Concise Software Identifiers

draft-ietf-sacm-coswid-04

IETF 101, SACM Working Group
Changes in the -03 Revision

• Updated CDDL to allow for a choice between a payload or evidence
• Re-index label values in the CDDL.
• Added item definitions
• Updated references for COSE, CBOR Web Token, and CDDL
Changes in the -04 Revision

• Re-index label values in the CDDL.
• Added a section (1.1) discussing the use of CoSWIDs in the context of a software lifecycle
• Added sections (2.1 thru 2.7) describing the CoSWID model in detail.
  • Includes discussion of co-constraints
  • Discussion of extension points
  • Interpretation of tag types based on specific data items
• Created IANA registries (sections 3 and 4) for entity-role and version-scheme values
  • Allows use of either index-based or textual values
  • Index values provide for standardization and size reduction
  • IANA registry reserves space for private use, standards action, and specification required allowing for future extension
Changes in the -05 Revision

• Addressed comments from Chris Inacio. Thanks Chris!
• Clarified language around SWID and CoSWID to make more consistent use of these terms.
• Added language describing CBOR optimizations for single vs. arrays in the model front matter.
• Fixed a number of grammatical, spelling, and wording issues.
• Documented extension points that use CDDL sockets.
• Converted IANA registration tables to markdown tables, reserving the 0 value for use when a value is not known.
• Updated a number of references to their current versions.
Issue: Remove the firmware extension?

• Appendix B is needs to be synced with the SUIT information model, which is still under development

• Waiting on SUIT will delay publication of CoSWID.

• Moving the firmware extension to another draft will allow CoSWID to be published and the firmware work to continue at pace with SUIT

Any concerns with moving this text to a separate extension draft?
Issue: (X)Path Expressions for JSON and CBOR

In CoSWID we may need to:

• Translating SWIDs to CoSWIDs: Convert an XPath for an XML SWID to a path in a CoSWID
• Create CoSWID Path Expressions: Author a path expression based on CoSWID data

Examples:

• swidpath://SoftwareIdentity\[Entity/@regid='http://contoso.com'\]
• swidpath://SoftwareIdentity\[Meta/@persistentId='b0c55172-38e9-4e36-be86-92206ad8eddb'\]
Issue: (X)Path Expressions for JSON and CBOR (Cont’d)

Solution:
• Write additional drafts that address this problem
• Define an XPath binding for JSON and CBOR
• Map SWID data items to CoSWID data items
• Bind (X)Path to a URI form

Benefits
• Allows CoSWID to move forward while we address this issue
• Work could benefit other CBOR efforts

Does it make sense to do this work in SACM, CBOR, or another WG?
Other things we would like to do

• Add additional enumerations for text values.
  • link/ownership
  • link/use

• IANA Registrations
  • Register a media type for application/coswid+cbor.
  • Register a CoSWID content type for CoAPP.

• Editorial changes
  • Add figure names to tables.
  • Fix minor formatting issues
More review is needed

• The draft is (near-)complete in content
  • One more revision will address all current issues.
  • Can post this draft within a couple weeks after the meeting

• Does it make sense to have a WGLC to get more feedback?