



TReK 5.3.0 Software

The TReK 5.3.0 Software Release will contain the following updates:

- Safety Conditional KuIP Services (SCKIPS) – Updates to TReK CFDP Software
 - Hazardous commands are recorded in a file.
 - A hazardous command file is transferred to a payload using CFDP configured to encrypt and decrypt CFDP's Protocol Data Units (PDUs) and includes an encrypted timestamp.
 - Encryption provides confidentiality, authenticity and integrity.
 - An encrypted timestamp provides replay resistant time authentication.
 - The PEP Ethernet interface provides the ability to monitor SCKIPS's health and status information.
 - E-Mail and Text Capabilities
 - Includes an Application Programming Interface (API) that supports programmatically texting a message, e-mailing a message, or e-mailing a file to one or more recipients.
 - Includes a drop box capability that supports texting a message, e-mailing a message, or e-mailing a file to one or more recipients.
 - Includes the capability to configure for application specific alerts via e-mail or text. For example, the HOSC Login application can be configured to send a text or e-mail if the connection between TReK and the HOSC is lost.
 - Example Usage Scenario: Payload uses CFDP to send a file to a ground e-mail dropbox which e-mails the file to one or more recipients.
 - Generate GSE Packets
 - This capability can be used to retransmit data processed by TReK.
 - The GSE packet will be formatted as defined in the PGUIDD (SSP-50305).
 - Users can define a GSE packet, export the metadata definition for the GSE packet, and manage the transmission of the GSE packet.
 - Parameter Extraction
 - Extract parameter values from incoming data and write them to a file.
-