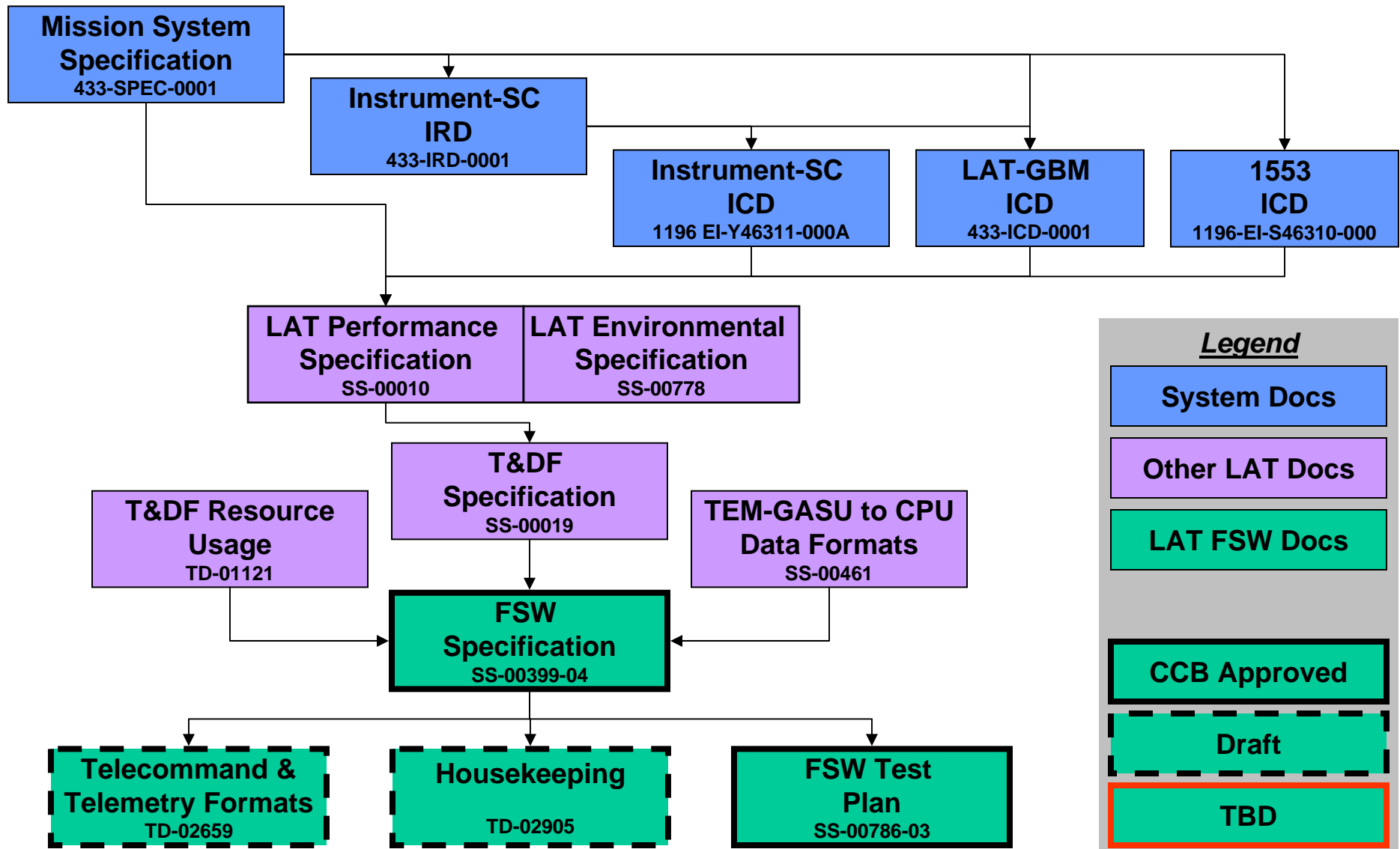


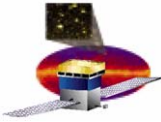
Requirements

- **Document status**
- **Significant requirement changes since EM2**
- **TBXs, open IV&V TIMs**
- **Requirements Progress: Mapping to monthly demonstrations**



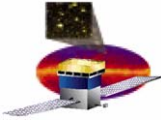
Document Tree & Status





Significant Requirement Changes since EM2

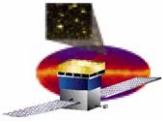
- Specification update leading to EM2 was significant (~60 → ~200 requirements)
- Evolutionary updates since:
 - Science data rate from 66 Mbps to 40Mbps
 - Autonomous responses for red limit violations reduced to Alert Telemetry notification only (and only for a subset of red limit violations)
 - Dwell telemetry requirement added
 - Burst buffering requirement removed (misallocated, HW)
 - Added cosmic ray calibration requirements for TKR
 - Descoped requirement for autonomous reconfiguration after SAA
 - Mode control requirements enhanced



Open Issues

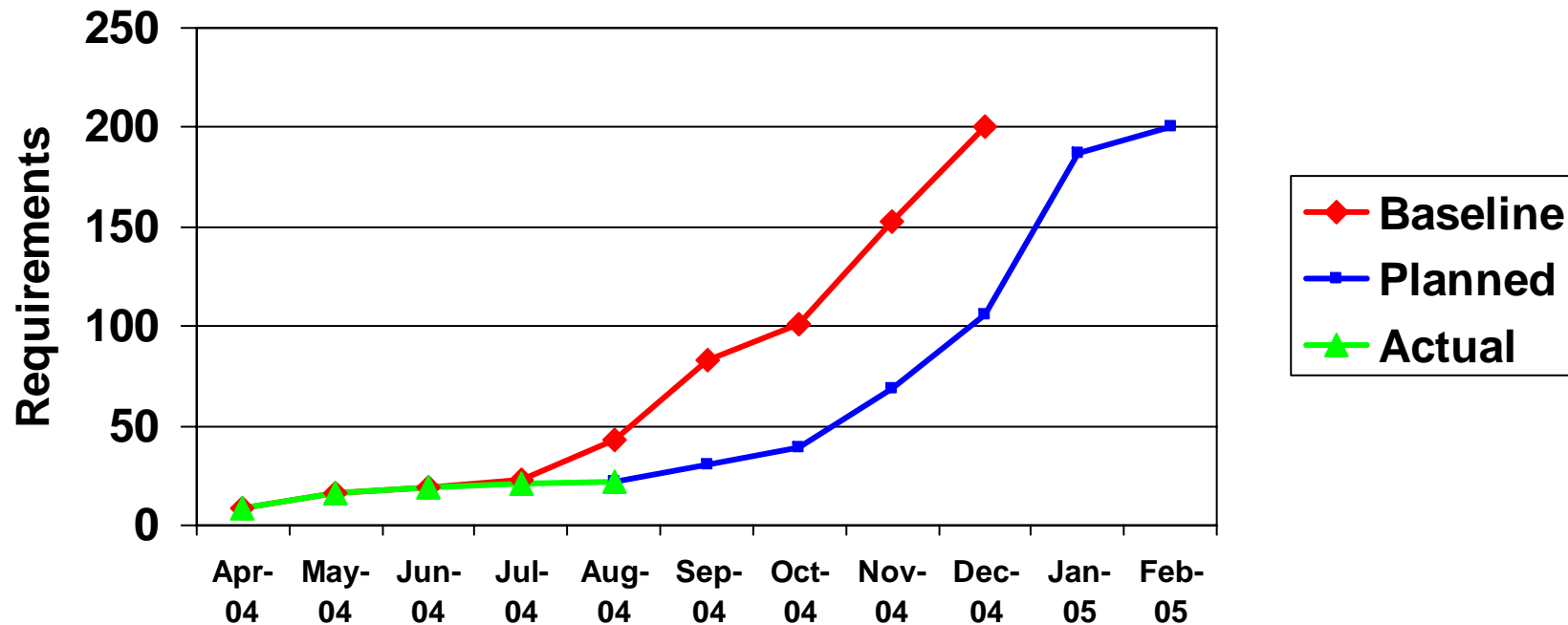
- **Remaining TBXs**
 - ACD current limits
 - Configuration values for CAL Charge Injection Calibration Mode
 - TKR cosmic ray threshold
 - Configuration values for ACD Trigger Mode
- **IV&V**
 - Recent telecons have closed all level 1 & 2 TIMs
 - ~10 Level 3 & 4 TIMs remaining open

Note: All remaining TBXs and open IV&V TIMs are parametric in nature, not limiting the ability of FSW development team to implement functions. All awaiting more detailed analysis by subsystems. Will be finalized well before qualification testing.



Requirements-to-Demo Mapping

Demo Status thru August



- ~10% requirements fully demonstrated as of August demo
- Additional 15% of requirements partially demonstrated
- Only fully demonstrated requirements shown in graph