MISP Objects

MISP Objects

Generated from https://github.com/MISP/misp-objects.

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
sensor	text	-	-
last-seen	datetime	-	✔
type	text	Type of information leak as discovered and classified by an AIL module. ['Credential', 'CreditCards', 'Mail', 'Onion', 'Phone', 'Keys']	-
origin	url	-	-
first-seen	datetime	-	✔
original-date	datetime	-	✔
text	text	-	✔

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
cookie-value	text	-	-
cookie-name	text	-	-
text	text	-	✔
cookie	cookie	-	-
type	text	Type of cookie and how it's used in this specific object. ['Session management', 'Personalization', 'Tracking', 'Exfiltration', 'Malicious Payload', 'Beaconing']	-

credit-card

A payment card like credit card, debit card or any similar cards which can be used for financial transactions..

credit-card 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
expiration	datetime	-	-
issued	datetime	-	-
card-security-code	text	-	-

Object attribute	MISP attribute type	Description	Disable correlation
version	text	-	-
cc-number	cc-number	-	-
name	text	-	-
comment	comment	-	-

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
ip-src	ip-src	-	-
total-pps	counter	-	-
last-seen	datetime	-	-
total-bps	counter	-	-
dst-port	port	-	-
protocol	text	Protocol used for the attack ['TCP', 'UDP', 'ICMP', 'IP']	-
first-seen	datetime	-	-
src-port	port	-	-
text	text	-	-
ip-dst	ip-dst	-	-

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
ip	ip-dst	-	-
first-seen	datetime	-	-
last-seen	datetime	-	-
text	text	-	-
domain	domain	-	-

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
entrypoint-address	text	-	✔
os_abi	text	Header operating system application binary interface (ABI) ['AIX', 'ARM', 'AROS', 'C6000_ELFABI', 'C6000_LINUX', 'CLOUDABI', 'FENIXOS', 'FREEBSD', 'GNU', 'HPUX', 'HURD', 'IRIX', 'MODESTO', 'NETBSD', 'NSK', 'OPENBSD', 'OPENVMS', 'SOLARIS', 'STANDALONE', 'SYSTEMV', 'TRU64']	-
number-sections	counter	-	✔

Object attribute	MISP attribute type	Description	Disable correlation
type	text	Type of ELF ['CORE', 'DYNAMIC', 'EXECUTABLE', 'HIPROC', 'LOPROC', 'NONE', 'RELOCATABLE']	-
text	text	-	✔

Object attribute	MISP attribute type	Description	Disable correlation
arch	text	Architecture of the ELF file ['None', 'M32', 'SPARC', 'i386', 'ARCH_68K', 'ARCH_88K', 'IAMCU', 'ARCH_860', 'MIPS', 'S370', 'MIPS_RS3_LE', 'PARISC', 'VPP500', 'SPARC32PLUS', 'ARCH_960', 'PPC', 'PPC64', 'S390', 'SPU', 'V800', 'FR20', 'RH32', 'RCE', 'ARM', 'ALPHA', 'SH', 'SPARCV9', 'TRICORE', 'ARC', 'H8_300', 'H8_300H', 'H8S', 'H8_500', 'IA_64', 'MIPS_X', 'COLDFIRE', 'ARCH_68HC12', 'MMA', 'PCP', 'NCPU', 'NDR1', 'STARCORE', 'ME16', 'ST100', 'TINYJ', 'x86_64', 'PDSP', 'PDP10', 'PDP11', 'FX66', 'ST9PLUS', 'ST7', 'ARCH_68HC16', 'ARCH_68HC11', 'ARCH_68HC08', 'ARCH_68HC05', 'SVX', 'ST19', 'VAX', 'CRIS', 'JAVELIN', 'FIREPATH', 'ZSP', 'MMIX', 'HUANY', 'PRISM', 'AVR', 'FR30', 'D10V', 'D30V', 'V850', 'M32R', 'MN10300', 'MN10200', 'PJ', 'OPENRISC', 'ARC_COMPACT', 'XTENSA', 'VIDEOCORE', 'TMM_GPP', 'NS32K', 'TPC', 'SNP1K', 'ST200', 'IP2K', 'MAX', 'CR', 'F2MC16', 'MSP430', 'BLACKFIN', 'SE_C33', 'SEP', 'ARCA', 'UNICORE', 'EXCESS', 'DXP', 'ALTERA_NIOS2', 'CRX', 'XGATE', 'C166',	-

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
md5	md5	-	-
sha224	sha224	-	-
size-in-bytes	size-in-bytes	-	✔
text	text	-	✔
entropy	float	-	✔
flag	text	Flag of the section ['ALLOC', 'EXCLUDE', 'EXECINSTR', 'GROUP', 'HEX_GPREL', 'INFO_LINK', 'LINK_ORDER', 'MASKOS', 'MASKPROC', 'MERGE', 'MIPS_ADDR', 'MIPS_LOCAL', 'MIPS_MERGE', 'MIPS_NAMES', 'MIPS_NODUPES', 'MIPS_NOSTRIP', 'NONE', 'OS_NONCONFORMING', 'STRINGS', 'TLS', 'WRITE', 'XCORE_SHF_CP_SECTION']	✔
sha512	sha512	-	-

'M16C', 'DSPIC30F', 'CE', 'M32C', 'TSK3000', 'RS08', 'SHARC', 'ECOG2', 'SCORE7', 'DSP24', 'VIDEOCORE3', 'LATTICEMICO32', 'KVARC', 'CDP', 'COGE', 'COOL', 'NORC', 'CSR_KALIMBA', 'AMDGPU']

Object attribute	MISP attribute type	Description	Disable correlation
type	text	Type of the section ['NULL', 'PROGBITS', 'SYMTAB', 'STRTAB', 'RELA', 'HASH', 'DYNAMIC', 'NOTE', 'NOBITS', 'REL', 'SHLIB', 'DYNSYM', 'INIT_ARRAY', 'FINI_ARRAY', 'PREINIT_ARRAY', 'GROUP', 'SYMTAB_SHNDX', 'LOOS', 'GNU_ATTRIBUTES', 'GNU_HASH', 'GNU_VERDEF', 'GNU_VERNEED', 'GNU_VERSYM', 'HIOS', 'LOPROC', 'ARM_EXIDX', 'ARM_PREEMPTMAP', 'HEX_ORDERED', 'X86_64_UNWIND', 'MIPS_REGINFO', 'MIPS_OPTIONS', 'MIPS_ABIFLAGS', 'HIPROC', 'LOUSER', 'HIUSER']	✔
sha384	sha384	-	-
sha1	sha1	-	-
sha512/224	sha512/224	-	-
sha512/256	sha512/256	-	-
ssdeep	ssdeep	-	-
name	text	-	✔
sha256	sha256	-	-

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
attachment	email-attachment	-	-
message-id	email-message-id	-	-
thread-index	email-thread-index	-	-
from	email-src	-	-
from-display-name	email-src-display-name	-	-
to	email-dst	-	-
x-mailer	email-x-mailer	-	-
send-date	datetime	-	✔
subject	email-subject	-	-
header	email-header	-	-
mime-boundary	email-mime-boundary	-	-
to-display-name	email-dst-display-name	-	-
reply-to	email-reply-to	-	-

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
filename	filename	-	-
pattern-in-file	pattern-in-file	-	-
md5	md5	-	-
sha224	sha224	-	-

Object attribute	MISP attribute type	Description	Disable correlation
sha1	sha1	-	-
sha512/256	sha512/256	-	-
sha512	sha512	-	-
mimetype	text	-	✔
sha384	sha384	-	-
size-in-bytes	size-in-bytes	-	✔
authentihash	authentihash	-	-
sha512/224	sha512/224	-	-
entropy	float	-	✔
ssdeep	ssdeep	-	-
malware-sample	malware-sample	-	-
text	text	-	✔
tlsh	tlsh	-	-
sha256	sha256	-	-

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	-	✔
region	text	-	-
latitude	float	-	✔
country	text	-	-
city	text	-	-

Object attribute	MISP attribute type	Description	Disable correlation
first-seen	datetime	-	✔
last-seen	datetime	-	✔
text	text	-	✔
altitude	float	-	-

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
uri	uri	-	-
url	url	-	-
proxy-password	text	-	-
proxy-user	text	-	-
user-agent	user-agent	-	-
basicauth-user	text	-	-
host	hostname	-	-
referer	referer	-	-
basicauth-password	text	-	-
cookie	text	-	-
content-type	other	-	-
text	text	-	✔
method	http-method	-	✔

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
src-port	port	-	-
ip	ip-dst	-	-
dst-port	port	-	-
first-seen	datetime	-	-
last-seen	datetime	-	-
text	text	-	-

ja3

JA3 is a new technique for creating SSL client fingerprints that are easy to produce and can be easily shared for threat intelligence. Fingerprints are composed of Client Hello packet; SSL Version, Accepted Ciphers, List of Extensions, Elliptic Curves, and Elliptic Curve Formats. https://github.com/salesforce/ja3.

ja3 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
description	text	-	-
ip-src	ip-src	-	-
first-seen	datetime	-	-
last-seen	datetime	-	-
ja3-fingerprint-md5	md5	-	-
ip-dst	ip-dst	-	-

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
entrypoint-address	text	-	✔
name	text	-	-
text	text	-	✔
number-sections	counter	-	✔
type	text	Type of Mach-O ['BUNDLE', 'CORE', 'DSYM', 'DYLIB', 'DYLIB_STUB', 'DYLINKER', 'EXECUTE', 'FVMLIB', 'KEXT_BUNDLE', 'OBJECT', 'PRELOAD']	-

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
md5	md5	-	-
sha224	sha224	-	-
size-in-bytes	size-in-bytes	-	✔
text	text	-	✔
entropy	float	-	✔
sha512	sha512	-	-

Object attribute	MISP attribute type	Description	Disable correlation
sha384	sha384	-	-
sha1	sha1	-	-
sha512/224	sha512/224	-	-
sha512/256	sha512/256	-	-
ssdeep	ssdeep	-	-
name	text	-	✔
sha256	sha256	-	-

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
count	counter	-	-
zone_time_first	datetime	-	-
time_last	datetime	-	-
time_first	datetime	-	-
rrtype	text	Resource Record type as seen by the passive DNS ['A', 'AAAA', 'CNAME', 'PTR', 'SOA', 'TXT', 'DNAME', 'NS', 'SRV', 'RP', 'NAPTR', 'HINFO', 'A6']	-
rrname	text	-	-
rdata	text	-	-
origin	text	-	-
text	text	-	-

Object attribute	MISP attribute type	Description	Disable correlation
zone_time_last	datetime	-	-
bailiwick	text	-	-
sensor_id	text	-	-

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
original-filename	filename	-	-
product-name	text	-	✔
compilation-timestamp	datetime	-	-
type	text	Type of PE ['exe', 'dll', 'driver', 'unknown']	✔
entrypoint-section-at-position	text	-	✔
internal-filename	filename	-	-
imphash	imphash	-	-
file-description	text	-	✔
lang-id	text	-	✔
entrypoint-address	text	-	✔
file-version	text	-	✔
number-sections	counter	-	✔
legal-copyright	text	-	✔
pehash	pehash	-	-
product-version	text	-	✔

Object attribute	MISP attribute type	Description	Disable correlation
text	text	-	✔
impfuzzy	impfuzzy	-	-
company-name	text	-	✔

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
characteristic	text	Characteristic of the section ['read', 'write', 'executable']	-
md5	md5	-	-
sha224	sha224	-	-
size-in-bytes	size-in-bytes	-	✔
text	text	-	✔
entropy	float	-	✔
sha512	sha512	-	-
sha384	sha384	-	-
sha1	sha1	-	-
sha512/224	sha512/224	-	-
sha512/256	sha512/256	-	-
ssdeep	ssdeep	-	-
name	text	Name of the section ['.rsrc', '.reloc', '.rdata', '.data', '.text']	✔

Object attribute	MISP attribute type	Description	Disable correlation
sha256	sha256	-	-

person

An person which describes a person or an identity..

person 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
passport-expiration	passport-expiration	-	-
passport-number	passport-number	-	-
gender	gender	The gender of a natural person. ['Male', 'Female', 'Other', 'Prefer not to say']	-
redress-number	redress-number	-	-
middle-name	middle-name	-	-
nationality	nationality	-	-
last-name	last-name	-	-
first-name	first-name	-	-
date-of-birth	date-of-birth	-	-
passport-country	passport-country	-	-
place-of-birth	place-of-birth	-	-
text	text	-	✔

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
msisdn	text	-	-
tmsi	text	-	-
guti	text	-	-
gummei	text	-	-
first-seen	datetime	-	✔
last-seen	datetime	-	✔
text	text	-	✔
imsi	text	-	-
serial-number	text	-	-
imei	text	-	-

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
callback-largest	counter	-	✔
local-references	counter	-	✔
ratio-api	float	-	✔
callbacks	counter	-	✔
get-proc-address	counter	-	✔
r2-commit-version	text	-	✔
create-thread	counter	-	✔
text	text	-	✔
shortest-path-to-create-thread	counter	-	✔

Object attribute	MISP attribute type	Description	Disable correlation
memory-allocations	counter	-	✔
gml	attachment	-	✔
miss-api	counter	-	✔
ratio-string	float	-	✔
not-referenced-strings	counter	-	✔
total-functions	counter	-	✔
unknown-references	counter	-	✔
callback-average	counter	-	✔
ratio-functions	float	-	✔
total-api	counter	-	✔
dangling-strings	counter	-	✔
refsglobalvar	counter	-	✔
referenced-strings	counter	-	✔

regexp

An object describing a regular expression (regex or regexp). The object can be linked via a relationship to other attributes or objects to describe how it can be represented as a regular expression..

regexp 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
regexp-type	text	Type of the regular expression syntax. ['PCRE', 'PCRE2', 'POSIX BRE', 'POSIX ERE']	✔
comment	comment	-	-
regexp	text	-	-

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
data	reg-data	-	-
key	reg-key	-	-
data-type	reg-datatype	Registry value type ['REG_NONE', 'REG_SZ', 'REG_EXPAND_SZ', 'REG_BINARY', 'REG_DWORD', 'REG_DWORD_LITTLE_ENDIAN', 'REG_DWORD_BIG_ENDIAN', 'REG_LINK', 'REG_MULTI_SZ', 'REG_RESOURCE_LIST', 'REG_FULL_RESOURCE_DESCRIPTOR', 'REG_RESOURCE_REQUIREMENTS_LIST', 'REG_QWORD', 'REG_QWORD_LITTLE_ENDIAN']	-
hive	reg-hive	-	-
last-modified	datetime	-	-
name	reg-name	-	-

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
published	datetime	-	✔
version	text	-	-
nickname	text	-	-
version_line	text	-	-
description	text	-	✔
fingerprint	text	-	-
flags	text	-	-
first-seen	datetime	-	✔
last-seen	datetime	-	✔
text	text	-	✔
document	text	-	✔
address	ip-src	-	-

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
last-seen	datetime	-	-
domain_without_tld	text	-	-
query_string	text	-	-
scheme	text	Scheme ['http', 'https', 'ftp', 'gopher', 'sip']	-
fragment	text	-	-
tld	text	-	-

Object attribute	MISP attribute type	Description	Disable correlation
host	hostname	-	-
domain	domain	-	-
credential	text	-	-
subdomain	text	-	-
resource_path	text	-	-
first-seen	datetime	-	-
url	url	-	-
text	text	-	-
port	port	-	-

victim

Victim object describes the target of an attack or abuse..

victim 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
sectors	text	The list of sectors that the victim belong to ['agriculture', 'aerospace', 'automotive', 'communications', 'construction', 'defence', 'education', 'energy', 'engineering', 'entertainment', 'financial\xadservices', 'government\xadnational', 'government\xadregional', 'government\xadlocal', 'government\xadpublic\xadservices', 'healthcare', 'hospitality\xadleisure', 'infrastructure', 'insurance', 'manufacturing', 'mining', 'non\xadprofit', 'pharmaceuticals', 'retail', 'technology', 'telecommunications', 'transportation', 'utilities']	-
regions	text	-	-
description	text	-	-
roles	text	-	-
classification	text	The type of entity being targeted. ['individual', 'group', 'organization', 'class', 'unknown']	-
name	text	-	-

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
id	vulnerability	-	-
published	datetime	-	-
references	link	-	-
text	text	-	-
vulnerable_configuration	text	-	-
summary	text	-	-
modified	datetime	-	-

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
expiration-date	datetime	-	-
creation-date	datetime	-	-
registrant-phone	whois-registrant-phone	-	-
modification-date	datetime	-	-
domain	domain	-	-
text	text	-	-
registrant-name	whois-registrant-name	-	-
registar	whois-registrar	-	-

Object attribute	MISP attribute type	Description	Disable correlation
registrant-email	whois-registrant-email	-	-

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
x509-fingerprint-md5	md5	-	-
pubkey-info-algorithm	text	-	-
version	text	-	-
pubkey-info-size	text	-	-
validity-not-after	datetime	-	-
issuer	text	-	-
pubkey-info-exponent	text	-	-
validity-not-before	datetime	-	-
raw-base64	text	-	-
x509-fingerprint-sha256	sha256	-	-
subject	text	-	-
pubkey-info-modulus	text	-	-
text	text	-	-
serial-number	text	-	-
x509-fingerprint-sha1	sha1	-	-

yabin

yabin.py generates Yara rules from function prologs, for matching and hunting binaries. ref: https://github.com/AlienVault-OTX/yabin.

yabin 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
version	comment	-	-
whitelist	comment	-	-
comment	comment	-	-
yara-hunt	yara	-	✔
yara	yara	-	✔

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']
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']

Name of relationship	Description	Format
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']
exfiltrates-to	This relationship describes an object exfiltrating to another object.	['misp']
identifies	This relationship describes an object which identifies another object.	['misp']

Name of relationship	Description	Format
intercepts	This relationship describes an object which intercepts another object.	['misp']
calls	This relationship describes an object which calls another objects.	['misp']
detected-as	This relationship describes an object which is detected as another object.	['misp']
triggers	This relationship describes an object which triggers another object.	['misp']