

Software Inventory Message and Attributes (SWIMA)

[draft-ietf-sacm-nea-swid-patnc-00](#)

SACM WG Virtual Interim Meeting

1/11/2017

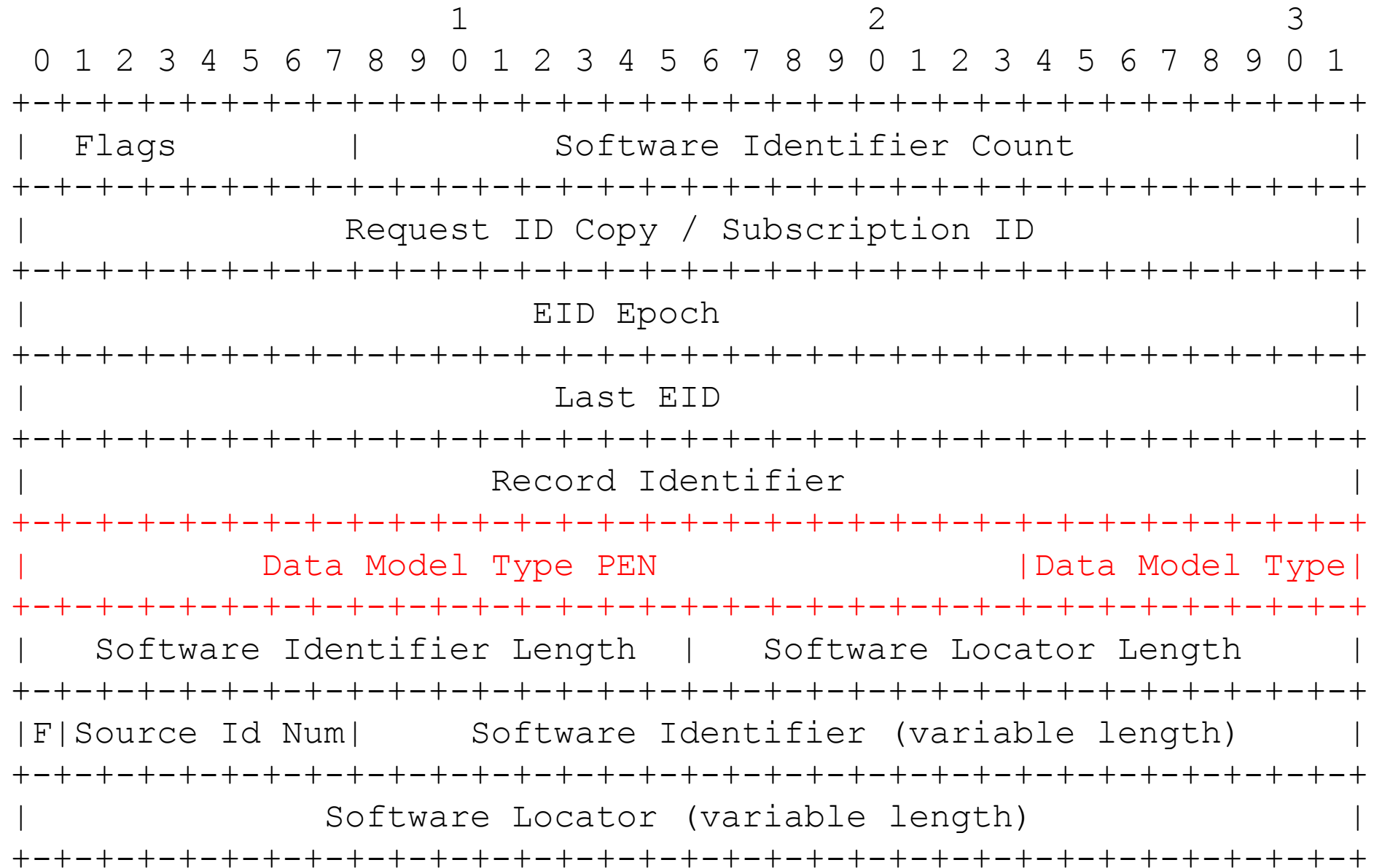
Agenda

- Issue 4: User/vendor defined data models
- Issue 1: Data source identification
- Other issues:
 - Added instructions on using SWID 2009 and 2015 (XML) as data models
 - MTI data models
 - Servers MUST accept all data models

Supporting user/vendor-defined data models

- Previously, data model type indicated in a 1-byte integer corresponding to values in an IANA table
 - Only values registered in the IANA table could be used
- New version
 - Data model type identified in 2 fields: 3-byte PEN and 1 byte integer
 - Vendors can use their PEN to assign their own meanings to data model type integer values
 - PEN of 0x000000 indicates the IANA registry should be used for data model type integer meaning
 - Within IANA registry, values between 192 and 155 (MSBs set) are reserved for local use and enterprises can assign meaning

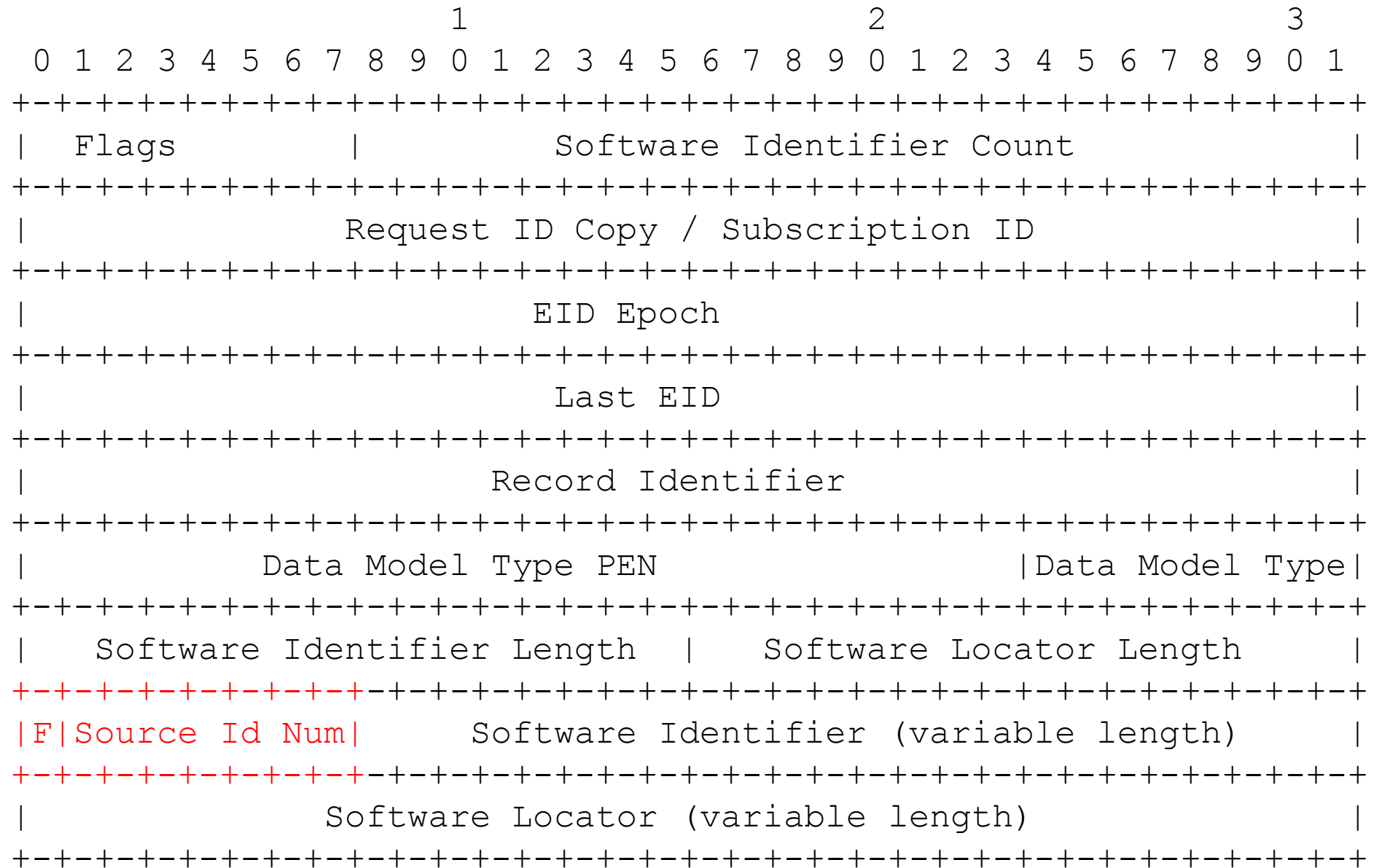
New Data Model Fields



Data source identification

- New design
 - 7-bit integer with a Source Identification Number
 - 1 bit Source First Use Flag
- First time a source is used, the SW-PC assigns a Source Identification Number to it
- First time information from a source is reported, the Source First Use flag is set in all attribute records from that source
- All information includes the Source Identification Number from which the information came
- **Allows SW-PV to recognize that two records came from same source but does not help determine what that source is**

New Source Identification Fields



New Suggestion for Source Identification

- Drop the Source First Use flag
 - SW-PV just assigns values – no need to flag first use
 - 256 sources unlikely to be depleted
- Add new Source Information exchange
 - SW-PV sends a “Source Information Request” – empty attribute
 - SW-PV sends a “Source Information Response”
 - Variable length metadata string allows descriptive text about the source corresponding to each Source Identification Number
 - Currently no standardization of content, but allows for future extension

Data Model Updates

- Fleshed out descriptions of use of two data models
 - SWID 2015 in XML
 - SWID 2009 in XML
 - Provided deterministic procedures for developing Software Identifiers for each
- Filled in new IANA table for Software Data Models
 - SWID 2009
 - SWID 2015
 - Reserved 192-255 for local use

Data Models Updates (2)

- Explicitly state the SW-PVs MUST not reject input based on its data model
 - SWIMA's job is to convey available data – downstream consumption might care about the data model, but that needs to be handled downstream
- Explicitly state that SW-PCs MUST support the data models identified in the current specification (currently SWID 2015 and 2009 in XML)
 - All this means is the SW-PC needs to be able to create Software Identifiers for these models

Next Steps

- Revise based on today's feedback
- Add new data models? (COSWID?)
- Review and integrate other comments

- New draft will be out ahead of next virtual interim

- Specification is content complete – might be able to request WGLC before IETF 98
 - So please check this out soon and provide comments