

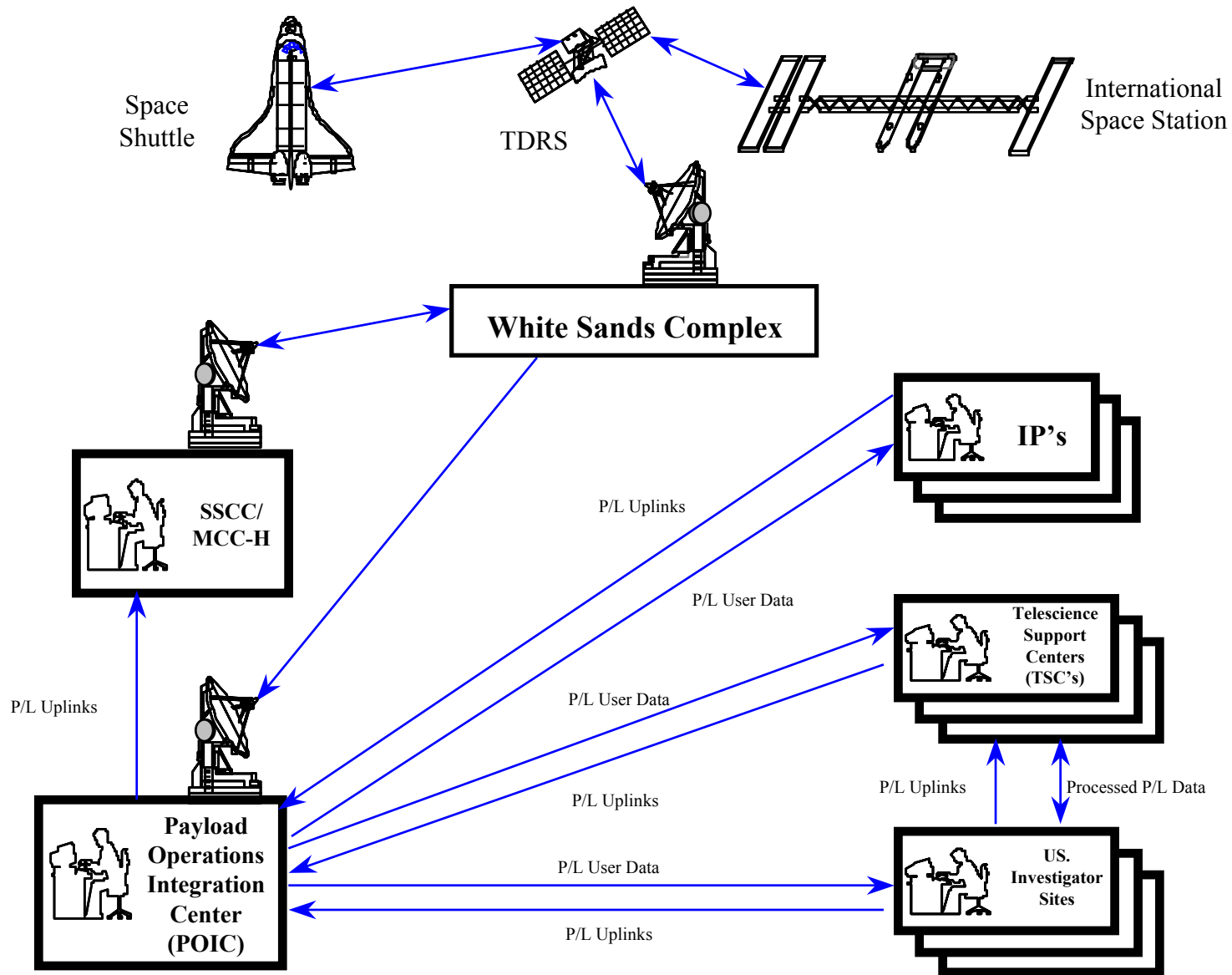
Telescience Resource Kit

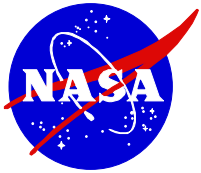


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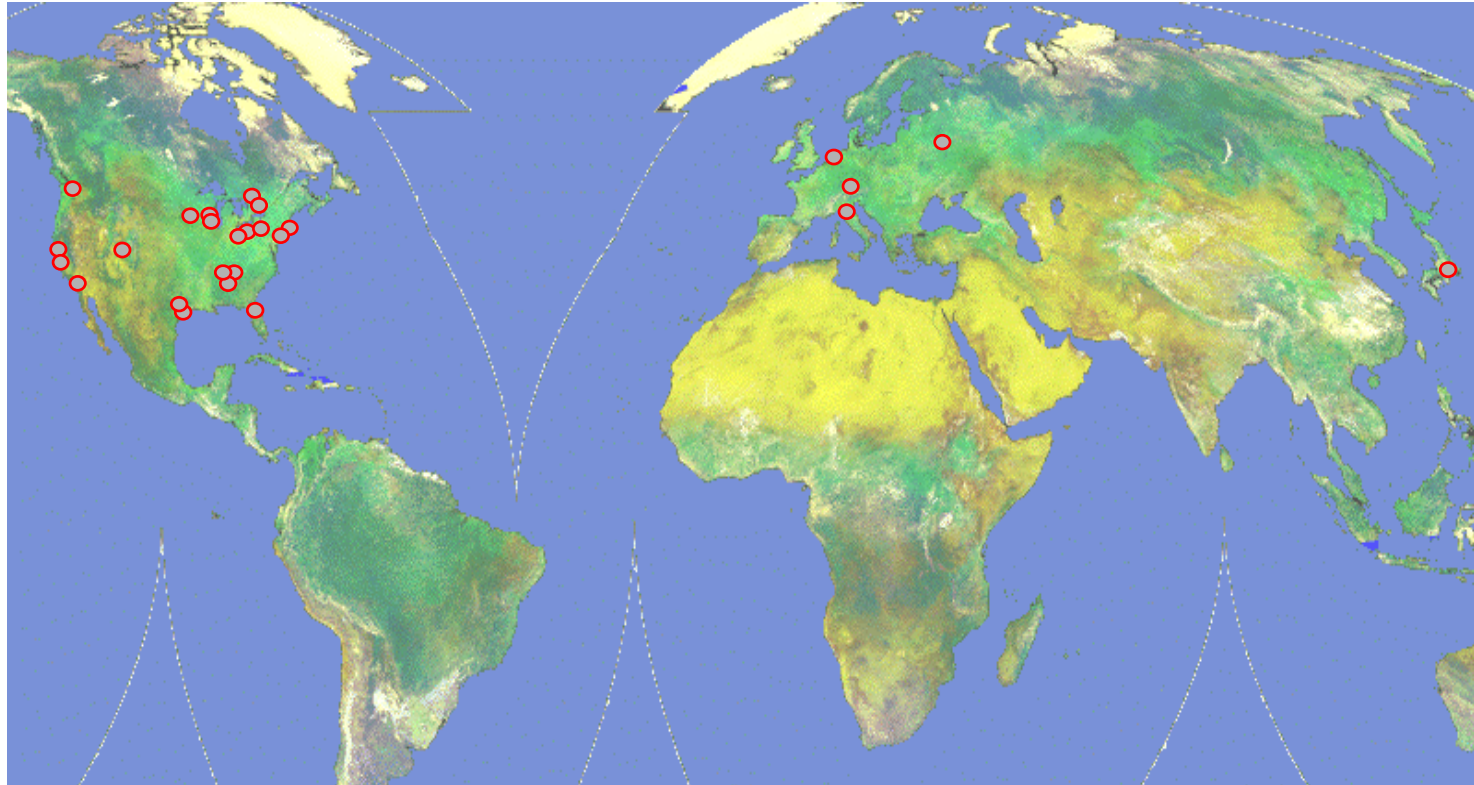
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ISS Payload Telemetry and Command Flow





Distributed Payload Operations Supported ISS Customer Distribution



- Indicates Location With One or More Payloads Supported Including
 - Remote Principal Investigator (RPI) Sites
 - International Partners and International Participants
 - NASA Telescience Support Centers (TSCs)



Telescience Resource Kit



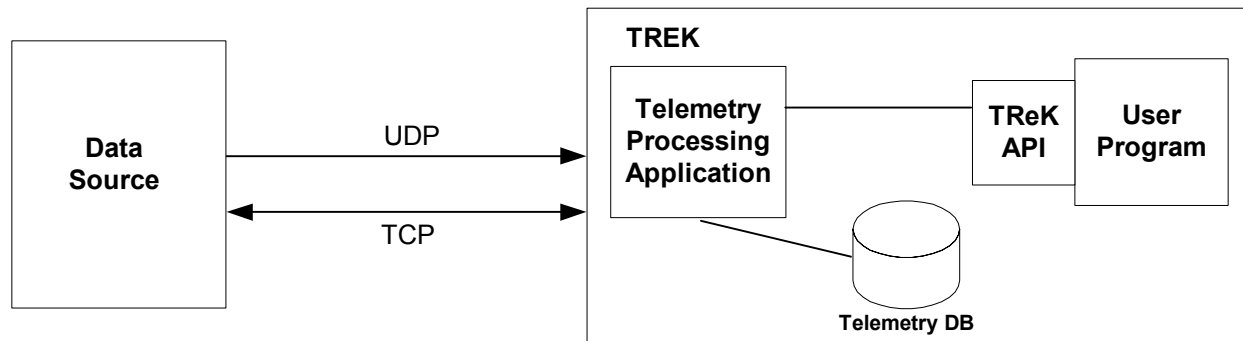
- TReK is a suite of software applications that provide local ground control system functions.
- The TReK software runs on a PC under the Windows 2000 operating system.
- The initial cost of a TReK solution is less than \$3500.
 - Initial cost includes a commercial PC and commercial software products.
 - Initial cost does not include network connectivity costs.
 - Yearly maintenance costs will include hardware and software upgrades.



Telemetry Capabilities



- * Receive, Process, Record, Forward, and Playback Telemetry Packets
- * Display, Record, and Monitor Telemetry Parameters
- * Extract Telemetry Parameters from Recorded Data Files
- * View Incoming Telemetry Packets (Hex/Text Format)
- * View/Record Telemetry Processing Statistics
- * Telemetry API
- * Telemetry Database

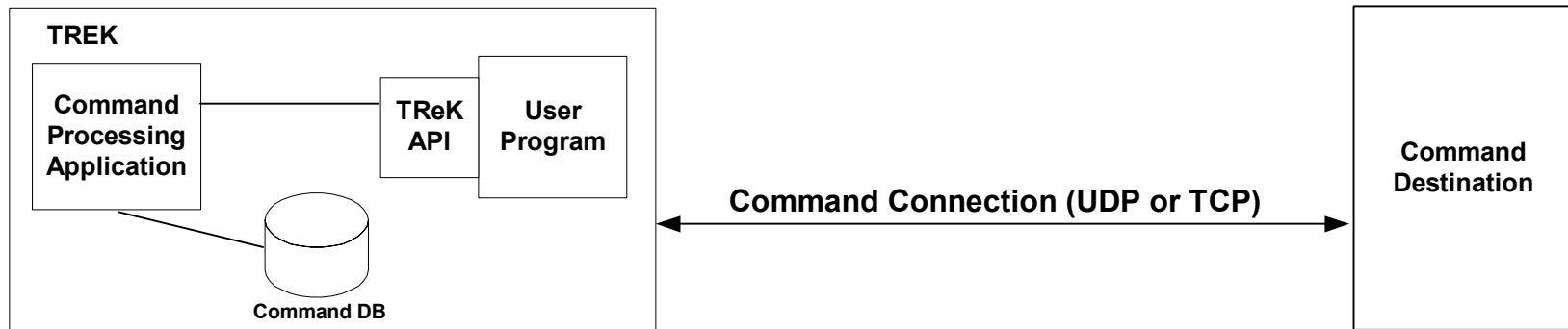




Command Capabilities



- * Command Build/Uplink
- * Command Updates
- * Command Responses
- * Command Session Recording/Viewing
- * Command Track
- * Command Statistics
- * Command API
- * Command Database





Training/Testing Capabilities



- TReK includes two training tools that can be used to simulate telemetry and command services. These tools require no external interfaces so they can be used for stand-alone training purposes and testing.
- TReK includes a full set of documentation (user guides, step-by-step tutorials) and on-line help.



Point of Contact



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