

Information Model Update

IETF 97

11/15/2016

Agenda

- Open issues
- Next steps

Issue #68: IM/DM-related questions (1)¹

- At the last two VIMs²³ and on list⁴, there were discussions around how to best focus the IM work around leveraging existing data models (CIM, Configuration Profiles, MIB, YANG, SWID, OVAL, etc.)
 - Experience with OVAL tells us one data model is not enough
 - Seems to be consensus on accommodating multiple data models
- Feedback on IEs is there are too many :). Would like to see it trimmed:
 - Re-introduction of envelope constructs (statement, content element, etc.)
 - Metadata necessary for tasks, enabling provenance, and DM comprehension
 - Core endpoint concepts based on VAS and existing security checklists
 - Guidance and assessment results

1. <https://github.com/sacmwg/draft-ietf-sacm-information-model/issues/68>

2. <https://www.ietf.org/proceedings/interim-2016-sacm-05/minutes/minutes-interim-2016-sacm-05>

3. <https://www.ietf.org/proceedings/interim-2016-sacm-06/minutes/minutes-interim-2016-sacm-06-201610131400-00>

4. <https://www.ietf.org/mail-archive/web/sacm/current/msg04484.html>

Issue #68: IM/DM-related questions (2)

- SACM End Goal: Using a standardized framework, enable end users to discover, characterize, collect, evaluate, query, and store security automation information independent of the underlying protocols and data models in use
- Just to clarify, by standardized framework, I mean:
Interfaces, operations, tasks, and information needs
- Does this align with others' vision for SACM?

Issue #68: IM/DM-related questions (3)

- How do we get there? (note: this doesn't all belong in the IM)
 - Define the tasks we want to support including inputs and outputs
 - Define the information needs we care about and identify existing data models that support them
 - Determine how to unify data across existing data models. Two approaches:
 - Leverage the IM as the common mapping between data models
 - Provide metadata necessary to enable vendors to transcode data between data models
 - Define the operations and interfaces necessary to standardize the interactions between SACM Components while executing tasks

Issue #68: IM/DM-related questions (4)

- Leverage the IM as the common mapping between data models
 - More work to do on the front end (enumerate needs, define in IM, map DMs to IM)
 - Vendors don't need to create mappings
 - Should result in improved consistency among tools
- Provide metadata necessary to enable vendors to transcode data between data models
 - Less work to do on the front end
 - Pushes mapping work to each vendor
 - Is there the potential for inconsistencies in vendor-defined mappings?
- Is there a preference on which approach we take?

Issue #67: Uniqueness of attribute and subject names¹

- Are the names of attributes and subjects unique within the IM or are they unique to the instance of the attribute or subject?
- The IE naming convention² states:
 - Names **MUST** be unique within the SACM registry. Enterprise-specific names **SHOULD** be prefixed with a Private Enterprise Number [PEN]
- This implies that attribute and subject names are unique within the registry that defines the IM as well as any subsequent extensions
- Is the naming convention sufficient or is explicit text required?

1. <https://github.com/sacmwg/draft-ietf-sacm-information-model/issues/67>
2. <https://tools.ietf.org/html/draft-ietf-sacm-information-model-07#section-4.1>

Issue #10: Differentiating classes of software¹

- The IM includes OS-specific attributes² (osName, osType, osVersion, etc.) as well as a generic software subject³ (softwareInstance)
- It seems the WG would support either software-specific attributes or a generic software subject that includes a classification attribute⁴
 - Installation location of software and privileges are also of interest to the WG
 - CIM SoftwareIdentity and RFC 2790 each provide a list of software classes
- Supporting both options is redundant, is one option more appealing than the other?

1. <https://github.com/sacmwg/draft-ietf-sacm-information-model/issues/10>
2. <https://tools.ietf.org/html/draft-ietf-sacm-information-model-07#section-7.55>
3. <https://tools.ietf.org/html/draft-ietf-sacm-information-model-07#section-7.112>

Next steps

- Continue resolving open issues on the mailing list