

27 August 2014: DSOC Interface Definitions

- Commanding Interface: 1553B
 - Expected number of Commands: 30 (Current Best Estimate)
 - Housekeeping Data transmitted to Spacecraft: <500 bits/second (once/second update)
- We will probably ask for a couple temperature sensors owned by the spacecraft to provide temperature data when DSOC is off.
- Data Interface: GigE (Can be negotiated/modified if it proves problematic for implementation)
- Mechanical Interfaces: The instrument design is too immature to go beyond what is in the Technology Briefing package.
- Thermal Interfaces: DSOC will have radiators on both the electronics and optical telescope assemblies. Size and location are not yet defined and are mission-dependent. DSOC is currently assuming no net heat transfer to/from the host spacecraft