

CyboX Release Notes

This document provides a high-level summary of the changes between CyboX 2.0 and 2.0.1.

Bug Fixes

This section describes functional bug fixes in 2.0.1.

- **#9: The 'type' attribute of URIObject is fixed to 'URL' and cannot be changed.** This bug makes it impossible to use the URIObject to specify domain names and general URNs. The fix removed the "fixed" specification on the 'type' attribute which allows it to be used to specify either URLs, Domains, or URNs as intended.
- **#19: URL_Label of the version 1.0 Link_Object should be of type cyboxCommon:StringObjectType.** This bug makes it impossible to apply the standard CyboX property field modifiers (condition, etc.) to the field. The fix changed the field type from xs:string to cyboxCommon:StringObjectType.
- **#21: URL_Label field of LinkObj:LinkObjectType should be option.** Unlike all other CyboX property fields and most of CyboX generally, this field is currently required. This prevents users from creating Link Objects that do not have a URL_Label field. The fix changed the minOccurs specification from "1" to "0".
- **#90: Correct the annotations on *ObjectType to specify the correct delimiter.** Currently, the annotations on all types extending from BaseObjectType state that ',' should be used to delimit multiple values. In fact, use of , will be automatically decoded to ',' in most XML implementations and thus will be indistinguishable from non-entity commas, which might be present in field data. The fix specifies the use of ##comma## instead in order to prevent and allow the use of both native commas and of multivalue object property fields.
- **#63: Typo in cybox_default_vocabularies EventTypeEnum-1.0.** Fixes a misspelling in the EventTypeEnum-1.0 vocab by deprecating the broken vocabulary (EventTypeEnum-1.0 and EventTypeVocab-1.0) and creating a new vocabulary (EventTypeEnum-1.0.1 and EventTypeVocab-1.0.1) with the typo fixed.
- **#40: Within FrequencyType, @rate, @units & @scale should be optional.** Currently all attributes are required, preventing users from using @trend as intended. The fix makes these all optional.
- **#46: The Socket Address Object Resides in the Wrong Place.** The socket address object had a mismatch in version numbering between the namespace, the version attribute, and the URL location. This fix normalizes them all to 1.0.1.

Enhancements

- **#89: Add update version attribute to CyboX core/object constructs to identify update releases.** This enhancement added the @cybox_update_version attribute to cyboxCore:ObservableType, allowing users to specify which update version of CyboX they are using. This was a required enhancement to allow update releases to be published.

Documentation

- [#69](#): **Typo in the cybox:PropertiesType.** This corrects a misspelling in the annotations for cyboxPropertiesType.
- [#68](#): **Typo in cyboxCommon:MeasureSourceType documentation.** This removes an extra word in the annotations for cyboxCommon:MeasureSourceType.
- [#67](#): **Typo in cybox_core DefeinedEffectType should be DefinedEffectType.** This fixes a misspelling in the annotations for the Defined_Effect field of cyboxCore:ObjectType.
- [#32](#): **The documentation on the "Links" element in EmailMessageObject is incorrect.** It previously specified the usage of URIObjectType for representing links, when it should specify the usage of LinkObjectType.
- [#29](#): **Make annotations for cyboxCommon:TimeType more generic.** The annotations previously called out "this cyber observation source instance" when in reality the type is used throughout CybOX and STIX to represent time for much more than just cyber observations. The fix makes this language generic.
- [#18](#): **Add annotations to Link Object.** The link object was missing annotations entirely, the fix adds them.