DatasetDM-1.0 status

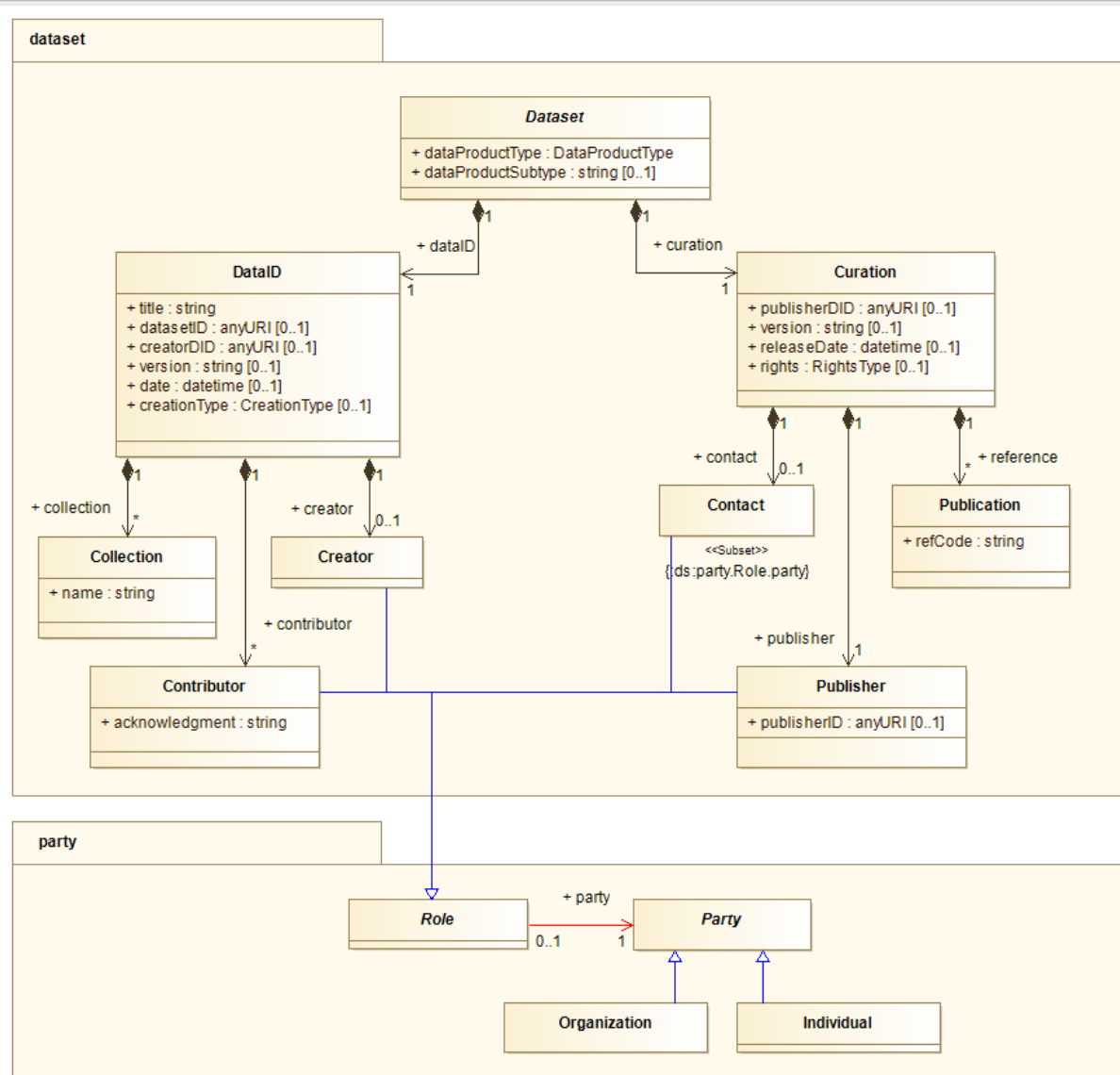## Mark Cresitello-Dittmar, SAO

Activities

+ VO-DML compliance topics on mail list
- Enumerations: EnumLiteral definition
  - Will remain as originally described
- Open multiplicity on attributes
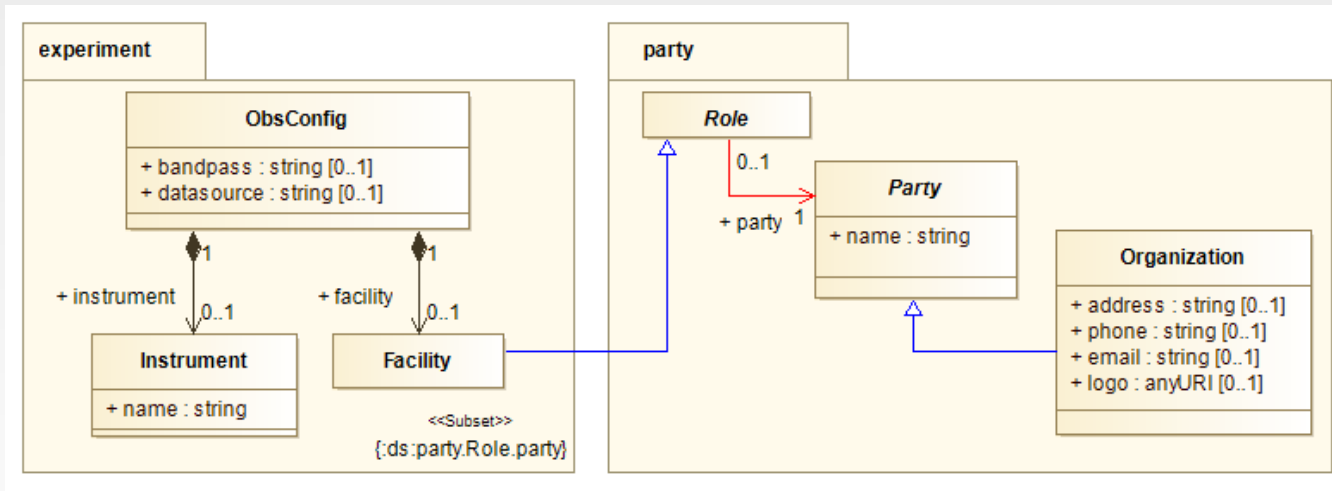 - Will be allowed, but strongly discouraged

+ Focus meeting – Baltimore (Feb)
- Resolved above items
- Normalize elements using simple 'Party' model
- Specify objects for elements (Reference, Collection, etc)
- Restructure ObsConfig folding in concepts over content
  - (Bandpass, Facility, Instrument, etc.)
- Proposed changes posted to dm mail list

Dataset Model diagram
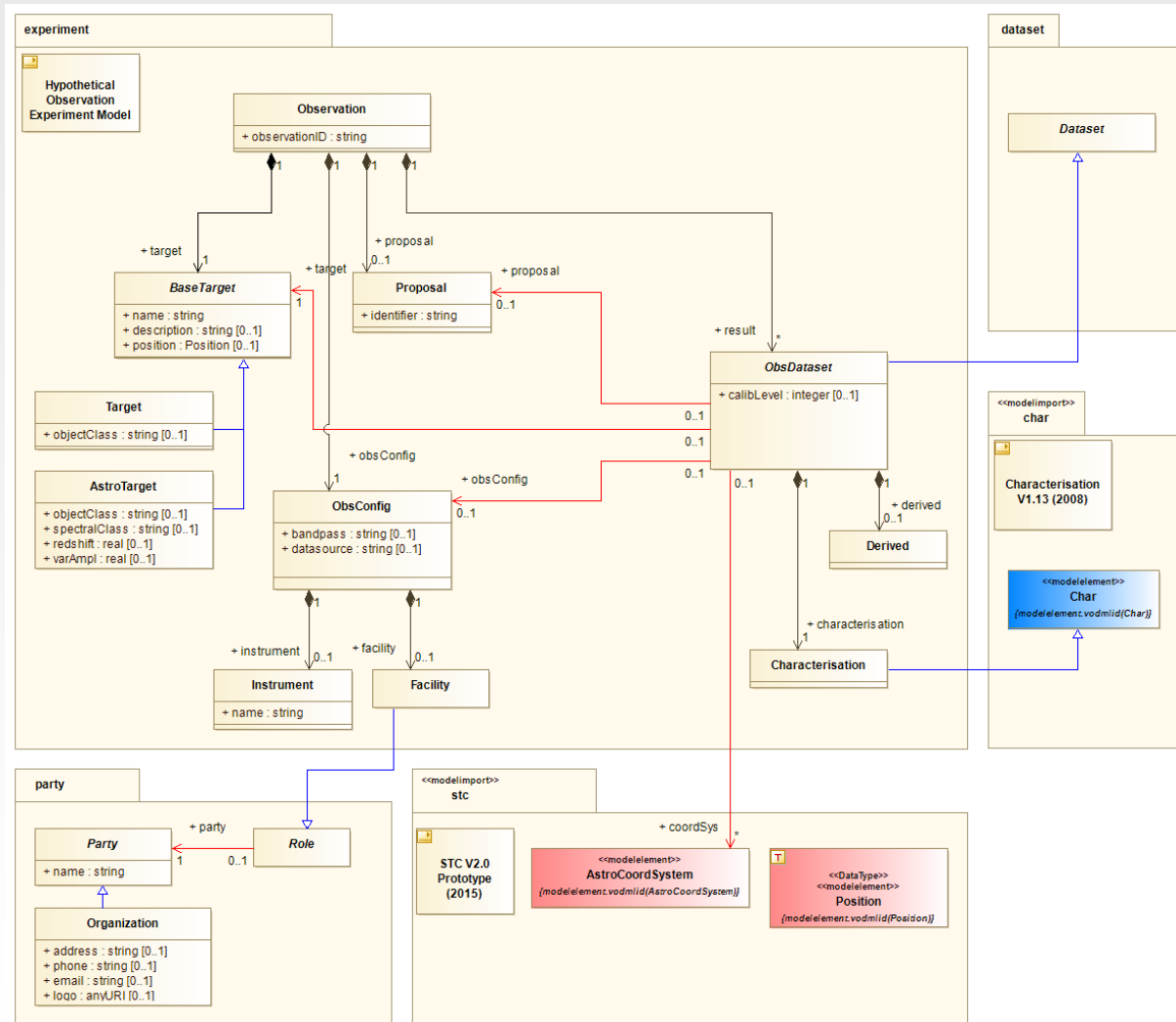
ObsConfig model diagram

WG review

+ Formal WG review of revised document

- Good feedback on certain changes..
- Moved ObsDataset into Observation package

+ Open topic: Add Identifier type in Party model

- http://mail.ivoa.net/pipermail/dm/2016-April/005354.html
- Curation.publisherDID:anyURI = IVOA Identifier format
  DataID.creatorDID:anyURI = IVOA Identifier format
  DataID.datasetID:anyURI = persistent identifier
  Publication.refCode:string = doi, bibcode or free text
  Publisher.publisherID:anyURI = ID of the publisher
- Allows standard migration: doi, ivoid, generic-uri, orcid
- Questions about usage

Observation package

VO-DML validation

+ Generated XML description from UML model

- xslt translation script, Modelio-3.0 compatible
  - Provides common framework model spec from which many products can be generated
- vo-dml validator
  - Ensures model complies to vo-dml practices
- Generated HTML documentation
  - xslt script translating XML file
  - https://volute.g-vo.org/svn/trunk/projects/dm/vo-dml/models/ds/DatasetMetadata-1.0.html

Implementations

+ ObsCore 1.1
  - Mapped ObsCore1.1 elements (utypes) to ObsDataset
    - Demonstrates ObsCore represents a 'view' of this model, which is a primary goal of the model.

+ VO-DML mapping
  - Generated VOTables using Mapping spec
    - Will feed into mapping prototype work

+ Java Library
  - Folding into generic java library used for spectral
  - Read/write VOTable instances according to model spec.
    - Uses 'utype' tagging
  - May need to add XML interface.