

MISSION OPERATIONS DIRECTORATE OPERATIONS DIVISION



Command Link Sharing

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- HST and RNS need command link
 - Potential periods where both payload customers need to use command link at the same time
 - Possible impact: commands sent exceed allowed payload command rate, resulting in one of the commands being rejected (Ground Data Reject [GDR])
 - A.k.a. 'command collisions'
 - Cannot predict which command will be rejected
- History
 - Past payload flights have had different commanders operating simultaneously
 - DO5 command policy: notify all commanders of simo commanding and proceed with commanding
 - Personal experience: STS-95, STS-107
 - On STS-107, did see commands colliding.
 - Coordinated with each commander to determine who had priority and had other commander stand down briefly
- Resolution
 - HST and Payloads determine periods of expected simo commanding
 - Identify who has priority, especially with Hazardous or critical commanding
 - Draft a JOIP procedure and/or denote in SMIT/command plan to coordinate commanding, if necessary