

Information Model Update

IETF 96

07/18/2016

Agenda

- Open issues
- Next steps
- Status

IPFIX syntax issue #1 – template properties

- name, elementId, dataType, status, enterprisId, ~~dataTypeSemantics,~~
~~units, range,~~ description, reference, ~~revision, date~~
- Do we need an additional field to capture flags or other substructures rather than capturing it in the description field?
- Suggestion to extend status from "current"/"deprecated" to "added in version X"/"deprecated in version Y"?
 - revision – the revision number of an IE. 0 when defined. +1 for each revision.
 - date – date the IE was added into the registry

IPFIX syntax issue #2 - naming conventions

- Should we leverage the following IPFIX naming conventions?
 1. Names SHOULD be descriptive
 2. Names MUST be unique within the SACM registry. Enterprise-specific names SHOULD be prefixed with a vendor name.
 3. Names MUST start with lowercase letters
 4. Composed names MUST use capital letters for the first letter of each part
 - E.g. sourceMacAddress
 - Other options (SourceMacAddress, source-mac-address, source_mac_address, etc.)
- Feedback in favor of 1 - 3. Feedback against 4. What do others think?

IPFIX issue #3 - datatypes

- Adopted the existing IPFIX non-list datatypes
 - unsigned (8, 16, 32, 64), signed (8, 16, 32, 64), float (32, 64), boolean
 - macAddress, ipv4Address, ipv6Address
 - octetArray
 - string
 - dateTime (seconds, milliseconds, microseconds, nanoseconds)
- What other datatypes do we need to create and add?
 - Version types (simple, rpm, Cisco train), URI, array, map
- Do we need IPFIX datatype semantics (quantity, identifier, flags, etc.)?

IM/DM requirements issue #1 – DM-001

- DM-001 Element Association: The data model MUST contain a data model element for each information model element...
- Does the use of SWID via SWID M&A violate this requirement?
- Do we need to distinguish between DMs for endpoint information (data plane) and SACM Components (management plane)?

IM/DM requirements issue #2 – DM-002

- DM-002 Data Model Structure: The data model can be structured either as one single module or separated into modules and sub-modules that allow for references between them. The data model structure MAY reflect structure in the information model, but, does not need to...
- Split DM-002 into two requirements:
 1. DM MAY be a single module or separated into modules and sub-modules
 2. DM structure MUST reflect the structure in the IM

Next steps

- Finish the IPFIX syntax updates
- Convert I-D IM IEs to the IPFIX syntax and pull into the IM
- Update Requirements I-D based on WG feedback
- Review Section 8 for any clean-up opportunities
- Further define Guidance in the IM

Status

- Clarified that the SACM Statement and Content-Element constructs are only conceptual and do not need to be implemented by a DM
- Addressed some of the issues with the IPFIX syntax
- Performed various clean up in Section 6 and Section 7
- Removed appendices that were not referenced in the body of the I-D