

Avionics System Integration and Validation – CFDP Reference and Test Facility Tasks

Activity:

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Abstract:

The Avionics System Integration and Validation (ASIV) project has three distinct objectives, of which SCISYS is responsible for development and delivery to ESA of a CFDP Reference and Test Facility (CRTF). As part of the original development of the CFDP standard, ESA developed a CFDP reference implementation using a framework no longer supported (Delphi). The CRTF tasks have provided a new CFDP implementation suitable as a reference, test and demonstration environment, the CRTF.

The intended usage of the CRTF is:

- Reference implementation covering class 1 and 2 procedures and all options.
- Test system against which other implementations can be verified using nominal and off-nominal conditions.
- Support system used to emulate mission specific configurations.
- Part of end-to-end test and development environment, connected to ground based implementation at ESOC, used to prepare for future file-based operations.
- As a standalone Linux based system.