

STIX 2.0 Specification - Pre-Draft

TLO - Exploit Targets - Version 0.2

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Document Development Status

TODO - This section should be removed from the document prior to completion. It is included here to help visually track where things are at in the process.

Each physical documents contains a table that defines 4 levels of development for each TLO and CTI concept. The first level is called **Concept**. Content coming in to one of the documents starts as a Concept. Once the community starts to work on it it will move to **Development**. During this phase, the group will flesh out the design and come up with normative text. As the group comes to general consensus the TLO will move to a **Review** phase. During this phase the community can comment and offer suggestions on the normative text and design. After a period of time of no comments or feedback, the TLO will move to its final stage of **Draft**.

Object / Concept	Status	MVP
exploit-target (abstract)	Concept	Undecided

configuration	Concept	Undecided
vulnerability	Concept	Undecided
weakness	Concept	Undecided

1. Top Level Objects

1.1. Exploit Target

Type Name: exploit-target	Status: Concept MVP: Undecided
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Exploit targets represent the things about the defender's systems that make them vulnerable to attack by a threat actor. In STIX, Exploit Targets may be configurations, vulnerabilities, or weaknesses.

`exploit-target` can be considered an "abstract superclass" of the individual Exploit Target types listed below. Common properties that apply to all Exploit Targets are defined on `exploit-target` and inherited by the individual Exploit Target types.

As an abstract superclass, `exploit-target` cannot be directly instantiated.

1.1.1. Properties

STIX TLO Common Properties		
type, id, created_by_ref, created_time, revision, modified_time, revoked, revision_comment, confidence, object_markings_refs, granular_markings		
Property Name	Type	Description
type (required)	string	(Overrides <code>stix-core</code>) The value of this field MUST be <code>exploit-target</code>
title (optional)	string	A human readable title

description (optional)	string	A human readable description
severity (reserved)	RESERVED	RESERVED FOR FUTURE USE

2. Exploit Target Objects

2.1. Configuration

Type Name: configuration	Status: Concept MVP: Undecided
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Leverages CCE (<https://nvd.nist.gov/cce/index.cfm>) to describe a configuration setting that may present a target for an attacker.

2.1.1. Properties

STIX TLO Common Properties		
type, id, created_by_ref, created_time, revision, modified_time, revoked, revision_comment, confidence, object_markings_refs, granular_markings		
Property Name	Type	Description
type (required)	string	(Overrides stix-core) The value of this field MUST be configuration
title (optional)	string	A human readable title
description (optional)	string	A human readable description
cce_id (optional)	string	The CCE ID for this configuration.
severity (reserved)	RESERVED	RESERVED FOR FUTURE USE

2.1.2. Relationships

These are the default relationships between the Configuration Object and other objects.

Inherited From		Inherited Kinds of Relationships
stix-core		duplicate-of, other
Kind of Relationship	Target Type	Description
evidenced-by	observation	Relates the Configuration to an Observation providing evidence that backs up the assertions provided in this Object.
exploited-by	exploit	Relates the Configuration to an Exploit that can take advantage of a misconfiguration.
in-kill-chain-phase	kill-chain-phase	Relates the Configuration to the phase of the Kill Chain it is used within.

2.2. Vulnerability

Type Name: vulnerability	Status: Concept MVP: Undecided
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Leverages CVE (<http://cve.mitre.org/>) to describe a particular vulnerability that may present a target for an attacker.

2.2.1. Properties

STIX TLO Common Properties		
type, id, created_by_ref, created_time, revision, modified_time, revoked, revision_comment, confidence, object_markings_refs, granular_markings		
Property Name	Type	Description
type (required)	string	The value of this field MUST be vulnerability
title (optional)	string	A human readable title

description (optional)	string	A human readable description
cve_id (optional)	string	The CVE ID for this vulnerability.
severity (reserved)	RESERVED	RESERVED FOR FUTURE USE

2.2.2. Relationships

TODO

2.3. Weakness

Type Name: weakness	Status: Concept MVP: Undecided
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Leverages CWE (<http://cwe.mitre.org/>) to describe a software weakness that may present a target for an attacker.

2.3.1. Properties

STIX TLO Common Properties		
type, id, created_by_ref, created_time, revision, modified_time, revoked, revision_comment, confidence, object_markings_refs, granular_markings		
Property Name	Type	Description
title (optional)	string	A human readable title
description (optional)	string	A human readable description
cwe_id (optional)	string	The CWE ID for this weakness.
severity (reserved)	RESERVED	RESERVED FOR FUTURE USE

2.3.2. Relationships

These are the official relationships to describe a relationship between the Weakness Object and other objects.

Inherited From		Inherited Kinds of Relationships
stix-core		duplicate-of, other
Kind of Relationship	Target	Description
evidenced-by	observation	Relates the Weakness to an Observation providing evidence that backs up the assertions provided in this Object.
exploited-by	exploit	Relates the Weakness to an exploit that can exploit the vulnerability.
in-kill-chain-phase	kill-chain-phase	Relates the Weakness to the phase of the Kill Chain it is used within.