

SWID Message and Attributes for PA-TNC

SACM WG Virtual Interim Meeting

03/09/16

Agenda

- Overview
- Alignment with SACM
- Next steps

Overview

- Extension to NEA PA-TNC¹ to support the collection and exchange of software inventory data using ISO Software Identification (SWID)² tags
- SWID PCs are required to monitor all tag data stores
 - Natively stored
 - Generated
- Collection can be driven by the endpoint, a server, or an event
 - Creation
 - Deletion
 - Alteration

1. <https://datatracker.ietf.org/doc/rfc5792/>

2. http://www.iso.org/iso/catalogue_detail.htm?csnumber=53670

Alignment with SACM Use Cases¹

- Define, publish, query, and retrieve security automation data
 - Provides very basic guidance for collectors
 - Provides a data model for representing software inventory data
- Endpoint identification and assessment planning
 - Software inventory data, expressed as SWID tags, supports endpoint discovery and characterization
- Endpoint posture attribute collection and evaluation
 - Informs the acquisition of collection and evaluation guidance
 - Collects and evaluates posture attribute values expressed as SWID tags
 - Supports change detection as well as other collection and evaluation triggers

1. <https://datatracker.ietf.org/doc/rfc7632/>

Alignment with SACM Architecture¹

- PVs may subscribe to PCs and receive updates to SWID tag data stores
 - Change detection subscription
 - Inventory subscription
 - Event record subscription
 - Targeted subscription
 - Delayed subscription

1. <https://datatracker.ietf.org/doc/draft-ietf-sacm-architecture/>

Alignment with the SACM Information Model¹

- Provides a data model by which to express software inventory data which is represented in the IM as a software instance

```
elementId: 15
name: softwareInstance
dataType: subTemplateMultiList
status: current
description: Information about an instance of software
             installed on an endpoint. The following
             high-level digram describes the structure of
             softwareInstance information element.
```

```
softwareInstance = (subTemplateMultiList, allof,
                    softwareIdentifier,
                    title,
                    creator,
                    softwareVersion,
                    lastUpdated
                    )
```

1. <https://datatracker.ietf.org/doc/draft-ietf-sacm-information-model/>

Alignment with SACM Vulnerability Assessment Scenario¹

- Provides a mechanism by which NEA can be leveraged to collect software inventory data using SWID tags
 - Endpoint characterization
 - Guidance applicability
 - Vulnerability status
- Makes this information available to other SACM Components

1. <https://datatracker.ietf.org/doc/draft-coffin-sacm-vuln-scenario/>

Next steps

- Update this I-D based on feedback
- Request a call for adoption