



# Current & Emerging Standards for KGs at OMG

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# Knowledge Graph Infrastructure / Cross-Platform Ontology Standards

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- OMG's Ontology Platform Special Interest Group (PSIG) has been an active, contributing working group for 15+ years
- Platform standards published:
  - ✓ Ontology Definition Metamodel (ODM) – ODM 2.0 planned for Q3/Q4 2020
  - ✓ Distributed Ontology, Model and Specification Language (DOL) – DOL 1.1 planned for December 2020
  - ✓ Languages, Countries and Codes (LCC) – LCC 1.2 planned for Q3 2020
  - ✓ MOF to RDF Mapping – MOF2RDF 1.0 published in March 2020
- Platform standards in work:
  - ✓ APIs for Knowledge Platforms (API4KP) – revised submission planned for Q3 2020
  - ✓ Multiple Vocabulary Facility (MVF) – revised submission planned for Q3 2020

# Ontologies at OMG

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- Domain standards published:

- ✓ Financial Industry Business Ontology (FIBO) – FIBO 2.0 is planned for Q3/Q4 2020
- ✓ Financial Instrument Global Identifier (FIGI) – FIGI 1.1 is planned for September 2020
- ✓ Information Exchange Packaging Policy Vocabulary (IEPPV) – update planned for 2020

- Domain standards in work:

- ✓ Robotic Service Ontology – initial submission planned for December 2020, joint effort with the IEEE Robotics community
- ✓ Unified POS Fiscal API / Digital Receipt API – initial submission planned for June 2020 (includes preliminary Retail Industry Ontology, mainly for digital receipts)

# Business Modeling & Integration Related Standards

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- Case Management Model and Notation (CMMN) 1.1
- Decision Model and Notation (DMN) 1.3
- Date Time Vocabulary (DTV) 1.3 (a subset is used in FIBO)
- Pedigree and Provenance (PP) – in work
- Production Rule Representation (PRR) 1.0
- Semantics of Business Vocabularies and Rules (SBVR) 1.5
- Standard Business Report Model (SBRM) – presented in March 2020, coming soon

# Ontology PSIG Roadmap

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- RFC for the Architecture Board's Specification Metadata
  - ✓ Currently used by all OMG ontology standards
  - ✓ Also used in OMG Specification Catalog automation
  - ✓ RFC would include support for UML models & profiles, IDL
- Guidelines for ontology publication and maintenance at OMG
- Extensions to the ODM to support RDF\* / SPARQL\* (potentially)
- Continued support for any task force that wants to publish an ontology as an OMG standard
- Collaboration with the AI Task Force & migration from ADTF to AI for new platform standards publication as appropriate