

Proposal Data Model

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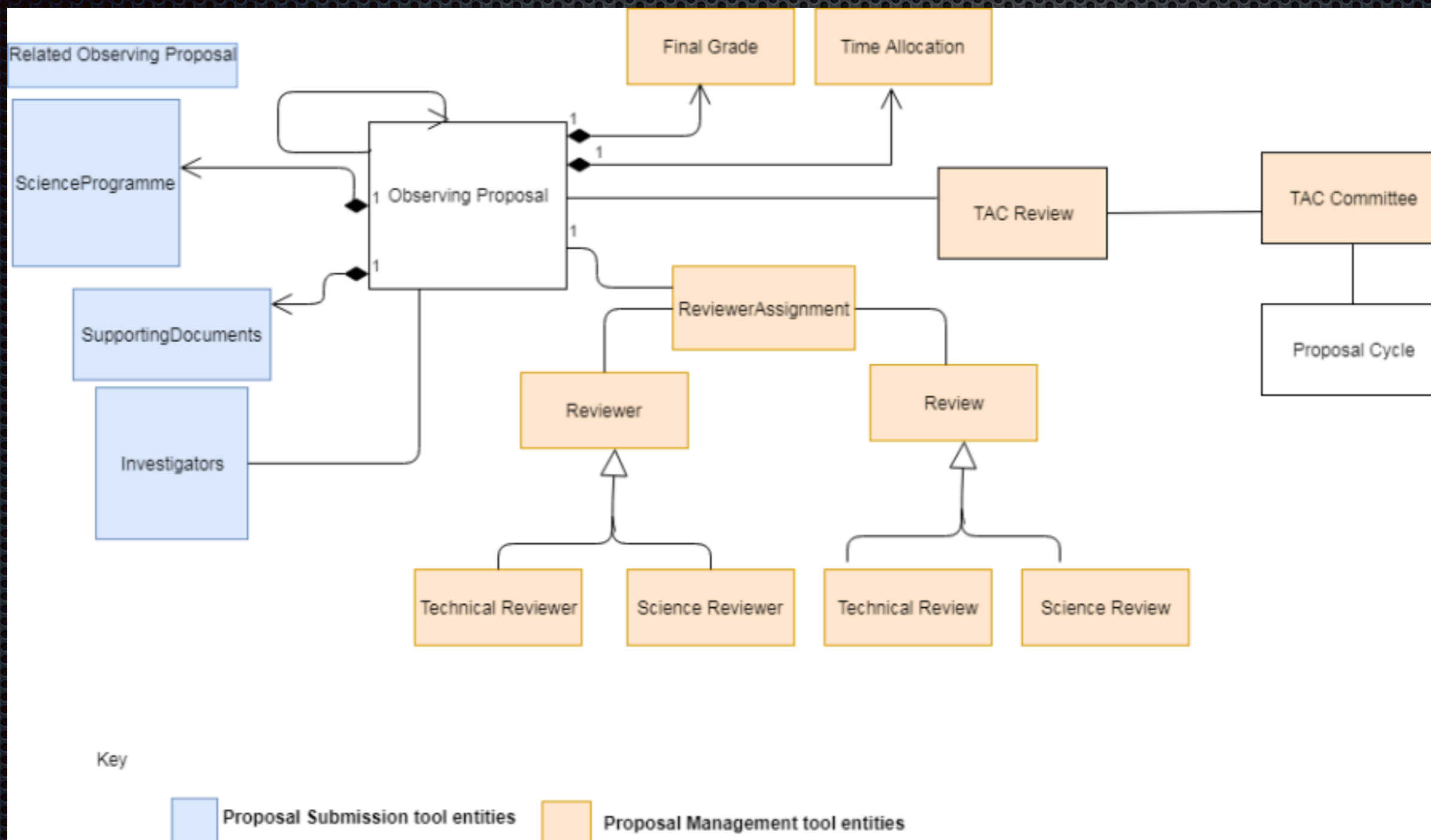
Proposal Tool

- A new proposal tool is a funded deliverable of ORP <https://www.orp-h2020.eu>
 - replacement for Northstar - but different architecture
- Re-use proposal information in other tools - Proposal Data Model.
 - First “deliverable” of the project
- Single Proposal tool deployment can host multiple observatories.
 - peer functionality? Use VO registry to discover?
- SSO - will utilize development from elsewhere.

Proposal Data Model

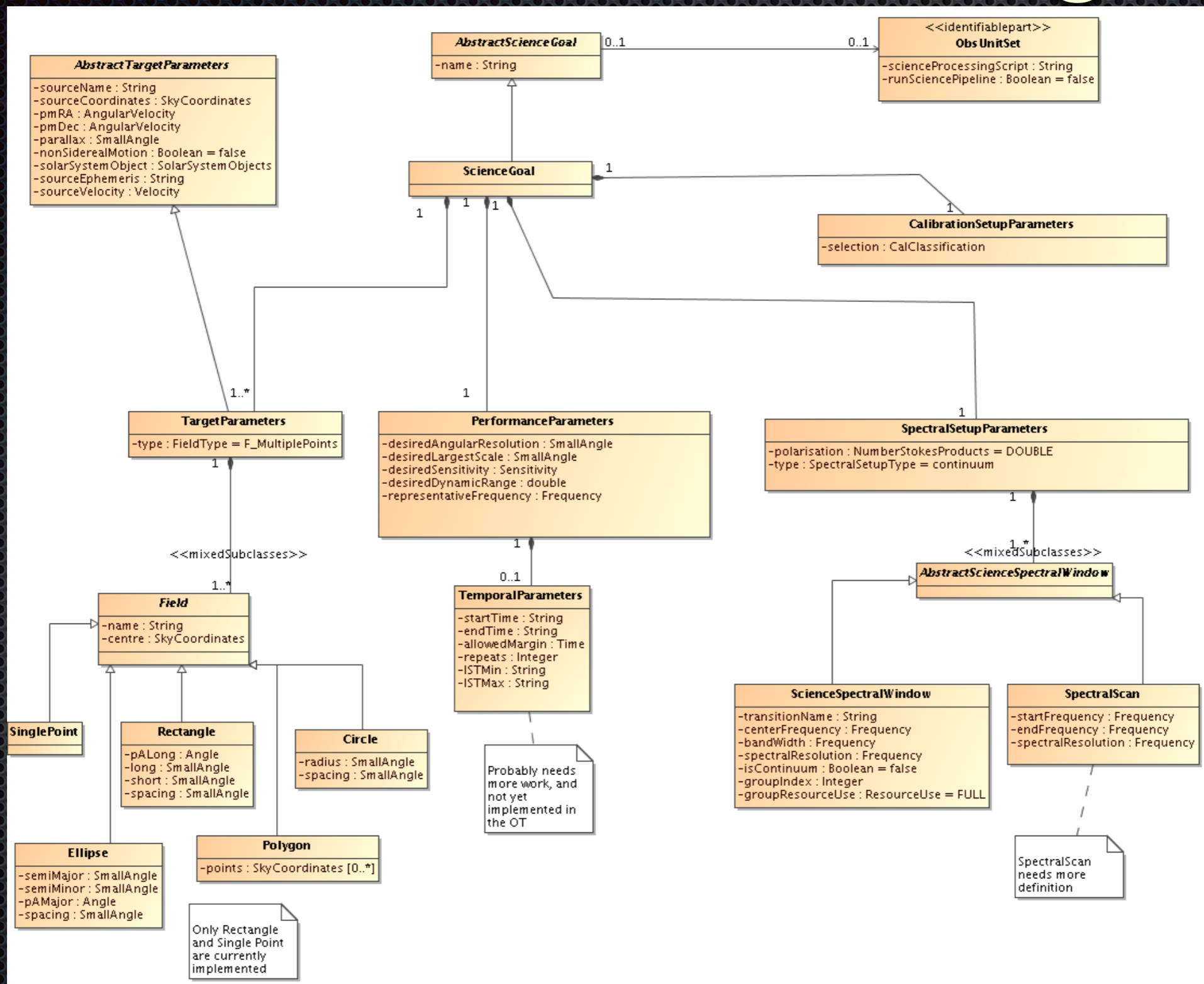
- Inspired by Alan Bridger and Bryan Butler "The ALMA/EVLA project data model: steps toward a common project description for astronomy", Proc. SPIE 7019, Advanced Software and Control for Astronomy II, 70190P (14 July 2008); <https://doi.org/10.1117/12.789262>
 - Create formal data model in VODML^{*}
 - Allow for export and interchange
 - easier to interface with other observatory systems - but note only phase 1 model.
 - Try to model scientific requirements rather than instrument specifics
 - Publish model as formal IVOA standard.
 - Aim to create the smallest model possible.
- ^{*} actually will use VODSL as a working language

High Level View of PDM



https://confluence.skatelescope.org/display/SWSI/9.1_OSO+Primary+Presentation

ALMA PDM - science goal



Existing Model Reuse

- STC
 - good that specialized points are being re-introduced to Coords
 - would like class that is point on unit sphere (majority of astronomical points)
 - would like a “catalogue source” otype - higher level than Meas...
- DataSetMetadata has some similar concepts, but it would be nice to factor out into smaller parts - with more detail.
 - e.g. Roles from that model.
- Observatory/Instrument Metadata - in the Registry? Its own service?
- ObsLocTap - service has connections.

Contributing

- Open collaboration via <https://github.com/ivoa/ProposalDM>
 - note that the ultimate source code is [vodsl](#) which is auto-translated into the normative VO-DML.
- The eventual Proposal Submission Tool that uses this data model is being developed separately on [GitLab](#)
 - Although tool is an Opticon - RadioNet project, you can shape via contributing to the [requirements](#)
- There is also a [job at JBO being advertised](#) to work on this