

OMG Ontology SIG

Topic Maps Metamodel

OMG Ontology SIG

- Working with UML to define Ontology Definition Metamodel
- There is going to be an ODM standard that can be used to define ontology languages
- The SIG wants to use this to define ontology languages for
 - topic maps
 - OWL
 - RDF/S
 - SCL

Background

- **Graham and I received an email from Lewis Hart 2004-03-02**
- **Lewis wanted to start from the TMDM to create a starting point for the ODM example**
- **He asked us a number of questions by email and produced a number of example drafts**
- **Having created the final proposal he came back saying, “actually, shouldn't we just have a single UML model of this?”**
- **So, what we are discussing here is**
 - whether we want to do a UML model of TMDM with them, and
 - how to do it



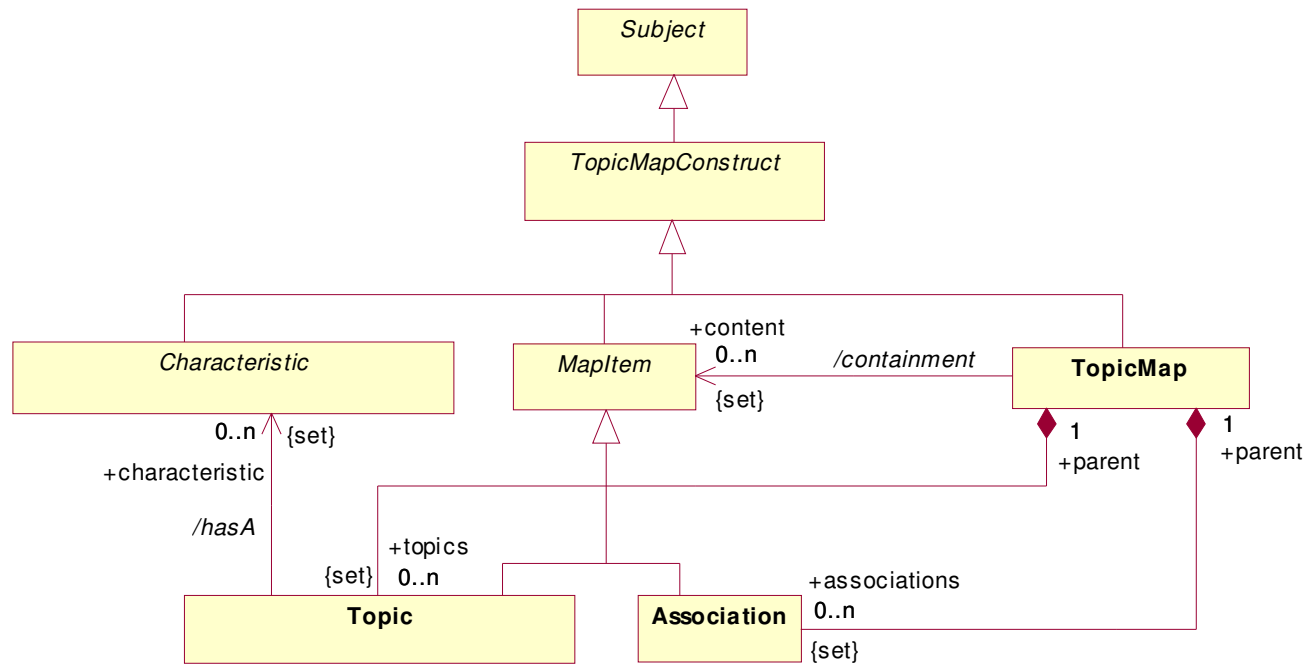
OMG Ontology SIG requirements

- The model must be an OMG MOF Version 2 model
- The constraints on the model must be expressed in OCL
- Deadline for new submission is 2004-10-11
- *May* be other constraints imposed by ODM as well, don't know

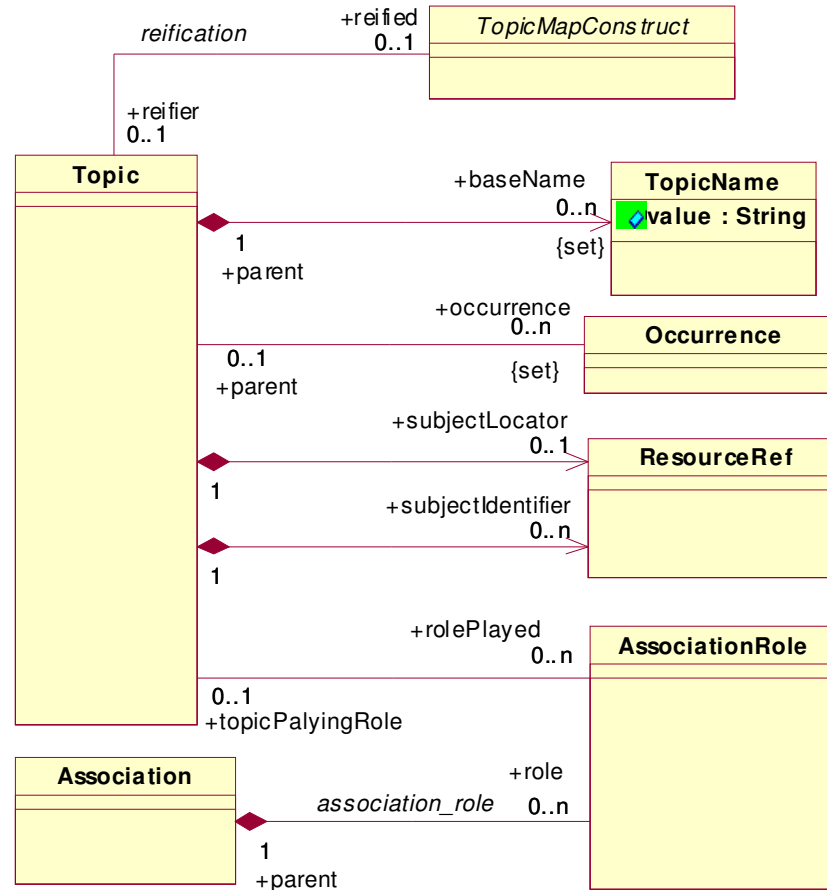
Proposed approach

- **ISO SC34 WG3 and OMG Ontology SIG create a collaborative effort to create a new UML model of TMDM**
- **The finalized model**
 - goes into TMDM, diagrams replacing existing ones, OCL going into a non-normative annex,
 - becomes the OMG Ontology SIGs metamodel for TMs

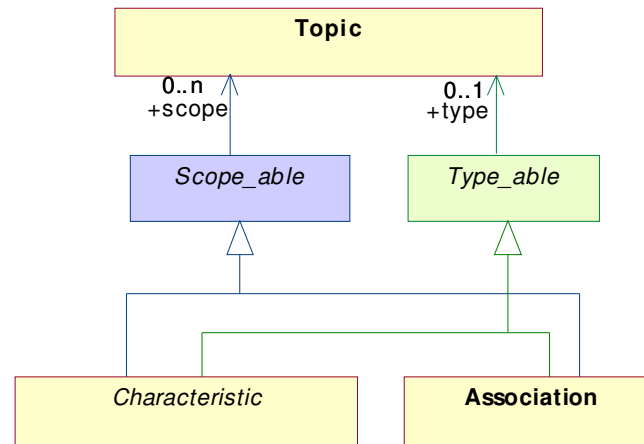
Topic Map Constructs



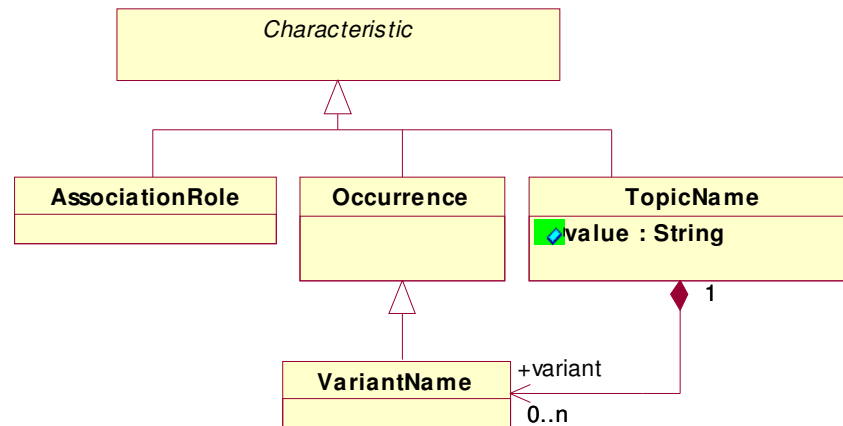
Topics



Scope and type



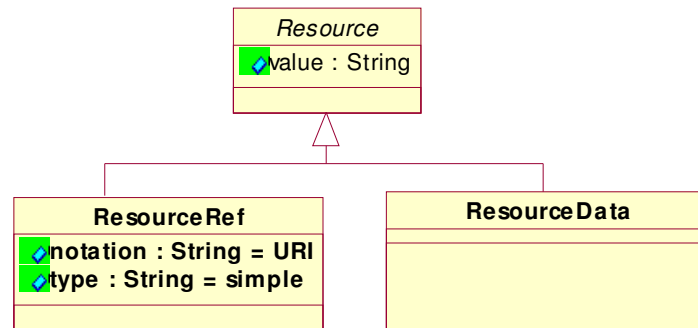
Characteristics



Occurrence



Resources



Core published subjects

