

Information Model Update

IETF 95

04/06/2016

Agenda

- Status
- Discussion
- Next steps

Status

- Discussed the latest draft at the 3/9 Virtual Interim Meeting¹
- Asked for feedback on how to indicate special things about IEs²
- Put out a call for IEs that we would like to see in the IM³
 - We need help on a variety of tasks⁴ if you are interested :)
 - Survey of information we would like to support
 - IM modeler
 - Data model reviewer
 - ...

1. <https://datatracker.ietf.org/doc/slides-interim-2016-sacm-2-1/>

2. <http://www.ietf.org/mail-archive/web/sacm/current/msg03868.html>

3. <http://www.ietf.org/mail-archive/web/sacm/current/msg03897.html>

4. <http://www.ietf.org/mail-archive/web/sacm/current/msg03397.html> (see Task and Skillset Ideas for SACM IM attachment)

Why do we have an IM

- Define a vocabulary that describes the information we want to support in the SACM Domain¹
- Define the structures necessary to specify IEs in the IM
- Ensure interoperability between DMs

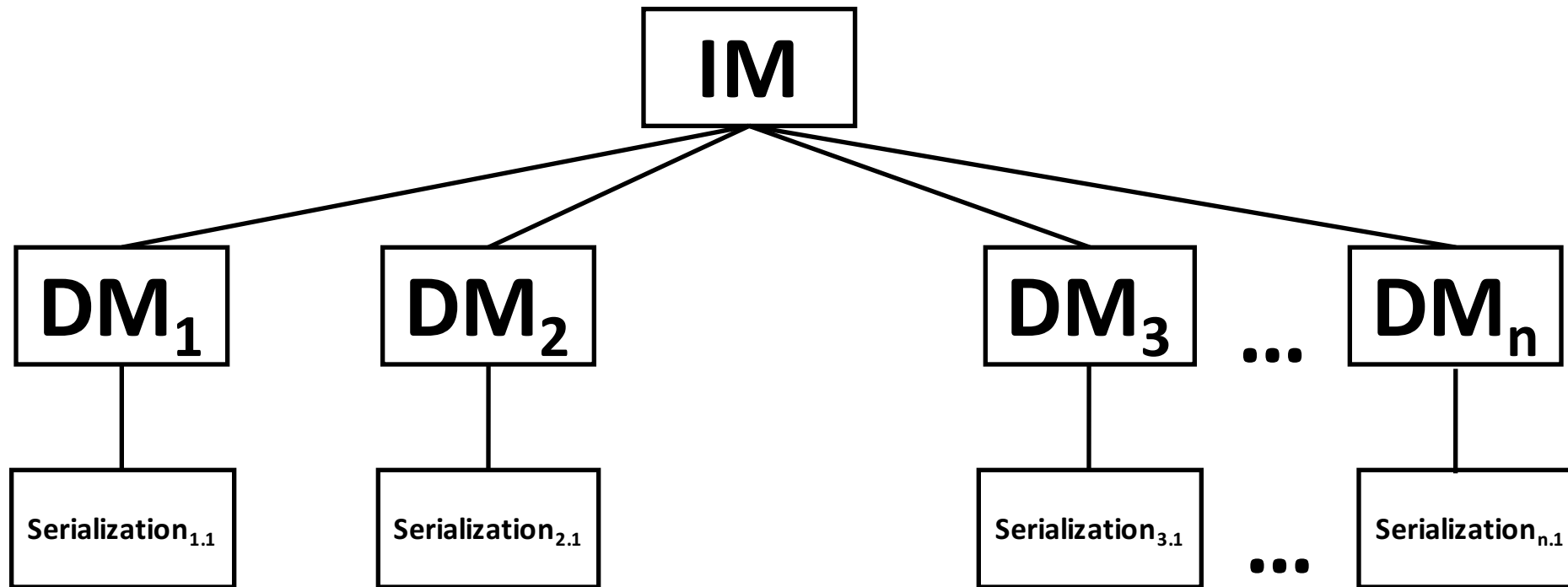
1. <https://datatracker.ietf.org/doc/draft-ietf-sacm-terminology/>

A few definitions

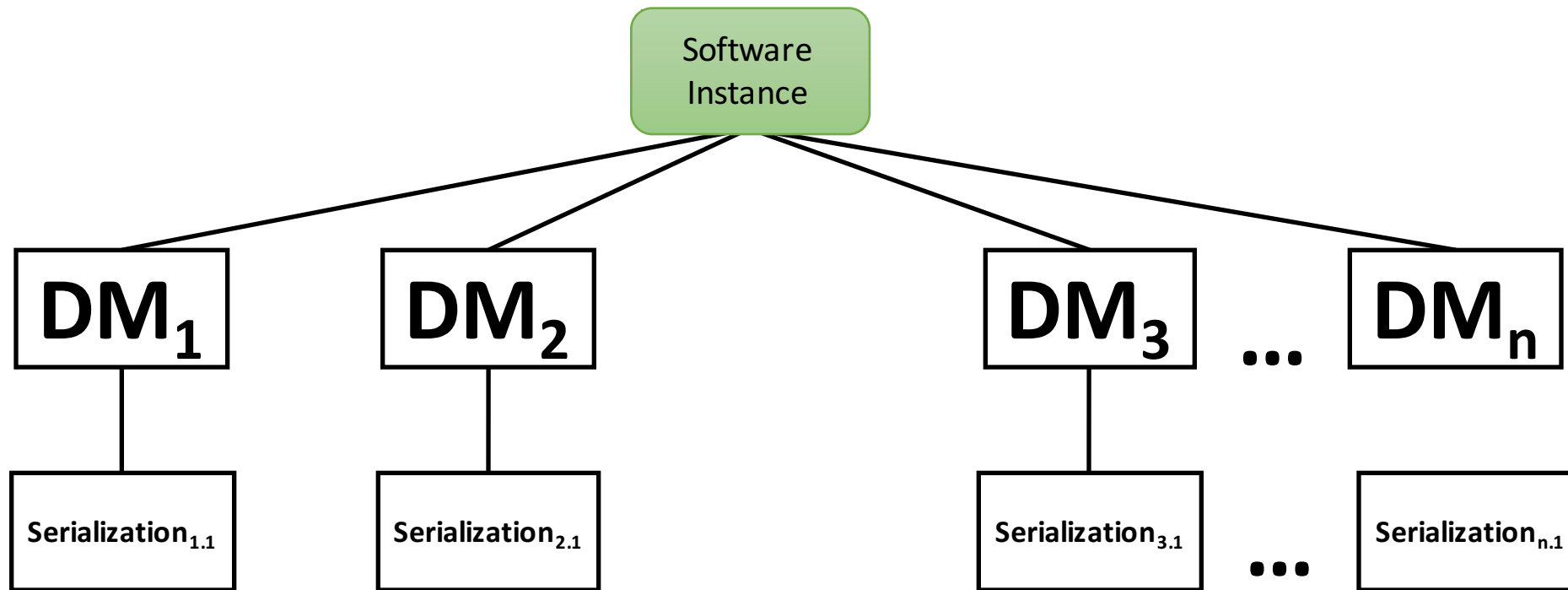
- Information Model¹: An abstraction of entities, their properties, and how they relate to each other
- Data Model²: A mapping of an information model to a form specific to a particular type of data store or repository
- Serialization³: A translation of data structures or objects into a format that can be stored and/or transmitted and reconstructed later

1. <https://tools.ietf.org/html/rfc3198>
2. <https://tools.ietf.org/html/rfc3198>
3. <https://en.wikipedia.org/wiki/Serialization>

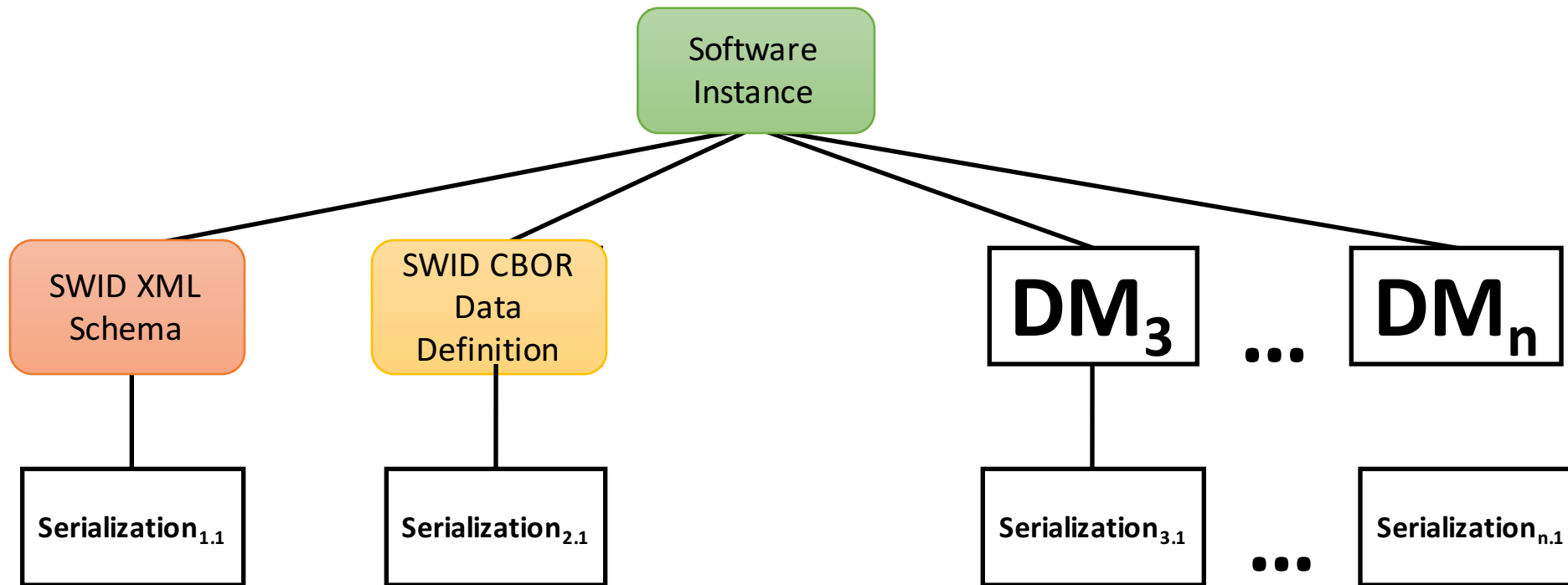
IM, DM, and Serialization



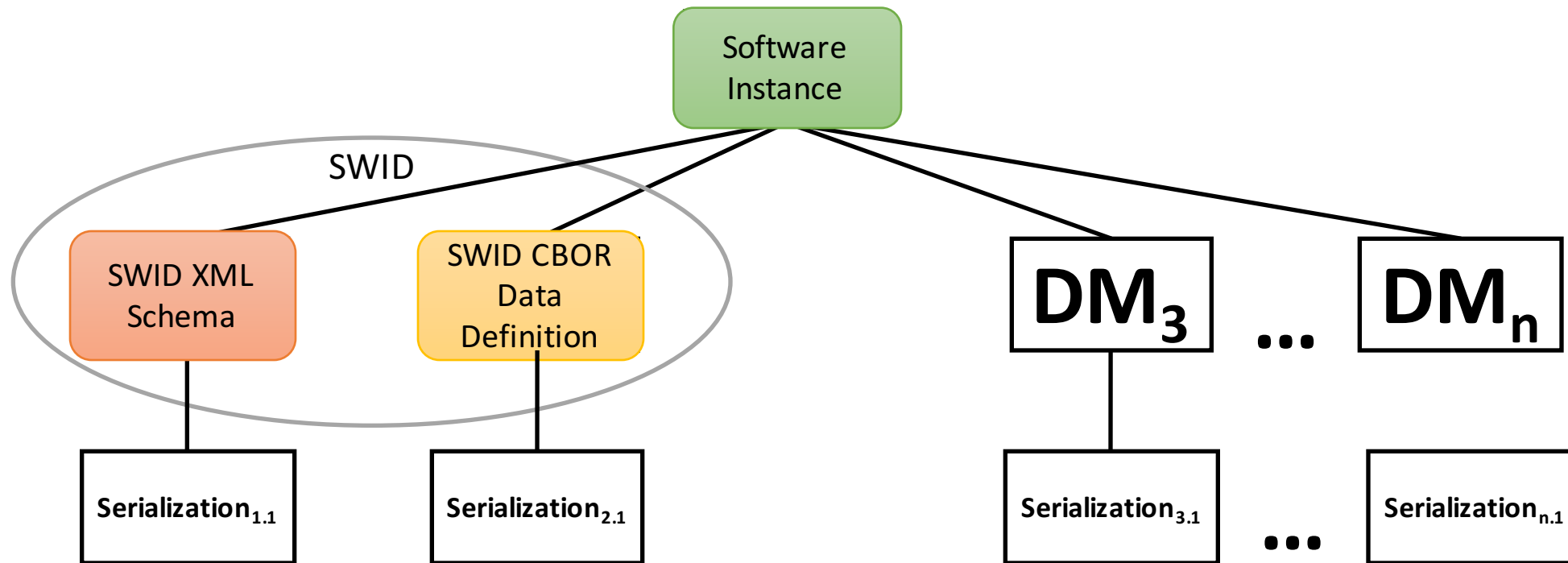
IM, DM, and Serialization



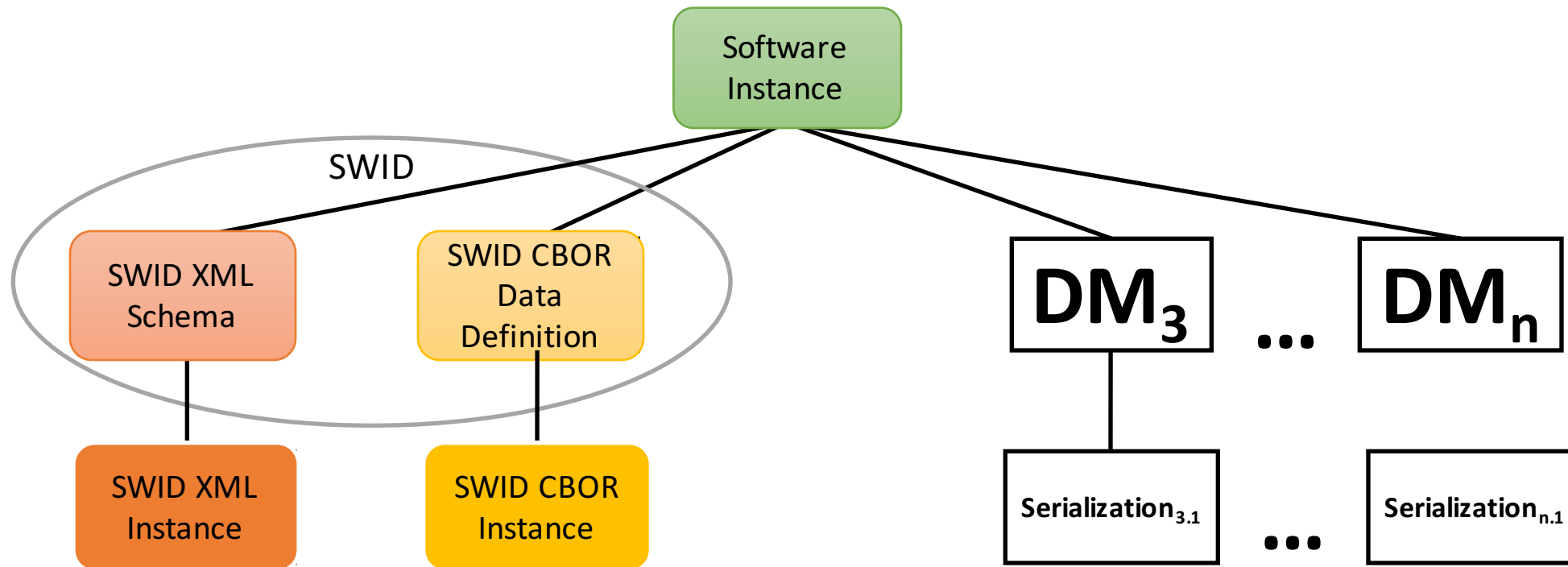
IM, DM, and Serialization



IM, DM, and Serialization



IM, DM, and Serialization



draft-cam-winget-sacm-information-model-00

- Submitted on 3/21¹
- Intent was to integrate text into the current IM (not replace it)
- Provides structure and content
- Focused on building DMs

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

Integration of structure

- Reordering and refactoring of sections in the current IM
- Adopting more precise terminology
 - Attribute => Attribute Information Element (AIE)
 - Object => Composite Information Element (CIE)

Integration of vocabulary

- Make use of the IPFIX syntax
- Investigate extensions to the IPFIX syntax used in the IM to support:
 - Cardinality
 - Datatype semantics

Next steps

- Integrate text from draft-cam-winget-sacm-information-model-00 into the IM
- Fix a few bugs in the IM that have been reported
- Add IEs proposed by the WG into the IM
- Continue discuss, resolve, and close out open issues