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