

# MISP Objects

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MISP MISP objects to be used in MISP (2.4.80 (TBC)) system and can be used by other information sharing tool. MISP objects are in addition to MISP attributes to allow advanced combinations of attributes. The creation of these objects and their associated attributes are based on real cyber security use-cases and existing practices in information sharing.

## ail-leak

An information leak as defined by the AIL Analysis Information Leak framework..



ail-leak is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
original-date	datetime	When the information available in the leak was created. It's usually before the first-seen.	✓
origin	url	The link where the leak is (or was) accessible at first-seen.	—
text	text	A description of the leak which could include the potential victim(s) or description of the leak.	✓
type	text	Type of information leak as discovered and classified by an AIL module.	—

Object attribute	MISP attribute type	Description	Disable correlation
first-seen	datetime	When the leak has been accessible or seen for the first time.	✓
sensor	text	The AIL sensor uuid where the leak was processed and analysed.	—
last-seen	datetime	When the leak has been accessible or seen for the last time.	✓

## cookie

An HTTP cookie (web cookie, browser cookie) is a small piece of data that a server sends to the user's web browser. The browser may store it and send it back with the next request to the same server. Typically, it's used to tell if two requests came from the same browser — keeping a user logged-in, for example. It remembers stateful information for the stateless HTTP protocol. (as defined by the Mozilla foundation..



cookie is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
type	text	Type of cookie and how it's used in this specific object.	—
cookie-value	text	Value of the cookie (if splitted)	—
cookie-name	text	Name of the cookie (if splitted)	—
text	text	A description of the cookie.	✓
cookie	cookie	Full cookie	—

# ddos

DDoS object describes a current DDoS activity from a specific or/and to a specific target. Type of DDoS can be attached to the object as a taxonomy.



ddos is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
total-pps	counter	Packets per second	—
text	text	Description of the DDoS	—
dst-port	port	Destination port of the attack	—
src-port	port	Port originating the attack	—
protocol	text	Protocol used for the attack	—
last-seen	datetime	End of the attack	—
first-seen	datetime	Beginning of the attack	—
ip-src	ip-src	IP address originating the attack	—
total-bps	counter	Bits per second	—
ip-dst	ip-dst	Destination ID (victim)	—

## domain | ip

A domain and IP address seen as a tuple in a specific time frame..



domain|ip is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
domain	domain	Domain name	—
first-seen	datetime	First time the tuple has been seen	—
ip	ip-dst	IP Address	—
text	text	A description of the tuple	—
last-seen	datetime	Last time the tuple has been seen	—

## elf

Object describing a Executable and Linkable Format.



elf is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
os_abi	text	Header operating system application binary interface (ABI)	—
number-sections	counter	Number of sections	✓
text	text	Free text value to attach to the ELF	✓
type	text	Type of ELF	—
entrypoint-address	text	Address of the entry point	✓
arch	text	Architecture of the ELF file	—

## elf-section

Object describing a section of an Executable and Linkable Format.



elf-section is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
sha384	sha384	Secure Hash Algorithm 2 (384 bits)	—
sha512/224	sha512/224	Secure Hash Algorithm 2 (224 bits)	—
name	text	Name of the section	✓
sha256	sha256	Secure Hash Algorithm 2 (256 bits)	—
type	text	Type of the section	—
ssdeep	ssdeep	Fuzzy hash using context triggered piecewise hashes (CTPH)	—
entropy	float	Entropy of the whole section	✓
sha224	sha224	Secure Hash Algorithm 2 (224 bits)	—
sha1	sha1	[Insecure] Secure Hash Algorithm 1 (160 bits)	—
sha512	sha512	Secure Hash Algorithm 2 (512 bits)	—
sha512/256	sha512/256	Secure Hash Algorithm 2 (256 bits)	—
text	text	Free text value to attach to the section	✓
md5	md5	[Insecure] MD5 hash (128 bits)	—

Object attribute	MISP attribute type	Description	Disable correlation
size-in-bytes	size-in-bytes	Size of the section, in bytes	✓
flag	text	Flag of the section	—

## email

Email object describing an email with meta-information.



email is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
x-mailer	email-x-mailer	X-Mailer generally tells the program that was used to draft and send the original email	—
message-id	email-message-id	Message ID	—
from-display-name	email-src-display-name	Display name of the sender	—
thread-index	email-thread-index	Identifies a particular conversation thread	—
send-date	datetime	Date the email has been sent	✓
subject	email-subject	Subject	—
to	email-dst	Destination email address	—
reply-to	email-reply-to	Email address the reply will be sent to	—
header	email-header	Full headers	—
attachment	email-attachment	Attachment	—



Object attribute	MISP attribute type	Description	Disable correlation
mime-boundary	email-mime-boundary	MIME Boundary	—
from	email-src	Sender email address	—
to-display-name	email-dst-display-name	Display name of the receiver	—

## file

File object describing a file with meta-information.



file is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
sha384	sha384	Secure Hash Algorithm 2 (384 bits)	—
sha512/224	sha512/224	Secure Hash Algorithm 2 (224 bits)	—
tlsh	tlsh	Fuzzy hash by Trend Micro: Locality Sensitive Hash	—
sha256	sha256	Secure Hash Algorithm 2 (256 bits)	—
ssdeep	ssdeep	Fuzzy hash using context triggered piecewise hashes (CTPH)	—
entropy	float	Entropy of the whole file	✓
pattern-in-file	pattern-in-file	Pattern that can be found in the file	—
sha224	sha224	Secure Hash Algorithm 2 (224 bits)	—

Object attribute	MISP attribute type	Description	Disable correlation
malware-sample	malware-sample	The file itself (binary)	—
sha1	sha1	[Insecure] Secure Hash Algorithm 1 (160 bits)	—
sha512	sha512	Secure Hash Algorithm 2 (512 bits)	—
sha512/256	sha512/256	Secure Hash Algorithm 2 (256 bits)	—
text	text	Free text value to attach to the file	✓
md5	md5	[Insecure] MD5 hash (128 bits)	—
size-in-bytes	size-in-bytes	Size of the file, in bytes	✓
filename	filename	Filename on disk	—
authentihash	authentihash	Authenticode executable signature hash	—
mimetype	text	Mime type	✓

## geolocation

An object to describe a geographic location..



geolocation is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
longitude	float	The longitude is the decimal value of the longitude in the World Geodetic System 84 (WGS84) reference	✓
region	text	Region.	—

Object attribute	MISP attribute type	Description	Disable correlation
latitude	float	The latitude is the decimal value of the latitude in the World Geodetic System 84 (WGS84) reference.	✓
text	text	A generic description of the location.	✓
first-seen	datetime	When the location was seen for the first time.	✓
city	text	City.	—
altitude	float	The altitude is the decimal value of the altitude in the World Geodetic System 84 (WGS84) reference.	—
country	text	Country.	—
last-seen	datetime	When the location was seen for the last time.	✓

## http-request

A single HTTP request header.



http-request is a MISP object available in JSON format at [this location](#). The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
user-agent	user-agent	The user agent string of the user agent	—
host	hostname	The domain name of the server	—
proxy-user	text	HTTP Proxy Username	—

Object attribute	MISP attribute type	Description	Disable correlation
content-type	other	The MIME type of the body of the request	—
url	url	Full HTTP Request URL	—
proxy-password	text	HTTP Proxy Password	—
referer	referer	This is the address of the previous web page from which a link to the currently requested page was followed	—
method	http-method	HTTP Method invoked (one of GET, POST, PUT, HEAD, DELETE, OPTIONS, CONNECT)	✓
cookie	text	An HTTP cookie previously sent by the server with Set-Cookie	—
basicauth-password	text	HTTP Basic Authentication Password	—
uri	uri	Request URI	—
text	text	HTTP Request comment	✓
basicauth-user	text	HTTP Basic Authentication Username	—

## ip | port

An IP address and a port seen as a tuple (or as a triple) in a specific time frame..



ip|port is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
text	text	Description of the tuple	—
dst-port	text	Destination port	—
src-port	text	Source port	—
first-seen	datetime	First time the tuple has been seen	—
ip	ip-dst	IP Address	—
last-seen	datetime	Last time the tuple has been seen	—

## macho

Object describing a file in Mach-O format..



macho is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
number-sections	counter	Number of sections	✓
name	text	Binary's name	—
entrypoint-address	text	Address of the entry point	✓
text	text	Free text value to attach to the Mach-O file	✓
type	text	Type of Mach-O	—

## macho-section

Object describing a section of a file in Mach-O format..



macho-section is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
sha384	sha384	Secure Hash Algorithm 2 (384 bits)	—
sha512/224	sha512/224	Secure Hash Algorithm 2 (224 bits)	—
name	text	Name of the section	✓
sha256	sha256	Secure Hash Algorithm 2 (256 bits)	—
ssdeep	ssdeep	Fuzzy hash using context triggered piecewise hashes (CTPH)	—
entropy	float	Entropy of the whole section	✓
sha224	sha224	Secure Hash Algorithm 2 (224 bits)	—
sha1	sha1	[Insecure] Secure Hash Algorithm 1 (160 bits)	—
sha512	sha512	Secure Hash Algorithm 2 (512 bits)	—
sha512/256	sha512/256	Secure Hash Algorithm 2 (256 bits)	—
text	text	Free text value to attach to the section	✓
md5	md5	[Insecure] MD5 hash (128 bits)	—
size-in-bytes	size-in-bytes	Size of the section, in bytes	✓

## passive-dns

Passive DNS records as expressed in draft-dulaunoy-dnsop-passive-dns-cof-01.



passive-dns is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
time_last	datetime	Last time that the unique tuple (rrname, rrtype, rdata) record has been seen by the passive DNS	—
rrtype	text	Resource Record type as seen by the passive DNS	—
origin	text	Origin of the Passive DNS response	—
rrname	text	Resource Record name of the queried resource	—
sensor_id	text	Sensor information where the record was seen	—
rdata	text	Resource records of the queried resource	—
zone_time_last	datetime	Last time that the unique tuple (rrname, rrtype, rdata) record has been seen via master file import	—
zone_time_first	datetime	First time that the unique tuple (rrname, rrtype, rdata) record has been seen via master file import	—
text	text	—	—

Object attribute	MISP attribute type	Description	Disable correlation
time_first	datetime	First time that the unique tuple (rrname, rrtype, rdata) has been seen by the passive DNS	—
count	counter	How many authoritative DNS answers were received at the Passive DNS Server's collectors with exactly the given set of values as answers	—
bailiwick	text	Best estimate of the apex of the zone where this data is authoritative	—

## pe

Object describing a Portable Executable.



pe is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
company-name	text	CompanyName in the resources	✓
file-description	text	FileDescription in the resources	✓
internal-filename	filename	InternalFilename in the resources	—
product-version	text	ProductVersion in the resources	✓
lang-id	text	Lang ID in the resources	✓



Object attribute	MISP attribute type	Description	Disable correlation
type	text	Type of PE	✓
original-filename	filename	OriginalFilename in the resources	—
entrypoint-address	text	Address of the entry point	✓
impfuzzy	impfuzzy	Fuzzy Hash (ssdeep) calculated from the import table	—
number-sections	counter	Number of sections	✓
imphash	imphash	Hash (md5) calculated from the import table	—
legal-copyright	text	LegalCopyright in the resources	✓
text	text	Free text value to attach to the PE	✓
pehash	pehash	Hash of the structural information about a sample. See <a href="https://www.usenix.org/legacy/event/leet09/tech/full_papers/wicherski/wicherski_html/">https://www.usenix.org/legacy/event/leet09/tech/full_papers/wicherski/wicherski_html/</a>	—
entrypoint-section-at-position	text	Name of the section and position of the section in the PE	✓
compilation-timestamp	datetime	Compilation timestamp defined in the PE header	—
file-version	text	FileVersion in the resources	✓

Object attribute	MISP attribute type	Description	Disable correlation
product-name	text	ProductName in the resources	✓

## pe-section

Object describing a section of a Portable Executable.



pe-section is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
sha384	sha384	Secure Hash Algorithm 2 (384 bits)	—
sha512/224	sha512/224	Secure Hash Algorithm 2 (224 bits)	—
name	text	Name of the section	✓
sha256	sha256	Secure Hash Algorithm 2 (256 bits)	—
ssdeep	ssdeep	Fuzzy hash using context triggered piecewise hashes (CTPH)	—
characteristic	text	Characteristic of the section	—
entropy	float	Entropy of the whole section	✓
sha224	sha224	Secure Hash Algorithm 2 (224 bits)	—
sha1	sha1	[Insecure] Secure Hash Algorithm 1 (160 bits)	—
sha512	sha512	Secure Hash Algorithm 2 (512 bits)	—

Object attribute	MISP attribute type	Description	Disable correlation
sha512/256	sha512/256	Secure Hash Algorithm 2 (256 bits)	—
text	text	Free text value to attach to the section	✓
md5	md5	[Insecure] MD5 hash (128 bits)	—
size-in-bytes	size-in-bytes	Size of the section, in bytes	✓

## phone

A phone or mobile phone object which describe a phone..



phone is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
imsi	text	A usually unique International Mobile Subscriber Identity (IMSI) is allocated to each mobile subscriber in the GSM/UMTS/EPS system. IMSI can also refer to International Mobile Station Identity in the ITU nomenclature.	—
tmsi	text	Temporary Mobile Subscriber Identities (TMSI) to visiting mobile subscribers can be allocated.	—
text	text	A description of the phone.	✓

Object attribute	MISP attribute type	Description	Disable correlation
first-seen	datetime	When the phone has been accessible or seen for the first time.	✓
guti	text	Globally Unique Temporary UE Identity (GUTI) is a temporary identification to not reveal the phone (user equipment in 3GPP jargon) composed of GUMMEI and the M-TMSI.	—
imei	text	International Mobile Equipment Identity (IMEI) is a number, usually unique, to identify 3GPP and iDEN mobile phones, as well as some satellite phones.	—
gummei	text	Globally Unique MME Identifier (GUMMEI) is composed from MCC, MNC and MME Identifier (MMEI).	—

Object attribute	MISP attribute type	Description	Disable correlation
msisdn	text	MSISDN (pronounced as /'em es ai es di en/ or misden) is a number uniquely identifying a subscription in a GSM or a UMTS mobile network. Simply put, it is the mapping of the telephone number to the SIM card in a mobile/cellular phone. This abbreviation has a several interpretations, the most common one being Mobile Station International Subscriber Directory Number.	—
serial-number	text	Serial Number.	—
last-seen	datetime	When the phone has been accessible or seen for the last time.	✓

## r2graphity

Indicators extracted from files using radare2 and graphml.



r2graphity is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
gml	attachment	Graph export in G>raph Modelling Language format	✓
shortest-path-to-create-thread	counter	Shortest path to the first time the binary calls CreateThread	✓

Object attribute	MISP attribute type	Description	Disable correlation
callbacks	counter	Amount of callbacks (functions started as thread)	✓
miss-api	counter	Amount of API call reference that does not resolve to a function offset	✓
referenced-strings	counter	Amount of referenced strings	✓
total-api	counter	Total amount of API calls	✓
not-referenced-strings	counter	Amount of not referenced strings	✓
text	text	Description of the r2graphity object	✓
ratio-string	float	Ratio: amount of referenced strings per kilobyte of code section	✓
get-proc-address	counter	Amount of calls to GetProcAddress	✓
refsglobalvar	counter	Amount of API calls outside of code section (glob var, dynamic API)	✓
create-thread	counter	Amount of calls to CreateThread	✓
total-functions	counter	Total amount of functions in the file.	✓
memory-allocations	counter	Amount of memory allocations	✓
callback-average	counter	Average size of a callback	✓

Object attribute	MISP attribute type	Description	Disable correlation
local-references	counter	Amount of API calls inside a code section	✓
r2-commit-version	text	Radare2 commit ID used to generate this object	✓
ratio-api	float	Ratio: amount of API calls per kilobyte of code section	✓
unknown-references	counter	Amount of API calls not ending in a function (Radare2 bug, probalby)	✓
dangling-strings	counter	Amount of dangling strings (string with a code cross reference, that is not within a function. Radare2 failed to detect that function.)	✓
callback-largest	counter	Largest callback	✓
ratio-functions	float	Ratio: amount of functions per kilobyte of code section	✓

## registry-key

Registry key object describing a Windows registry key with value and last-modified timestamp.



registry-key is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
name	reg-name	Name of the registry key	—

Object attribute	MISP attribute type	Description	Disable correlation
hive	reg-hive	Hive used to store the registry key (file on disk)	—
last-modified	datetime	Last time the registry key has been modified	—
data-type	reg-datatype	Registry value type	—
key	reg-key	Full key path	—
data	reg-data	Data stored in the registry key	—

## tor-node

Tor node (which protects your privacy on the internet by hiding the connection between users Internet address and the services used by the users) description which are part of the Tor network at a time..



tor-node is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
nickname	text	router's nickname.	—
address	ip-src	IP address of the Tor node seen.	—
version	text	parsed version of tor, this is None if the relay's using a new versioning scheme.	—
published	datetime	router's publication time. This can be different from first-seen and last-seen.	✓
fingerprint	text	router's fingerprint.	—
description	text	Tor node description.	✓



Object attribute	MISP attribute type	Description	Disable correlation
flags	text	list of flag associated with the node.	—
text	text	Tor node comment.	✓
first-seen	datetime	When the Tor node designed by the IP address has been seen for the first time.	✓
version_line	text	versioning information reported by the node.	—
document	text	Raw document from the consensus.	✓
last-seen	datetime	When the Tor node designed by the IP address has been seen for the last time.	✓

## url

url object describes an url along with its normalized field (like extracted using faup parsing library) and its metadata..



url is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
domain	domain	Full domain	—
fragment	text	Fragment identifier is a short string of characters that refers to a resource that is subordinate to another, primary resource.	—
query_string	text	Query (after path, preceded by '?')	—

Object attribute	MISP attribute type	Description	Disable correlation
url	url	Full URL	—
port	text	Port number	—
domain_without_tld	text	Domain without Top-Level Domain	—
subdomain	text	Subdomain	—
resource_path	text	Path (between hostname:port and query)	—
credential	text	Credential (username, password)	—
text	text	Description of the URL	—
first-seen	datetime	First time this URL has been seen	—
scheme	text	Scheme	—
last-seen	datetime	Last time this URL has been seen	—
host	hostname	Full hostname	—
tld	text	Top-Level Domain	—

## vulnerability

Vulnerability object describing common vulnerability enumeration.



vulnerability is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
summary	text	Summary of the vulnerability	—

Object attribute	MISP attribute type	Description	Disable correlation
modified	datetime	Last modification date	—
text	text	Description of the vulnerability	—
references	link	External references	—
id	vulnerability	Vulnerability ID (generally CVE, but not necessarily)	—
vulnerable_configuration	text	The vulnerable configuration is described in CPE format	—
published	datetime	Initial publication date	—

## whois

Whois records information for a domain name..



whois is a MISP object available in JSON format at [this location](#) The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
registrar	whois-registrar	Registrar of the whois entry	—
creation-date	datetime	Initial creation of the whois entry	—
registrant-name	whois-registrant-name	Registrant name	—
domain	domain	Domain of the whois entry	—
text	text	Full whois entry	—
registrant-phone	whois-registrant-phone	Registrant phone number	—

Object attribute	MISP attribute type	Description	Disable correlation
registrant-email	whois-registrant-email	Registrant email address	—
expiration-date	datetime	Expiration of the whois entry	—
modification-date	datetime	Last update of the whois entry	—

## x509

x509 object describing a X.509 certificate.



x509 is a MISP object available in JSON format at [this location](#). The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Object attribute	MISP attribute type	Description	Disable correlation
pubkey-info-algorithm	text	Algorithm of the public key	—
pubkey-info-exponent	text	Exponent of the public key	—
text	text	Free text description of the certificate	—
pubkey-info-size	text	Length of the public key (in bits)	—
validity-not-after	datetime	Certificate invalid after that date	—
subject	text	Subject of the certificate	—
version	text	Version of the certificate	—
serial-number	text	Serial number of the certificate	—
issuer	text	Issuer of the certificate	—

Object attribute	MISP attribute type	Description	Disable correlation
x509-fingerprint-sha256	sha256	Secure Hash Algorithm 2 (256 bits)	—
x509-fingerprint-sha1	sha1	[Insecure] Secure Hash Algorithm 1 (160 bits)	—
x509-fingerprint-md5	md5	[Insecure] MD5 hash (128 bits)	—
validity-not-before	datetime	Certificate invalid before that date	—
raw-base64	text	Raw certificate base64 encoded	—
pubkey-info-modulus	text	Modulus of the public key	—

## Relationships

Default type of relationships in MISP objects.

Relationships are part of MISP object and available in JSON format at [this location](#). The JSON format can be freely reused in your application or automatically enabled in [MISP](#).

Name of relationship	Description	Format
derived-from	The information in the target object is based on information from the source object.	['misp', 'stix-2.0']
duplicate-of	The referenced source and target objects are semantically duplicates of each other.	['misp', 'stix-2.0']
related-to	The referenced source is related to the target object.	['misp', 'stix-2.0']
attributed-to	This referenced source is attributed to the target object.	['misp', 'stix-2.0']
targets	This relationship describes that the source object targets the target object.	['misp', 'stix-2.0']
uses	This relationship describes the use by the source object of the target object.	['misp', 'stix-2.0']

Name of relationship	Description	Format
indicates	This relationships describes that the source object indicates the target object.	['misp', 'stix-2.0']
mitigates	This relationship describes a source object which mitigates the target object.	['misp', 'stix-2.0']
variant-of	This relationship describes a source object which is a variant of the target object	['misp', 'stix-2.0']
impersonates	This relationship describe a source object which impersonates the target object	['misp', 'stix-2.0']
authored-by	This relationship describes the author of a specific object.	['misp']
located	This relationship describes the location (of any type) of a specific object.	['misp']
included-in	This relationship describes an object included in another object.	['misp']
analysed-with	This relationship describes an object analysed by another object.	['misp']
claimed-by	This relationship describes an object claimed by another object.	['misp']
communicates-with	This relationship describes an object communicating with another object.	['misp']
dropped-by	This relationship describes an object dropped by another object.	['misp']
executed-by	This relationship describes an object executed by another object.	['misp']
affects	This relationship describes an object affected by another object.	['misp']
beacons_to	This relationship describes an object beaconing to another object.	['misp']
abuses	This relationship describes an object which abuses another object.	['misp']

<b>Name of relationship</b>	<b>Description</b>	<b>Format</b>
exfiltrates_to	This relationship describes an object exfiltrating to another object.	['misp']
identifies	This relationship describes an object which identifies another object.	['misp']
intercepts	This relationship describes an object which intercepts another object.	['misp']
calls	This relationship describes an object which calls another objects.	['misp']