects.win_filemapping_object module

class cybox.objects.win_filemapping_object.**WinFilemapping**

Bases: cybox.common.object_properties.ObjectProperties

XML binding class:

cybox.bindings.win_filemapping_object.WindowsFilemappingObjectType

actual_size

Type: cybox.common.properties.UnsignedLong

XML Binding class name: Actual_Size

Dictionary key name: actual_size

file_handle

Type: cybox.objects.win_handle_object.WinHandle

XML Binding class name: File_Handle

Dictionary key name: file_handle

handle

Type: cybox.objects.win_handle_object.WinHandle

XML Binding class name: Handle

Dictionary key name: handle

maximum_size

Type: cybox.common.properties.UnsignedLong

XML Binding class name: Maximum_Size

Dictionary key name: maximum_size

name

Type: cybox.common.properties.String

XML Binding class name: Name

Dictionary key name: name

page_protection_attribute

(List of values permitted)

Type: cybox.common.properties.String

XML Binding class name: Page_Protection_Attribute

Dictionary key name: page_protection_attribute

page_protection_value

Type: `cybox.common.properties.String`
XML Binding class name: `Page_Protection_Value`
Dictionary key name: `page_protection_value`

security_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Attributes`
Dictionary key name: `security_attributes`

Version: 2.1.0.11

cybox.objects.win_handle_object module

class `cybox.objects.win_handle_object.WinHandle`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_handle_object.WindowsHandleObjectType`

access_mask

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Access_Mask`
Dictionary key name: `access_mask`

id_

Type: `cybox.common.properties.UnsignedInteger`
XML Binding class name: `ID`
Dictionary key name: `id`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

object_address

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Object_Address`
Dictionary key name: `object_address`

pointer_count

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Pointer_Count`

Dictionary key name: pointer_count

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

class `cybox.objects.win_handle_object.WinHandleList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_handle_object.WindowsHandleListType`

Version: 2.1.0.11

cybox.objects.win_hook_object module

class `cybox.objects.win_hook_object.WinHook`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_hook_object.WindowsHookObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: Handle

Dictionary key name: handle

hooking_function_name

Type: `cybox.common.properties.String`

XML Binding class name: Hooking_Function_Name

Dictionary key name: hooking_function_name

hooking_module

Type: `cybox.objects.library_object.Library`

XML Binding class name: Hooking_Module

Dictionary key name: hooking_module

thread_id

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Thread_ID

Dictionary key name: thread_id

type_

Type: `cybox.common.properties.String`
XML Binding class name: `Type`
Dictionary key name: `type`

Version: 2.1.0.11

`cybox.objects.win_kernel_hook_object` module

class `cybox.objects.win_kernel_hook_object.WinKernelHook`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:
`cybox.bindings.win_kernel_hook_object.WindowsKernelHookObjectType`

`digital_signature_hooked`

Type: `cybox.common.digitalsignature.DigitalSignature`
XML Binding class name: `Digital_Signature_Hooked`
Dictionary key name: `digital_signature_hooked`

`digital_signature_hooking`

Type: `cybox.common.digitalsignature.DigitalSignature`
XML Binding class name: `Digital_Signature_Hooking`
Dictionary key name: `digital_signature_hooking`

`hook_description`

Type: `cybox.common.properties.String`
XML Binding class name: `Hook_Description`
Dictionary key name: `hook_description`

`hooked_function`

Type: `cybox.common.properties.String`
XML Binding class name: `Hooked_Function`
Dictionary key name: `hooked_function`

`hooked_module`

Type: `cybox.common.properties.String`
XML Binding class name: `Hooked_Module`
Dictionary key name: `hooked_module`

`hooking_address`

Type: `cybox.common.properties.UnsignedLong`
XML Binding class name: `Hooking_Address`
Dictionary key name: `hooking_address`

hooking_module

Type: `cybox.common.properties.String`

XML Binding class name: `Hooking_Module`

Dictionary key name: `hooking_module`

type_

Type: `cybox.common.properties.String`

XML Binding class name: `Type`

Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_kernel_object module

class `cybox.objects.win_kernel_object.IDTEntry`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_kernel_object.IDTEntryType`

offset_high

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Offset_High`

Dictionary key name: `offset_high`

offset_low

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Offset_Low`

Dictionary key name: `offset_low`

offset_middle

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Offset_Middle`

Dictionary key name: `offset_middle`

selector

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Selector`

Dictionary key name: `selector`

type_attr

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Type_Attr`

Dictionary key name: `type_attr`

class `cybox.objects.win_kernel_object.IDTEntryList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_kernel_object.IDTEntryListType`

class `cybox.objects.win_kernel_object.SSDTEntry`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_kernel_object.SSDTEntryType`

argument_table_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Argument_Table_Base`

Dictionary key name: `argument_table_base`

hooked

XML Binding class name: `hooked`

Dictionary key name: `hooked`

number_of_services

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Number_Of_Services`

Dictionary key name: `number_of_services`

service_counter_table_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Service_Counter_Table_Base`

Dictionary key name: `service_counter_table_base`

service_table_base

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Service_Table_Base`

Dictionary key name: `service_table_base`

class `cybox.objects.win_kernel_object.SSDTEntryList` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_kernel_object.SSDTEntryListType`

class `cybox.objects.win_kernel_object.WinKernel`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_kernel_object.WindowsKernelObjectType`

idt

Type: `cybox.objects.win_kernel_object.IDTEntryList`
XML Binding class name: IDT
Dictionary key name: idt

ssdt

Type: `cybox.objects.win_kernel_object.SSDTEntryList`
XML Binding class name: SSDT
Dictionary key name: ssdt

Version: 2.1.0.11

cybox.objects.win_mailslot_object module

class `cybox.objects.win_mailslot_object.WinMailslot`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_mailslot_object.WindowsMailslotObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`
XML Binding class name: Handle
Dictionary key name: handle

max_message_size

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: Max_Message_Size
Dictionary key name: max_message_size

name

Type: `cybox.common.properties.String`
XML Binding class name: Name
Dictionary key name: name

read_timeout

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Read_Timeout

Dictionary key name: read_timeout

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: Security_Attributes

Dictionary key name: security_attributes

Version: 2.1.0.11

cybox.objects.win_memory_page_region_object module

class `cybox.objects.win_memory_page_region_object.WinMemoryPageRegion`

Bases: `cybox.objects.memory_object.Memory`

XML binding class:

`cybox.bindings.win_memory_page_region_object.WindowsMemoryPageRegionObjectType`

allocation_base_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: Allocation_Base_Address

Dictionary key name: allocation_base_address

allocation_protect

Type: `cybox.common.properties.String`

XML Binding class name: Allocation_Protect

Dictionary key name: allocation_protect

block_type

Type: `cybox.common.properties.String`

XML Binding class name: Block_Type

Dictionary key name: block_type

extracted_features

Type: `cybox.common.extracted_features.ExtractedFeatures`

XML Binding class name: Extracted_Features

Dictionary key name: extracted_features

hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: Hashes

Dictionary key name: hashes

is_injected

XML Binding class name: `is_injected`

Dictionary key name: `is_injected`

is_mapped

XML Binding class name: `is_mapped`

Dictionary key name: `is_mapped`

is_protected

XML Binding class name: `is_protected`

Dictionary key name: `is_protected`

is_volatile

XML Binding class name: `is_volatile`

Dictionary key name: `is_volatile`

memory_source

Type: `cybox.common.properties.String`

XML Binding class name: `Memory_Source`

Dictionary key name: `memory_source`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

protect

Type: `cybox.common.properties.String`

XML Binding class name: `Protect`

Dictionary key name: `protect`

region_end_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Region_End_Address`

Dictionary key name: `region_end_address`

region_size

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: `Region_Size`

Dictionary key name: `region_size`

region_start_address

Type: `cybox.common.properties.HexBinary`
XML Binding class name: `Region_Start_Address`
Dictionary key name: `region_start_address`

state

Type: `cybox.common.properties.String`
XML Binding class name: `State`
Dictionary key name: `state`

type_

Type: `cybox.common.properties.String`
XML Binding class name: `Type`
Dictionary key name: `type`

Version: 2.1.0.11

cybox.objects.win_mutex_object module

class `cybox.objects.win_mutex_object.WinMutex`
Bases: `cybox.objects.mutex_object.Mutex`

XML binding class: `cybox.bindings.win_mutex_object.WindowsMutexObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`
XML Binding class name: `Handle`
Dictionary key name: `handle`

security_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Attributes`
Dictionary key name: `security_attributes`

Version: 2.1.0.11

cybox.objects.win_network_route_entry_object module

class `cybox.objects.win_network_route_entry_object.WinNetworkRouteEntry`
Bases: `cybox.objects.network_route_entry_object.NetworkRouteEntry`

XML binding class:
`cybox.bindings.win_network_route_entry_object.WindowsNetworkRouteEntryObjectType`

nl_route_origin

Type: `cybox.common.properties.String`

XML Binding class name: `NL_ROUTE_ORIGIN`

Dictionary key name: `nl_route_origin`

nl_route_protocol

Type: `cybox.common.properties.String`

XML Binding class name: `NL_ROUTE_PROTOCOL`

Dictionary key name: `nl_route_protocol`

Version: 2.1.0.11

cybox.objects.win_network_share_object module

class `cybox.objects.win_network_share_object.WinNetworkShare`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_network_share_object.WindowsNetworkShareObjectType`

access_all

XML Binding class name: `ACCESS_ALL`

Dictionary key name: `access_all`

access_atrib

XML Binding class name: `ACCESS_ATRIB`

Dictionary key name: `access_atrib`

access_create

XML Binding class name: `ACCESS_CREATE`

Dictionary key name: `access_create`

access_delete

XML Binding class name: `ACCESS_DELETE`

Dictionary key name: `access_delete`

access_exec

XML Binding class name: `ACCESS_EXEC`

Dictionary key name: `access_exec`

access_perm

XML Binding class name: ACCESS_PERM

Dictionary key name: access_perm

access_read

XML Binding class name: ACCESS_READ

Dictionary key name: access_read

access_write

XML Binding class name: ACCESS_WRITE

Dictionary key name: access_write

current_uses

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Current_Uses

Dictionary key name: current_uses

local_path

Type: `cybox.common.properties.String`

XML Binding class name: Local_Path

Dictionary key name: local_path

max_uses

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: Max_Uses

Dictionary key name: max_uses

netname

Type: `cybox.common.properties.String`

XML Binding class name: Netname

Dictionary key name: netname

type

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

Version: 2.1.0.11

cybox.objects.win_pipe_object module

class `cybox.objects.win_pipe_object.WinPipe`

Bases: `cybox.objects.pipe_object.Pipe`

XML binding class: `cybox.bindings.win_pipe_object.WindowsPipeObjectType`

default_time_out

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Default_Time_Out`

Dictionary key name: `default_time_out`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: `handle`

in_buffer_size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `In_Buffer_Size`

Dictionary key name: `in_buffer_size`

max_instances

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Max_Instances`

Dictionary key name: `max_instances`

open_mode

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Open_Mode`

Dictionary key name: `open_mode`

out_buffer_size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Out_Buffer_Size`

Dictionary key name: `out_buffer_size`

pipe_mode

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Pipe_Mode`

Dictionary key name: `pipe_mode`

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Attributes`

Dictionary key name: `security_attributes`

Version: 2.1.0.11

cybox.objects.win_prefetch_object module

class cybox.objects.win_prefetch_object.**AccessedDirectoryList** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.win_prefetch_object.AccessedDirectoryListType

class cybox.objects.win_prefetch_object.**AccessedFileList** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.win_prefetch_object.AccessedFileListType

class cybox.objects.win_prefetch_object.**Volume** (*args)
Bases: cybox.EntityList

XML binding class: cybox.bindings.win_prefetch_object.VolumeType

deviceitem

Type: cybox.objects.device_object.Device
XML Binding class name: DeviceItem
Dictionary key name: deviceitem

volumeitem

Type: cybox.objects.win_volume_object.WinVolume
XML Binding class name: VolumeItem
Dictionary key name: volumeitem

class cybox.objects.win_prefetch_object.**WinPrefetch**
Bases: cybox.common.object_properties.ObjectProperties

XML binding class: cybox.bindings.win_prefetch_object.WindowsPrefetchObjectType

accessed_directory_list

Type: cybox.objects.win_prefetch_object.AccessedDirectoryList
XML Binding class name: Accessed_Directory_List
Dictionary key name: accessed_directory_list

accessed_file_list

Type: cybox.objects.win_prefetch_object.AccessedFileList
XML Binding class name: Accessed_File_List

Dictionary key name: `accessed_file_list`

application_file_name

Type: `cybox.common.properties.String`
 XML Binding class name: `Application_File_Name`
 Dictionary key name: `application_file_name`

first_run

Type: `cybox.common.properties.DateTime`
 XML Binding class name: `First_Run`
 Dictionary key name: `first_run`

last_run

Type: `cybox.common.properties.DateTime`
 XML Binding class name: `Last_Run`
 Dictionary key name: `last_run`

prefetch_hash

Type: `cybox.common.properties.String`
 XML Binding class name: `Prefetch_Hash`
 Dictionary key name: `prefetch_hash`

times_executed

Type: `cybox.common.properties.Long`
 XML Binding class name: `Times_Executed`
 Dictionary key name: `times_executed`

volume

Type: `cybox.objects.win_volume_object.WinVolume`
 XML Binding class name: `Volume`
 Dictionary key name: `volume`

Version: 2.1.0.11

cybox.objects.win_process_object module

class `cybox.objects.win_process_object.MemorySectionList` (*args)
 Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_process_object.MemorySectionListType`

class `cybox.objects.win_process_object.StartupInfo`
 Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_process_object.StartupInfoType`

dwfillattribute

Type: `cybox.common.properties.Integer`

XML Binding class name: `dwFillAttribute`

Dictionary key name: `dwfillattribute`

dwflags

Type: `cybox.common.properties.Integer`

XML Binding class name: `dwFlags`

Dictionary key name: `dwflags`

dwx

Type: `cybox.common.properties.Integer`

XML Binding class name: `dwX`

Dictionary key name: `dwx`

dwxcntchars

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwXCountChars`

Dictionary key name: `dwxcntchars`

dwxsize

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwXSize`

Dictionary key name: `dwxsize`

dwy

Type: `cybox.common.properties.Integer`

XML Binding class name: `dwY`

Dictionary key name: `dwy`

dwycntchars

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwYCountChars`

Dictionary key name: `dwycntchars`

dwysize

Type: `cybox.common.properties.PositiveInteger`

XML Binding class name: `dwYSize`

Dictionary key name: `dwysize`

hstderror

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `hStdError`

Dictionary key name: `hstderror`

hstdinput

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `hStdInput`

Dictionary key name: `hstdinput`

hstdoutput

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `hStdOutput`

Dictionary key name: `hstdoutput`

lpdesktop

Type: `cybox.common.properties.String`

XML Binding class name: `lpDesktop`

Dictionary key name: `lpdesktop`

lptitle

Type: `cybox.common.properties.String`

XML Binding class name: `lpTitle`

Dictionary key name: `lptitle`

wshowwindow

Type: `cybox.common.properties.Integer`

XML Binding class name: `wShowWindow`

Dictionary key name: `wshowwindow`

class `cybox.objects.win_process_object.WinProcess`

Bases: `cybox.objects.process_object.Process`

XML binding class: `cybox.bindings.win_process_object.WindowsProcessObjectType`

aslr_enabled

XML Binding class name: `aslr_enabled`

Dictionary key name: `aslr_enabled`

dep_enabled

XML Binding class name: `dep_enabled`

Dictionary key name: dep_enabled

handle_list

Type: `cybox.objects.win_handle_object.WinHandleList`

XML Binding class name: Handle_List

Dictionary key name: handle_list

priority

Type: `cybox.common.properties.String`

XML Binding class name: Priority

Dictionary key name: priority

section_list

Type: `cybox.objects.win_process_object.MemorySectionList`

XML Binding class name: Section_List

Dictionary key name: section_list

security_id

Type: `cybox.common.properties.String`

XML Binding class name: Security_ID

Dictionary key name: security_id

security_type

Type: `cybox.common.properties.String`

XML Binding class name: Security_Type

Dictionary key name: security_type

startup_info

Type: `cybox.objects.win_process_object.StartupInfo`

XML Binding class name: Startup_Info

Dictionary key name: startup_info

thread

(List of values permitted)

Type: `cybox.objects.win_thread_object.WinThread`

XML Binding class name: Thread

Dictionary key name: thread

window_title

Type: `cybox.common.properties.String`

XML Binding class name: Window_Title

Dictionary key name: window_title

Version: 2.1.0.11

cybox.objects.win_registry_key_object module

class `cybox.objects.win_registry_key_object.RegistrySubkeys` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_registry_key_object.RegistrySubkeysType`

class `cybox.objects.win_registry_key_object.RegistryValue`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_registry_key_object.RegistryValueType`

byte_runs

Type: `cybox.common.byterun.ByteRuns`
XML Binding class name: `Byte_Runs`
Dictionary key name: `byte_runs`

data

Type: `cybox.common.properties.String`
XML Binding class name: `Data`
Dictionary key name: `data`

datatype

Type: `cybox.common.properties.String`
XML Binding class name: `Datatype`
Dictionary key name: `datatype`

name

Type: `cybox.common.properties.String`
XML Binding class name: `Name`
Dictionary key name: `name`

class `cybox.objects.win_registry_key_object.RegistryValues` (*args)
Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_registry_key_object.RegistryValuesType`

class `cybox.objects.win_registry_key_object.WinRegistryKey`
Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:
`cybox.bindings.win_registry_key_object.WindowsRegistryKeyObjectType`

byte_runs

Type: `cybox.common.byterun.ByteRuns`

XML Binding class name: `Byte_Runs`

Dictionary key name: `byte_runs`

creator_username

Type: `cybox.common.properties.String`

XML Binding class name: `Creator_Username`

Dictionary key name: `creator_username`

handle_list

Type: `cybox.objects.win_handle_object.WinHandleList`

XML Binding class name: `Handle_List`

Dictionary key name: `handle_list`

hive

Type: `cybox.common.properties.String`

XML Binding class name: `Hive`

Dictionary key name: `hive`

key

Type: `cybox.common.properties.String`

XML Binding class name: `Key`

Dictionary key name: `key`

modified_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Modified_Time`

Dictionary key name: `modified_time`

number_subkeys

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Number_Subkeys`

Dictionary key name: `number_subkeys`

number_values

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Number_Values`

Dictionary key name: `number_values`

subkeys

Type: `cybox.objects.win_registry_key_object.RegistrySubkeys`

XML Binding class name: Subkeys

Dictionary key name: subkeys

values

Type: `cybox.objects.win_registry_key_object.RegistryValues`

XML Binding class name: Values

Dictionary key name: values

Version: 2.1.0.11

cybox.objects.win_semaphore_object module

class `cybox.objects.win_semaphore_object.WinSemaphore`

Bases: `cybox.objects.semaphore_object.Semaphore`

XML binding class:

`cybox.bindings.win_semaphore_object.WindowsSemaphoreObjectType`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: Handle

Dictionary key name: handle

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: Security_Attributes

Dictionary key name: security_attributes

Version: 2.1.0.11

cybox.objects.win_service_object module

class `cybox.objects.win_service_object.ServiceDescriptionList (*args)`

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_service_object.ServiceDescriptionListType`

class `cybox.objects.win_service_object.WinService`

Bases: `cybox.objects.win_process_object.WinProcess`

XML binding class: `cybox.bindings.win_service_object.WindowsServiceObjectType`

description_list

Type: `cybox.objects.win_service_object.ServiceDescriptionList`

XML Binding class name: `Description_List`

Dictionary key name: `description_list`

display_name

Type: `cybox.common.properties.String`

XML Binding class name: `Display_Name`

Dictionary key name: `display_name`

group_name

Type: `cybox.common.properties.String`

XML Binding class name: `Group_Name`

Dictionary key name: `group_name`

service_dll

Type: `cybox.common.properties.String`

XML Binding class name: `Service_DLL`

Dictionary key name: `service_dll`

service_dll_certificate_issuer

Type: `cybox.common.properties.String`

XML Binding class name: `Service_DLL_Certificate_Issuer`

Dictionary key name: `service_dll_certificate_issuer`

service_dll_certificate_subject

Type: `cybox.common.properties.String`

XML Binding class name: `Service_DLL_Certificate_Subject`

Dictionary key name: `service_dll_certificate_subject`

service_dll_hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Service_DLL_Hashes`

Dictionary key name: `service_dll_hashes`

service_dll_signature_description

Type: `cybox.common.properties.String`

XML Binding class name: `Service_DLL_Signature_Description`

Dictionary key name: `service_dll_signature_description`

service_dll_signature_exists

XML Binding class name: `service_dll_signature_exists`

Dictionary key name: `service_dll_signature_exists`

service_dll_signature_verified

XML Binding class name: `service_dll_signature_verified`

Dictionary key name: `service_dll_signature_verified`

service_name

Type: `cybox.common.properties.String`

XML Binding class name: `Service_Name`

Dictionary key name: `service_name`

service_status

Type: `cybox.common.properties.String`

XML Binding class name: `Service_Status`

Dictionary key name: `service_status`

service_type

Type: `cybox.common.properties.String`

XML Binding class name: `Service_Type`

Dictionary key name: `service_type`

started_as

Type: `cybox.common.properties.String`

XML Binding class name: `Started_As`

Dictionary key name: `started_as`

startup_command_line

Type: `cybox.common.properties.String`

XML Binding class name: `Startup_Command_Line`

Dictionary key name: `startup_command_line`

startup_type

Type: `cybox.common.properties.String`

XML Binding class name: `Startup_Type`

Dictionary key name: `startup_type`

Version: 2.1.0.11

cybox.objects.win_system_object module

class `cybox.objects.win_system_object.GlobalFlag`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_system_object.GlobalFlagType`

abbreviation

Type: `cybox.common.properties.String`

XML Binding class name: `Abbreviation`

Dictionary key name: `abbreviation`

destination

Type: `cybox.common.properties.String`

XML Binding class name: `Destination`

Dictionary key name: `destination`

hexadecimal_value

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Hexadecimal_Value`

Dictionary key name: `hexadecimal_value`

symbolic_name

Type: `cybox.common.properties.String`

XML Binding class name: `Symbolic_Name`

Dictionary key name: `symbolic_name`

class `cybox.objects.win_system_object.GlobalFlagList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_system_object.GlobalFlagListType`

class `cybox.objects.win_system_object.WinSystem`

Bases: `cybox.objects.system_object.System`

XML binding class: `cybox.bindings.win_system_object.WindowsSystemObjectType`

domain

(List of values permitted)

Type: `cybox.common.properties.String`

XML Binding class name: `Domain`

Dictionary key name: `domain`

global_flag_list

Type: `cybox.objects.win_system_object.GlobalFlagList`

XML Binding class name: `Global_Flag_List`

Dictionary key name: `global_flag_list`

netbios_name

Type: `cybox.common.properties.String`

XML Binding class name: `NetBIOS_Name`

Dictionary key name: `netbios_name`

open_handle_list

Type: `cybox.objects.win_handle_object.WinHandleList`

XML Binding class name: `Open_Handle_List`

Dictionary key name: `open_handle_list`

product_id

Type: `cybox.common.properties.String`

XML Binding class name: `Product_ID`

Dictionary key name: `product_id`

product_name

Type: `cybox.common.properties.String`

XML Binding class name: `Product_Name`

Dictionary key name: `product_name`

registered_organization

Type: `cybox.common.properties.String`

XML Binding class name: `Registered_Organization`

Dictionary key name: `registered_organization`

registered_owner

Type: `cybox.common.properties.String`

XML Binding class name: `Registered_Owner`

Dictionary key name: `registered_owner`

windows_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Windows_Directory`

Dictionary key name: `windows_directory`

windows_system_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Windows_System_Directory`

Dictionary key name: `windows_system_directory`

windows_temp_directory

Type: `cybox.common.properties.String`

XML Binding class name: Windows_Temp_Directory

Dictionary key name: windows_temp_directory

Version: 2.1.0.11

cybox.objects.win_system_restore_object module

class cybox.objects.win_system_restore_object.**HiveList** (*args)

Bases: cybox.EntityList

XML binding class: cybox.bindings.win_system_restore_object.HiveListType

class cybox.objects.win_system_restore_object.**WinSystemRestore**

Bases: cybox.common.object_properties.ObjectProperties

XML binding class:

cybox.bindings.win_system_restore_object.WindowsSystemRestoreObjectType

acl_change_sid

Type: cybox.common.properties.String

XML Binding class name: ACL_Change_SID

Dictionary key name: acl_change_sid

acl_change_username

Type: cybox.common.properties.String

XML Binding class name: ACL_Change_Username

Dictionary key name: acl_change_username

backup_file_name

Type: cybox.common.properties.String

XML Binding class name: Backup_File_Name

Dictionary key name: backup_file_name

change_event

Type: cybox.common.properties.String

XML Binding class name: Change_Event

Dictionary key name: change_event

changelog_entry_flags

Type: cybox.common.properties.String

XML Binding class name: ChangeLog_Entry_Flags

Dictionary key name: changelog_entry_flags

changelog_entry_sequence_number

Type: `cybox.common.properties.Long`
XML Binding class name: `ChangeLog_Entry_Sequence_Number`
Dictionary key name: `changelog_entry_sequence_number`

changelog_entry_type

Type: `cybox.common.properties.String`
XML Binding class name: `ChangeLog_Entry_Type`
Dictionary key name: `changelog_entry_type`

created

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Created`
Dictionary key name: `created`

file_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `File_Attributes`
Dictionary key name: `file_attributes`

new_file_name

Type: `cybox.common.properties.String`
XML Binding class name: `New_File_Name`
Dictionary key name: `new_file_name`

original_file_name

Type: `cybox.common.properties.String`
XML Binding class name: `Original_File_Name`
Dictionary key name: `original_file_name`

original_short_file_name

Type: `cybox.common.properties.String`
XML Binding class name: `Original_Short_File_Name`
Dictionary key name: `original_short_file_name`

process_name

Type: `cybox.common.properties.String`
XML Binding class name: `Process_Name`
Dictionary key name: `process_name`

registry_hive_list

Type: `cybox.objects.win_system_restore_object.HiveList`

XML Binding class name: Registry_Hive_List

Dictionary key name: registry_hive_list

restore_point_description

Type: `cybox.common.properties.String`

XML Binding class name: Restore_Point_Description

Dictionary key name: restore_point_description

restore_point_full_path

Type: `cybox.common.properties.String`

XML Binding class name: Restore_Point_Full_Path

Dictionary key name: restore_point_full_path

restore_point_name

Type: `cybox.common.properties.String`

XML Binding class name: Restore_Point_Name

Dictionary key name: restore_point_name

restore_point_type

Type: `cybox.common.properties.String`

XML Binding class name: Restore_Point_Type

Dictionary key name: restore_point_type

Version: 2.1.0.11

cybox.objects.win_task_object module

class `cybox.objects.win_task_object.IComHandlerAction`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.IComHandlerActionType`

com_class_id

Type: `cybox.common.properties.String`

XML Binding class name: COM_Class_ID

Dictionary key name: com_class_id

com_data

Type: `cybox.common.properties.String`

XML Binding class name: COM_Data

Dictionary key name: com_data

class `cybox.objects.win_task_object.IExecAction`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.IExecActionType`

exec_arguments

Type: `cybox.common.properties.String`

XML Binding class name: `Exec_Arguments`

Dictionary key name: `exec_arguments`

exec_program_hashes

Type: `cybox.common.hashes.HashList`

XML Binding class name: `Exec_Program_Hashes`

Dictionary key name: `exec_program_hashes`

exec_program_path

Type: `cybox.common.properties.String`

XML Binding class name: `Exec_Program_Path`

Dictionary key name: `exec_program_path`

exec_working_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Exec_Working_Directory`

Dictionary key name: `exec_working_directory`

class `cybox.objects.win_task_object.IShowMessageAction`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.IShowMessageType`

show_message_body

Type: `cybox.common.properties.String`

XML Binding class name: `Show_Message_Body`

Dictionary key name: `show_message_body`

show_message_title

Type: `cybox.common.properties.String`

XML Binding class name: `Show_Message_Title`

Dictionary key name: `show_message_title`

class `cybox.objects.win_task_object.TaskAction`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.TaskActionType`

action_id

Type: `cybox.common.properties.String`

XML Binding class name: `Action_ID`

Dictionary key name: `action_id`

action_type

Type: `cybox.common.properties.String`

XML Binding class name: `Action_Type`

Dictionary key name: `action_type`

icomhandleraction

Type: `cybox.objects.win_task_object.IComHandlerAction`

XML Binding class name: `IComHandlerAction`

Dictionary key name: `icomhandleraction`

iemailaction

Type: `cybox.objects.email_message_object.EmailMessage`

XML Binding class name: `IEmailAction`

Dictionary key name: `iemailaction`

iexecaction

Type: `cybox.objects.win_task_object.IExecAction`

XML Binding class name: `IExecAction`

Dictionary key name: `iexecaction`

ishowmessageaction

Type: `cybox.objects.win_task_object.IShowMessageAction`

XML Binding class name: `IShowMessageAction`

Dictionary key name: `ishowmessageaction`

class `cybox.objects.win_task_object.TaskActionList` (*args)

Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_task_object.TaskActionListType`

class `cybox.objects.win_task_object.Trigger`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_task_object.TriggerType`

trigger_begin

Type: `cybox.common.properties.DateTime`
 XML Binding class name: `Trigger_Begin`
 Dictionary key name: `trigger_begin`

trigger_delay

Type: `cybox.common.properties.Duration`
 XML Binding class name: `Trigger_Delay`
 Dictionary key name: `trigger_delay`

trigger_end

Type: `cybox.common.properties.DateTime`
 XML Binding class name: `Trigger_End`
 Dictionary key name: `trigger_end`

trigger_frequency

Type: `cybox.common.properties.String`
 XML Binding class name: `Trigger_Frequency`
 Dictionary key name: `trigger_frequency`

trigger_max_run_time

Type: `cybox.common.properties.Duration`
 XML Binding class name: `Trigger_Max_Run_Time`
 Dictionary key name: `trigger_max_run_time`

trigger_session_change_type

Type: `cybox.common.properties.String`
 XML Binding class name: `Trigger_Session_Change_Type`
 Dictionary key name: `trigger_session_change_type`

trigger_type

Type: `cybox.common.properties.String`
 XML Binding class name: `Trigger_Type`
 Dictionary key name: `trigger_type`

class `cybox.objects.win_task_object.TriggerList` (*args)
 Bases: `cybox.EntityList`

XML binding class: `cybox.bindings.win_task_object.TriggerListType`

class `cybox.objects.win_task_object.WinTask`
 Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_task_object.WindowsTaskObjectType`

account_logon_type

Type: `cybox.common.properties.String`
XML Binding class name: `Account_Logon_Type`
Dictionary key name: `account_logon_type`

account_name

Type: `cybox.common.properties.String`
XML Binding class name: `Account_Name`
Dictionary key name: `account_name`

account_run_level

Type: `cybox.common.properties.String`
XML Binding class name: `Account_Run_Level`
Dictionary key name: `account_run_level`

action_list

Type: `cybox.objects.win_task_object.TaskActionList`
XML Binding class name: `Action_List`
Dictionary key name: `action_list`

application_name

Type: `cybox.common.properties.String`
XML Binding class name: `Application_Name`
Dictionary key name: `application_name`

comment

Type: `cybox.common.properties.String`
XML Binding class name: `Comment`
Dictionary key name: `comment`

creation_date

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Creation_Date`
Dictionary key name: `creation_date`

creator

Type: `cybox.common.properties.String`
XML Binding class name: `Creator`
Dictionary key name: `creator`

exit_code

Type: `cybox.common.properties.Long`

XML Binding class name: Exit_Code

Dictionary key name: exit_code

flags

Type: `cybox.common.properties.String`

XML Binding class name: Flags

Dictionary key name: flags

max_run_time

Type: `cybox.common.properties.UnsignedLong`

XML Binding class name: Max_Run_Time

Dictionary key name: max_run_time

most_recent_run_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Most_Recent_Run_Time

Dictionary key name: most_recent_run_time

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

next_run_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: Next_Run_Time

Dictionary key name: next_run_time

parameters

Type: `cybox.common.properties.String`

XML Binding class name: Parameters

Dictionary key name: parameters

priority

Type: `cybox.common.properties.String`

XML Binding class name: Priority

Dictionary key name: priority

status

Type: `cybox.common.properties.String`

XML Binding class name: Status

Dictionary key name: status

trigger_list

Type: `cybox.objects.win_task_object.TriggerList`

XML Binding class name: `Trigger_List`

Dictionary key name: `trigger_list`

work_item_data

Type: `cybox.common.properties.Base64Binary`

XML Binding class name: `Work_Item_Data`

Dictionary key name: `work_item_data`

working_directory

Type: `cybox.common.properties.String`

XML Binding class name: `Working_Directory`

Dictionary key name: `working_directory`

Version: 2.1.0.11

cybox.objects.win_thread_object module

class `cybox.objects.win_thread_object.WinThread`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class: `cybox.bindings.win_thread_object.WindowsThreadObjectType`

context

Type: `cybox.common.properties.String`

XML Binding class name: `Context`

Dictionary key name: `context`

creation_flags

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Creation_Flags`

Dictionary key name: `creation_flags`

creation_time

Type: `cybox.common.properties.DateTime`

XML Binding class name: `Creation_Time`

Dictionary key name: `creation_time`

handle

Type: `cybox.objects.win_handle_object.WinHandle`

XML Binding class name: `Handle`

Dictionary key name: handle

parameter_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Parameter_Address`

Dictionary key name: `parameter_address`

priority

Type: `cybox.common.properties.UnsignedInteger`

XML Binding class name: `Priority`

Dictionary key name: `priority`

running_status

Type: `cybox.common.properties.String`

XML Binding class name: `Running_Status`

Dictionary key name: `running_status`

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: `Security_Attributes`

Dictionary key name: `security_attributes`

stack_size

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Stack_Size`

Dictionary key name: `stack_size`

start_address

Type: `cybox.common.properties.HexBinary`

XML Binding class name: `Start_Address`

Dictionary key name: `start_address`

thread_id

Type: `cybox.common.properties.NonNegativeInteger`

XML Binding class name: `Thread_ID`

Dictionary key name: `thread_id`

Version: 2.1.0.11

cybox.objects.win_user_object module

class `cybox.objects.win_user_object.WinGroup`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_user_account_object.WindowsGroupType`

name

Type: `cybox.common.properties.String`

XML Binding class name: `Name`

Dictionary key name: `name`

class `cybox.objects.win_user_object.WinGroupList` (*args)
Bases: `cybox.objects.user_account_object.GroupList`

XML binding class: `cybox.bindings.user_account_object.GroupListType`

class `cybox.objects.win_user_object.WinPrivilege`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.win_user_account_object.WindowsPrivilegeType`

user_right

Type: `cybox.common.properties.String`

XML Binding class name: `User_Right`

Dictionary key name: `user_right`

class `cybox.objects.win_user_object.WinPrivilegeList` (*args)
Bases: `cybox.objects.user_account_object.PrivilegeList`

XML binding class: `cybox.bindings.user_account_object.PrivilegeListType`

class `cybox.objects.win_user_object.WinUser`
Bases: `cybox.objects.user_account_object.UserAccount`

XML binding class:
`cybox.bindings.win_user_account_object.WindowsUserAccountObjectType`

group_list

Type: `cybox.objects.win_user_object.WinGroupList`

XML Binding class name: `Group_List`

Dictionary key name: `group_list`

privilege_list

Type: `cybox.objects.win_user_object.WinPrivilegeList`
XML Binding class name: `Privilege_List`
Dictionary key name: `privilege_list`

security_id

Type: `cybox.common.properties.String`
XML Binding class name: `Security_ID`
Dictionary key name: `security_id`

security_type

Type: `cybox.common.properties.String`
XML Binding class name: `Security_Type`
Dictionary key name: `security_type`

Version: 2.1.0.11

cybox.objects.win_volume_object module

class `cybox.objects.win_volume_object.WinVolume`
Bases: `cybox.objects.volume_object.Volume`

XML binding class: `cybox.bindings.win_volume_object.WindowsVolumeObjectType`

attributes_list

Type: `cybox.objects.win_volume_object.WindowsVolumeAttributesList`
XML Binding class name: `Attributes_List`
Dictionary key name: `attributes_list`

drive_Type

Type: `cybox.common.properties.String`
XML Binding class name: `Drive_Type`
Dictionary key name: `drive_type`

drive_letter

Type: `cybox.common.properties.String`
XML Binding class name: `Drive_Letter`
Dictionary key name: `drive_letter`

class `cybox.objects.win_volume_object.WindowsVolumeAttributesList (*args)`
Bases: `cybox.EntityList`

XML binding class:
`cybox.bindings.win_volume_object.WindowsVolumeAttributesListType`

Version: 2.1.0.11

`cybox.objects.win_waitable_timer_object` module

class `cybox.objects.win_waitable_timer_object.WinWaitableTimer`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.win_waitable_timer_object.WindowsWaitableTimerObjectType`

name

Type: `cybox.common.properties.String`

XML Binding class name: Name

Dictionary key name: name

security_attributes

Type: `cybox.common.properties.String`

XML Binding class name: Security_Attributes

Dictionary key name: security_attributes

type_

Type: `cybox.common.properties.String`

XML Binding class name: Type

Dictionary key name: type

Version: 2.1.0.11

`cybox.objects.x509_certificate_object` module

class `cybox.objects.x509_certificate_object.RSAPublicKey`

Bases: `cybox.Entity`

XML binding class: `cybox.bindings.x509_certificate_object.RSAPublicKeyType`

exponent

Type: `cybox.common.properties.Integer`

XML Binding class name: Exponent

Dictionary key name: exponent

modulus

Type: `cybox.common.properties.String`

XML Binding class name: Modulus

Dictionary key name: modulus

class `cybox.objects.x509_certificate_object.SubjectPublicKey`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.x509_certificate_object.SubjectPublicKeyType`

public_key_algorithm

Type: `cybox.common.properties.String`
XML Binding class name: `Public_Key_Algorithm`
Dictionary key name: `public_key_algorithm`

rsa_public_key

Type: `cybox.objects.x509_certificate_object.RSAPublicKey`
XML Binding class name: `RSA_Public_Key`
Dictionary key name: `rsa_public_key`

class `cybox.objects.x509_certificate_object.Validity`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.x509_certificate_object.ValidityType`

not_after

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Not_After`
Dictionary key name: `not_after`

not_before

Type: `cybox.common.properties.DateTime`
XML Binding class name: `Not_Before`
Dictionary key name: `not_before`

class `cybox.objects.x509_certificate_object.X509Cert`
Bases: `cybox.Entity`

XML binding class:
`cybox.bindings.x509_certificate_object.X509CertificateContentsType`

issuer

Type: `cybox.common.properties.String`
XML Binding class name: `Issuer`

Dictionary key name: issuer

non_standard_extensions

Type: `cybox.objects.x509_certificate_object.X509NonStandardExtensions`

XML Binding class name: `Non_Standard_Extensions`

Dictionary key name: `non_standard_extensions`

serial_number

Type: `cybox.common.properties.String`

XML Binding class name: `Serial_Number`

Dictionary key name: `serial_number`

signature_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: `Signature_Algorithm`

Dictionary key name: `signature_algorithm`

standard_extensions

Type: `cybox.objects.x509_certificate_object.X509V3Extensions`

XML Binding class name: `Standard_Extensions`

Dictionary key name: `standard_extensions`

subject

Type: `cybox.common.properties.String`

XML Binding class name: `Subject`

Dictionary key name: `subject`

subject_public_key

Type: `cybox.objects.x509_certificate_object.SubjectPublicKey`

XML Binding class name: `Subject_Public_Key`

Dictionary key name: `subject_public_key`

validity

Type: `cybox.objects.x509_certificate_object.Validity`

XML Binding class name: `Validity`

Dictionary key name: `validity`

version

Type: `cybox.common.properties.Integer`

XML Binding class name: `Version`

Dictionary key name: `version`

class `cybox.objects.x509_certificate_object.X509Certificate`

Bases: `cybox.common.object_properties.ObjectProperties`

XML binding class:

`cybox.bindings.x509_certificate_object.X509CertificateObjectType`

certificate

Type: `cybox.objects.x509_certificate_object.X509Cert`

XML Binding class name: `Certificate`

Dictionary key name: `certificate`

certificate_signature

Type: `cybox.objects.x509_certificate_object.X509CertificateSignature`

XML Binding class name: `Certificate_Signature`

Dictionary key name: `certificate_signature`

raw_certificate

Type: `cybox.common.properties.String`

XML Binding class name: `Raw_Certificate`

Dictionary key name: `raw_certificate`

class `cybox.objects.x509_certificate_object.X509CertificateSignature`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.x509_certificate_object.X509CertificateSignatureType`

signature

Type: `cybox.common.properties.String`

XML Binding class name: `Signature`

Dictionary key name: `signature`

signature_algorithm

Type: `cybox.common.properties.String`

XML Binding class name: `Signature_Algorithm`

Dictionary key name: `signature_algorithm`

class `cybox.objects.x509_certificate_object.X509NonStandardExtensions`

Bases: `cybox.Entity`

XML binding class:

`cybox.bindings.x509_certificate_object.X509NonStandardExtensionsType`

netscape_certificate_type

Type: `cybox.common.properties.String`
XML Binding class name: `Netscape_Certificate_Type`
Dictionary key name: `netscape_certificate_type`

netscape_comment

Type: `cybox.common.properties.String`
XML Binding class name: `Netscape_Comment`
Dictionary key name: `netscape_comment`

old_authority_key_identifier

Type: `cybox.common.properties.String`
XML Binding class name: `Old_Authority_Key_Identifier`
Dictionary key name: `old_authority_key_identifier`

old_primary_key_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `Old_Primary_Key_Attributes`
Dictionary key name: `old_primary_key_attributes`

class `cybox.objects.x509_certificate_object.X509V3Extensions`
Bases: `cybox.Entity`

XML binding class: `cybox.bindings.x509_certificate_object.X509V3ExtensionsType`

authority_key_identifier

Type: `cybox.common.properties.String`
XML Binding class name: `Authority_Key_Identifier`
Dictionary key name: `authority_key_identifier`

basic_constraints

Type: `cybox.common.properties.String`
XML Binding class name: `Basic_Constraints`
Dictionary key name: `basic_constraints`

certificate_policies

Type: `cybox.common.properties.String`
XML Binding class name: `Certificate_Policies`
Dictionary key name: `certificate_policies`

crl_distribution_points

Type: `cybox.common.properties.String`
XML Binding class name: `CRL_Distribution_Points`

Dictionary key name: `crl_distribution_points`

extended_key_usage

Type: `cybox.common.properties.String`
XML Binding class name: `Extended_Key_Usage`
Dictionary key name: `extended_key_usage`

inhibit_any_policy

Type: `cybox.common.properties.NonNegativeInteger`
XML Binding class name: `Inhibit_Any_Policy`
Dictionary key name: `inhibit_any_policy`

issuer_alternative_name

Type: `cybox.common.properties.String`
XML Binding class name: `Issuer_Alternative_Name`
Dictionary key name: `issuer_alternative_name`

key_usage

Type: `cybox.common.properties.String`
XML Binding class name: `Key_Usage`
Dictionary key name: `key_usage`

name_constraints

Type: `cybox.common.properties.String`
XML Binding class name: `Name_Constraints`
Dictionary key name: `name_constraints`

policy_constraints

Type: `cybox.common.properties.String`
XML Binding class name: `Policy_Constraints`
Dictionary key name: `policy_constraints`

policy_mappings

Type: `cybox.common.properties.String`
XML Binding class name: `Policy_Mappings`
Dictionary key name: `policy_mappings`

private_key_usage_period

Type: `cybox.objects.x509_certificate_object.Validity`
XML Binding class name: `Private_Key_Usage_Period`
Dictionary key name: `private_key_usage_period`

subject_alternative_name

Type: `cybox.common.properties.String`
XML Binding class name: `Subject_Alternative_Name`
Dictionary key name: `subject_alternative_name`

subject_directory_attributes

Type: `cybox.common.properties.String`
XML Binding class name: `Subject_Directory_Attributes`
Dictionary key name: `subject_directory_attributes`

subject_key_identifier

Type: `cybox.common.properties.String`
XML Binding class name: `Subject_Key_Identifier`
Dictionary key name: `subject_key_identifier`

3.1.4 Utility Classes and Functions

Version: 2.1.0.11

cybox.utils package

Submodules

Version: 2.1.0.11

cybox.utils.autoentity module

`cybox.utils.autoentity.make_class_ref` (*cls*)
`cybox.utils.autoentity.setup` (*app*)

Version: 2.1.0.11

cybox.utils.caches module

exception `cybox.utils.caches.CacheMiss`

Bases: `exceptions.Exception`

Item was not found in a cache.

`cybox.utils.caches.cache_clear` ()

Clear the global cache

`cybox.utils.caches.cache_count` ()

Get the number of items in the global cache

`cybox.utils.caches.cache_get` (*id_*)

Retrieve a value from the global cache

`cybox.utils.caches.cache_put` (*value*, *id_=None*)

Save a value in the global cache

Version: 2.1.0.11

cybox.utils.idgen module Methods for generating IDs for Objects and Observables

exception `cybox.utils.idgen.InvalidMethodError` (*method*)

Bases: `exceptions.ValueError`

`cybox.utils.idgen.set_id_namespace` (*namespace*)

Set the namespace for the module-level ID Generator

`cybox.utils.idgen.set_id_method` (*method*)

Set the method for the module-level ID Generator

`cybox.utils.idgen.create_id` (*prefix=None*)

Create an ID using the module-level ID Generator

Version: 2.1.0.11

cybox.utils.nsparser module

exception `cybox.utils.nsparser.UnknownObjectType`

Bases: `exceptions.Exception`

Module contents

Common utility methods

`cybox.utils.denormalize_from_xml` (*value, delimiter*)

`cybox.utils.get_class_for_object_type` (*object_type*)

`cybox.utils.is_sequence` (*item*)

Returns True if *value* is a sequence type (e.g., list, or tuple). String types will return False.

`cybox.utils.normalize_to_xml` (*value, delimiter*)

`cybox.utils.unwrap_cdata` (*value*)

Remove CDATA wrapping from *value* if present

`cybox.utils.wrap_cdata` (*value*)

Version: 2.1.0.11

cybox.utils.autoentity module

`cybox.utils.autoentity.make_class_ref` (*cls*)

`cybox.utils.autoentity.setup` (*app*)

Version: 2.1.0.11

cybox.utils.caches module

exception `cybox.utils.caches.CacheMiss`

Bases: `exceptions.Exception`

Item was not found in a cache.

`cybox.utils.caches.cache_clear` ()

Clear the global cache

`cybox.utils.caches.cache_count` ()

Get the number of items in the global cache

`cybox.utils.caches.cache_get(id_)`
Retrieve a value from the global cache

`cybox.utils.caches.cache_put(value, id_=None)`
Save a value in the global cache

Version: 2.1.0.11

`cybox.utils.idgen` module

Methods for generating IDs for Objects and Observables

exception `cybox.utils.idgen.InvalidMethodError` (*method*)
Bases: `exceptions.ValueError`

`cybox.utils.idgen.set_id_namespace(namespace)`
Set the namespace for the module-level ID Generator

`cybox.utils.idgen.set_id_method(method)`
Set the method for the module-level ID Generator

`cybox.utils.idgen.create_id(prefix=None)`
Create an ID using the module-level ID Generator

Version: 2.1.0.11

`cybox.utils.nsparser` module

exception `cybox.utils.nsparser.UnknownObjectType`
Bases: `exceptions.Exception`

3.1.5 CybOX Helper module

Version: 2.1.0.11

`cybox.helper` module

CybOX Common Indicator API

An api for creating observables for common indicators: ipv4 addresses, domain names, file hashes, and urls.

`cybox.helper.create_domain_name_observable(domain_name)`
Create a CybOX Observable representing a domain name.

`cybox.helper.create_email_address_observable(email_address)`
Create a CybOX Observable representing an IPv4 address

`cybox.helper.create_file_hash_observable(fn, hash_value)`
Create a CybOX Observable representing a file hash.

`cybox.helper.create_ipv4_list_observables(list_ipv4_addresses)`
Create a list of CybOX Observables, each representing an IPv4 address

`cybox.helper.create_ipv4_observable(ipv4_address)`
Create a CybOX Observable representing an IPv4 address

`cybox.helper.create_url_observable(url)`

Version: 2.1.0.11

3.2 API Coverage

The *python-cybox* APIs currently provide partial coverage of all CybOX-defined constructs. Development is ongoing toward the goal of providing full CybOX language support in the APIs. Until such time that full coverage is provided, an overview of which constructs are available in these APIs will be maintained below.

3.2.1 CybOX Features

CybOX Construct	API Coverage	Documentation
Composite Observable	Full	<code>cybox.core.observable.ObservableComposition</code>
Event	Partial	<code>cybox.core.event.Event</code>
Object	Partial	<code>cybox.core.object.Object</code>
Observables	Partial	<code>cybox.core.observable.Observables</code>
Observable	Partial	<code>cybox.core.observable.Observable</code>
Relationships	Partial	

3.2.2 CybOX Objects

CybOX Construct	API Coverage	Documentation
Account Object	Full	<code>cybox.objects.account_object.Account</code>
Address Object	Full	<code>cybox.objects.address_object.Address</code>
API Object	Full	<code>cybox.objects.api_object.API</code>
Archive File Object	Full	<code>cybox.objects.archive_file_object.ArchiveFile</code>
ARP Cache Object	Full	<code>cybox.objects.arp_cache_object.ARPCache</code>
Artifact Object	Full	<code>cybox.objects.artifact_object.Artifact</code>
AS Object	Full	<code>cybox.objects.as_object.AutonomousSystem</code>
Code Object	Full	<code>cybox.objects.code_object.Code</code>
Custom Object	× None	
Device Object	Full	<code>cybox.objects.device_object.Device</code>
Disk Object	Full	<code>cybox.objects.disk_object.Disk</code>
Disk Partition Object	Full	<code>cybox.objects.disk_partition_object.DiskPartition</code>
DNS Cache Object	Full	<code>cybox.objects.dns_cache_object.DNSCache</code>
DNS Query Object	Full	<code>cybox.objects.dns_query_object.DNSQuery</code>
DNS Record Object	Full	<code>cybox.objects.dns_record_object.DNSRecord</code>
Domain Name Object	Full	<code>cybox.objects.domain_name_object.DomainName</code>
Email Message Object	Full	<code>cybox.objects.email_message_object.EmailMessage</code>
File Object	Full	<code>cybox.objects.file_object.File</code>
GUI Dialogbox Object	Full	<code>cybox.objects.gui_dialogbox_object.GUIDialogbox</code>
GUI Object	Full	<code>cybox.objects.gui_object.GUI</code>
GUI Window Object	Full	<code>cybox.objects.gui_window_object.GUIWindow</code>
HTTP Session Object	Full	<code>cybox.objects.http_session_object.HTTPSession</code>
Hostname Object	Full	<code>cybox.objects.hostname_object.Hostname</code>
Image File Object	Full	<code>cybox.objects.image_file_object.ImageFile</code>
Library Object	Full	<code>cybox.objects.library_object.Library</code>
Link Object	Full	<code>cybox.objects.link_object.Link</code>
Linux Package Object	Full	<code>cybox.objects.linux_package_object.LinuxPackage</code>
Memory Object	Full	<code>cybox.objects.memory_object.Memory</code>
Mutex Object	Full	<code>cybox.objects.mutex_object.Mutex</code>
Network Connection Object	Full	<code>cybox.objects.network_connection_object.NetworkConne</code>
Network Flow Object	× None	

Conti

Table 3.1 – continued from previous page

CybOX Construct	API Coverage	Documentation
Network Packet Object	Full	<code>cybox.objects.network_packet_object.NetworkPacket</code>
Network Route Entry Object	Full	<code>cybox.objects.network_route_entry_object.NetworkRouteEntry</code>
Network Route Object	Full	<code>cybox.objects.network_route_object.NetRoute</code>
Network Socket Object	Full	<code>cybox.objects.network_socket_object.NetworkSocket</code>
Network Subnet Object	Full	<code>cybox.objects.network_subnet_object.NetworkSubnet</code>
PDF File Object	Partial	<code>cybox.objects.pdf_file_object.PDFFile</code>
Pipe Object	Full	<code>cybox.objects.pipe_object.Pipe</code>
Port Object	Full	<code>cybox.objects.port_object.Port</code>
Process Object	Full	<code>cybox.objects.process_object.Process</code>
Product Object	Full	<code>cybox.objects.product_object.Product</code>
Semaphore Object	Full	<code>cybox.objects.semaphore_object.Semaphore</code>
SMS Message Object	Full	<code>cybox.objects.sms_message_object.SMSMessage</code>
Socket Address Object	Full	<code>cybox.objects.socket_address_object.SocketAddress</code>
System Object	Partial	<code>cybox.objects.system_object.System</code>
URI Object	Full	<code>cybox.objects.uri_object.URI</code>
URL History Object	× None	
Unix File Object	× None	
Unix Network Route Entry Object	× None	
Unix Pipe Object	× None	
Unix Process Object	× None	
Unix User Account Object	× None	
Unix Volume Object	× None	
User Account Object	Full	<code>cybox.objects.user_account_object.UserAccount</code>
User Session Object	× None	
Volume Object	Full	<code>cybox.objects.volume_object.Volume</code>
Whois Object	Full	<code>cybox.objects.whois_object.WhoisEntry</code>
Win Computer Account Object	Full	<code>cybox.objects.win_computer_account_object.WinComputerAccount</code>
Win Critical Section Object	Full	<code>cybox.objects.win_critical_section_object.WinCriticalSection</code>
Win Driver Object	Full	<code>cybox.objects.win_driver_object.WinDriver</code>
Win Event Log Object	Full	<code>cybox.objects.win_event_log_object.WinEventLog</code>
Win Event Object	Full	<code>cybox.objects.win_event_object.WinEvent</code>
Win Executable File Object	Full	<code>cybox.objects.win_executable_file_object.WinExecutableFile</code>
Win File Object	Full	<code>cybox.objects.win_file_object.WinFile</code>
Win Filemapping Object	Full	<code>cybox.objects.win_filemapping_object.WinFilemapping</code>
Win Handle Object	Full	<code>cybox.objects.win_handle_object.WinHandle</code>
Win Hook Object	Full	<code>cybox.objects.win_hook_object.WinHook</code>
Win Kernel Hook Object	Full	<code>cybox.objects.win_kernel_hook_object.WinKernelHook</code>
Win Kernel Object	Full	<code>cybox.objects.win_kernel_object.WinKernel</code>
Win Mailslot Object	Full	<code>cybox.objects.win_mailslot_object.WinMailslot</code>
Win Memory Page Region Object	Full	<code>cybox.objects.win_memory_page_region_object.WinMemoryPageRegion</code>
Win Mutex Object	Full	<code>cybox.objects.win_mutex_object.WinMutex</code>
Win Network Route Entry Object	Full	<code>cybox.objects.win_network_route_entry_object.WinNetworkRouteEntry</code>
Win Network Share Object	Full	<code>cybox.objects.win_network_share_object.WinNetworkShare</code>
Win Pipe Object	Full	<code>cybox.objects.win_pipe_object.WinPipe</code>
Win Prefetch Object	Full	<code>cybox.objects.win_prefetch_object.WinPrefetch</code>
Win Process Object	Full	<code>cybox.objects.win_process_object.WinProcess</code>
Win Registry Key Object	Full	<code>cybox.objects.win_registry_key_object.WinRegistryKey</code>
Win Semaphore Object	Full	<code>cybox.objects.win_semaphore_object.WinSemaphore</code>
Win Service Object	Full	<code>cybox.objects.win_service_object.WinService</code>
Win System Object	Full	<code>cybox.objects.win_system_object.WinSystem</code>
Win System Restore Object	Full	<code>cybox.objects.win_system_restore_object.WinSystemRestore</code>

Continued

Table 3.1 – continued from previous page

CybOX Construct	API Coverage	Documentation
Win Task Object	Full	<code>cybox.objects.win_task_object.WinTask</code>
Win Thread Object	Full	<code>cybox.objects.win_thread_object.WinThread</code>
Win User Account Object	Full	<code>cybox.objects.win_user_object.WinUser</code>
Win Volume Object	Full	<code>cybox.objects.win_volume_object.WinVolume</code>
Win Waitable Timer Object	Full	<code>cybox.objects.win_waitable_timer_object.WinWaitableT</code>
X509 Certificate Object	Full	<code>cybox.objects.x509_certificate_object.X509Certificat</code>

3.2.3 CybOX Vocabularies

CybOX Construct	API Coverage	Documentation
ActionArgumentNameVocab-1.0	Full	<code>cybox.common.vocabs.ActionArgumentName</code>
ActionNameVocab-1.0	× None (<i>replaced by version 1.1</i>)	
ActionNameVocab-1.1	Full	<code>cybox.common.vocabs.ActionName</code>
ActionObjectAssociationTypeVocab-1.0	Full	<code>cybox.common.vocabs.AssociationType</code>
ActionRelationshipTypeVocab-1.0	× None	
ActionTypeVocab-1.0	Full	<code>cybox.common.vocabs.ActionType</code>
CharacterEncodingVocab-1.0	Full	<code>cybox.common.vocabs.CharacterEncoding</code>
EventTypeVocab-1.0	× None (<i>replaced by version 1.0.1</i>)	
EventTypeVocab-1.0.1	Full	<code>cybox.common.vocabs.EventType</code>
HashNameVocab-1.0	Full	<code>cybox.common.vocabs.HashName</code>
InformationSourceTypeVocab-1.0	Full	<code>cybox.common.vocabs.InformationSourceType</code>
ObjectRelationshipVocab-1.0	× None (<i>replaced by version 1.1</i>)	
ObjectRelationshipVocab-1.1	Full	<code>cybox.common.vocabs.ObjectRelationship</code>
ObjectStateVocab-1.0	× None	
ToolTypeVocab-1.0	× None (<i>replaced by version 1.1</i>)	
ToolTypeVocab-1.1	Full	<code>cybox.common.vocabs.ToolType</code>

Indices and tables

- *genindex*
- *modindex*
- *search*

C

cybox.common, 15
cybox.common.attribute_groups, 33
cybox.common.byterun, 33
cybox.common.contributor, 34
cybox.common.data_segment, 35
cybox.common.daterange, 36
cybox.common.datetimewithprecision, 37
cybox.common.digitalsignature, 37
cybox.common.environment_variable, 38
cybox.common.extracted_features, 38
cybox.common.extracted_string, 40
cybox.common.hashes, 41
cybox.common.measuresource, 42
cybox.common.object_properties, 44
cybox.common.platform_specification, 45
cybox.common.structured_text, 47
cybox.common.time, 47
cybox.common.tools, 48
cybox.common.vocabs, 48
cybox.core, 51
cybox.core.action, 59
cybox.core.action_reference, 62
cybox.core.associated_object, 62
cybox.core.event, 63
cybox.core.frequency, 64
cybox.core.object, 64
cybox.core.observable, 66
cybox.helper, 482
cybox.objects, 272
cybox.objects.account_object, 272
cybox.objects.address_object, 275
cybox.objects.api_object, 276
cybox.objects.archive_file_object, 276
cybox.objects.arp_cache_object, 278
cybox.objects.artifact_object, 279
cybox.objects.as_object, 281
cybox.objects.code_object, 282
cybox.objects.device_object, 284
cybox.objects.disk_object, 285
cybox.objects.disk_partition_object, 286
cybox.objects.dns_cache_object, 287
cybox.objects.dns_query_object, 288
cybox.objects.dns_record_object, 290
cybox.objects.domain_name_object, 291
cybox.objects.email_message_object, 292
cybox.objects.file_object, 297
cybox.objects.gui_dialogbox_object, 303
cybox.objects.gui_object, 303
cybox.objects.gui_window_object, 304
cybox.objects.hostname_object, 304
cybox.objects.http_session_object, 305
cybox.objects.image_file_object, 318
cybox.objects.library_object, 319
cybox.objects.link_object, 320
cybox.objects.linux_package_object, 320
cybox.objects.memory_object, 322
cybox.objects.mutex_object, 323
cybox.objects.network_connection_object,
324
cybox.objects.network_packet_object, 326
cybox.objects.network_route_entry_object,
366
cybox.objects.network_route_object, 368
cybox.objects.network_socket_object, 369
cybox.objects.network_subnet_object, 373
cybox.objects.pdf_file_object, 374
cybox.objects.pipe_object, 379
cybox.objects.port_object, 379
cybox.objects.process_object, 380
cybox.objects.product_object, 383
cybox.objects.semaphore_object, 384
cybox.objects.sms_message_object, 385
cybox.objects.socket_address_object, 386
cybox.objects.system_object, 386
cybox.objects.uri_object, 392
cybox.objects.user_account_object, 392
cybox.objects.volume_object, 394
cybox.objects.whois_object, 395
cybox.objects.win_computer_account_object,
401

cybox.objects.win_critical_section_object,
403

cybox.objects.win_driver_object, 404

cybox.objects.win_event_log_object, 409

cybox.objects.win_event_object, 412

cybox.objects.win_executable_file_object,
412

cybox.objects.win_file_object, 434

cybox.objects.win_filemapping_object,
437

cybox.objects.win_handle_object, 438

cybox.objects.win_hook_object, 439

cybox.objects.win_kernel_hook_object,
440

cybox.objects.win_kernel_object, 441

cybox.objects.win_mailslot_object, 443

cybox.objects.win_memory_page_region_object,
444

cybox.objects.win_mutex_object, 446

cybox.objects.win_network_route_entry_object,
446

cybox.objects.win_network_share_object,
447

cybox.objects.win_pipe_object, 448

cybox.objects.win_prefetch_object, 450

cybox.objects.win_process_object, 451

cybox.objects.win_registry_key_object,
455

cybox.objects.win_semaphore_object, 457

cybox.objects.win_service_object, 457

cybox.objects.win_system_object, 459

cybox.objects.win_system_restore_object,
462

cybox.objects.win_task_object, 464

cybox.objects.win_thread_object, 470

cybox.objects.win_user_object, 471

cybox.objects.win_volume_object, 473

cybox.objects.win_waitable_timer_object,
474

cybox.objects.x509_certificate_object,
474

cybox.utils, 481

cybox.utils.autoentity, 481

cybox.utils.caches, 481

cybox.utils.idgen, 482

cybox.utils.nsparser, 482

A

- aa_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 170, 377
- abbreviation (cybox.objects.win_system_object.GlobalFlag attribute), 252, 460
- accept (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 100, 306
- accept_charset (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 100, 306
- accept_datetime (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 100, 306
- accept_encoding (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 100, 307
- accept_language (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 100, 307
- accept_ranges (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 106, 312
- access_all (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 447
- access_attr (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 447
- access_control_allow_origin (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 106, 312
- access_create (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 447
- access_delete (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 447
- access_exec (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 447
- access_mask (cybox.objects.win_handle_object.WinHandle attribute), 231, 438
- access_perm (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 447
- access_read (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 448
- access_write (cybox.objects.win_network_share_object.WinNetworkShare attribute), 240, 448
- accessed_directory_list (cybox.objects.win_prefetch_object.WinPrefetch attribute), 243, 450
- accessed_file_list (cybox.objects.win_prefetch_object.WinPrefetch attribute), 243, 450
- accessed_time (cybox.objects.file_object.File attribute), 92, 298
- AccessedDirectoryList (class in cybox.objects.win_prefetch_object), 242, 450
- AccessedFileList (class in cybox.objects.win_prefetch_object), 242, 450
- Account (class in cybox.objects.account_object), 67, 272
- account_logon_type (cybox.objects.win_task_object.WinTask attribute), 260, 468
- account_name (cybox.objects.win_task_object.WinTask attribute), 260, 468
- account_run_level (cybox.objects.win_task_object.WinTask attribute), 260, 468
- ack (cybox.objects.network_packet_object.TCPFlags attribute), 156, 362
- ack_num (cybox.objects.network_packet_object.TCPHeader attribute), 156, 363
- acl_change_sid (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 254, 462
- acl_change_username (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 462
- Action (class in cybox.core.action), 51, 59
- action_aliases (cybox.core.action.Action attribute), 51, 59
- action_arguments (cybox.core.action.Action attribute), 51, 59
- action_id (cybox.core.action_reference.ActionReference attribute), 54, 62
- action_id (cybox.objects.win_task_object.TaskAction attribute), 258, 466
- action_list (cybox.objects.win_task_object.WinTask attribute), 260, 468
- action_status (cybox.core.action.Action attribute), 51, 59
- action_type (cybox.objects.win_task_object.TaskAction attribute), 258, 466
- ActionAliases (class in cybox.core.action), 53, 61
- ActionArgument (class in cybox.core.action), 53, 61

- ActionArgumentName (class in cybox.common.vocabs), 31, 48
- ActionArguments (class in cybox.core.action), 53, 61
- ActionName (class in cybox.common.vocabs), 31, 49
- ActionObjectAssociationType (class in cybox.common.vocabs), 31, 49
- ActionReference (class in cybox.core.action_reference), 54, 62
- ActionRelationship (class in cybox.core.action), 53, 61
- ActionRelationships (class in cybox.core.action), 53, 61
- ActionRelationshipType (class in cybox.common.vocabs), 31, 49
- Actions (class in cybox.core.action), 54, 62
- actions (cybox.core.event.Event attribute), 55, 63
- ActionType (class in cybox.common.vocabs), 31, 49
- actual_available_allocation_units (cybox.objects.volume_object.Volume attribute), 187, 394
- actual_size (cybox.objects.win_filemapping_object.WinFilemapping attribute), 230, 437
- adapter (cybox.objects.system_object.NetworkInterface attribute), 181, 388
- add() (cybox.core.observable.ObservableComposition method), 58, 66
- add() (cybox.core.observable.Observables method), 58, 67
- add_external_class() (in module cybox.core.object), 57, 65
- add_hash() (cybox.objects.file_object.File method), 92, 298
- add_keyword() (cybox.core.observable.Observable method), 58, 66
- add_related() (cybox.common.object_properties.ObjectProperties method), 26, 44
- add_related() (cybox.core.object.Object method), 57, 65
- additional_records (cybox.objects.dns_query_object.DNSQuery attribute), 82, 288
- addr_config_flag (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 146, 353
- Address (class in cybox.objects.address_object), 69, 275
- address (cybox.common.extracted_string.ExtractedString attribute), 22, 40
- address (cybox.objects.api_object.API attribute), 70, 276
- address (cybox.objects.whois_object.WhoisContact attribute), 189, 395
- address (cybox.objects.whois_object.WhoisRegistrar attribute), 192, 399
- address (cybox.objects.win_critical_section_object.WinCriticalSection attribute), 196, 403
- address_class (cybox.objects.dns_record_object.DNSRecord attribute), 84, 290
- address_family (cybox.objects.network_socket_object.NetworkSocket attribute), 163, 369
- address_mask (cybox.objects.network_packet_object.ICMPv4AddressMask attribute), 125, 331
- address_mask (cybox.objects.network_packet_object.ICMPv4AddressMask attribute), 125, 331
- address_mask_reply (cybox.objects.network_packet_object.ICMPv4AddressMaskReply attribute), 125, 331
- address_mask_reply (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 128, 335
- address_mask_request (cybox.objects.network_packet_object.ICMPv4AddressMaskRequest attribute), 125, 331
- address_mask_request (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 129, 335
- address_of_entry_point (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 217, 424
- address_unreachable (cybox.objects.network_packet_object.ICMPv6DestinationUnreachable attribute), 133, 340
- address_value (cybox.objects.address_object.Address attribute), 69, 275
- age (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 106, 312
- allocation_base_address (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 444
- allocation_protect (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 444
- answer_resource_records (cybox.objects.dns_query_object.DNSQuery attribute), 82, 288
- AnyURI (class in cybox.common.properties), 28, 45
- API (class in cybox.objects.api_object), 70, 276
- application_file_name (cybox.objects.win_prefetch_object.WinPrefetch attribute), 243, 451
- application_name (cybox.objects.win_task_object.WinTask attribute), 261, 468
- architecture (cybox.objects.linux_package_object.LinuxPackage attribute), 114, 321
- architecture (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
- archive_format (cybox.objects.archive_file_object.ArchiveFile attribute), 71, 277
- archive_section (cybox.objects.archive_file_object.ArchiveFile attribute), 71, 277
- ArchiveFile (class in cybox.objects.archive_file_object), 71, 276
- arguments_list (cybox.objects.process_object.Process attribute), 174, 381

- argument_name (cybox.core.action.ActionArgument attribute), 53, 61
- argument_table_base (cybox.objects.win_kernel_object.SSDTEntry attribute), 234, 442
- argument_value (cybox.core.action.ActionArgument attribute), 53, 61
- ArgumentList (class in cybox.objects.process_object), 173, 380
- ARP (class in cybox.objects.network_packet_object), 119, 326
- arp_cache_entry (cybox.objects.arp_cache_object.ARPCache attribute), 75, 278
- arp_rarp (cybox.objects.network_packet_object.LogicalProtocol attribute), 144, 351
- ARPCache (class in cybox.objects.arp_cache_object), 75, 278
- ARPCacheEntry (class in cybox.objects.arp_cache_object), 76, 278
- Artifact (class in cybox.objects.artifact_object), 72, 279
- AS (in module cybox.objects.as_object), 75, 281
- ascii85decode_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 170, 377
- asciihexdecode_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 170, 377
- aslr_enabled (cybox.objects.win_process_object.WinProcess attribute), 246, 453
- associated_objects (cybox.core.action.Action attribute), 51, 59
- AssociatedObject (class in cybox.core.associated_object), 54, 62
- AssociatedObjects (class in cybox.core.action), 54, 62
- attached_device_name (cybox.objects.win_driver_object.DeviceObjectStructure attribute), 197, 404
- attached_device_object (cybox.objects.win_driver_object.DeviceObjectStructure attribute), 197, 404
- attached_to_device_name (cybox.objects.win_driver_object.DeviceObjectStructure attribute), 197, 404
- attached_to_device_object (cybox.objects.win_driver_object.DeviceObjectStructure attribute), 197, 404
- attached_to_driver_name (cybox.objects.win_driver_object.DeviceObjectStructure attribute), 197, 404
- attached_to_driver_object (cybox.objects.win_driver_object.DeviceObjectStructure attribute), 197, 404
- AttachmentReference (class in cybox.objects.email_message_object), 86, 292
- Attachments (class in cybox.objects.email_message_object), 86, 292
- attachments (cybox.objects.email_message_object.EmailMessage attribute), 89, 295
- attributes_list (cybox.objects.win_volume_object.WinVolume attribute), 266, 473
- Authentication (class in cybox.objects.account_object), 68, 273
- authentication (cybox.objects.account_object.Account attribute), 67, 273
- authentication_data (cybox.objects.account_object.Authentication attribute), 68, 274
- AuthenticationData (class in cybox.objects.network_packet_object.AuthenticationHeader attribute), 120, 327
- authentication_data (cybox.objects.network_packet_object.EncapsulatingSecurityPayload attribute), 121, 328
- authentication_header (cybox.objects.network_packet_object.IPv6ExtHeader attribute), 141, 347
- authentication_token_protection_mechanism (cybox.objects.account_object.Authentication attribute), 68, 274
- authentication_type (cybox.objects.account_object.Authentication attribute), 68, 274
- AuthenticationHeader (class in cybox.objects.network_packet_object), 120, 327
- author (cybox.objects.pdf_file_object.PDFDocumentInformationDictionary attribute), 167, 374
- authority_key_identifier (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 271, 478
- authority_resource_records (cybox.objects.dns_query_object.DNSQuery attribute), 82, 288
- authorization (cybox.objects.http_session_object.HTTPRequestHeaderField attribute), 101, 307
- AutonomousSystem (class in cybox.objects.as_object), 75, 281
- available_physical_memory (cybox.objects.system_object.System attribute), 183, 390

B

backup_file_name (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 462

Base64Binary (class in cybox.common.properties), 28, 45

- Base64Encoding (class in cybox.objects.artifact_object), 72, 279
- base_address (cybox.objects.library_object.Library attribute), 113, 319
- base_of_code (cybox.objects.win_executable_file_object.OptionalHeader attribute), 217, 424
- base_of_data (cybox.objects.win_executable_file_object.OptionalHeader attribute), 217, 424
- base_relocation_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
- BaseProperty (class in cybox.common.properties), 28, 45
- basic_constraints (cybox.objects.x509_certificate_object.X509Certificate attribute), 271, 478
- bcc (cybox.objects.email_message_object.EmailHeader attribute), 86, 292
- beyond_scope (cybox.objects.network_packet_object.ICMPHeader attribute), 133, 340
- bios_date (cybox.objects.system_object.BIOSInfo attribute), 180, 387
- bios_info (cybox.objects.system_object.System attribute), 183, 390
- bios_manufacturer (cybox.objects.system_object.BIOSInfo attribute), 180, 387
- bios_release_date (cybox.objects.system_object.BIOSInfo attribute), 180, 387
- bios_serial_number (cybox.objects.system_object.BIOSInfo attribute), 180, 387
- bios_version (cybox.objects.system_object.BIOSInfo attribute), 180, 387
- BIOSInfo (class in cybox.objects.system_object), 180, 386
- bitmask (cybox.objects.win_computer_account_object.KerberosDelegation attribute), 195, 402
- bitness (cybox.objects.system_object.OS attribute), 182, 389
- bits_per_character (cybox.objects.sms_message_object.SMSMessage attribute), 178, 385
- bits_per_pixel (cybox.objects.image_file_object.ImageFile attribute), 112, 318
- blob (cybox.objects.win_event_log_object.WinEventLog attribute), 202, 409
- block_type (cybox.objects.memory_object.Memory attribute), 116, 322
- block_type (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 444
- body (cybox.objects.sms_message_object.SMSMessage attribute), 178, 385
- bound (cybox.objects.win_executable_file_object.PEImportedFunction attribute), 216, 423
- bound_import (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
- boundary (cybox.objects.email_message_object.EmailHeader attribute), 86, 292
- box_caption (cybox.objects.gui_dialogbox_object.GUIDialogbox attribute), 97, 303
- box_title (cybox.objects.gui_dialogbox_object.GUIDialogbox attribute), 97, 303
- build_number (cybox.objects.system_object.OS attribute), 182, 389
- by (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296
- Byte3Extensions (class in cybox.common.byterun.ByteRun attribute), 16, 33
- byte_order (cybox.common.data_segment.DataSegment attribute), 18, 35
- by_destination (cybox.objects.artifact_object.RawArtifact attribute), 74, 281
- byte_run_data (cybox.common.byterun.ByteRun attribute), 16, 33
- byte_runs (cybox.objects.file_object.File attribute), 92, 298
- byte_runs (cybox.objects.win_registry_key_object.RegistryValue attribute), 247, 455
- byte_runs (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 248, 456
- byte_string_value (cybox.common.extracted_string.ExtractedString attribute), 23, 40
- ByteRun (class in cybox.common.byterun), 16, 33
- ByteRuns (class in cybox.common.byterun), 16, 34
- bytes_per_sector (cybox.objects.volume_object.Volume attribute), 187, 394
- Bz2Compression (class in cybox.objects.artifact_object), 72, 279

C

- cache_clear() (in module cybox.utils.caches), 480, 481
- cache_control (cybox.objects.http_session_object.HTTPRequestHeaderField attribute), 101, 307
- cache_control (cybox.objects.http_session_object.HTTPResponseHeaderField attribute), 106, 312
- cache_count() (in module cybox.utils.caches), 480, 481
- cache_get() (in module cybox.utils.caches), 480, 482
- cache_put() (in module cybox.utils.caches), 480, 482
- CacheMiss, 480, 481
- category (cybox.objects.address_object.Address attribute), 114, 321
- category (cybox.objects.linux_package_object.LinuxPackage attribute), 114, 321
- category (cybox.objects.win_event_log_object.WinEventLog attribute), 202, 410
- category_num (cybox.objects.win_event_log_object.WinEventLog attribute), 203, 410

- cc (cybox.objects.email_message_object.EmailHeader attribute), 86, 292
- ccittfaxdecode_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 377
- certificate (cybox.objects.x509_certificate_object.X509Certificate attribute), 269, 477
- certificate_issuer (cybox.common.digitalsignature.DigitalSignature attribute), 20, 38
- certificate_policies (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 271, 478
- certificate_signature (cybox.objects.x509_certificate_object.X509Certificate attribute), 269, 477
- certificate_subject (cybox.common.digitalsignature.DigitalSignature attribute), 20, 38
- certificate_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
- change_event (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 462
- changelog_entry_flags (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 462
- changelog_entry_sequence_number (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 462
- changelog_entry_type (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 463
- CharacterEncoding (class in cybox.common.vocabs), 31, 49
- characteristics (cybox.objects.win_executable_file_object.PEFileHeader attribute), 213, 420
- characteristics (cybox.objects.win_executable_file_object.PESectionHeader attribute), 222, 430
- checksum (cybox.objects.network_packet_object.EthernetHeader attribute), 122, 329
- checksum (cybox.objects.network_packet_object.IPv4Header attribute), 138, 344
- checksum (cybox.objects.network_packet_object.TCPHeader attribute), 157, 363
- checksum (cybox.objects.network_packet_object.UDPHeader attribute), 159, 365
- checksum (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 217, 424
- child_pid_list (cybox.objects.process_object.Process attribute), 175, 381
- ChildPIDList (class in cybox.objects.process_object), 173, 380
- class_ (cybox.common.measuresource.MeasureSource attribute), 24, 42
- class_ (cybox.objects.network_packet_object.IPv4Option attribute), 140, 346
- clr_runtime_header (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
- Code (class in cybox.objects.code_object), 76, 282
- code_language (cybox.objects.code_object.Code attribute), 76, 282
- code_segment (cybox.objects.code_object.Code attribute), 76, 282
- code_segment_xor (cybox.objects.code_object.Code attribute), 77, 282
- code_snippets (cybox.common.extracted_features.ExtractedFeatures attribute), 21, 39
- CodeSegmentXOR (class in cybox.objects.code_object), 78, 283
- CodeSnippets (class in cybox.common.extracted_features), 21, 39
- com_class_id (cybox.objects.win_task_object.IComHandlerAction attribute), 257, 464
- com_data (cybox.objects.win_task_object.IComHandlerAction attribute), 257, 464
- comm_prohibited (cybox.objects.network_packet_object.ICMPv6DestinationUnreachable attribute), 133, 340
- compression_level (cybox.objects.process_object.ImageInfo attribute), 174, 380
- comment (cybox.objects.archive_file_object.ArchiveFile attribute), 71, 277
- comment (cybox.objects.win_task_object.WinTask attribute), 261, 468
- Compression (class in cybox.objects.win_executable_file_object.PEVersionInfoResource), 224, 431
- communication_administratively_prohibited (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 125, 332
- companyname (cybox.objects.win_executable_file_object.PEVersionInfoResource), 224, 431
- compiler_name (cybox.objects.win_executable_file_object.PEBuildInformation attribute), 210, 417
- compiler_version (cybox.objects.win_executable_file_object.PEBuildInformation attribute), 210, 417
- Compression (class in cybox.objects.artifact_object), 73, 279
- compression_algorithm (cybox.objects.image_file_object.ImageFile attribute), 112, 318
- compression_comment (cybox.objects.file_object.File attribute), 92, 298
- compression_method (cybox.objects.file_object.File attribute), 92, 298
- compression_version (cybox.objects.file_object.File attribute), 92, 298
- computer (cybox.objects.win_computer_account_object.KerberosService attribute), 195, 402
- connection (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 101, 307

- CustomProperties (class in cybox.common.object_properties), 26, 44
- cwr (cybox.objects.network_packet_object.TCPFlags attribute), 156, 362
- cybox.common (module), 15
- cybox.common.attribute_groups (module), 15, 33
- cybox.common.byterun (module), 16, 33
- cybox.common.contributor (module), 17, 34
- cybox.common.data_segment (module), 18, 35
- cybox.common.daterange (module), 19, 36
- cybox.common.datetimewithprecision (module), 19, 37
- cybox.common.digitalsignature (module), 20, 37
- cybox.common.environment_variable (module), 21, 38
- cybox.common.extracted_features (module), 21, 39
- cybox.common.extracted_string (module), 22, 40
- cybox.common.hashes (module), 24, 41
- cybox.common.measuresource (module), 24, 42
- cybox.common.object_properties (module), 26, 44
- cybox.common.platform_specification (module), 27, 45
- cybox.common.structured_text (module), 29, 47
- cybox.common.time (module), 30, 47
- cybox.common.tools (module), 30, 48
- cybox.common.vocabs (module), 31, 48
- cybox.core (module), 51
- cybox.core.action (module), 51, 59
- cybox.core.action_reference (module), 54, 62
- cybox.core.associated_object (module), 54, 62
- cybox.core.event (module), 55, 63
- cybox.core.frequency (module), 56, 64
- cybox.core.object (module), 56, 64
- cybox.core.observable (module), 58, 66
- cybox.helper (module), 482
- cybox.objects (module), 272
- cybox.objects.account_object (module), 67, 272
- cybox.objects.address_object (module), 69, 275
- cybox.objects.api_object (module), 70, 276
- cybox.objects.archive_file_object (module), 71, 276
- cybox.objects.arp_cache_object (module), 75, 278
- cybox.objects.artifact_object (module), 72, 279
- cybox.objects.as_object (module), 75, 281
- cybox.objects.code_object (module), 76, 282
- cybox.objects.device_object (module), 78, 284
- cybox.objects.disk_object (module), 79, 285
- cybox.objects.disk_partition_object (module), 80, 286
- cybox.objects.dns_cache_object (module), 81, 287
- cybox.objects.dns_query_object (module), 82, 288
- cybox.objects.dns_record_object (module), 84, 290
- cybox.objects.domain_name_object (module), 85, 291
- cybox.objects.email_message_object (module), 86, 292
- cybox.objects.file_object (module), 91, 297
- cybox.objects.gui_dialogbox_object (module), 97, 303
- cybox.objects.gui_object (module), 97, 303
- cybox.objects.gui_window_object (module), 98, 304
- cybox.objects.hostname_object (module), 98, 304
- cybox.objects.http_session_object (module), 99, 305
- cybox.objects.image_file_object (module), 112, 318
- cybox.objects.library_object (module), 113, 319
- cybox.objects.link_object (module), 114, 320
- cybox.objects.linux_package_object (module), 114, 320
- cybox.objects.memory_object (module), 116, 322
- cybox.objects.mutex_object (module), 117, 323
- cybox.objects.network_connection_object (module), 117, 324
- cybox.objects.network_packet_object (module), 119, 326
- cybox.objects.network_route_entry_object (module), 159, 366
- cybox.objects.network_route_object (module), 161, 368
- cybox.objects.network_socket_object (module), 163, 369
- cybox.objects.network_subnet_object (module), 166, 373
- cybox.objects.pdf_file_object (module), 167, 374
- cybox.objects.pipe_object (module), 172, 379
- cybox.objects.port_object (module), 173, 379
- cybox.objects.process_object (module), 173, 380
- cybox.objects.product_object (module), 176, 383
- cybox.objects.semaphore_object (module), 177, 384
- cybox.objects.sms_message_object (module), 178, 385
- cybox.objects.socket_address_object (module), 178, 386
- cybox.objects.system_object (module), 180, 386
- cybox.objects.uri_object (module), 185, 392
- cybox.objects.user_account_object (module), 185, 392
- cybox.objects.volume_object (module), 187, 394
- cybox.objects.whois_object (module), 188, 395
- cybox.objects.win_computer_account_object (module), 194, 401
- cybox.objects.win_critical_section_object (module), 196, 403
- cybox.objects.win_driver_object (module), 197, 404
- cybox.objects.win_event_log_object (module), 202, 409
- cybox.objects.win_event_object (module), 205, 412
- cybox.objects.win_executable_file_object (module), 205, 412
- cybox.objects.win_file_object (module), 227, 434
- cybox.objects.win_filemapping_object (module), 230, 437
- cybox.objects.win_handle_object (module), 231, 438
- cybox.objects.win_hook_object (module), 232, 439
- cybox.objects.win_kernel_hook_object (module), 235, 440
- cybox.objects.win_kernel_object (module), 233, 441
- cybox.objects.win_mailslot_object (module), 236, 443
- cybox.objects.win_memory_page_region_object (module), 237, 444
- cybox.objects.win_mutex_object (module), 239, 446
- cybox.objects.win_network_route_entry_object (module), 239, 446
- cybox.objects.win_network_share_object (module), 240, 447
- cybox.objects.win_pipe_object (module), 241, 448

- cybox.objects.win_prefetch_object (module), 242, 450
 - cybox.objects.win_process_object (module), 244, 451
 - cybox.objects.win_registry_key_object (module), 247, 455
 - cybox.objects.win_semaphore_object (module), 252, 457
 - cybox.objects.win_service_object (module), 249, 457
 - cybox.objects.win_system_object (module), 252, 459
 - cybox.objects.win_system_restore_object (module), 254, 462
 - cybox.objects.win_task_object (module), 257, 464
 - cybox.objects.win_thread_object (module), 263, 470
 - cybox.objects.win_user_object (module), 264, 471
 - cybox.objects.win_volume_object (module), 265, 473
 - cybox.objects.win_waitable_timer_object (module), 266, 474
 - cybox.objects.x509_certificate_object (module), 267, 474
 - cybox.utils (module), 481
 - cybox.utils.autoentity (module), 480, 481
 - cybox.utils.caches (module), 480, 481
 - cybox.utils.idgen (module), 481, 482
 - cybox.utils.nsparser (module), 481, 482
- ## D
- data (cybox.objects.network_packet_object.IPv4Packet attribute), 140, 347
 - data (cybox.objects.network_packet_object.IPv6Packet attribute), 143, 349
 - data (cybox.objects.network_packet_object.TCP attribute), 155, 362
 - data (cybox.objects.network_packet_object.UDP attribute), 159, 365
 - data (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
 - data (cybox.objects.win_registry_key_object.RegistryValue attribute), 248, 455
 - data_directory (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 217, 424
 - data_format (cybox.common.data_segment.DataSegment attribute), 18, 35
 - data_hashes (cybox.objects.win_executable_file_object.PESection attribute), 222, 429
 - data_length (cybox.objects.dns_record_object.DNSRecord attribute), 84, 290
 - data_offset (cybox.objects.network_packet_object.TCPHeader attribute), 157, 363
 - data_segment (cybox.common.data_segment.DataSegment attribute), 18, 35
 - data_size (cybox.common.data_segment.DataSegment attribute), 18, 35
 - DataDirectory (class in cybox.objects.win_executable_file_object), 208, 415
 - DataSegment (class in cybox.common.data_segment), 18, 35
 - DataSource (class in cybox.common.data_segment), 19, 36
 - datatype (cybox.objects.win_registry_key_object.RegistryValue attribute), 248, 455
 - Date (class in cybox.common.properties), 28, 46
 - date (cybox.common.contributor.Contributor attribute), 17, 34
 - date (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
 - date (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 101, 308
 - date (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 107, 314
 - date (cybox.objects.system_object.System attribute), 183, 390
 - date_ran (cybox.objects.dns_query_object.DNSQuery attribute), 82, 288
 - DateTimeRange (class in cybox.common.daterange), 19, 36
 - DateTime (class in cybox.common.properties), 28, 46
 - DateTimeWithPrecision (class in cybox.common.datetimewithprecision), 19, 37
 - DateWithPrecision (class in cybox.common.datetimewithprecision), 20, 37
 - dctdecode_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 377
 - debug (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
 - decryption_key (cybox.objects.archive_file_object.ArchiveFile attribute), 71, 277
 - decryption_key (cybox.objects.file_object.File attribute), 92, 299
 - default_time_out (cybox.objects.win_pipe_object.WinPipe attribute), 241, 449
 - delay_import_descriptor (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 415
 - delay_load (cybox.objects.win_executable_file_object.PEImportTable attribute), 215, 422
 - delegation (cybox.objects.win_computer_account_object.Kerberos attribute), 194, 401
 - denormalize_from_xml() (in module cybox.utils), 481
 - dep_enabled (cybox.objects.win_process_object.WinProcess attribute), 246, 453
 - depth (cybox.objects.file_object.EPJumpCode attribute), 91, 297
 - description (cybox.common.measuresource.MeasureSource attribute), 25, 42
 - description (cybox.core.action.Action attribute), 51, 59
 - description (cybox.core.event.Event attribute), 55, 63
 - description (cybox.objects.account_object.Account attribute), 67, 273
 - description (cybox.objects.account_object.StructuredAuthenticationMechanism attribute), 69, 274

- description (cybox.objects.api_object.API attribute), 70, 276
- description (cybox.objects.code_object.Code attribute), 77, 282
- description (cybox.objects.device_object.Device attribute), 78, 284
- description (cybox.objects.dns_record_object.DNSRecord attribute), 84, 290
- description (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 321
- description (cybox.objects.network_route_object.NetRoute attribute), 162, 368
- description (cybox.objects.network_subnet_object.NetworkSubnet attribute), 167, 373
- description (cybox.objects.system_object.NetworkInterface attribute), 181, 388
- description_list (cybox.objects.win_service_object.WinServices attribute), 250, 457
- dest_ipv4_addr (cybox.objects.network_packet_object.IPv4Header attribute), 138, 344
- dest_ipv6_addr (cybox.objects.network_packet_object.IPv6Header attribute), 141, 348
- dest_ipv6_addr (cybox.objects.network_packet_object.Redirection attribute), 152, 358
- dest_port (cybox.objects.network_packet_object.TCPHeader attribute), 157, 363
- destination (cybox.objects.win_system_object.GlobalFlag attribute), 252, 460
- destination_address (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 366
- destination_host_unknown (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 125, 332
- destination_host_unreachable (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 125, 332
- destination_mac_addr (cybox.objects.network_packet_object.EthernetHeader attribute), 122, 329
- destination_network_unknown (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 332
- destination_network_unreachable (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 332
- destination_options (cybox.objects.network_packet_object.IPv6ExtHeader attribute), 141, 347
- destination_port_unreachable (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 332
- destination_protocol_unreachable (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 332
- attribute), 126, 332
- destination_socket_address (cybox.objects.network_connection_object.NetworkConnection attribute), 118, 324
- destination_tcp_state (cybox.objects.network_connection_object.NetworkConnection attribute), 118, 325
- destination_unreachable (cybox.objects.network_packet_object.ICMPv4ErrorMessage attribute), 127, 334
- destination_unreachable (cybox.objects.network_packet_object.ICMPv6ErrorMessage attribute), 134, 341
- DestinationOptions (class in cybox.objects.network_packet_object), 121, 327
- dst_port (cybox.objects.network_packet_object.UDPHeader attribute), 159, 365
- dst_endpoint_signatures (cybox.objects.file_object.Packer attribute), 96, 302
- Device (class in cybox.objects.device_object), 78, 284
- device_name (cybox.objects.disk_partition_object.DiskPartition attribute), 80, 286
- device_name (cybox.objects.win_driver_object.DeviceObjectStruct attribute), 197, 404
- device_object (cybox.objects.win_driver_object.DeviceObjectStruct attribute), 198, 405
- device_object_list (cybox.objects.win_driver_object.WinDriver attribute), 198, 405
- device_path (cybox.objects.file_object.File attribute), 93, 299
- device_type (cybox.objects.device_object.Device attribute), 78, 284
- deviceitem (cybox.objects.win_prefetch_object.Volume attribute), 243, 450
- DeviceObjectList (class in cybox.objects.win_driver_object), 197, 404
- DeviceObjectStruct (class in cybox.objects.win_driver_object), 197, 404
- dhcp_lease_expires (cybox.objects.system_object.NetworkInterface attribute), 181, 388
- dhcp_lease_obtained (cybox.objects.system_object.NetworkInterface attribute), 181, 388
- dhcp_server_list (cybox.objects.system_object.NetworkInterface attribute), 181, 388
- DHCPService (class in cybox.objects.system_object), 180, 387
- digital_signature (cybox.objects.win_executable_file_object.WinExecutable attribute), 226, 433

- digital_signature_hooked (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 235, 440
- digital_signature_hooking (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 235, 440
- digital_signatures (cybox.objects.code_object.Code attribute), 77, 283
- digital_signatures (cybox.objects.file_object.File attribute), 93, 299
- DigitalSignature (class in cybox.common.digitalsignature), 20, 37
- DigitalSignatureList (class in cybox.common.digitalsignature), 21, 38
- disabled (cybox.objects.account_object.Account attribute), 67, 273
- discovery_method (cybox.core.action.Action attribute), 51, 59
- discovery_method (cybox.objects.code_object.Code attribute), 77, 283
- Disk (class in cybox.objects.disk_object), 79, 285
- disk_name (cybox.objects.disk_object.Disk attribute), 79, 285
- disk_size (cybox.objects.disk_object.Disk attribute), 79, 285
- DiskPartition (class in cybox.objects.disk_partition_object), 80, 286
- display_name (cybox.objects.win_service_object.WinService attribute), 250, 458
- dll_characteristics (cybox.objects.win_executable_file_object.PEOptionalDataObject attribute), 217, 424
- dns_cache_entry (cybox.objects.dns_cache_object.DNSCacheEntry attribute), 81, 287
- dns_entry (cybox.objects.dns_cache_object.DNSCacheEntry attribute), 82, 288
- dns_query (cybox.objects.network_connection_object.Layer7Connection attribute), 118, 324
- DNSCache (class in cybox.objects.dns_cache_object), 81, 287
- DNSCacheEntry (class in cybox.objects.dns_cache_object), 82, 287
- DNSQuery (class in cybox.objects.dns_query_object), 82, 288
- DNSQuestion (class in cybox.objects.dns_query_object), 83, 289
- DNSRecord (class in cybox.objects.dns_record_object), 84, 290
- DNSResourceRecords (class in cybox.objects.dns_query_object), 83, 289
- dnssec (cybox.objects.whois_object.WhoisEntry attribute), 190, 397
- dnt (cybox.objects.http_session_object.HTTPRequestHeader attribute), 102, 308
- do_not_fragment (cybox.objects.network_packet_object.IPv4Flags attribute), 137, 344
- do_not_recogn_action (cybox.objects.network_packet_object.IPv6Option attribute), 142, 349
- document_information_dictionary (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 169, 376
- domain (cybox.objects.account_object.Account attribute), 68, 273
- domain (cybox.objects.network_socket_object.NetworkSocket attribute), 163, 370
- domain (cybox.objects.win_system_object.WinSystem attribute), 253, 460
- domain_id (cybox.objects.whois_object.WhoisEntry attribute), 190, 397
- domain_name (cybox.objects.dns_record_object.DNSRecord attribute), 84, 290
- domain_name (cybox.objects.http_session_object.HostField attribute), 112, 318
- domain_name (cybox.objects.whois_object.WhoisEntry attribute), 190, 397
- DomainName (class in cybox.objects.domain_name_object), 85, 291
- DomainSpecificObjectProperties (class in cybox.core.object), 56, 64
- dos_header (cybox.objects.win_executable_file_object.PEHeaders attribute), 214, 421
- DOSHeader (class in cybox.objects.win_executable_file_object), 205, 412
- Double (class in cybox.common.properties), 28, 46
- drive (cybox.objects.win_file_object.WinFile attribute), 228, 435
- drive_letter (cybox.objects.win_volume_object.WinVolume attribute), 266, 473
- drive_Type (cybox.objects.win_volume_object.WinVolume attribute), 266, 473
- driver_init (cybox.objects.win_driver_object.WinDriver attribute), 198, 405
- driver_name (cybox.objects.win_driver_object.WinDriver attribute), 198, 405
- driver_object_address (cybox.objects.win_driver_object.WinDriver attribute), 198, 405
- driver_start_io (cybox.objects.win_driver_object.WinDriver attribute), 198, 405
- driver_unload (cybox.objects.win_driver_object.WinDriver attribute), 198, 405
- dscp (cybox.objects.network_packet_object.IPv4Header attribute), 138, 345
- DuckDuckGo (class in cybox.common.properties), 28, 46
- dwfillattribute (cybox.objects.win_process_object.StartupInfo attribute), 244, 452

- dwflags (cybox.objects.win_process_object.StartupInfo attribute), 244, 452
- dwx (cybox.objects.win_process_object.StartupInfo attribute), 244, 452
- dwxcounthars (cybox.objects.win_process_object.StartupInfo attribute), 245, 452
- dwysize (cybox.objects.win_process_object.StartupInfo attribute), 245, 452
- dwy (cybox.objects.win_process_object.StartupInfo attribute), 245, 452
- dwycounthars (cybox.objects.win_process_object.StartupInfo attribute), 245, 452
- dwysize (cybox.objects.win_process_object.StartupInfo attribute), 245, 452
- ## E
- e_bclp (cybox.objects.win_executable_file_object.DOSHeader attribute), 205, 412
- e_cp (cybox.objects.win_executable_file_object.DOSHeader attribute), 205, 413
- e_cparhdr (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_crlc (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_cs (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_csum (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_ip (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_lfanew (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_lfarlc (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_magic (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 413
- e_maxalloc (cybox.objects.win_executable_file_object.DOSHeader attribute), 206, 414
- e_minalloc (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- e_oemid (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- e_oeminfo (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- e_ovro (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- e_sp (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- e_ss (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- ece (cybox.objects.network_packet_object.TCPFlags attribute), 156, 362
- echo_reply (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 129, 335
- echo_reply (cybox.objects.network_packet_object.ICMPv6InfoMessage attribute), 135, 342
- echo_request (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 129, 335
- echo_request (cybox.objects.network_packet_object.ICMPv6InfoMessage attribute), 135, 342
- ecn (cybox.objects.network_packet_object.IPv4Header attribute), 138, 345
- edition (cybox.objects.product_object.Product attribute), 176, 383
- event (cybox.objects.win_event_log_object.WinEventLog attribute), 203, 410
- email (cybox.common.contributor.Contributor attribute), 17, 34
- email_address (cybox.objects.whois_object.WhoisContact attribute), 189, 396
- email_address (cybox.objects.whois_object.WhoisRegistrar attribute), 193, 399
- email_server (cybox.objects.email_message_object.EmailMessage attribute), 89, 295
- EmailAddress (class in cybox.objects.address_object), 70, 275
- EmailHeader (class in cybox.objects.email_message_object), 86, 292
- EmailMessage (class in cybox.objects.email_message_object), 88, 294
- EmailRecipients (class in cybox.objects.email_message_object), 89, 295
- encapsulating_security_payload (cybox.objects.network_packet_object.IPv6ExtHeader attribute), 141, 347
- EncapsulatingSecurityPayload (class in cybox.objects.network_packet_object), 121, 328
- Encoding (class in cybox.objects.artifact_object), 73, 279
- encoding (cybox.common.extracted_string.ExtractedString attribute), 23, 40
- encoding (cybox.objects.sms_message_object.SMSMessage attribute), 179, 385
- keyword_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 377
- encrypted (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 169, 376
- Encryption (class in cybox.objects.artifact_object), 73, 280
- encryption_algorithm (cybox.objects.archive_file_object.ArchiveFile attribute), 72, 277
- encryption_algorithm (cybox.objects.file_object.File attribute), 93, 299

- end_date (cybox.common.daterange.DateRange attribute), 19, 36
- end_time (cybox.common.time.Time attribute), 30, 47
- english_translation (cybox.common.extracted_string.ExtractedString attribute), 23, 40
- Entropy (class in cybox.objects.win_executable_file_object), 210, 417
- entropy (cybox.objects.win_executable_file_object.PEHeaders attribute), 214, 421
- entropy (cybox.objects.win_executable_file_object.PESection attribute), 222, 429
- entry_point (cybox.objects.file_object.Packer attribute), 96, 302
- entry_point (cybox.objects.win_executable_file_object.PEExportTable attribute), 212, 419
- entry_type (cybox.objects.dns_record_object.DNSRecord attribute), 84, 290
- EntryPointSignature (class in cybox.objects.file_object), 91, 297
- EntryPointSignatureList (class in cybox.objects.file_object), 91, 298
- environment_variable_list (cybox.objects.process_object.Process attribute), 175, 381
- environment_variable_list (cybox.objects.system_object.OS attribute), 182, 389
- EnvironmentVariable (class in cybox.common.environment_variable), 21, 38
- EnvironmentVariableList (class in cybox.common.environment_variable), 21, 38
- ep_jump_codes (cybox.objects.file_object.Packer attribute), 96, 302
- EPJumpCode (class in cybox.objects.file_object), 91, 297
- epoch (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 321
- erroneous_header_field (cybox.objects.network_packet_object.ICMPv6ParameterProblem attribute), 137, 343
- error_msg (cybox.objects.network_packet_object.ICMPv4Packet attribute), 130, 336
- error_msg (cybox.objects.network_packet_object.ICMPv6Packet attribute), 136, 342
- error_msg_content (cybox.objects.network_packet_object.ICMPv4ErrorMessage attribute), 127, 334
- errors_to (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- etag (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 107, 314
- ethernet (cybox.objects.network_packet_object.PhysicalInterface attribute), 151, 357
- ethernet_header (cybox.objects.network_packet_object.EthernetInterface attribute), 123, 329
- EthernetHeader (class in cybox.objects.network_packet_object), 122, 329
- EthernetInterface (class in cybox.objects.network_packet_object), 123, 329
- Event (class in cybox.core.event), 55, 63
- event (cybox.core.event.Event attribute), 55, 63
- EventType (class in cybox.common.vocabs), 31, 49
- evr (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 321
- ExportsTable (cybox.objects.win_executable_file_object.DataDirectory attribute), 208, 416
- exec_arguments (cybox.objects.win_task_object.IExecAction attribute), 257, 465
- exec_program_hashes (cybox.objects.win_task_object.IExecAction attribute), 257, 465
- exec_program_path (cybox.objects.win_task_object.IExecAction attribute), 257, 465
- exec_working_directory (cybox.objects.win_task_object.IExecAction attribute), 257, 465
- execution_process_id (cybox.objects.win_event_log_object.WinEventLog attribute), 203, 410
- execution_thread_id (cybox.objects.win_event_log_object.WinEventLog attribute), 203, 410
- exit_code (cybox.objects.win_task_object.WinTask attribute), 261, 468
- expect (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 308
- expiration_date (cybox.objects.whois_object.WhoisEntry attribute), 190, 397
- expires (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- exponent (cybox.objects.x509_certificate_object.RSAPublicKey attribute), 267, 474
- export_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
- exported_functions (cybox.objects.win_executable_file_object.PEExports attribute), 212, 419
- exports (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 226, 433
- exports_time_stamp (cybox.objects.win_executable_file_object.PEExports attribute), 212, 419

- ext_headers (cybox.objects.network_packet_object.IPv6Packet attribute), 143, 349
- extended_key_usage (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 271, 479
- extracted_features (cybox.objects.code_object.Code attribute), 77, 283
- extracted_features (cybox.objects.file_object.File attribute), 93, 299
- extracted_features (cybox.objects.library_object.Library attribute), 113, 319
- extracted_features (cybox.objects.memory_object.Memory attribute), 116, 322
- extracted_features (cybox.objects.process_object.Process attribute), 175, 382
- extracted_features (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 444
- ExtractedFeatures (class in cybox.common.extracted_features), 21, 39
- ExtractedString (class in cybox.common.extracted_string), 22, 40
- ExtractedStrings (class in cybox.common.extracted_string), 23, 41
- extraneous_bytes (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 226, 433
- F**
- fax_number (cybox.objects.whois_object.WhoisContact attribute), 189, 396
- File (class in cybox.objects.file_object), 92, 298
- file_alignment (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 217, 425
- file_attributes (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 255, 463
- file_attributes_list (cybox.objects.file_object.File attribute), 93, 299
- file_attributes_list (cybox.objects.win_file_object.WinFile attribute), 228, 435
- file_count (cybox.objects.archive_file_object.ArchiveFile attribute), 72, 277
- file_extension (cybox.objects.file_object.File attribute), 93, 299
- file_format (cybox.objects.file_object.File attribute), 93, 299
- file_handle (cybox.objects.win_filemapping_object.WinFileMapping attribute), 230, 437
- file_header (cybox.objects.win_executable_file_object.PEHeaders attribute), 214, 422
- file_name (cybox.objects.file_object.File attribute), 93, 299
- file_name (cybox.objects.process_object.ImageInfo attribute), 174, 380
- file_name (cybox.objects.win_executable_file_object.PEImports attribute), 215, 422
- file_path (cybox.objects.file_object.File attribute), 93, 300
- file_system_flag_list (cybox.objects.volume_object.Volume attribute), 188, 394
- file_system_offset (cybox.common.byterun.ByteRun attribute), 16, 33
- file_system_type (cybox.objects.volume_object.Volume attribute), 188, 395
- FileAttribute (class in cybox.objects.file_object), 95, 301
- filedescription (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 224, 431
- filename_accessed_time (cybox.objects.win_file_object.WinFile attribute), 228, 435
- filename_created_time (cybox.objects.win_file_object.WinFile attribute), 228, 435
- filename_modified_time (cybox.objects.win_file_object.WinFile attribute), 228, 435
- FilePath (class in cybox.objects.file_object), 95, 301
- FilePermissions (class in cybox.objects.file_object), 95, 301
- FileSystemFlagList (class in cybox.objects.volume_object), 187, 394
- fileversion (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 224, 431
- fin (cybox.objects.network_packet_object.TCPFlags attribute), 156, 362
- firmware_version (cybox.objects.device_object.Device attribute), 78, 284
- first_eight_bytes (cybox.objects.network_packet_object.ICMPv4ErrorMessage attribute), 128, 334
- first_run (cybox.objects.win_prefetch_object.WinPrefetch attribute), 243, 451
- flags (cybox.objects.dns_record_object.DNSRecord attribute), 84, 290
- flags (cybox.objects.network_packet_object.IPv4Header attribute), 138, 345
- flags (cybox.objects.win_task_object.WinTask attribute), 261, 469
- flatedecode_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 377
- Float (class in cybox.common.properties), 28, 46
- flow_label (cybox.objects.network_packet_object.IPv6Header attribute), 141, 348
- for_ (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296
- frag_reassembly_time_exceeded (cybox.objects.network_packet_object.ICMPv4TimeExceeded attribute), 131, 337
- Fragment (class in cybox.objects.network_packet_object), 123, 337

- 329
- fragment (cybox.objects.network_packet_object.Fragment attribute), 123, 329
- fragment (cybox.objects.network_packet_object.IPv6ExtHeader attribute), 141, 347
- fragment_header (cybox.objects.network_packet_object.Fragment attribute), 123, 330
- fragment_offset (cybox.objects.network_packet_object.FragmentHeader attribute), 123, 330
- fragment_offset (cybox.objects.network_packet_object.IPv4Header attribute), 138, 345
- fragment_reassem_time_exceeded (cybox.objects.network_packet_object.ICMPv6TimeExceeded attribute), 137, 344
- fragmentation_required (cybox.objects.network_packet_object.FragmentationRequired attribute), 124, 330
- fragmentation_required (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 332
- FragmentationRequired (class in cybox.objects.network_packet_object), 124, 330
- FragmentHeader (class in cybox.objects.network_packet_object), 123, 330
- free_space (cybox.objects.disk_object.Disk attribute), 79, 285
- Frequency (class in cybox.core.frequency), 56, 64
- frequency (cybox.core.action.Action attribute), 52, 60
- frequency (cybox.core.event.Event attribute), 55, 63
- from_ (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- from_ (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296
- from_ (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 308
- from_dict() (cybox.common.data_segment.DataSize static method), 19, 36
- from_dict() (cybox.common.datetimewithprecision.DateTimeWithPrecision class method), 20, 37
- from_dict() (cybox.common.datetimewithprecision.DateWithPrecision class method), 20, 37
- from_dict() (cybox.common.environment_variable.EnvironmentVariable static method), 21, 38
- from_dict() (cybox.common.object_properties.ObjectProperties class method), 26, 44
- from_dict() (cybox.common.object_properties.Property static method), 27, 44
- from_dict() (cybox.common.platform_specification.PlatformIdentifier static method), 27, 45
- from_dict() (cybox.common.platform_specification.PlatformSpecification class method), 27, 45
- from_dict() (cybox.common.platform_specification.PlatformSpecification static method), 27, 45
- from_dict() (cybox.common.structured_text.StructuredText class method), 29, 47
- from_dict() (cybox.common.tools.ToolInformation static method), 30, 48
- from_dict() (cybox.common.vocabs.VocabString class method), 32, 50
- from_dict() (cybox.core.action.ActionRelationship static method), 53, 61
- from_dict() (cybox.core.associated_object.AssociatedObject static method), 54, 62
- from_dict() (cybox.core.object.DomainSpecificObjectProperties static method), 56, 65
- from_dict() (cybox.core.object.Object static method), 57, 65
- from_dict() (cybox.core.object.RelatedObject static method), 57, 65
- from_dict() (cybox.core.observable.Observable static method), 58, 66
- from_dict() (cybox.core.observable.ObservableComposition static method), 58, 66
- from_dict() (cybox.core.observable.Observables static method), 58, 67
- from_dict() (cybox.objects.artifact_object.Artifact static method), 72, 279
- from_dict() (cybox.objects.artifact_object.Compression static method), 73, 279
- from_dict() (cybox.objects.artifact_object.Encoding static method), 73, 280
- from_dict() (cybox.objects.artifact_object.Encryption static method), 73, 280
- from_dict() (cybox.objects.file_object.FilePath static method), 95, 301
- from_list() (cybox.objects.win_executable_file_object.PEResourceList static method), 222, 429
- from_obj() (cybox.common.data_segment.DataSize static method), 20, 37
- from_obj() (cybox.common.datetimewithprecision.DateTimeWithPrecision class method), 20, 37
- from_obj() (cybox.common.datetimewithprecision.DateWithPrecision static method), 21, 38
- from_obj() (cybox.common.environment_variable.EnvironmentVariable class method), 26, 44
- from_obj() (cybox.common.object_properties.ObjectProperties static method), 27, 44
- from_obj() (cybox.common.object_properties.Property static method), 27, 45
- from_obj() (cybox.common.platform_specification.PlatformIdentifier static method), 27, 45
- from_obj() (cybox.common.platform_specification.PlatformSpecification static method), 29, 47
- from_obj() (cybox.common.structured_text.StructuredText class method), 29, 47
- from_obj() (cybox.common.tools.ToolInformation static method), 30, 48

- from_obj() (cybox.common.vocabs.VocabString class method), 32, 50
- from_obj() (cybox.core.action.ActionRelationship static method), 53, 61
- from_obj() (cybox.core.associated_object.AssociatedObject static method), 54, 62
- from_obj() (cybox.core.object.DomainSpecificObjectProperties static method), 56, 65
- from_obj() (cybox.core.object.Object static method), 57, 65
- from_obj() (cybox.core.object.RelatedObject static method), 57, 65
- from_obj() (cybox.core.observable.Observable static method), 58, 66
- from_obj() (cybox.core.observable.ObservableComposition static method), 58, 66
- from_obj() (cybox.core.observable.Observables static method), 58, 67
- from_obj() (cybox.objects.artifact_object.Artifact static method), 72, 279
- from_obj() (cybox.objects.artifact_object.Compression static method), 73, 279
- from_obj() (cybox.objects.artifact_object.Encoding static method), 73, 280
- from_obj() (cybox.objects.artifact_object.Encryption static method), 73, 280
- from_obj() (cybox.objects.file_object.FilePath static method), 95, 301
- full_control (cybox.objects.win_file_object.WindowsFilePermissions attribute), 229, 436
- full_name (cybox.objects.user_account_object.UserAccount attribute), 186, 393
- full_name (cybox.objects.win_computer_account_object.FullyQualifiedName attribute), 194, 401
- full_path (cybox.objects.file_object.File attribute), 94, 300
- fully_qualified_name (cybox.objects.win_computer_account_object.WinComputerAccount attribute), 196, 402
- FullyQualifiedName (class in cybox.objects.win_computer_account_object), 194, 401
- function_name (cybox.objects.api_object.API attribute), 71, 276
- function_name (cybox.objects.win_executable_file_object.PEExportedFunction attribute), 212, 419
- function_name (cybox.objects.win_executable_file_object.PEImportedFunction attribute), 216, 423
- Functions (class in cybox.common.extracted_features), 22, 39
- functions (cybox.common.extracted_features.ExtractedFeatures attribute), 22, 39
- fuzzy_hash_value (cybox.common.hashes.Hash attribute), 24, 41
- ## G
- gateway_address (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 366
- generation_time (cybox.objects.win_event_log_object.WinEventLog attribute), 203, 410
- get_class_for_object_type() (in module cybox.utils), 481
- get_object() (cybox.objects.artifact_object.Compression static method), 73, 279
- get_object() (cybox.objects.artifact_object.Encryption static method), 73, 280
- get_properties() (cybox.core.object.RelatedObject method), 57, 65
- global_flag_list (cybox.objects.win_system_object.WinSystem attribute), 253, 460
- global_ptr (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
- GlobalFlag (class in cybox.objects.win_system_object), 252, 459
- GlobalFlagList (class in cybox.objects.win_system_object), 253, 460
- Group (class in cybox.objects.user_account_object), 185, 392
- group_list (cybox.objects.user_account_object.UserAccount attribute), 186, 393
- group_list (cybox.objects.win_user_object.WinUser attribute), 265, 472
- group_name (cybox.objects.win_service_object.WinService attribute), 250, 458
- GroupList (class in cybox.objects.user_account_object), 185, 392
- GUI (class in cybox.objects.gui_object), 97, 303
- GUIDialogbox (class in cybox.objects.gui_dialogbox_object), 97, 303
- GUIWindow (class in cybox.objects.gui_window_object), 98, 304
- ## H
- handle (cybox.objects.as_object.AutonomousSystem attribute), 75, 281
- handle (cybox.objects.win_event_object.WinEvent attribute), 205, 412
- handle (cybox.objects.win_filemapping_object.WinFilemapping attribute), 230, 437
- handle (cybox.objects.win_hook_object.WinHook attribute), 232, 439
- handle (cybox.objects.win_mailslot_object.WinMailslot attribute), 236, 443
- handle (cybox.objects.win_mutex_object.WinMutex attribute), 239, 446
- handle (cybox.objects.win_pipe_object.WinPipe attribute), 241, 449
- handle (cybox.objects.win_semaphore_object.WinSemaphore attribute), 252, 457

- handle (cybox.objects.win_thread_object.WinThread attribute), 263, 470
- handle_list (cybox.objects.win_process_object.WinProcess attribute), 246, 454
- handle_list (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 248, 456
- hardware_addr_size (cybox.objects.network_packet_object.ARP attribute), 119, 326
- hardware_addr_type (cybox.objects.network_packet_object.ARP attribute), 119, 326
- Hash (class in cybox.common.hashes), 24, 41
- hashes (cybox.common.byterun.ByteRun attribute), 16, 33
- hashes (cybox.common.extracted_string.ExtractedString attribute), 23, 40
- hashes (cybox.objects.file_object.File attribute), 94, 300
- hashes (cybox.objects.memory_object.Memory attribute), 116, 322
- hashes (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 414
- hashes (cybox.objects.win_executable_file_object.PEFileHeader attribute), 213, 420
- hashes (cybox.objects.win_executable_file_object.PEHeader attribute), 215, 422
- hashes (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- hashes (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
- hashes (cybox.objects.win_file_object.Stream attribute), 227, 434
- hashes (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 444
- HashList (class in cybox.common.hashes), 24, 42
- HashName (class in cybox.common.vocabs), 32, 49
- header (cybox.objects.email_message_object.EmailMessage attribute), 89, 295
- header_ext_len (cybox.objects.network_packet_object.AuthenticationHeader attribute), 121, 327
- header_ext_len (cybox.objects.network_packet_object.RoutingHeader attribute), 154, 361
- header_hashes (cybox.objects.win_executable_file_object.PESection attribute), 222, 429
- header_length (cybox.objects.network_packet_object.IPv4Header attribute), 139, 345
- headers (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 226, 433
- height (cybox.objects.gui_object.GUI attribute), 97, 303
- hexadecimal_value (cybox.objects.win_system_object.GlobalFlag attribute), 252, 460
- HexBinary (class in cybox.common.properties), 28, 46
- hint (cybox.objects.win_executable_file_object.PEImportedFunction attribute), 216, 423
- hive (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 249, 456
- HiveKey (class in cybox.objects.win_system_restore_object), 254, 462
- home_directory (cybox.objects.user_account_object.UserAccount attribute), 186, 393
- hook_description (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 235, 440
- hooked (cybox.objects.win_kernel_object.SSDTEntry attribute), 234, 442
- hooked_function (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 235, 440
- hooked_module (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 235, 440
- hooking_address (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 235, 440
- hooking_function_name (cybox.objects.win_hook_object.WinHook attribute), 232, 439
- hooking_module (cybox.objects.win_hook_object.WinHook attribute), 232, 439
- hooking_module (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 236, 440
- hop_options (cybox.objects.network_packet_object.IPv6ExtHeader attribute), 141, 347
- hop_limit_exceeded (cybox.objects.network_packet_object.ICMPv6TimeExceeded attribute), 137, 344
- HostByIP (class in cybox.objects.network_packet_object), 124, 331
- host (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 308
- host_administratively_prohibited (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 332
- host_precedence_violation (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 333
- host_redirect (cybox.objects.network_packet_object.ICMPv4RedirectMessage attribute), 130, 337
- host_unreachable_for_tos (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 333
- HostField (class in cybox.objects.http_session_object), 111, 318
- Hostname (class in cybox.objects.hostname_object), 98, 304
- hostname (cybox.objects.socket_address_object.SocketAddress attribute), 178, 386

hostname	(cybox.objects.system_object.System attribute), 183, 390	HTTPResponseHeader	(class in cybox.objects.http_session_object), 105, 312
hostname_value	(cybox.objects.hostname_object.Hostname attribute), 98, 304	HTTPResponseHeaderFields	(class in cybox.objects.http_session_object), 106, 312
hstdderror	(cybox.objects.win_process_object.StartupInfo attribute), 245, 452	HTTPServerResponse	(class in cybox.objects.http_session_object), 110, 316
hstdinput	(cybox.objects.win_process_object.StartupInfo attribute), 245, 453	HTTPSession	(class in cybox.objects.http_session_object), 111, 317
hstdoutput	(cybox.objects.win_process_object.StartupInfo attribute), 245, 453	HTTPStatusLine	(class in cybox.objects.http_session_object), 111, 317
http_client_request	(cybox.objects.http_session_object.HTTPRequestResponse attribute), 105, 311	icmpv4	(cybox.objects.network_packet_object.InternetLayer attribute), 143, 350
http_message_body	(cybox.objects.http_session_object.HTTPClientRequest attribute), 99, 305	icmpv4_header	(cybox.objects.network_packet_object.ICMPv4Packet attribute), 130, 336
http_message_body	(cybox.objects.http_session_object.HTTPServerResponse attribute), 110, 317	ICMPv4AddressMaskReply	(class in cybox.objects.network_packet_object), 124, 331
http_method	(cybox.objects.http_session_object.HTTPRequestLine attribute), 104, 311	ICMPv4AddressMaskRequest	(class in cybox.objects.network_packet_object), 125, 331
http_provisional_server_response	(cybox.objects.http_session_object.HTTPRequestResponse attribute), 105, 311	ICMPv4DestinationUnreachable	(class in cybox.objects.network_packet_object), 125, 332
http_request_header	(cybox.objects.http_session_object.HTTPClientRequest attribute), 99, 305	ICMPv4EchoReply	(class in cybox.objects.network_packet_object), 127, 333
http_request_line	(cybox.objects.http_session_object.HTTPClientRequest attribute), 99, 305	ICMPv4EchoRequest	(class in cybox.objects.network_packet_object), 127, 333
http_request_response	(cybox.objects.http_session_object.HTTPSession attribute), 111, 317	ICMPv4ErrorMessage	(class in cybox.objects.network_packet_object), 127, 334
http_response_header	(cybox.objects.http_session_object.HTTPServerResponse attribute), 110, 317	ICMPv4ErrorMessageContent	(class in cybox.objects.network_packet_object), 128, 334
http_server_response	(cybox.objects.http_session_object.HTTPRequestResponse attribute), 105, 311	ICMPv4Header	(class in cybox.objects.network_packet_object), 128, 335
http_session	(cybox.objects.network_connection_object.Layer7Connections attribute), 118, 324	ICMPv4InfoMessage	(class in cybox.objects.network_packet_object), 129, 336
http_status_line	(cybox.objects.http_session_object.HTTPServerResponse attribute), 111, 317	ICMPv4Packet	(class in cybox.objects.network_packet_object), 129, 336
HTTPClientRequest	(class in cybox.objects.http_session_object), 99, 305	ICMPv4RedirectMessage	(class in cybox.objects.network_packet_object), 130, 336
HTTPMessage	(class in cybox.objects.http_session_object), 99, 305	ICMPv4SourceQuench	(class in cybox.objects.network_packet_object), 131, 336
HTTPRequestHeader	(class in cybox.objects.http_session_object), 99, 306		
HTTPRequestHeaderFields	(class in cybox.objects.http_session_object), 100, 306		
HTTPRequestLine	(class in cybox.objects.http_session_object), 104, 310		
HTTPRequestResponse	(class in cybox.objects.http_session_object), 105, 311		

- 337
- ICMPv4TimeExceeded (class in cy-box.objects.network_packet_object), 337
- ICMPv4TimestampReply (class in cy-box.objects.network_packet_object), 338
- ICMPv4TimestampRequest (class in cy-box.objects.network_packet_object), 338
- ICMPv4Traceroute (class in cy-box.objects.network_packet_object), 339
- icmpv6 (cybox.objects.network_packet_object.InternetLayer attribute), 143, 350
- icmpv6_header (cybox.objects.network_packet_object.ICMPv6Packet attribute), 136, 342
- icmpv6_header (cybox.objects.network_packet_object.NDP attribute), 145, 351
- ICMPv6DestinationUnreachable (class in cy-box.objects.network_packet_object), 339
- ICMPv6EchoReply (class in cy-box.objects.network_packet_object), 340
- ICMPv6EchoRequest (class in cy-box.objects.network_packet_object), 340
- ICMPv6ErrorMessage (class in cy-box.objects.network_packet_object), 341
- ICMPv6Header (class in cy-box.objects.network_packet_object), 341
- ICMPv6InfoMessage (class in cy-box.objects.network_packet_object), 341
- ICMPv6InfoMessageContent (class in cy-box.objects.network_packet_object), 342
- ICMPv6Packet (class in cy-box.objects.network_packet_object), 342
- ICMPv6PacketTooBig (class in cy-box.objects.network_packet_object), 342
- ICMPv6ParameterProblem (class in cy-box.objects.network_packet_object), 343
- ICMPv6TimeExceeded (class in cy-box.objects.network_packet_object), 343
- IComHandlerAction (class in cy-box.objects.win_task_object), 257, 464
- icomhandleraction (cybox.objects.win_task_object.TaskAction attribute), 258, 466
- id_ (cybox.common.data_segment.DataSegment attribute), 18, 35
- id_ (cybox.core.action.Action attribute), 52, 60
- id_ (cybox.core.event.Event attribute), 55, 63
- id_ (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296
- id_ (cybox.objects.win_handle_object.WinHandle attribute), 231, 438
- identification (cybox.objects.network_packet_object.FragmentHeader attribute), 124, 330
- identification (cybox.objects.network_packet_object.IPv4Header attribute), 139, 345
- identifier (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 132, 339
- idref (cybox.core.action.Action attribute), 52, 60
- idref (cybox.core.event.Event attribute), 55, 63
- idt (cybox.objects.win_kernel_object.WinKernel attribute), 234, 443
- IDTEntry (class in cybox.objects.win_kernel_object), 233, 441
- IDTEntryList (class in cybox.objects.win_kernel_object), 233, 442
- iemailaction (cybox.objects.win_task_object.TaskAction attribute), 258, 466
- IExecAction (class in cybox.objects.win_task_object), 257, 464
- iexecaction (cybox.objects.win_task_object.TaskAction attribute), 259, 466
- if_match (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 308
- if_modified_since (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 308
- if_none_match (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 308
- if_range (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 309
- if_unmodified_since (cy-box.objects.http_session_object.HTTPRequestHeaderFields attribute), 102, 309
- image_base (cybox.objects.win_driver_object.WinDriver attribute), 199, 406
- image_base (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- image_file_format (cybox.objects.image_file_object.ImageFile attribute), 112, 319
- image_height (cybox.objects.image_file_object.ImageFile attribute), 112, 319
- image_info (cybox.objects.process_object.Process attribute), 175, 382
- image_is_compressed (cy-box.objects.image_file_object.ImageFile attribute), 113, 319

- image_offset (cybox.common.byterun.ByteRun attribute), 16, 33
- image_size (cybox.objects.win_driver_object.WinDriver attribute), 199, 406
- image_width (cybox.objects.image_file_object.ImageFile attribute), 113, 319
- ImageFile (class in cybox.objects.image_file_object), 112, 318
- ImageInfo (class in cybox.objects.process_object), 173, 380
- import_address_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
- import_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
- imported_functions (cybox.objects.win_executable_file_object.PEImport attribute), 215, 422
- Imports (class in cybox.common.extracted_features), 22, 40
- imports (cybox.common.extracted_features.ExtractedFeatures attribute), 22, 39
- imports (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 226, 433
- in_buffer_size (cybox.objects.win_pipe_object.WinPipe attribute), 241, 449
- in_reply_to (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- index (cybox.objects.win_event_log_object.WinEventLog attribute), 203, 410
- info_msg (cybox.objects.network_packet_object.ICMPv4Packet attribute), 130, 336
- info_msg (cybox.objects.network_packet_object.ICMPv6Packet attribute), 136, 342
- info_msg_content (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 129, 335
- info_msg_content (cybox.objects.network_packet_object.ICMPv6InfoMessage attribute), 135, 342
- information_source_type (cybox.common.measuresource.MeasureSource attribute), 25, 42
- InformationSourceType (class in cybox.common.vocabs), 32, 49
- inhibit_any_policy (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 271, 479
- initially_visible (cybox.objects.win_executable_file_object.PEImport attribute), 215, 422
- install_date (cybox.objects.system_object.OS attribute), 182, 389
- instance (cybox.common.measuresource.MeasureSource attribute), 25, 43
- Integer (class in cybox.common.properties), 28, 46
- interface (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 366
- internalname (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 224, 431
- internet_layer (cybox.objects.network_packet_object.NetworkPacket attribute), 149, 356
- internet_layer_type (cybox.objects.network_packet_object.TypeLength attribute), 158, 365
- InternetLayer (class in cybox.objects.network_packet_object), 143, 350
- InvalidMethodError, 481, 482
- InvalidTypePacket (cybox.objects.network_packet_object.ICMPv6ErrorMessage attribute), 134, 341
- ip_addr_prefix (cybox.objects.network_packet_object.Prefix attribute), 151, 358
- ip_address (cybox.objects.arp_cache_object.ARPEntry attribute), 76, 278
- ip_address (cybox.objects.dns_record_object.DNSRecord attribute), 85, 290
- ip_address (cybox.objects.network_packet_object.ICMPv4RedirectMessage attribute), 130, 337
- ip_address (cybox.objects.socket_address_object.SocketAddress attribute), 178, 386
- ip_address (cybox.objects.whois_object.WhoisEntry attribute), 190, 397
- ip_gateway_list (cybox.objects.system_object.NetworkInterface attribute), 182, 388
- ip_header (cybox.objects.network_packet_object.ICMPv4ErrorMessageCorrelation attribute), 128, 334
- ip_list (cybox.objects.system_object.NetworkInterface attribute), 182, 388
- ip_multicast_if (cybox.objects.network_socket_object.SocketOptions attribute), 164, 371
- ip_multicast_if2 (cybox.objects.network_socket_object.SocketOptions attribute), 164, 371
- ip_multicast_loop (cybox.objects.network_socket_object.SocketOptions attribute), 164, 371
- ip_tos (cybox.objects.network_socket_object.SocketOptions attribute), 164, 371
- ip_version (cybox.objects.network_packet_object.IPv4Header attribute), 139, 345
- ip_version (cybox.objects.network_packet_object.IPv6Header attribute), 142, 348
- IPGatewayList (class in cybox.objects.system_object), 180, 387
- ipheader_and_data (cybox.objects.network_packet_object.NDPRedirectedHeader attribute), 147, 354
- IPIInfo (class in cybox.objects.system_object), 181, 387
- IPIInfoList (class in cybox.objects.system_object), 181, 388

ipv4 (cybox.objects.network_packet_object.InternetLayer attribute), 144, 350
 ipv4_header (cybox.objects.network_packet_object.IPv4Packet attribute), 140, 347
 IPv4Flags (class in cy-box.objects.network_packet_object), 137, 344
 IPv4Header (class in cy-box.objects.network_packet_object), 138, 344
 IPv4Option (class in cy-box.objects.network_packet_object), 140, 346
 IPv4Packet (class in cy-box.objects.network_packet_object), 140, 346
 ipv6 (cybox.objects.network_packet_object.InternetLayer attribute), 144, 350
 ipv6_addr (cybox.objects.network_packet_object.Prefix attribute), 151, 358
 ipv6_header (cybox.objects.network_packet_object.IPv6Packet attribute), 143, 350
 IPv6ExtHeader (class in cy-box.objects.network_packet_object), 140, 347
 IPv6Header (class in cy-box.objects.network_packet_object), 141, 348
 IPv6Option (class in cy-box.objects.network_packet_object), 142, 349
 IPv6Packet (class in cy-box.objects.network_packet_object), 143, 349
 irp_mj_cleanup (cybox.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_close (cybox.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_create (cybox.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_create_mailslot (cy-box.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_create_named_pipe (cy-box.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_device_change (cy-box.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_device_control (cy-box.objects.win_driver_object.WinDriver attribute), 199, 406
 irp_mj_directory_control (cy-box.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_file_system_control (cy-box.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_flush_buffers (cy-box.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_internal_device_control (cy-box.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_lock_control (cy-box.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_pnp (cybox.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_power (cybox.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_query_ea (cybox.objects.win_driver_object.WinDriver attribute), 200, 407
 irp_mj_query_information (cy-box.objects.win_driver_object.WinDriver attribute), 200, 408
 irp_mj_query_quota (cy-box.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_query_security (cy-box.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_query_volume_information (cy-box.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_read (cybox.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_set_ea (cybox.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_set_information (cy-box.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_set_quota (cybox.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_set_security (cy-box.objects.win_driver_object.WinDriver attribute), 201, 408
 irp_mj_set_volume_information (cy-box.objects.win_driver_object.WinDriver attribute), 202, 409
 irp_mj_shutdown (cybox.objects.win_driver_object.WinDriver attribute), 202, 409
 irp_mj_system_control (cy-box.objects.win_driver_object.WinDriver attribute), 202, 409
 irp_mj_write (cybox.objects.win_driver_object.WinDriver attribute), 202, 409

- is_autoconfigure_address (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 366
- is_autoconfigure_address (cybox.objects.network_route_object.NetRoute attribute), 162, 368
- is_blocking (cybox.objects.network_socket_object.NetworkSocket attribute), 163, 370
- is_destination (cybox.objects.address_object.Address attribute), 69, 275
- is_domain_name (cybox.objects.hostname_object.Hostname attribute), 98, 305
- is_immortal (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 367
- is_immortal (cybox.objects.network_route_object.NetRoute attribute), 162, 368
- is_injected (cybox.objects.memory_object.Memory attribute), 116, 322
- is_injected (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 444
- is_ipv6 (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 367
- is_ipv6 (cybox.objects.network_route_object.NetRoute attribute), 162, 368
- is_listening (cybox.objects.network_socket_object.NetworkSocket attribute), 163, 370
- is_loopback (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 367
- is_loopback (cybox.objects.network_route_object.NetRoute attribute), 162, 368
- is_mapped (cybox.objects.memory_object.Memory attribute), 116, 322
- is_mapped (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 445
- is_masqueraded (cybox.objects.file_object.File attribute), 94, 300
- is_mounted (cybox.objects.volume_object.Volume attribute), 188, 395
- is_packed (cybox.objects.file_object.File attribute), 94, 300
- is_plain() (cybox.common.data_segment.DataSize method), 19, 36
- is_plain() (cybox.common.object_properties.Property method), 27, 44
- is_plain() (cybox.common.properties.BaseProperty method), 28, 45
- is_plain() (cybox.common.structured_text.StructuredText method), 29, 47
- is_plain() (cybox.common.vocabs.VocabString method), 32, 50
- is_plain() (cybox.objects.file_object.FilePath method), 95, 301
- is_premium (cybox.objects.sms_message_object.SMSMessage attribute), 179, 385
- is_protected (cybox.objects.memory_object.Memory attribute), 116, 323
- is_protected (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 237, 445
- is_publish (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 367
- is_publish (cybox.objects.network_route_object.NetRoute attribute), 162, 369
- is_sequence() (in module cybox.utils), 481
- is_source (cybox.objects.address_object.Address attribute), 69, 275
- is_spoofed (cybox.objects.address_object.Address attribute), 70, 275
- is_volatile (cybox.objects.memory_object.Memory attribute), 116, 323
- is_volatile (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 445
- IShowMessageAction (class in cybox.objects.win_task_object.TaskAction), 258, 465
- ishowmessageaction (cybox.objects.win_task_object.TaskAction attribute), 259, 466
- issuer (cybox.objects.x509_certificate_object.X509Certificate attribute), 268, 475
- socket_alternative_name (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 271, 479
- istypeof() (cybox.objects.address_object.EmailAddress class method), 70, 276
- ## J
- javascript_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 378
- jbig2decode_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 378
- js_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 378
- ## K
- Kerberos (class in cybox.objects.win_computer_account_object), 194, 401
- kerberos (cybox.objects.win_computer_account_object.WinComputerAccount attribute), 196, 403
- KerberosDelegation (class in cybox.objects.win_computer_account_object), 194, 401
- KerberosService (class in cybox.objects.win_computer_account_object), 195, 402
- kernel_time (cybox.objects.process_object.Process attribute), 175, 382

- key (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 249, 456
- key_usage (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 271, 479
- keyword_counts (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 169, 376
- keyword_test() (cybox.objects.win_executable_file_object.PEVersionInfo attribute), 225, 432
- Keywords (class in cybox.core.observable), 58, 66
- keywords (cybox.objects.pdf_file_object.PDFDocumentInformationDictionary attribute), 168, 374
- ## L
- langid (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
- language (cybox.common.extracted_string.ExtractedString attribute), 23, 41
- language (cybox.objects.product_object.Product attribute), 176, 383
- language (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
- last_accessed_time (cybox.objects.account_object.Account attribute), 68, 273
- last_login (cybox.objects.user_account_object.UserAccount attribute), 186, 393
- last_modified (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- last_run (cybox.objects.win_prefetch_object.WinPrefetch attribute), 243, 451
- launch_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 171, 378
- layer3_protocol (cybox.objects.network_connection_object.NetworkConnection attribute), 118, 325
- layer4_protocol (cybox.objects.network_connection_object.NetworkConnection attribute), 118, 325
- layer4_protocol (cybox.objects.port_object.Port attribute), 173, 380
- layer7_connections (cybox.objects.network_connection_object.NetworkConnection attribute), 119, 325
- layer7_protocol (cybox.objects.network_connection_object.NetworkConnection attribute), 119, 325
- Layer7Connections (class in cybox.objects.network_connection_object), 117, 324
- legalcopyright (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
- legaltrademarks (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
- length (cybox.common.byterun.ByteRun attribute), 16, 33
- length (cybox.common.extracted_string.ExtractedString attribute), 23, 41
- length (cybox.objects.http_session_object.HTTPMessage attribute), 99, 305
- length (cybox.objects.network_packet_object.NDPLinkAddress attribute), 146, 352
- length (cybox.objects.network_packet_object.NDPMTU attribute), 146, 352
- length (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 146, 353
- length (cybox.objects.network_packet_object.NDPRedirectedHeader attribute), 147, 354
- length (cybox.objects.network_packet_object.TypeLength attribute), 158, 365
- length (cybox.objects.network_packet_object.UDPHeader attribute), 159, 366
- length (cybox.objects.sms_message_object.SMSMessage attribute), 179, 385
- Library (class in cybox.objects.library_object), 113, 319
- Link (class in cybox.objects.link_object), 114, 320
- link (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- link_flag (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 146, 353
- link_layer (cybox.objects.network_packet_object.NetworkPacket attribute), 149, 356
- link_layer_mac_addr (cybox.objects.network_packet_object.NDPLinkAddress attribute), 146, 352
- linker_name (cybox.objects.win_executable_file_object.PEBuildInformation attribute), 210, 418
- linker_version (cybox.objects.win_executable_file_object.PEBuildInformation attribute), 211, 418
- LinkLayer (class in cybox.objects.network_packet_object), 144, 350
- LinkReference (class in cybox.objects.email_message_object), 89, 295
- Links (class in cybox.objects.email_message_object), 89, 296
- links (cybox.objects.email_message_object.EmailMessage attribute), 89, 295
- LinuxPackage (class in cybox.objects.linux_package_object), 114, 320
- LinuxPackageArchitecture (class in cybox.objects.linux_package_object), 115, 320
- load_config_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
- loader_flags (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- local_address (cybox.objects.network_socket_object.NetworkSocket attribute), 163, 370

- local_path (cybox.objects.win_network_share_object.WinNetworkShare attribute), 241, 448
- local_time (cybox.objects.system_object.System attribute), 183, 390
- location (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- locked_out (cybox.objects.account_object.Account attribute), 68, 273
- log (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
- logical_protocols (cybox.objects.network_packet_object.LinkLayer attribute), 144, 350
- LogicalProtocol (class in cybox.objects.network_packet_object), 144, 351
- Long (class in cybox.common.properties), 28, 46
- lookup_class() (cybox.common.vocabs.VocabString static method), 32, 50
- lookup_date (cybox.objects.whois_object.WhoisEntry attribute), 190, 397
- lpdesktop (cybox.objects.win_process_object.StartupInfo attribute), 245, 453
- lptitle (cybox.objects.win_process_object.StartupInfo attribute), 246, 453
- lzwdecode_count (cybox.objects.pdf_file_object.PDFKeywords attribute), 171, 378
- Manufacturer (cybox.objects.device_object.Device attribute), 79, 284
- max (cybox.objects.win_executable_file_object.Entropy attribute), 210, 417
- max_forwards (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 309
- max_instances (cybox.objects.win_pipe_object.WinPipe attribute), 242, 449
- max_message_size (cybox.objects.win_mailslot_object.WinMailslot attribute), 236, 443
- max_run_time (cybox.objects.win_task_object.WinTask attribute), 261, 469
- max_uses (cybox.objects.win_network_share_object.WinNetworkShare attribute), 241, 448
- maximum_count (cybox.objects.semaphore_object.Semaphore attribute), 177, 384
- maximum_size (cybox.objects.win_filemapping_object.WinFilemapping attribute), 230, 437
- MeasureSource (class in cybox.common.measuresource), 24, 42
- Memory (class in cybox.objects.memory_object), 116, 322
- memory_source (cybox.objects.memory_object.Memory attribute), 116, 323
- memory_source (cybox.objects.win_memory_page_region_object.WinMemory attribute), 238, 445
- MemorySectionList (class in cybox.objects.win_process_object), 244, 451
- message (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
- message_body (cybox.objects.http_session_object.HTTPMessage attribute), 99, 306
- message_id (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- metadata (cybox.objects.pdf_file_object.PDFFile attribute), 169, 375
- metric (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 160, 367
- mime_version (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- min (cybox.objects.win_executable_file_object.Entropy attribute), 210, 417
- minor_image_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 426
- minor_linker_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
- minor_os_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
- m_flag (cybox.objects.network_packet_object.FragmentHeader attribute), 124, 330
- mac (cybox.objects.system_object.NetworkInterface attribute), 182, 389
- machine (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
- machine (cybox.objects.win_executable_file_object.PEFileHeader attribute), 213, 420
- magic (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- magic_number (cybox.objects.file_object.File attribute), 94, 300
- major_image_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- major_linker_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- major_os_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- major_subsystem_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 218, 425
- make_class_ref() (in module cybox.utils.autoentity), 480, 481

- minor_subsystem_version (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
- moddate (cybox.objects.pdf_file_object.PDFDocumentInformationDictionary attribute), 168, 374
- model (cybox.objects.device_object.Device attribute), 79, 285
- modified_date (cybox.objects.account_object.Account attribute), 68, 273
- modified_time (cybox.objects.file_object.File attribute), 94, 300
- modified_time (cybox.objects.win_registry_key_object.WindowsRegistryKey attribute), 249, 456
- modify (cybox.objects.win_file_object.WindowsFilePermissions attribute), 229, 436
- modulus (cybox.objects.x509_certificate_object.RSAPublicKey attribute), 267, 474
- more_fragments (cybox.objects.network_packet_object.IPv4Fragment attribute), 138, 344
- most_recent_run_time (cybox.objects.win_task_object.WinTask attribute), 261, 469
- mount_point (cybox.objects.disk_partition_object.DiskPartition attribute), 80, 286
- mtu (cybox.objects.network_packet_object.ICMPv6PacketTooBig attribute), 136, 343
- mtu (cybox.objects.network_packet_object.NDPMTU attribute), 146, 352
- mtu (cybox.objects.network_packet_object.RouterAdvertisementOptions attribute), 153, 360
- Mutex (class in cybox.objects.mutex_object), 117, 323
- ## N
- Name (class in cybox.common.properties), 28, 46
- name (cybox.common.contributor.Contributor attribute), 17, 34
- name (cybox.common.measuresource.MeasureSource attribute), 25, 43
- name (cybox.core.action.Action attribute), 52, 60
- name (cybox.objects.as_object.AutonomousSystem attribute), 75, 281
- name (cybox.objects.file_object.EntryPointSignature attribute), 91, 297
- name (cybox.objects.file_object.Packer attribute), 96, 302
- name (cybox.objects.library_object.Library attribute), 113, 319
- name (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 321
- name (cybox.objects.memory_object.Memory attribute), 116, 323
- name (cybox.objects.mutex_object.Mutex attribute), 117, 324
- name (cybox.objects.network_subnet_object.NetworkSubnet attribute), 167, 373
- name (cybox.objects.pipe_object.Pipe attribute), 173, 379
- name (cybox.objects.process_object.Process attribute), 175, 382
- name (cybox.objects.semaphore_object.Semaphore attribute), 177, 384
- name (cybox.objects.volume_object.Volume attribute), 188, 395
- name (cybox.objects.whois_object.WhoisContact attribute), 189, 396
- name (cybox.objects.whois_object.WhoisRegistrar attribute), 193, 400
- name (cybox.objects.win_computer_account_object.KerberosService attribute), 195, 402
- name (cybox.objects.win_event_object.WinEvent attribute), 205, 412
- name (cybox.objects.win_executable_file_object.PEExports attribute), 212, 420
- name (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
- name (cybox.objects.win_executable_file_object.PESectionHeaderStruct attribute), 223, 430
- name (cybox.objects.win_file_object.Stream attribute), 227, 434
- name (cybox.objects.win_filemapping_object.WinFilemapping attribute), 230, 437
- name (cybox.objects.win_handle_object.WinHandle attribute), 231, 438
- name (cybox.objects.win_mailslot_object.WinMailslot attribute), 236, 443
- name (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 445
- name (cybox.objects.win_registry_key_object.RegistryValue attribute), 248, 455
- name (cybox.objects.win_task_object.WinTask attribute), 261, 469
- name (cybox.objects.win_user_object.WinGroup attribute), 264, 472
- name (cybox.objects.win_waitable_timer_object.WinWaitableTimer attribute), 266, 474
- name_constraints (cybox.objects.x509_certificate_object.X509V3Extension attribute), 271, 479
- named (cybox.objects.mutex_object.Mutex attribute), 117, 324
- named (cybox.objects.pipe_object.Pipe attribute), 173, 379
- named (cybox.objects.semaphore_object.Semaphore attribute), 178, 384
- nameservers (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
- naming_system (cybox.objects.hostname_object.Hostname attribute), 98, 305
- NDP (class in cybox.objects.network_packet_object), 145, 351

ndp (cybox.objects.network_packet_object.LogicalProtocol network_interface (cybox.objects.arp_cache_object.ARPCacheEntry attribute), 144, 351

NDPLinkAddr (class in cy-box.objects.network_packet_object), 145, 352

NDPMTU (class in cy-box.objects.network_packet_object), 146, 352

NDPPrefixInfo (class in cy-box.objects.network_packet_object), 146, 353

NDPRedirectedHeader (class in cy-box.objects.network_packet_object), 147, 354

neighbor_advertisement (cy-box.objects.network_packet_object.NDP attribute), 145, 351

neighbor_solicitation (cy-box.objects.network_packet_object.NDP attribute), 145, 351

NeighborAdvertisement (class in cy-box.objects.network_packet_object), 147, 354

NeighborOptions (class in cy-box.objects.network_packet_object), 148, 355

NeighborSolicitation (class in cy-box.objects.network_packet_object), 148, 355

NeighborSolicitationOptions (class in cy-box.objects.network_packet_object), 149, 355

netbeui_name (cybox.objects.win_computer_account_object.FullyQualifiedName attribute), 194, 401

netbios_name (cybox.objects.win_system_object.WinSystem attribute), 253, 460

netmask (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 367

netname (cybox.objects.win_network_share_object.WinNetworkShare attribute), 241, 448

NetRoute (class in cybox.objects.network_route_object), 161, 368

netscape_certificate_type (cy-box.objects.x509_certificate_object.X509NonStandardExtension attribute), 270, 477

netscape_comment (cy-box.objects.x509_certificate_object.X509NonStandardExtension attribute), 270, 478

network_administratively_prohibited (cy-box.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 126, 333

network_connection_list (cy-box.objects.process_object.Process attribute), 175, 382

network_interface (cybox.objects.arp_cache_object.ARPCacheEntry attribute), 76, 278

network_interface_list (cy-box.objects.system_object.System attribute), 184, 390

network_redirect (cybox.objects.network_packet_object.ICMPv4RedirectM attribute), 130, 337

network_route_entries (cy-box.objects.network_route_object.NetRoute attribute), 162, 369

network_unreachable_for_tos (cy-box.objects.network_packet_object.ICMPv4DestinationUnreacha attribute), 126, 333

NetworkConnection (class in cy-box.objects.network_connection_object), 118, 324

NetworkConnectionList (class in cy-box.objects.process_object), 174, 381

NetworkInterface (class in cybox.objects.system_object), 181, 388

NetworkInterfaceList (class in cy-box.objects.system_object), 182, 389

NetworkPacket (class in cy-box.objects.network_packet_object), 149, 355

NetworkRouteEntries (class in cy-box.objects.network_route_object), 163, 369

NetworkRouteEntry (class in cy-box.objects.network_route_entry_object), 159, 366

NetworkSocket (class in cy-box.objects.network_socket_object), 163, 369

NetworkSubnet (class in cy-box.objects.network_subnet_object), 166, 373

new_file_name (cybox.objects.win_system_restore_object.WinSystemResto attribute), 255, 463

next_header (cybox.objects.network_packet_object.AuthenticationHeader attribute), 121, 327

next_header (cybox.objects.network_packet_object.EncapsulatingSecurityP attribute), 121, 328

next_header (cybox.objects.network_packet_object.FragmentHeader attribute), 124, 330

next_header (cybox.objects.network_packet_object.IPv6Header attribute), 142, 348

next_header (cybox.objects.network_packet_object.Routing attribute), 154, 361

next_header (cybox.objects.network_packet_object.FragmentationRequir attribute), 124, 331

next_run_time (cybox.objects.win_task_object.WinTask attribute), 262, 469

- nl_route_origin (cybox.objects.win_network_route_entry_object.WinNetworkRouteEntry attribute), 239, 446
- nl_route_protocol (cybox.objects.win_network_route_entry_object.WinNetworkRouteEntry attribute), 239, 447
- no_route (cybox.objects.network_packet_object.ICMPv6DestinationUnreachable attribute), 134, 340
- non_obfuscated_count (cybox.objects.pdf_file_object.PDFKeywordCount attribute), 170, 376
- non_standard_extensions (cybox.objects.x509_certificate_object.X509Certificate attribute), 268, 476
- NonNegativeInteger (class in cybox.common.properties), 29, 46
- normalize_to_xml() (in module cybox.utils), 481
- normalized_function_name (cybox.objects.api_object.API attribute), 71, 276
- not_after (cybox.objects.x509_certificate_object.Validity attribute), 268, 475
- not_before (cybox.objects.x509_certificate_object.Validity attribute), 268, 475
- ns (cybox.objects.network_packet_object.TCPFlags attribute), 156, 362
- number (cybox.objects.as_object.AutonomousSystem attribute), 75, 282
- number_of_addresses (cybox.objects.win_executable_file_object.PEExportTable attribute), 213, 420
- number_of_cross_reference_tables (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 169, 376
- number_of_functions (cybox.objects.win_executable_file_object.PEExportTable attribute), 213, 420
- number_of_indirect_objects (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 169, 376
- number_of_ip_addresses (cybox.objects.network_subnet_object.NetworkSubnet attribute), 167, 373
- number_of_linenumbers (cybox.objects.win_executable_file_object.PESectionHeaderStruct attribute), 223, 430
- number_of_names (cybox.objects.win_executable_file_object.PEExportTable attribute), 213, 420
- number_of_relocations (cybox.objects.win_executable_file_object.PESectionHeaderStruct attribute), 223, 430
- number_of_rva_and_sizes (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
- number_of_sections (cybox.objects.win_executable_file_object.PEFileHeader attribute), 239, 446
- number_of_services (cybox.objects.win_network_route_entry_object.WinNetworkRouteEntry attribute), 239, 446
- number_of_trailers (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 169, 376
- number_subkeys (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 249, 456
- number_values (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 249, 456
- Object (class in cybox.core.object), 57, 65
- object_address (cybox.objects.win_handle_object.WinHandle attribute), 231, 438
- object_reference (cybox.common.object_properties.ObjectProperties attribute), 26, 44
- ObjectProperties (class in cybox.common.object_properties), 26, 44
- ObjectRelationship (class in cybox.common.vocabs), 32, 50
- ObjectState (class in cybox.common.vocabs), 32, 50
- objstm_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 172, 378
- Observable (class in cybox.core.observable), 58, 66
- ObservableComposition (class in cybox.core.observable), 58, 66
- Observables (class in cybox.core.observable), 58, 66
- observation_method (cybox.core.event.Event attribute), 55, 63
- octet (cybox.objects.network_packet_object.Pad1 attribute), 150, 357
- octet (cybox.objects.network_packet_object.PadN attribute), 150, 357
- offset (cybox.common.byterun.ByteRun attribute), 16, 34
- offset (cybox.common.data_segment.DataSegment attribute), 18, 36
- offset_high (cybox.objects.win_kernel_object.IDTEntry attribute), 233, 441
- offset_low (cybox.objects.win_kernel_object.IDTEntry attribute), 233, 441
- offset_module (cybox.objects.win_kernel_object.IDTEntry attribute), 233, 441
- old_authority_key_identifier (cybox.objects.x509_certificate_object.X509NonStandardExtensions attribute), 270, 478
- old_primary_key_attributes (cybox.objects.x509_certificate_object.X509NonStandardExtensions attribute), 270, 478

- attribute), 270, 478
- op_type (cybox.objects.network_packet_object.ARP attribute), 119, 326
- opcodes (cybox.objects.file_object.EPJumpCode attribute), 91, 297
- open_handle_list (cybox.objects.win_system_object.WinSystem attribute), 253, 461
- open_mode (cybox.objects.win_pipe_object.WinPipe attribute), 242, 449
- openaction_count (cybox.objects.pdf_file_object.PDFKeywordCountsbox.objects.win_system_restore_object.WinSystemRestore attribute), 172, 378
- optimized (cybox.objects.pdf_file_object.PDFFileMetadata attribute), 170, 376
- option (cybox.objects.network_packet_object.IPv4Header attribute), 139, 345
- option (cybox.objects.network_packet_object.IPv4Option attribute), 140, 346
- option_byte (cybox.objects.network_packet_object.IPv6Option attribute), 143, 349
- option_data (cybox.objects.network_packet_object.PadN attribute), 151, 357
- option_data_len (cybox.objects.network_packet_object.OptionData attribute), 150, 356
- option_data_length (cybox.objects.network_packet_object.PadN attribute), 151, 357
- option_type (cybox.objects.network_packet_object.OptionData attribute), 150, 356
- optional_header (cybox.objects.win_executable_file_object.PEHeader attribute), 215, 422
- OptionData (class in cybox.objects.network_packet_object), 149, 356
- options (cybox.objects.network_packet_object.NeighborAdvertisement attribute), 148, 354
- options (cybox.objects.network_packet_object.NeighborSolicitation attribute), 148, 355
- options (cybox.objects.network_packet_object.Redirect attribute), 152, 358
- options (cybox.objects.network_packet_object.RouterAdvertisement attribute), 153, 359
- options (cybox.objects.network_packet_object.RouterSolicitation attribute), 154, 360
- options (cybox.objects.network_packet_object.TCP attribute), 155, 362
- options (cybox.objects.network_socket_object.NetworkSocket attribute), 163, 370
- ordinal (cybox.objects.win_executable_file_object.PEExportedFunction attribute), 212, 419
- ordinal (cybox.objects.win_executable_file_object.PEImportedFunction attribute), 216, 423
- ordinal_position (cybox.core.action.Action attribute), 52, 60
- ordinal_position (cybox.objects.http_session_object.HTTPRequestResponse attribute), 105, 311
- organization (cybox.common.contributor.Contributor attribute), 17, 34
- organization (cybox.objects.whois_object.WhoisContact attribute), 189, 396
- origin (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 367
- original_file_name (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 463
- original_short_file_name (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 463
- originalfilename (cybox.objects.win_executable_file_object.PEVersionInfo attribute), 225, 432
- originate_timestamp (cybox.objects.network_packet_object.ICMPv4TimestampReply attribute), 131, 338
- originate_timestamp (cybox.objects.network_packet_object.ICMPv4TimestampRequest attribute), 132, 338
- OS (class in cybox.objects.system_object), 182, 389
- os (cybox.objects.system_object.System attribute), 184, 390
- other_config_flag (cybox.objects.network_packet_object.RouterAdvertisement attribute), 153, 359
- out_buffer_size (cybox.objects.win_pipe_object.WinPipe attribute), 242, 449
- outbound_hop_count (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 132, 339
- outbound_packet_forward_success (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 133, 339
- outbound_packet_no_route (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 133, 339
- output_link_mtu (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 133, 339
- output_link_speed (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 133, 339
- override_flag (cybox.objects.network_packet_object.NeighborAdvertisement attribute), 148, 354
- owner_window (cybox.objects.gui_window_object.GUIWindow attribute), 98, 304

P

- p3p (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- pack() (cybox.objects.artifact_object.Base64Encoding method), 72, 279
- pack() (cybox.objects.artifact_object.Bz2Compression method), 73, 279

- pack() (cybox.objects.artifact_object.Packaging method), 74, 280
- pack() (cybox.objects.artifact_object.XOREncryption method), 74, 281
- pack() (cybox.objects.artifact_object.ZlibCompression method), 74, 281
- Packaging (class in cybox.objects.artifact_object), 73, 280
- Packer (class in cybox.objects.file_object), 95, 302
- packer_list (cybox.objects.file_object.File attribute), 94, 300
- PackerList (class in cybox.objects.file_object), 96, 302
- packet_change (cybox.objects.network_packet_object.IPv6Option attribute), 143, 349
- packet_too_big (cybox.objects.network_packet_object.ICMPv6Error message attribute), 135, 341
- packet_too_big (cybox.objects.network_packet_object.ICMPv6TooBig attribute), 136, 343
- Pad1 (class in cybox.objects.network_packet_object), 150, 356
- pad1 (cybox.objects.network_packet_object.OptionData attribute), 150, 356
- padding (cybox.objects.network_packet_object.EncapsulatingSecurityPayload attribute), 122, 328
- padding_len (cybox.objects.network_packet_object.EncapsulatingSecurityPayload attribute), 122, 328
- PadN (class in cybox.objects.network_packet_object), 150, 357
- padn (cybox.objects.network_packet_object.OptionData attribute), 150, 356
- page_count (cybox.objects.pdf_file_object.PDFKeywordCount attribute), 172, 378
- page_protection_attribute (cybox.objects.win_filemapping_object.WinFilemapping attribute), 230, 437
- page_protection_value (cybox.objects.win_filemapping_object.WinFilemapping attribute), 230, 437
- parameter_address (cybox.objects.win_thread_object.WinThread attribute), 263, 471
- parameter_problem (cybox.objects.network_packet_object.ICMPv6Error message attribute), 135, 341
- parameters (cybox.objects.win_task_object.WinTask attribute), 262, 469
- parent_pid (cybox.objects.process_object.Process attribute), 175, 382
- parent_window (cybox.objects.gui_window_object.GUIWindow attribute), 98, 304
- parse_value() (in module cybox.common.datetimewithprecision), 20, 37
- parsed_header (cybox.objects.http_session_object.HTTPRequestHeader attribute), 100, 306
- parsed_header (cybox.objects.http_session_object.HTTPResponseHeader attribute), 105, 312
- partition_id (cybox.objects.disk_partition_object.DiskPartition attribute), 80, 286
- partition_length (cybox.objects.disk_partition_object.DiskPartition attribute), 81, 286
- partition_list (cybox.objects.disk_object.Disk attribute), 79, 285
- partition_offset (cybox.objects.disk_partition_object.DiskPartition attribute), 81, 286
- PartitionList (class in cybox.objects.disk_object), 80, 286
- password_required (cybox.objects.user_account_object.UserAccount attribute), 186, 393
- PassWordTooBigZipEncryption (class in cybox.objects.artifact_object), 74, 280
- patch_level (cybox.objects.system_object.OS attribute), 183, 389
- path (cybox.objects.library_object.Library attribute), 113, 320
- path (cybox.objects.process_object.ImageInfo attribute), 174, 381
- path (cybox.objects.network_packet_object.EncapsulatingSecurityPayload attribute), 122, 328
- payload_length (cybox.objects.network_packet_object.IPv6Header attribute), 142, 348
- PDFDocumentInformationDictionary (class in cybox.objects.pdf_file_object), 167, 374
- PDFFile (class in cybox.objects.pdf_file_object), 168, 375
- PDFFileMetadata (class in cybox.objects.pdf_file_object), 169, 375
- PDFKeywordCount (class in cybox.objects.pdf_file_object), 170, 376
- PDFKeywordCounts (class in cybox.objects.pdf_file_object), 170, 377
- pe_checksum (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 226, 433
- pe_computed_api (cybox.objects.win_executable_file_object.PEChecksum attribute), 211, 418
- pe_file_api (cybox.objects.win_executable_file_object.PEChecksum attribute), 211, 418
- pe_file_raw (cybox.objects.win_executable_file_object.PEChecksum attribute), 211, 418
- peak_entropy (cybox.objects.file_object.File attribute), 94, 300
- PEBuildInformation (class in cybox.objects.win_executable_file_object), 210, 417
- PEChecksum (class in cybox.objects.win_executable_file_object), 211, 418

- PEDataDirectoryStruct (class in box.objects.win_executable_file_object), 211, 418
- PEExportedFunction (class in box.objects.win_executable_file_object), 211, 419
- PEExportedFunctions (class in box.objects.win_executable_file_object), 212, 419
- PEExports (class in box.objects.win_executable_file_object), 212, 419
- PEFileHeader (class in box.objects.win_executable_file_object), 213, 420
- PEHeaders (class in box.objects.win_executable_file_object), 214, 421
- PEImport (class in box.objects.win_executable_file_object), 215, 422
- PEImportedFunction (class in box.objects.win_executable_file_object), 216, 423
- PEImportedFunctions (class in box.objects.win_executable_file_object), 216, 424
- PEImportList (class in box.objects.win_executable_file_object), 216, 423
- PEOptionalHeader (class in box.objects.win_executable_file_object), 217, 424
- PEResource (class in box.objects.win_executable_file_object), 220, 428
- PEResourceList (class in box.objects.win_executable_file_object), 222, 429
- permissions (cybox.objects.file_object.File attribute), 94, 301
- Personnel (class in cybox.common.contributor), 17, 35
- PESection (class in box.objects.win_executable_file_object), 222, 429
- PESectionHeaderStruct (class in box.objects.win_executable_file_object), 222, 429
- PESectionList (class in box.objects.win_executable_file_object), 224, 431
- PEVersionInfoResource (class in box.objects.win_executable_file_object), 224, 431
- cy-phone (cybox.common.contributor.Contributor attribute), 17, 35
- cy-phone_number (cybox.objects.whois_object.WhoisContact attribute), 189, 396
- cy-phone_number (cybox.objects.whois_object.WhoisRegistrar attribute), 193, 400
- cy-physical_address (cybox.objects.arp_cache_object.ARPCacheEntry attribute), 76, 278
- cy-physical_interface (cybox.objects.network_packet_object.LinkLayer attribute), 144, 351
- cy-PhysicalInterface (class in cy-box.objects.network_packet_object), 151, 357
- cy-pid (cybox.objects.process_object.Process attribute), 176, 382
- cy-Pipe (class in cybox.objects.pipe_object), 172, 379
- cy-pipe_mode (cybox.objects.win_pipe_object.WinPipe attribute), 242, 449
- cy-platform (cybox.common.measureresource.MeasureSource attribute), 25, 43
- cy-platform (cybox.objects.api_object.API attribute), 71, 276
- cy-platform (cybox.objects.system_object.OS attribute), 183, 390
- cy-PlatformIdentifier (class in cy-box.common.platform_specification), 27, 45
- cy-PlatformSpecification (class in cy-box.common.platform_specification), 27, 45
- cy-pointer (cybox.objects.network_packet_object.ICMPv6ParameterProblem attribute), 137, 343
- cy-pointer_count (cybox.objects.win_handle_object.WinHandle attribute), 231, 438
- cy-pointer_to_linenumbers (cy-box.objects.win_executable_file_object.PESectionHeaderStruct attribute), 223, 430
- cy-pointer_to_raw_data (cy-box.objects.win_executable_file_object.PESectionHeaderStruct attribute), 223, 430
- cy-pointer_to_relocations (cy-box.objects.win_executable_file_object.PESectionHeaderStruct attribute), 223, 430
- cy-pointer_to_symbol_table (cy-box.objects.win_executable_file_object.PEFileHeader attribute), 214, 421
- cy-policy_constraints (cybox.objects.x509_certificate_object.X509V3Extension attribute), 272, 479
- cy-policy_mappings (cybox.objects.x509_certificate_object.X509V3Extension attribute), 272, 479
- cy-Port (class in cybox.objects.port_object), 173, 379
- cy-port (cybox.objects.http_session_object.HostField attribute), 112, 318

- port (cybox.objects.socket_address_object.SocketAddress attribute), 178, 386
- port (cybox.objects.win_computer_account_object.KerberosPrivilege attribute), 195, 402
- port_list (cybox.objects.process_object.Process attribute), 176, 382
- port_unreachable (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 134, 340
- port_value (cybox.objects.port_object.Port attribute), 173, 380
- PortList (class in cybox.objects.process_object), 174, 381
- PositiveInteger (class in cybox.common.properties), 29, 46
- pragma (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 309
- pragma (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- precedence (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- precedence_cutoff_in_effect (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 127, 333
- preferred_lifetime (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 147, 353
- preferred_lifetime (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 367
- preferred_lifetime (cybox.objects.network_route_object.NetworkRoute attribute), 162, 369
- prefetch_hash (cybox.objects.win_prefetch_object.WinPrefetch attribute), 243, 451
- Prefix (class in cybox.objects.network_packet_object), 151, 357
- prefix (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 147, 353
- prefix_info (cybox.objects.network_packet_object.RouterAdvertisement attribute), 153, 360
- prefix_length (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 147, 353
- priority (cybox.objects.win_process_object.WinProcess attribute), 246, 454
- priority (cybox.objects.win_task_object.WinTask attribute), 262, 469
- priority (cybox.objects.win_thread_object.WinThread attribute), 263, 471
- private_key_usage_period (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 272, 479
- privatebuild (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
- Privilege (class in cybox.objects.user_account_object), 185, 392
- privilege_list (cybox.objects.user_account_object.UserAccount attribute), 186, 393
- privilege_list (cybox.objects.win_file_object.WinFile attribute), 228, 435
- privilege_list (cybox.objects.win_user_object.WinUser attribute), 265, 472
- PrivilegeList (class in cybox.objects.user_account_object), 186, 392
- Process (class in cybox.objects.process_object), 174, 381
- process_name (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 463
- processor (cybox.objects.system_object.System attribute), 184, 391
- processor_family (cybox.objects.code_object.Code attribute), 77, 283
- ProcessTime (class in cybox.common.time.Time attribute), 30, 48
- Product (class in cybox.objects.product_object), 176, 383
- product (cybox.objects.product_object.Product attribute), 177, 383
- product_name (cybox.objects.win_system_object.WinSystem attribute), 253, 461
- product_name (cybox.objects.win_system_object.WinSystem attribute), 253, 461
- product_name (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
- product_name (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
- Property (class in cybox.common.object_properties), 27, 44
- protect (cybox.objects.win_memory_page_region_object.WinMemoryPage attribute), 238, 445
- proto_addr_size (cybox.objects.network_packet_object.ARP attribute), 120, 326
- protocol_option (cybox.objects.network_packet_object.ARP attribute), 120, 326
- protocol (cybox.objects.network_packet_object.IPv4Header attribute), 139, 345
- protocol (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 367
- protocol (cybox.objects.network_socket_object.NetworkSocket attribute), 164, 370
- proxy_authenticate (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 314
- proxy_authentication (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 309
- psh (cybox.objects.network_packet_object.TCPFlags attribute), 156, 362
- public_key_algorithm (cybox.objects.x509_certificate_object.SubjectPublicKey attribute), 267, 475

- purpose (cybox.objects.code_object.Code attribute), 77, 283
- ## Q
- qclass (cybox.objects.dns_query_object.DNSQuestion attribute), 83, 289
- qname (cybox.objects.dns_query_object.DNSQuestion attribute), 83, 289
- qtype (cybox.objects.dns_query_object.DNSQuestion attribute), 83, 289
- queried_date (cybox.objects.dns_record_object.DNSRecord attribute), 85, 291
- question (cybox.objects.dns_query_object.DNSQuery attribute), 83, 288
- ## R
- range_ (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 309
- rate (cybox.core.frequency.Frequency attribute), 56, 64
- raw_body (cybox.objects.email_message_object.EmailMessage attribute), 89, 295
- raw_certificate (cybox.objects.x509_certificate_object.X509Certificate attribute), 269, 477
- raw_header (cybox.objects.email_message_object.EmailMessage attribute), 89, 295
- raw_header (cybox.objects.http_session_object.HTTPRequestHeader attribute), 100, 306
- raw_header (cybox.objects.http_session_object.HTTPResponseHeader attribute), 106, 312
- RawArtifact (class in cybox.objects.artifact_object), 74, 280
- reachable_time (cybox.objects.network_packet_object.RouterAdvertisement attribute), 153, 359
- read (cybox.objects.win_file_object.WindowsFilePermissions attribute), 229, 436
- read_and_execute (cybox.objects.win_file_object.WindowsFilePermissions attribute), 229, 436
- read_timeout (cybox.objects.win_mailslot_object.WinMailslot attribute), 236, 443
- reason_phrase (cybox.objects.http_session_object.HTTPStatusLine attribute), 111, 317
- receive_timestamp (cybox.objects.network_packet_object.ICMPv4Timestamp attribute), 131, 338
- received_lines (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
- received_time (cybox.common.time.Time attribute), 30, 48
- ReceivedLine (class in cybox.objects.email_message_object), 90, 296
- ReceivedLineList (class in cybox.objects.email_message_object), 90, 297
- recip_hardware_addr (cybox.objects.network_packet_object.ARP attribute), 120, 326
- recip_protocol_addr (cybox.objects.network_packet_object.ARP attribute), 120, 326
- recipient_phone_number (cybox.objects.sms_message_object.SMSMessage attribute), 179, 385
- record_data (cybox.objects.dns_record_object.DNSRecord attribute), 85, 291
- record_name (cybox.objects.dns_record_object.DNSRecord attribute), 85, 291
- record_type (cybox.objects.dns_record_object.DNSRecord attribute), 85, 291
- Redirect (class in cybox.objects.network_packet_object), 151, 358
- redirect (cybox.objects.network_packet_object.NDP attribute), 145, 351
- redirect_message (cybox.objects.network_packet_object.ICMPv4ErrorMessage attribute), 127, 334
- redirection_header (cybox.objects.network_packet_object.RedirectOptions attribute), 152, 358
- RedirectOptions (class in cybox.objects.network_packet_object), 152, 358
- referrer (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 309
- referral_url (cybox.objects.whois_object.WhoisRegistrar attribute), 193, 400
- refresh (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 315
- region_end_address (cybox.objects.memory_object.Memory attribute), 117, 323
- region_end_address (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 445
- region_size (cybox.objects.memory_object.Memory attribute), 117, 323
- region_size (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 445
- region_start_address (cybox.objects.memory_object.Memory attribute), 117, 323
- region_start_address (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 445
- regional_internet_registry (cybox.objects.as_object.AutonomousSystem attribute), 75, 282
- regional_internet_registry (cybox.objects.whois_object.WhoisEntry attribute), 191, 398

register_vocab() (in module cybox.common.vocabs), 32, 50
 registered_organization (cybox.objects.win_system_object.WinSystem attribute), 254, 461
 registered_owner (cybox.objects.win_system_object.WinSystem attribute), 254, 461
 registrant_id (cybox.objects.whois_object.WhoisRegistrant attribute), 192, 399
 registrants (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
 registrar_guid (cybox.objects.whois_object.WhoisRegistrar attribute), 193, 400
 registrar_id (cybox.objects.whois_object.WhoisRegistrar attribute), 193, 400
 registrar_info (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
 registry_hive_list (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 463
 RegistrySubkeys (class in cybox.objects.win_registry_key_object), 247, 455
 RegistryValue (class in cybox.objects.win_registry_key_object), 247, 455
 RegistryValues (class in cybox.objects.win_registry_key_object), 248, 455
 reject_route (cybox.objects.network_packet_object.ICMPv6DestinationUnreachable attribute), 134, 340
 RelatedObject (class in cybox.core.object), 57, 65
 relationships (cybox.core.action.Action attribute), 52, 60
 release (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 321
 remarks (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
 remote_address (cybox.objects.network_socket_object.NetworkSocket attribute), 164, 370
 reply_to (cybox.objects.email_message_object.EmailHeader attribute), 87, 293
 reserved (cybox.objects.network_packet_object.Ipv4Flags attribute), 138, 344
 reserved (cybox.objects.network_packet_object.TCPHeader attribute), 157, 363
 reserved (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
 reserved (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
 reserved2 (cybox.objects.win_executable_file_object.DOSHeader attribute), 207, 415
 resource_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 416
 resources (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 226, 433
 restore_point_description (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 464
 restore_point_full_path (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 464
 restore_point_name (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 464
 restore_point_type (cybox.objects.win_system_restore_object.WinSystemRestore attribute), 256, 464
 retrans_timer (cybox.objects.network_packet_object.RouterAdvertisement attribute), 153, 359
 retry_after (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 108, 315
 return_hop_count (cybox.objects.network_packet_object.ICMPv4Traceroute attribute), 133, 339
 richmedia_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 172, 379
 role (cybox.common.contributor.Contributor attribute), 17, 35
 route_age (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 367
 route_age (cybox.objects.network_route_object.NetRoute attribute), 162, 369
 router_advertisement (cybox.objects.network_packet_object.NDP attribute), 145, 352
 router_flag (cybox.objects.network_packet_object.NeighborAdvertisement attribute), 148, 354
 router_lifetime (cybox.objects.network_packet_object.RouterAdvertisement attribute), 153, 360
 router_solicitation (cybox.objects.network_packet_object.NDP attribute), 145, 352
 RouterAdvertisement (class in cybox.objects.network_packet_object), 152, 359
 RouterAdvertisementOptions (class in cybox.objects.network_packet_object), 153, 360
 RouterSolicitation (class in cybox.objects.network_packet_object), 154, 360
 RouterSolicitationOptions (class in cybox.objects.network_packet_object), 154, 360
 Routes (class in cybox.objects.network_subnet_object), 167, 374
 routes (cybox.objects.network_subnet_object.NetworkSubnet attribute), 167, 373
 Routing (class in cybox.objects.network_packet_object), 164, 361

- routing (cybox.objects.network_packet_object.IPv6ExtHeader attribute), 141, 348
- routing_type (cybox.objects.network_packet_object.Routing security_id (cybox.objects.win_process_object.WinProcess attribute), 246, 454
- routing_type (cybox.objects.network_packet_object.Routing security_id (cybox.objects.win_user_object.WinUser attribute), 265, 473
- rsa_public_key (cybox.objects.x509_certificate_object.SubjectPublicKeyParameters_index (cy- box.objects.network_packet_object.AuthenticationHeader attribute), 121, 327
- RSAPublicKey (class in cy- box.objects.x509_certificate_object), 267, security_parameters_index (cy- box.objects.network_packet_object.EncapsulatingSecurityPayload attribute), 122, 328
- rst (cybox.objects.network_packet_object.TCPFlags attribute), 156, 363
- runlengthdecode_count (cy- security_type (cybox.objects.win_file_object.WinFile attribute), 228, 435
- runlengthdecode_count (cy- security_type (cybox.objects.win_process_object.WinProcess attribute), 247, 454
- running_status (cybox.objects.win_thread_object.WinThread security_type (cybox.objects.win_user_object.WinUser attribute), 265, 473
- segments_left (cybox.objects.network_packet_object.Routing attribute), 155, 361
- scale (cybox.core.frequency.Frequency attribute), 56, 64
- selector (cybox.objects.win_kernel_object.IDTEntry attribute), 233, 441
- script_path (cybox.objects.user_account_object.UserAccount Semaphore (class in cybox.objects.semaphore_object), 177, 384
- search_distance (cybox.common.data_segment.DataSegment sender (cybox.objects.email_message_object.EmailHeader attribute), 88, 294
- search_within (cybox.common.data_segment.DataSegment sender hardware_addr (cy- box.objects.network_packet_object.ARP attribute), 120, 326
- section_alignment (cybox.objects.win_executable_file_object.PEOptionalHeader sender_phone_number (cy- box.objects.sms_message_object.SMSMessage attribute), 179, 385
- section_header (cybox.objects.win_executable_file_object.PESection sender_protocol_addr (cy- box.objects.network_packet_object.ARP attribute), 120, 327
- section_list (cybox.objects.win_process_object.WinProcess sent_datetime (cybox.objects.sms_message_object.SMSMessage attribute), 179, 385
- sections (cybox.objects.win_executable_file_object.WinExecutableFile seq_num (cybox.objects.network_packet_object.TCPHeader attribute), 157, 364
- sectors_per_allocation_unit (cy- sequence_number (cybox.objects.network_packet_object.AuthenticationHeader attribute), 121, 327
- security_attributes (cybox.objects.win_filemapping_object.WinFilemapping sequence_number (cybox.objects.network_packet_object.EncapsulatingSec attribute), 122, 328
- security_attributes (cybox.objects.win_mailslot_object.WinMailslot serial_number (cybox.objects.device_object.Device attribute), 79, 285
- security_attributes (cybox.objects.win_mutex_object.WinMutex serial_number (cybox.objects.volume_object.Volume attribute), 188, 395
- security_attributes (cybox.objects.win_pipe_object.WinPipe serial_number (cybox.objects.x509_certificate_object.X509Cert attribute), 268, 476
- security_attributes (cybox.objects.win_semaphore_object.WinSemaphore serialize_value() (in module cy- box.common.datetimewithprecision), 20, 37
- security_attributes (cybox.objects.win_thread_object.WinThread server (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 109, 315
- security_attributes (cybox.objects.win_waitable_timer_object.WinWaitableTimer server_name (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
- security_id (cybox.objects.win_computer_account_object.WinComputerAccount
- security_id (cybox.objects.win_file_object.WinFile attribute), 228, 435

service (cybox.objects.win_computer_account_object.KerberosDelegationAttribute), 195, 402
 service_counter_table_base (cybox.objects.win_kernel_object.SSDTEntry attribute), 234, 442
 service_dll (cybox.objects.win_service_object.WinService attribute), 250, 458
 service_dll_certificate_issuer (cybox.objects.win_service_object.WinService attribute), 250, 458
 service_dll_certificate_subject (cybox.objects.win_service_object.WinService attribute), 250, 458
 service_dll_hashes (cybox.objects.win_service_object.WinService attribute), 250, 458
 service_dll_signature_description (cybox.objects.win_service_object.WinService attribute), 250, 458
 service_dll_signature_exists (cybox.objects.win_service_object.WinService attribute), 251, 458
 service_dll_signature_verified (cybox.objects.win_service_object.WinService attribute), 251, 459
 service_name (cybox.objects.win_service_object.WinService attribute), 251, 459
 service_status (cybox.objects.win_service_object.WinService attribute), 251, 459
 service_table_base (cybox.objects.win_kernel_object.SSDTEntry attribute), 234, 442
 service_type (cybox.objects.win_service_object.WinService attribute), 251, 459
 service_used (cybox.objects.dns_query_object.DNSQuery attribute), 83, 289
 ServiceDescriptionList (class in cybox.objects.win_service_object), 249, 457
 set_cookie (cybox.objects.http_session_object.HTTPResponseHeaderField), 109, 315
 set_id_method() (in module cybox.utils.idgen), 481, 482
 set_id_namespace() (in module cybox.utils.idgen), 481, 482
 setup() (in module cybox.utils.autoentity), 480, 481
 show_message_body (cybox.objects.win_task_object.IShowMessageAction attribute), 258, 465
 show_message_title (cybox.objects.win_task_object.IShowMessageAction attribute), 258, 465
 sighting_count (cybox.common.measuresource.MeasureSource attribute), 25, 43
 signature (cybox.objects.file_object.Packer attribute), 96, 302
 signature (cybox.objects.win_executable_file_object.PEHeaders attribute), 215, 422
 signature (cybox.objects.x509_certificate_object.X509CertificateSignature attribute), 270, 477
 signature_algorithm (cybox.objects.x509_certificate_object.X509Certificate attribute), 268, 476
 signature_algorithm (cybox.objects.x509_certificate_object.X509CertificateSignature attribute), 270, 477
 signature_description (cybox.common.digitalsignature.DigitalSignature attribute), 20, 38
 signature_exists (cybox.common.digitalsignature.DigitalSignature attribute), 20, 38
 signature_verified (cybox.common.digitalsignature.DigitalSignature attribute), 21, 38
 simple_hash_value (cybox.common.hashes.Hash attribute), 24, 41
 size (cybox.objects.library_object.Library attribute), 113, 320
 size (cybox.objects.sms_message_object.SMSMessage attribute), 179, 386
 size (cybox.objects.win_executable_file_object.PEDataDirectoryStruct attribute), 211, 418
 size (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
 size_in_bytes (cybox.objects.file_object.File attribute), 95, 301
 size_in_bytes (cybox.objects.win_file_object.Stream attribute), 227, 434
 size_of_code (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
 size_of_headers (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
 size_of_heap_commit (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 219, 426
 size_of_image (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 220, 427
 size_of_initialized_data (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 220, 427
 size_of_optional_header (cybox.objects.win_executable_file_object.PEFileHeader attribute), 214, 421
 size_of_raw_data (cybox.objects.win_executable_file_object.PESectionHeader attribute), 223, 430
 size_of_stack_commit (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 220, 427

size_of_stack_reserve (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 204, 411
 size_of_uninitialized_data (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 220, 427
 SMSGMessage (class in cybox.objects.sms_message_object), 178, 385
 so_broadcast (cybox.objects.network_socket_object.SocketOptions attribute), 165, 371
 so_conditional_accept (cybox.objects.network_socket_object.SocketOptions attribute), 165, 371
 so_debug (cybox.objects.network_socket_object.SocketOptions attribute), 165, 371
 so_dontlinger (cybox.objects.network_socket_object.SocketOptions attribute), 165, 371
 so_dontroute (cybox.objects.network_socket_object.SocketOptions attribute), 165, 372
 so_group_priority (cybox.objects.network_socket_object.SocketOptions attribute), 165, 372
 so_keepalive (cybox.objects.network_socket_object.SocketOptions attribute), 165, 372
 so_linger (cybox.objects.network_socket_object.SocketOptions attribute), 165, 372
 so_oobinline (cybox.objects.network_socket_object.SocketOptions attribute), 165, 372
 so_rcvbuf (cybox.objects.network_socket_object.SocketOptions attribute), 165, 372
 so_rcvtimeo (cybox.objects.network_socket_object.SocketOptions attribute), 166, 372
 so_reuseaddr (cybox.objects.network_socket_object.SocketOptions attribute), 166, 372
 so_sndbuf (cybox.objects.network_socket_object.SocketOptions attribute), 166, 372
 so_sndtimeo (cybox.objects.network_socket_object.SocketOptions attribute), 166, 372
 so_timeout (cybox.objects.network_socket_object.SocketOptions attribute), 166, 373
 so_update_accept_context (cybox.objects.network_socket_object.SocketOptions attribute), 166, 373
 socket_descriptor (cybox.objects.network_socket_object.NetworkSocket attribute), 164, 370
 SocketAddress (class in cybox.objects.socket_address_object), 178, 386
 SocketOptions (class in cybox.objects.network_socket_object), 164, 371
 solicited_flag (cybox.objects.network_packet_object.NeighborSolicitation class in cybox.objects.win_kernel_object), 148, 354
 source (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
 source_host_isolated (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 127, 333
 source_mac_addr (cybox.objects.network_packet_object.EthernetHeader attribute), 122, 329
 source_quench (cybox.objects.network_packet_object.ICMPv4ErrorMessage attribute), 128, 334
 source_quench (cybox.objects.network_packet_object.ICMPv4SourceQuench attribute), 131, 337
 source_route_failed (cybox.objects.network_packet_object.ICMPv4DestinationUnreachable attribute), 127, 333
 source_socket_address (cybox.objects.network_connection_object.NetworkConnection attribute), 119, 325
 source_tcp_state (cybox.objects.network_connection_object.NetworkConnection attribute), 119, 325
 source_type (cybox.common.measuresource.MeasureSource attribute), 25, 43
 space_left (cybox.objects.disk_partition_object.DiskPartition attribute), 81, 287
 space_used (cybox.objects.disk_partition_object.DiskPartition attribute), 81, 287
 specialbuild (cybox.objects.win_executable_file_object.PEVersionInfoResource attribute), 225, 432
 spin_count (cybox.objects.win_critical_section_object.WinCriticalSection attribute), 196, 403
 sponsoring_registrar (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
 src_addr_failed_policy (cybox.objects.network_packet_object.ICMPv6DestinationUnreachable attribute), 134, 340
 src_ipv4_addr (cybox.objects.network_packet_object.IPv4Header attribute), 139, 346
 src_ipv6_addr (cybox.objects.network_packet_object.IPv6Header attribute), 142, 348
 src_link_addr (cybox.objects.network_packet_object.NeighborSolicitationOptions attribute), 149, 355
 src_link_addr (cybox.objects.network_packet_object.RouterAdvertisementOptions attribute), 154, 360
 src_link_addr (cybox.objects.network_packet_object.RouterSolicitationOptions attribute), 154, 361
 src_port (cybox.objects.network_packet_object.TCPHeader attribute), 157, 364
 srcport (cybox.objects.network_packet_object.UDPHeader attribute), 159, 366
 ssdt (cybox.objects.win_kernel_object.WinKernel attribute), 234, 443
 SSDTEntry (class in cybox.objects.win_kernel_object), 233, 442

- SSDTEnterList (class in cybox.objects.win_kernel_object), 234, 442
- stack_size (cybox.objects.win_thread_object.WinThread attribute), 264, 471
- standard_extensions (cybox.objects.x509_certificate_object.X509Cert attribute), 268, 476
- start_address (cybox.objects.code_object.Code attribute), 77, 283
- start_address (cybox.objects.win_thread_object.WinThread attribute), 264, 471
- start_date (cybox.common.daterange.DateRange attribute), 19, 37
- start_time (cybox.common.time.Time attribute), 30, 48
- start_time (cybox.objects.process_object.Process attribute), 176, 382
- started_as (cybox.objects.win_service_object.WinService attribute), 251, 459
- startup_command_line (cybox.objects.win_service_object.WinService attribute), 251, 459
- startup_info (cybox.objects.win_process_object.WinProcess attribute), 247, 454
- startup_type (cybox.objects.win_service_object.WinService attribute), 251, 459
- StartupInfo (class in cybox.objects.win_process_object), 244, 451
- state (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 446
- status (cybox.objects.whois_object.WhoisEntry attribute), 191, 398
- status (cybox.objects.win_task_object.WinTask attribute), 262, 469
- status_code (cybox.objects.http_session_object.HTTPStatus attribute), 111, 317
- Stream (class in cybox.objects.win_file_object), 227, 434
- stream_list (cybox.objects.win_file_object.WinFile attribute), 229, 436
- StreamList (class in cybox.objects.win_file_object), 227, 434
- strict_transport_security (cybox.objects.http_session_object.HTTPResponseHeader attribute), 109, 315
- String (class in cybox.common.properties), 29, 46
- string_value (cybox.common.extracted_string.ExtractedString attribute), 23, 41
- strings (cybox.common.extracted_features.ExtractedFeatures attribute), 22, 39
- structured_authentication_mechanism (cybox.objects.account_object.Authentication attribute), 69, 274
- StructuredAuthenticationMechanism (class in cybox.objects.account_object), 69, 274
- StructuredText (class in cybox.common.structured_text), 29, 47
- sub_language (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
- subject (cybox.objects.email_message_object.EmailHeader attribute), 88, 294
- subject (cybox.objects.pdf_file_object.PDFDocumentInformationDictionary attribute), 168, 375
- subject (cybox.objects.x509_certificate_object.X509Cert attribute), 268, 476
- subject_alternative_name (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 272, 479
- subject_directory_attributes (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 272, 480
- subject_key_identifier (cybox.objects.x509_certificate_object.X509V3Extensions attribute), 272, 480
- subject_public_key (cybox.objects.x509_certificate_object.X509Cert attribute), 269, 476
- SubjectPublicKey (class in cybox.objects.x509_certificate_object), 267, 475
- subkeys (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 249, 456
- SubsystemPageRegion (cybox.objects.win_executable_file_object.PEOptionalHeader attribute), 220, 427
- successful (cybox.objects.dns_query_object.DNSQuery attribute), 83, 289
- superclass (cybox.core.associated_object.AssociatedObject attribute), 54, 62
- symbolic_name (cybox.objects.win_system_object.GlobalFlag attribute), 252, 460
- SymLinksList (class in cybox.objects.file_object), 97, 303
- syn (cybox.objects.network_packet_object.TCPFlags attribute), 156, 363
- SystemCertificate (class in cybox.objects.system_object), 183, 390
- system (cybox.common.measuresource.MeasureSource attribute), 25, 43
- system_time (cybox.objects.system_object.System attribute), 184, 391
- ## T
- target_ipv6_addr (cybox.objects.network_packet_object.NeighborAdvertisement attribute), 148, 354
- target_ipv6_addr (cybox.objects.network_packet_object.NeighborSolicitation attribute), 149, 355
- target_ipv6_addr (cybox.objects.network_packet_object.Redirect attribute), 152, 358

- target_link_addr (cybox.objects.network_packet_object.NeighborOptions attribute), 148, 355
- target_link_addr (cybox.objects.network_packet_object.RedirectionOptions attribute), 152, 359
- targeted_platforms (cybox.objects.code_object.Code attribute), 77, 283
- TargetedPlatforms (class in cybox.objects.code_object), 78, 284
- TaskAction (class in cybox.objects.win_task_object), 258, 465
- TaskActionList (class in cybox.objects.win_task_object), 259, 466
- TCP (class in cybox.objects.network_packet_object), 155, 361
- tcp (cybox.objects.network_packet_object.TransportLayer attribute), 158, 364
- tcp_flags (cybox.objects.network_packet_object.TCPHeader attribute), 157, 364
- tcp_header (cybox.objects.network_packet_object.TCP attribute), 155, 362
- tcp_nodelay (cybox.objects.network_socket_object.SocketOptions attribute), 166, 373
- TCPFlags (class in cybox.objects.network_packet_object), 155, 362
- TCPHeader (class in cybox.objects.network_packet_object), 156, 363
- te (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 309
- thread (cybox.objects.win_process_object.WinProcess attribute), 247, 454
- thread_id (cybox.objects.win_hook_object.WinHook attribute), 232, 439
- thread_id (cybox.objects.win_thread_object.WinThread attribute), 264, 471
- ticket (cybox.objects.win_computer_account_object.Kerberos attribute), 194, 401
- Time (class in cybox.common.properties), 29, 46
- Time (class in cybox.common.time), 30, 47
- time (cybox.common.measuresource.MeasureSource attribute), 26, 43
- time_date_stamp (cybox.objects.win_executable_file_object.PEFileHeader attribute), 214, 421
- time_exceeded (cybox.objects.network_packet_object.ICMPv4ErrorMessage attribute), 128, 334
- time_exceeded (cybox.objects.network_packet_object.ICMPv6ErrorMessage attribute), 135, 341
- times_executed (cybox.objects.win_prefetch_object.WinPrefetch attribute), 244, 451
- timestamp (cybox.core.action.Action attribute), 52, 60
- timestamp (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296
- timestamp (cybox.objects.network_packet_object.ICMPv4TimestampRequest attribute), 132, 338
- timestamp_reply (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 129, 335
- timestamp_reply (cybox.objects.network_packet_object.ICMPv4TimestampRequest attribute), 132, 338
- timestamp_request (cybox.objects.network_packet_object.ICMPv4InfoMessage attribute), 129, 336
- timezone_dst (cybox.objects.system_object.System attribute), 184, 391
- timezone_standard (cybox.objects.system_object.System attribute), 184, 391
- title (cybox.objects.pdf_file_object.PDFDocumentInformationDictionary attribute), 168, 375
- tls_table (cybox.objects.win_executable_file_object.DataDirectory attribute), 209, 417
- tls_used (cybox.objects.network_connection_object.NetworkConnection attribute), 119, 325
- to (cybox.objects.email_message_object.EmailHeader attribute), 88, 294
- to_dict() (cybox.common.data_segment.DataSize method), 19, 36
- to_dict() (cybox.common.datetimewithprecision.DateTimeWithPrecision method), 20, 37
- to_dict() (cybox.common.datetimewithprecision.DateWithPrecision method), 20, 37
- to_dict() (cybox.common.environment_variable.EnvironmentVariable method), 21, 38
- to_dict() (cybox.common.object_properties.ObjectProperties method), 27, 44
- to_dict() (cybox.common.object_properties.Property method), 27, 44
- to_dict() (cybox.common.platform_specification.PlatformIdentifier method), 27, 45
- to_dict() (cybox.common.platform_specification.PlatformSpecification method), 27, 45
- to_dict() (cybox.common.structured_text.StructuredText method), 29, 47
- to_dict() (cybox.common.tools.ToolInformation method), 30, 48
- to_dict() (cybox.common.vocabs.VocabString method), 30, 48
- to_dict() (cybox.core.action.ActionRelationship method), 54, 60
- to_dict() (cybox.core.associated_object.AssociatedObject method), 54, 62
- to_dict() (cybox.core.object.DomainSpecificObjectProperties method), 57, 65
- to_dict() (cybox.core.object.Object method), 57, 65
- to_dict() (cybox.core.object.RelatedObject method), 57, 65
- to_dict() (cybox.core.observable.Observable method), 58, 66

- to_dict() (cybox.core.observable.ObservableComposition method), 58, 66
- to_dict() (cybox.core.observable.Observables method), 59, 67
- to_dict() (cybox.objects.artifact_object.Artifact method), 72, 279
- to_dict() (cybox.objects.artifact_object.Compression method), 73, 279
- to_dict() (cybox.objects.artifact_object.Encoding method), 73, 280
- to_dict() (cybox.objects.artifact_object.Encryption method), 73, 280
- to_dict() (cybox.objects.file_object.FilePath method), 95, 301
- to_obj() (cybox.common.data_segment.DataSize method), 19, 36
- to_obj() (cybox.common.datetimewithprecision.DateWithPrecision method), 20, 37
- to_obj() (cybox.common.datetimewithprecision.DateWithPrecision method), 20, 37
- to_obj() (cybox.common.environment_variable.EnvironmentVariable method), 21, 38
- to_obj() (cybox.common.object_properties.ObjectProperties method), 27, 44
- to_obj() (cybox.common.object_properties.Property method), 27, 45
- to_obj() (cybox.common.platform_specification.PlatformIdentification method), 27, 45
- to_obj() (cybox.common.platform_specification.PlatformSpecification method), 27, 45
- to_obj() (cybox.common.structured_text.StructuredText method), 29, 47
- to_obj() (cybox.common.tools.ToolInformation method), 30, 48
- to_obj() (cybox.common.vocabs.VocabString method), 32, 50
- to_obj() (cybox.core.action.ActionRelationship method), 53, 61
- to_obj() (cybox.core.associated_object.AssociatedObject method), 54, 63
- to_obj() (cybox.core.object.DomainSpecificObjectProperties method), 57, 65
- to_obj() (cybox.core.object.Object method), 57, 65
- to_obj() (cybox.core.object.RelatedObject method), 57, 65
- to_obj() (cybox.core.observable.Observable method), 58, 66
- to_obj() (cybox.core.observable.ObservableComposition method), 58, 66
- to_obj() (cybox.core.observable.Observables method), 59, 67
- to_obj() (cybox.objects.artifact_object.Artifact method), 72, 279
- to_obj() (cybox.objects.artifact_object.Compression method), 73, 279
- to_obj() (cybox.objects.artifact_object.Encoding method), 73, 280
- to_obj() (cybox.objects.artifact_object.Encryption method), 73, 280
- to_obj() (cybox.objects.file_object.FilePath method), 95, 301
- tool_type (cybox.common.measureresource.MeasureSource attribute), 26, 43
- ToolInformation (class in cybox.common.tools), 30, 48
- ToolInformationList (class in cybox.common.tools), 30, 48
- tools (cybox.common.measureresource.MeasureSource attribute), 26, 43
- ToolType (class in cybox.common.vocabs), 32, 50
- with_physical_memory (cybox.objects.network_packet_object.ICMPv4RedirectMessage attribute), 130, 337
- with_network_redirect (cybox.objects.network_packet_object.ICMPv4RedirectMessage attribute), 131, 337
- total_allocation_units (cybox.objects.volume_object.Volume attribute), 188, 395
- total_length (cybox.objects.network_packet_object.IPv4Header attribute), 139, 346
- total_physical_memory (cybox.objects.system_object.System attribute), 84, 391
- total_space (cybox.objects.disk_partition_object.DiskPartition attribute), 81, 287
- traceroute (cybox.objects.network_packet_object.ICMPv4Packet attribute), 130, 336
- traffic_class (cybox.objects.network_packet_object.IPv6Header attribute), 142, 348
- trailer (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 109, 315
- transaction_id (cybox.objects.dns_query_object.DNSQuery attribute), 83, 289
- transfer_encoding (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 109, 315
- transmit_timestamp (cybox.objects.network_packet_object.ICMPv4TimestampReply attribute), 132, 338
- transport_layer (cybox.objects.network_packet_object.NetworkPacket attribute), 149, 356
- TransportLayer (class in cybox.objects.network_packet_object), 158, 364
- trapped (cybox.objects.pdf_file_object.PDFDocumentInformationDictionary attribute), 168, 375
- trend (cybox.core.frequency.Frequency attribute), 56, 64
- Trigger (class in cybox.objects.win_task_object), 259, 466

- trigger_begin (cybox.objects.win_task_object.Trigger attribute), 259, 466
- trigger_delay (cybox.objects.win_task_object.Trigger attribute), 259, 467
- trigger_end (cybox.objects.win_task_object.Trigger attribute), 259, 467
- trigger_frequency (cybox.objects.win_task_object.Trigger attribute), 259, 467
- trigger_list (cybox.objects.win_task_object.WinTask attribute), 262, 469
- trigger_max_run_time (cybox.objects.win_task_object.Trigger attribute), 259, 467
- trigger_session_change_type (cybox.objects.win_task_object.Trigger attribute), 260, 467
- trigger_type (cybox.objects.win_task_object.Trigger attribute), 260, 467
- TriggerList (class in cybox.objects.win_task_object), 260, 467
- ttl (cybox.objects.dns_cache_object.DNSCacheEntry attribute), 82, 288
- ttl (cybox.objects.dns_record_object.DNSRecord attribute), 85, 291
- ttl (cybox.objects.network_packet_object.IPv4Header attribute), 139, 346
- ttl (cybox.objects.network_packet_object.IPv6Header attribute), 142, 349
- ttl_exceeded_in_transit (cybox.objects.network_packet_object.ICMPv4TimeExceeded attribute), 131, 338
- type (cybox.objects.disk_object.Disk attribute), 80, 285
- type (cybox.objects.disk_partition_object.DiskPartition attribute), 81, 287
- type (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
- type (cybox.objects.win_network_share_object.WinNetworkShare attribute), 241, 448
- type_ (cybox.common.hashes.Hash attribute), 24, 41
- type_ (cybox.core.action.Action attribute), 52, 60
- type_ (cybox.core.event.Event attribute), 55, 64
- type_ (cybox.objects.arp_cache_object.ARPCacheEntry attribute), 76, 278
- type_ (cybox.objects.code_object.Code attribute), 78, 283
- type_ (cybox.objects.domain_name_object.DomainName attribute), 85, 291
- type_ (cybox.objects.file_object.EntryPointSignature attribute), 91, 297
- type_ (cybox.objects.file_object.Packer attribute), 96, 302
- type_ (cybox.objects.library_object.Library attribute), 113, 320
- type_ (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 368
- type_ (cybox.objects.network_socket_object.NetworkSocket attribute), 164, 370
- type_ (cybox.objects.uri_object.URI attribute), 185, 392
- type_ (cybox.objects.win_computer_account_object.WinComputerAccount attribute), 196, 403
- type_ (cybox.objects.win_event_object.WinEvent attribute), 205, 412
- type_ (cybox.objects.win_executable_file_object.PEResource attribute), 221, 428
- type_ (cybox.objects.win_executable_file_object.WinExecutableFile attribute), 227, 434
- type_ (cybox.objects.win_handle_object.WinHandle attribute), 231, 439
- type_ (cybox.objects.win_hook_object.WinHook attribute), 232, 439
- type_ (cybox.objects.win_kernel_hook_object.WinKernelHook attribute), 236, 441
- type_ (cybox.objects.win_memory_page_region_object.WinMemoryPageRegion attribute), 238, 446
- type_ (cybox.objects.win_waitable_timer_object.WinWaitableTimer attribute), 266, 474
- type_attr (cybox.objects.win_kernel_object.IDTEntry attribute), 233, 441
- type_or_length (cybox.objects.network_packet_object.EthernetHeader attribute), 123, 329
- type_specific_data (cybox.objects.network_packet_object.Routing attribute), 155, 361
- TypeLength (class in cybox.objects.network_packet_object), 158, 364
- ## U
- UDP (class in cybox.objects.network_packet_object), 158, 365
- udp (cybox.objects.network_packet_object.TransportLayer attribute), 158, 364
- UDPHeader (class in cybox.objects.network_packet_object), 159, 365
- unformatted_message_list (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
- UnformattedMessageList (class in cybox.objects.win_event_log_object), 202, 409
- units (cybox.core.frequency.Frequency attribute), 56, 64
- UnknownObjectType, 481, 482
- unpack() (cybox.objects.artifact_object.Base64Encoding method), 72, 279
- unpack() (cybox.objects.artifact_object.Bz2Compression method), 73, 279

- unpack() (cybox.objects.artifact_object.Packaging method), 74, 280
- unpack() (cybox.objects.artifact_object.PasswordProtectedZipEncryption method), 74, 280
- unpack() (cybox.objects.artifact_object.XOREncryption method), 74, 281
- unpack() (cybox.objects.artifact_object.ZlibCompression method), 74, 281
- unrecognized_ipv6_option (cybox.objects.network_packet_object.ICMPv6ParameterProblem attribute), 137, 343
- unrecognized_next_header_type (cybox.objects.network_packet_object.ICMPv6ParameterProblem attribute), 137, 343
- UnsignedInteger (class in cybox.common.properties), 29, 47
- UnsignedLong (class in cybox.common.properties), 29, 47
- unwrap_cdata() (in module cybox.utils), 481
- update (cybox.objects.product_object.Product attribute), 177, 383
- updated_date (cybox.objects.whois_object.WhoisEntry attribute), 192, 398
- uptime (cybox.objects.system_object.System attribute), 184, 391
- urg (cybox.objects.network_packet_object.TCPFlags attribute), 156, 363
- urg_ptr (cybox.objects.network_packet_object.TCPHeader attribute), 157, 364
- URI (class in cybox.objects.uri_object), 185, 392
- url_label (cybox.objects.link_object.Link attribute), 114, 320
- user (cybox.objects.win_computer_account_object.KerberosService attribute), 195, 402
- user (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 411
- user_agent (cybox.objects.email_message_object.EmailHeader attribute), 88, 294
- user_agent (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 103, 310
- user_data_header (cybox.objects.sms_message_object.SMSMessage attribute), 179, 386
- user_owner (cybox.objects.file_object.File attribute), 95, 301
- user_password_age (cybox.objects.user_account_object.UserAccount attribute), 187, 393
- user_right (cybox.objects.win_user_object.WinPrivilege attribute), 264, 472
- user_time (cybox.objects.process_object.Process attribute), 176, 383
- UserAccount (class in cybox.objects.user_account_object), 186, 393
- username (cybox.objects.process_object.Process attribute), 176, 383
- username (cybox.objects.system_object.System attribute), 184, 391
- username (cybox.objects.user_account_object.UserAccount attribute), 187, 394
- ## V
- valid_lifetime (cybox.objects.network_packet_object.NDPPrefixInfo attribute), 147, 353
- valid_lifetime (cybox.objects.network_route_entry_object.NetworkRouteEntry attribute), 161, 368
- valid_lifetime (cybox.objects.network_route_object.NetRoute attribute), 162, 369
- Validity (class in cybox.objects.x509_certificate_object), 267, 475
- validity (cybox.objects.x509_certificate_object.X509Cert attribute), 269, 476
- value (cybox.objects.domain_name_object.DomainName attribute), 85, 291
- value (cybox.objects.http_session_object.HTTPRequestLine attribute), 104, 311
- value (cybox.objects.uri_object.URI attribute), 185, 392
- value (cybox.objects.win_executable_file_object.Entropy attribute), 210, 417
- values (cybox.objects.win_registry_key_object.WinRegistryKey attribute), 249, 457
- vary (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 109, 315
- vendor (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 321
- vendor (cybox.objects.product_object.Product attribute), 177, 384
- version (cybox.objects.archive_file_object.ArchiveFile attribute), 72, 277
- version (cybox.objects.file_object.Packer attribute), 96, 302
- version (cybox.objects.http_session_object.HTTPRequestLine attribute), 105, 311
- version (cybox.objects.http_session_object.HTTPStatusLine attribute), 111, 318
- version (cybox.objects.library_object.Library attribute), 114, 320
- version (cybox.objects.linux_package_object.LinuxPackage attribute), 115, 322
- version (cybox.objects.pdf_file_object.PDFFile attribute), 169, 375
- version (cybox.objects.product_object.Product attribute), 177, 384
- version (cybox.objects.x509_certificate_object.X509Cert attribute), 269, 476
- via (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296

- via (cybox.objects.http_session_object.HTTPRequestHeaderFields (class in cybox.objects.http_session_object), 103, 310)
- via (cybox.objects.http_session_object.HTTPResponseHeaderFields (class in cybox.objects.http_session_object), 109, 316)
- virtual_address (cybox.objects.win_executable_file_object.PEDataDirectoryStruct (class in cybox.objects.win_executable_file_object), 211, 418)
- virtual_address (cybox.objects.win_executable_file_object.PEImport (class in cybox.objects.win_executable_file_object), 215, 423)
- virtual_address (cybox.objects.win_executable_file_object.PEImportedFunctionList (class in cybox.objects.win_executable_file_object), 216, 423)
- virtual_address (cybox.objects.win_executable_file_object.PEResource (class in cybox.objects.win_executable_file_object), 221, 428)
- virtual_address (cybox.objects.win_executable_file_object.PESectionHeaderStruct (class in cybox.objects.win_executable_file_object), 223, 430)
- virtual_size (cybox.objects.win_executable_file_object.PESectionHeaderStruct (class in cybox.objects.win_executable_file_object), 224, 431)
- vlan_name (cybox.objects.address_object.Address (class in cybox.objects.address_object), 70, 275)
- vlan_num (cybox.objects.address_object.Address (class in cybox.objects.address_object), 70, 275)
- VocabString (class in cybox.common.vocabs), 32, 50
- Volume (class in cybox.objects.volume_object), 187, 394
- Volume (class in cybox.objects.win_prefetch_object), 242, 450
- volume (cybox.objects.win_prefetch_object.WinPrefetch (class in cybox.objects.win_prefetch_object), 244, 451)
- volumeitem (cybox.objects.win_prefetch_object.Volume (class in cybox.objects.win_prefetch_object), 243, 450)
- win32_version_value (cybox.objects.gui_object.GUI (class in cybox.objects.gui_object), 97, 304)
- win_executable_file_object.OptionalHeader (class in cybox.objects.win_executable_file_object), 220, 427)
- win_computer_account_object (class in cybox.objects.win_computer_account_object), 195, 402)
- WinCriticalSection (class in cybox.objects.win_critical_section_object), 196, 403)
- win_critical_section_object (class in cybox.objects.win_critical_section_object), 196, 403)
- win_network_packet_object.TCPHeader (class in cybox.objects.network_packet_object), 158, 364)
- win_gui_window_object.GUIWindow (class in cybox.objects.gui_window_object), 98, 304)
- win_process_object.WinProcess (class in cybox.objects.win_process_object), 247, 454)
- win_system_object.WinSystem (class in cybox.objects.win_system_object), 254, 461)
- win_system_directory (class in cybox.objects.win_system_object), 254, 461)
- win_system_object.WinSystem (class in cybox.objects.win_system_object), 254, 461)
- win_system_temp_directory (class in cybox.objects.win_system_object), 254, 461)
- WindowsFileAttribute (class in cybox.objects.win_file_object), 229, 436)
- WindowsFileAttributes (class in cybox.objects.win_file_object), 229, 436)
- WindowsFilePermissions (class in cybox.objects.win_file_object), 229, 436)
- WindowsVolumeAttributesList (class in cybox.objects.win_volume_object), 266, 473)
- WinDriver (class in cybox.objects.win_driver_object), 198, 405)
- WinEvent (class in cybox.objects.win_event_object), 205, 412)
- WinEventLog (class in cybox.objects.win_event_log_object), 202, 409)
- WinExecutableFile (class in cybox.objects.win_executable_file_object), 225, 432)
- WinFile (class in cybox.objects.win_file_object), 227, 435)
- WinFilemapping (class in cybox.objects.win_filemapping_object), 230, 437)
- WinGroup (class in cybox.objects.win_user_object), 264, 471)
- WinGroupList (class in cybox.objects.win_user_object), 264, 472)
- whois_server (cybox.objects.whois_object.WhoisRegistrar (class in cybox.objects.whois_object), 193, 400)
- WhoisContact (class in cybox.objects.whois_object), 188, 395)
- WhoisContacts (class in cybox.objects.whois_object), 189, 396)
- WhoisEntry (class in cybox.objects.whois_object), 190, 397)
- WhoisNameservers (class in cybox.objects.whois_object), 192, 399)
- WhoisRegistrant (class in cybox.objects.whois_object), 192, 399)
- WhoisRegistrants (class in cybox.objects.whois_object), 192, 399)
- WhoisRegistrar (class in cybox.objects.whois_object), 192, 399)
- WhoisStatus (class in cybox.objects.whois_object), 193, 400)
- WhoisStatuses (class in cybox.objects.whois_object), 193, 400)

- WinHandle (class in cybox.objects.win_handle_object), 231, 438
- WinHandleList (class in cybox.objects.win_handle_object), 232, 439
- WinHook (class in cybox.objects.win_hook_object), 232, 439
- WinKernel (class in cybox.objects.win_kernel_object), 234, 442
- WinKernelHook (class in cybox.objects.win_kernel_hook_object), 235, 440
- WinMailslot (class in cybox.objects.win_mailslot_object), 236, 443
- WinMemoryPageRegion (class in cybox.objects.win_memory_page_region_object), 237, 444
- WinMutex (class in cybox.objects.win_mutex_object), 239, 446
- WinNetworkRouteEntry (class in cybox.objects.win_network_route_entry_object), 239, 446
- WinNetworkShare (class in cybox.objects.win_network_share_object), 240, 447
- WinPipe (class in cybox.objects.win_pipe_object), 241, 448
- WinPrefetch (class in cybox.objects.win_prefetch_object), 243, 450
- WinPrivilege (class in cybox.objects.win_user_object), 264, 472
- WinPrivilegeList (class in cybox.objects.win_user_object), 265, 472
- WinProcess (class in cybox.objects.win_process_object), 246, 453
- WinRegistryKey (class in cybox.objects.win_registry_key_object), 248, 455
- WinSemaphore (class in cybox.objects.win_semaphore_object), 252, 457
- WinService (class in cybox.objects.win_service_object), 250, 457
- WinSystem (class in cybox.objects.win_system_object), 253, 460
- WinSystemRestore (class in cybox.objects.win_system_restore_object), 254, 462
- WinTask (class in cybox.objects.win_task_object), 260, 467
- WinThread (class in cybox.objects.win_thread_object), 263, 470
- WinUser (class in cybox.objects.win_user_object), 265, 472
- WinVolume (class in cybox.objects.win_volume_object), 265, 473
- WinWaitableTimer (class in cybox.objects.win_waitable_timer_object), 266, 474
- with_ (cybox.objects.email_message_object.ReceivedLine attribute), 90, 296
- work_item_data (cybox.objects.win_task_object.WinTask attribute), 262, 470
- working_directory (cybox.objects.win_task_object.WinTask attribute), 262, 470
- wrap_cdata() (in module cybox.utils), 481
- write (cybox.objects.win_file_object.WindowsFilePermissions attribute), 229, 436
- write_time (cybox.objects.win_event_log_object.WinEventLog attribute), 204, 412
- wshowwindow (cybox.objects.win_process_object.StartupInfo attribute), 246, 453
- www_authenticate (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 110, 316
- ## X
- X509Cert (class in cybox.objects.x509_certificate_object), 268, 475
- X509Certificate (class in cybox.objects.x509_certificate_object), 269, 476
- X509CertificateSignature (class in cybox.objects.x509_certificate_object), 269, 477
- X509NonStandardExtensions (class in cybox.objects.x509_certificate_object), 270, 477
- X509V3Extensions (class in cybox.objects.x509_certificate_object), 270, 478
- x_att_deviceid (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 104, 310
- x_content_type_options (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 110, 316
- x_forwarded_for (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 104, 310
- x_forwarded_proto (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 104, 310
- x_frame_options (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 110, 316
- x_mailer (cybox.objects.email_message_object.EmailHeader attribute), 88, 294
- x_originating_ip (cybox.objects.email_message_object.EmailHeader attribute), 88, 294

x_powered_by (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 110, 316

x_priority (cybox.objects.email_message_object.EmailHeader attribute), 88, 294

x_requested_with (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 104, 310

x_ua_compatible (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 110, 316

x_wap_profile (cybox.objects.http_session_object.HTTPRequestHeaderFields attribute), 104, 310

x_xss_protection (cybox.objects.http_session_object.HTTPResponseHeaderFields attribute), 110, 316

xfa_count (cybox.objects.pdf_file_object.PDFKeywordCounts attribute), 172, 379

xor() (in module cybox.objects.artifact_object), 74, 281

xor_pattern (cybox.objects.code_object.CodeSegmentXOR attribute), 78, 284

XOREncryption (class in cybox.objects.artifact_object), 74, 281

Z

ZlibCompression (class in cybox.objects.artifact_object), 74, 281