

# Versioning and Features

Context: One Data Model (OneDM) evolution  
(See also previous talk)

- Model versioning
- Language versioning

# What is a feature?

- Capability indication
  - unidirectional announcement
  - no consequence if ignored by peer
- Interpretation agreement
  - shared setting, must be heeded by peer
  - result of negotiation/common context
  - need to prevent false interoperability

# What is a "version"?

Feature that has been

- blessed a bit,
- named by straightjacketing into a linear space

Can be roll-up of both:  
capability and interpretation features

Imagine: feature string "SDF2.0"

# Versions vs. Revisions

Revisions of a file need not have semantic implications (e.g., updating copyright messages)

N.B.:

"fixing typos" often does have a semantic implication (cf. "writable")

# Model features/versions

Availability of a feature can be intended as a capability indication

Distinguish model capability from implementation capability

Also: roll-ups

# Language features/versions

Unidirectional interpretation requirement

Can be added to header as "require": [...]

Needs stability of overall (data level) syntax

(Being based on JSON reduces issue of surface syntax evolution)

Might have "optional" as well, for features that can be ignored (e.g., protocol bindings)

# Numbers and Code Point spaces

Numbers/Codepoint spaces could be used

- By a single ecosystem: qualified numbers (e.g., IPSO objects, even YANG-CBOR SIDs)
- Across ecosystems: global numbers

Note that global strings are not much different from global numbers: Both need to be agreed

# **Define the ecosystem numbers where?**

Putting numbers into the common models?

- Great to have all info in one place
- Adding an ecosystem requires changing the model; merging problem

Putting numbers into separate files?

- Needs hooks in model to tie these numbers to



## **In other news**

<https://datatracker.ietf.org/doc/draft-bormann-core-senml-versions/>