Application Data Models OneDM iotschema.org

Thing to Thing Research Group

Summary Meeting

March 10, 2022

One Data Model

- Contributions from OMA Specworks and OCF

- ~200 definitions for common building blocks

- Developed an operational process for selection and convergence – but it's a hard problem

- Mid-term convergence defined as models that will work for "all" device ecosystems

- OCF and OMA converters implement interworking between models

- Requirements defined for composable designs - internal functional modularity

Going Forward

- New mailing list: onedm@groups.io , please sign up!

- Continuing to refine the convergence process
  - Best practices and evolvable designs

- Bespoke repositories for decoupled development
  - Bespoke repos created for OneDM and OCF models
  - Stable OneDM sub-namespaces to facilitate interworking and incremental convergence
  - Public-facing models with common CI tools, loosely coupled content governance

- Add more models – Bluetooth Mesh

- Internal compositional framework, semantic reuse

- Extended models, linking and complex composed objects

SDF Pressure Test

- SDF is working as designed for object granularity
- Extended modeling seems to be required for good coverage going forward
  - patterns for internal modularity
  - patterns for extension points for mappings
  - complex composition
  - Interworking with other frameworks – DTDL, etc.
  - Models for loose coupled architectures - linking

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- RDF framework for event + action + property definitions – a good set of examples

- Ontologically compatible with OneDM/SDF

- Compatible with W3C TD, used in plugtests

- Proposals to extend the modeling to physical domain in various ways

- Low participation

- W3C Community Group is dormant

- Not extending schema.org