

STIX Version 2.1 – Errata 01

Committee Specification Draft 01

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Related work:

- *STIX Version 2.1*. Edited by Bret Jordan, Rich Piazza, and Trey Darley. Latest stage: <https://docs.oasis-open.org/cti/stix/v2.1/stix-v2.1.html>.

This specification is related to:

- *TAXII Version 2.1*. Edited by Bret Jordan and Drew Varner. Latest stage: <https://docs.oasis-open.org/cti/taxii/v2.1/taxii-v2.1.html>.
- *STIX/TAXII 2.0 Interoperability Test Document: Part 1 Version 1.1*. Edited by Allan Thomson and Jason Keirstead. Latest stage: <https://docs.oasis-open.org/cti/stix-taxii-2-interop-p1/v1.1/stix-taxii-2-interop-p1-v1.1.html>.
- *STIX/TAXII 2.0 Interoperability Test Document: Part 2 Version 1.0*. Edited by Allan Thomson and Jason Keirstead. Latest stage: <https://docs.oasis-open.org/cti/stix-taxii-2-interop-p2/v1.0/stix-taxii-2-interop-p2-v1.0.html>.

Abstract:

This document provides Errata for the OASIS Standard STIX Version 2.1. It corrects non-material issues identified or reported by participants to the TC, listed in the Github issues system, and discussed during CTI TC working call sessions.

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When referencing this specification, the following citation format should be used:

[STIX-v2.1-errata01]

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1 Introduction

This document lists all the corrections made to STIX Version 2.1.

1.1 Scope of changes

Non-material corrections have been made to the STIX 2.1 specification to address issues identified or reported by participants to the TC, listed in the Github issues system, and discussed during CTI TC working call sessions. Changes provide additional or missing vocabulary values, fix typos, improve descriptions, correct examples or

1.2 Description of changes

STIX 2.1 Errata 01 differs from STIX 2.1 in the following ways:

- Updated Malware Embedded Relationships table with missing property in *Section 4.11.2 - Malware Relationships*.
 - **operating_system_refs** is no longer missing in the table.
- Malware Analysis Relationships table fixed with the right relationship type between Malware Analysis and Malware in *Section 4.12.2 - Malware Analysis Relationships*
 - wrong analysis-of is replaced with the right av-analysis-of relationship type.
- Property descriptions fixed in *Section 6.6.1 - Email Message Object Properties*.
 - **from_ref**, **sender_ref**, **to_refs**, **cc_refs** and **bcc_refs** properties descriptions now mention the right email-addr type they are referencing.
- Examples fixed in *Section 6.12.2.1 - HTTP Request Extension Properties*.
 - the **request_header** property is now a list of type string in the examples, as expected from the description.
- Example fixed in *Section 9.5.1 - Observation Expression Qualifiers*.
 - the example used to illustrate the use of *Observation Expression* WITHIN x SECONDS now has the right windows-registry-key Observable type.
- Updated *Section 10.9 - Implementation Language Vocabulary*.
 - rust value was added.
- Updated *Section 10.11 - Industry Sector Vocabulary*.
 - legal value was added.
- Fixed summary in *Section 10.12 - Infrastructure Type Vocabulary*.
 - missing control-system, firewall, routers-switches and workstation values were added to the Summary as they were already described in the Vocabulary table.
- Enhanced descriptions in *Section 10.13 - Malware Result Vocabulary*.
 - descriptions for every vocabulary values were improved with more descriptive definitions.

- Fixed missing value in *Section 10.22 - Report Type Vocabulary*.
 - incident value was added.
- Updated *Section 10.23 - Threat Actor Type Vocabulary*.
 - private-sector value was added.
- Fixed multiple Enumeration headers
 - Enumerations now have the right headers, to differentiate enumerations from vocabularies, including:
 - **Enumeration Name** is now used instead of **Vocabulary Name**
 - **Enumeration Summary** is now used instead of **Vocabulary Summary**
 - **Enumeration Value** is now used instead of **Vocabulary Value**
 - These changes apply on:
 - *Section 10.4 - Encryption Algorithm Enumeration*
 - *Section 10.5 - Extension Type Enumeration*
 - *Section 10.16 - Network Socket Address Family Enumeration*
 - *Section 10.17 - Network Socket Type Enumeration*
 - *Section 10.18 - Opinion Enumeration*
 - *Section 10.27 - Windows™ Integrity Level Enumeration*
 - *Section 10.29 - Windows™ Registry Datatype Enumeration*
 - *Section 10.30 - Windows™ Service Start Type Enumeration*
 - *Section 10.31 - Windows™ Service Type Enumeration*
 - *Section 10.32 - Windows™ Service Status Enumeration*
- Updated *Appendix B: Relationship Summary Table*.
 - Duplicated relationship located-at between threat-actor and location has been removed.
 - Misspelled relationship exfiltrates-to between malware and infrastructure has been fixed.
 - Missing relationships have been added, including:
 - remediates between course-of-action and malware
 - remediates between course-of-action and vulnerability
 - uses between tool and infrastructure
 - resolves-to between domain-name and domain-name
 - resolves-to between domain-name and ipv4-addr
 - resolves-to between domain-name and ipv6-addr

- resolves-to between ipv4-addr and mac-addr
 - belongs-to between ipv6-addr and autonomous-system
 - resolves-to between ipv4-addr and mac-addr
 - belongs-to between ipv6-addr and autonomous-system
- Fixed typos in Extension Definition Additional Examples
 - typos were fixed in titles for *Section C.2.2 - Adding properties to an existing STIX object instance* and *Section C.2.3 - Adding properties to an existing STIX relationship object instance*.
- Special characters were fixed in some participants names in *Appendix F: Acknowledgments*.
- All SCO ids were updated in examples to agree with the generate_id method in *python-stix2* library.
- Included all changes based on ITU recommendations.
- Improved references through the document.
 - missing references to sections were added at different places.
 - some references were fixed to point to the right section.
 - in the description of STIX object properties whose value is either a vocabulary or an enumeration, a reference pointing to the given vocabulary or enumeration was added.

2 Conformance

The conformance requirements stated in the OASIS Standard STIX Version 2.1 [STIX-v2.1] are not changed in any way by the publication of this Errata document.

Appendix A. Normative References

The following documents are referenced in such a way that some or all of their content constitutes requirements of this document.

[STIX-v2.1]

STIX Version 2.1. Edited by Bret Jordan, Rich Piazza, and Trey Darley. 10 June 2021. OASIS Standard. <https://docs.oasis-open.org/cti/stix/v2.1/os/stix-v2.1-os.html>. Latest stage: <https://docs.oasis-open.org/cti/stix/v2.1/stix-v2.1.html>.

Appendix B. Acknowledgements

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