

STIX 2.0 Specification - Pre-Draft

TLO - Exploit Targets - Version 0.1

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1. Document Development Status

Object / Concept	Status	MVP	Description
<code>exploit-target</code> (abstract)	Concept	Undecided	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. <i>As an abstract superclass, <code>exploit-target</code> cannot be directly instantiated.</i>
<code>configuration</code>	Concept	Undecided	Leverages CCE to describe a system configuration that may be exploited as part of an attack.

vulnerability	Concept	Undecided	A flaw in software that may be exploited as part of an attack. Uses CVE.
weakness	Concept	Undecided	A category of weakness that may be exploited as part of an attack. Uses CWE.

2. Top Level Objects

2.1. 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.

2.1.1. Properties

Inherits From	Inherited Properties	
stix-core	type, id, spec_version, created_time, created_by_ref, object_markings_refs, granular_markings	
descriptive-properties	title, description	
Property Name	Type	Description

type (required)	string	(Overrides stix-core) The value of this field MUST be exploit-target
impact (optional)	impact	The impact on operations if this exploit target were to be realized.

3. Exploit Target Objects

3.1. 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.

3.1.1. Properties

Inherits From	Inherited Properties	
stix-core	type, id, spec_version, created_time, created_by_ref, object_markings_refs, granular_markings	
descriptive-properties	title, description	
exploit-target	impact	
Property Name	Type	Description
type (required)	string	(Overrides stix-core) The value of this field MUST be configuration
cce_id (optional)	string	The CCE ID for this configuration.

3.1.2. Relationships

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

Inherited From		Inherited Kinds of Relationships
stix-core		derived-from, duplicate-of, suggested-update, related-to
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.

3.2. 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.

3.2.1. Properties

Inherits From	Inherited Properties
stix-core	type, id, spec_version, created_time, created_by_ref, object_markings_refs, granular_markings

<code>descriptive-properties</code>	<code>title, description</code>	
<code>exploit-target</code>	<code>impact</code>	
Property Name	Type	Description
<code>type</code> (required)	<code>string</code>	The value of this field MUST be <code>vulnerability</code>
<code>cve_id</code> (optional)	<code>string</code>	The CVE ID for this vulnerability.

3.2.2. Relationships

TODO

3.3. Weakness

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

3.3.1. Properties

Inherits From	Inherited Properties	
<code>stix-core</code>	<code>type, id, spec_version, created_time, created_by_ref, object_markings_refs, granular_markings</code>	
<code>descriptive-properties</code>	<code>title, description</code>	
<code>exploit-target</code>	<code>impact</code>	
Property Name	Type	Description
<code>cwe_id</code> (optional)	<code>string</code>	The CWE ID for this weakness.

3.3.2. 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		derived-from, duplicate-of, suggested-update, related-to
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.