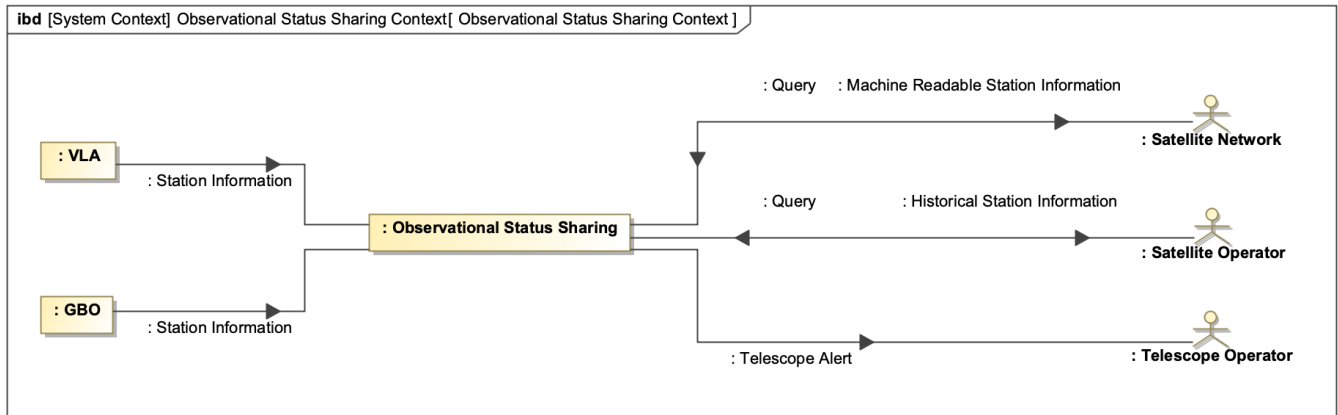


Operational Data Sharing

The ODS system is modeled in Cameo based on the requirements and ConOps provided [here](#). The model currently consists of a context diagram and a use case diagram.

Context Diagram

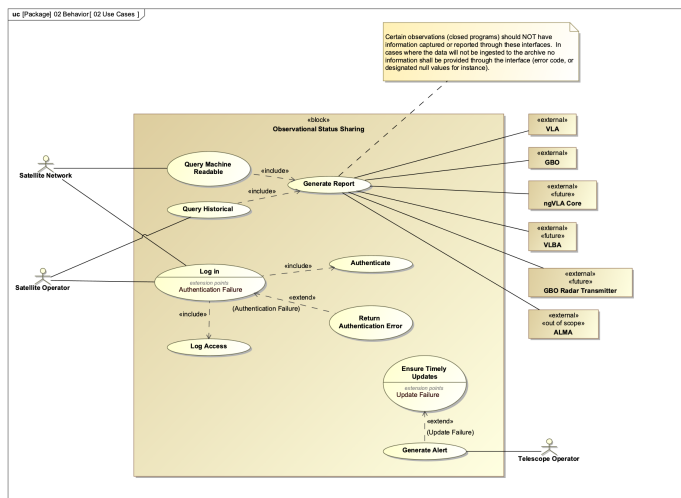
The system context models the OSS system as a 'black box' and depicts the information flows into and out of the system.



Use Case Diagram

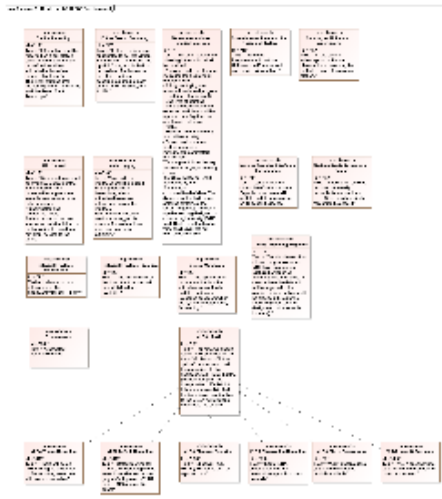
Use Cases are a means of specifying the required usages of a system. The use case diagram (click to enlarge) below models the ODS usages.

Note: "include" means the use case is always executed and "extend" means the use case is only executed when the extension point criteria are met.



Requirements

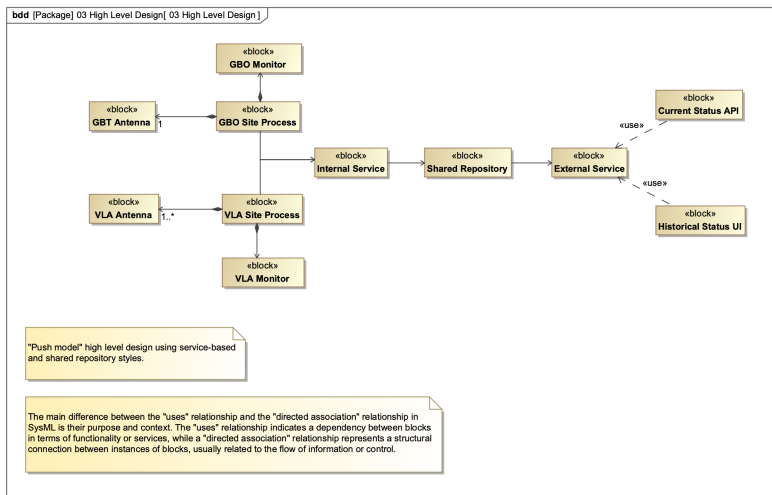
The Requirements Diagram models the existing requirements (click to enlarge).



Architecturally Significant Requirements

- The system must be able to support the Green Bank Radar Transmitter, ngVLA Core, ALMA, VLBA in the future.
- Quasi-realtime performance: "Update latency should be of order seconds." and "Expected use cases will seek to update information on 15 second cadence."
 - Assume latency means: "the delay before a transfer of data begins following an instruction for its transfer."

High-level Design



Data Model

