APEX - Automated Procedure Execution

Technology: TT&C station

“The APEX study delivers a portable ‘lightweight’ procedure definition and execution environment that facilitates the automation of spacecraft operations and testing.”

Julian Long, Project Manager, SciSys

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PROFILE:

Automated Procedure Execution (APEX) is a generic portable procedure definition and execution tool that enables the automation of spacecraft operations and EGSE checkout.

Designed to be performant, portable, distributable and scalable, its lightweight distributed architecture means that APEX is able to support any mission configuration, from checkout for a single payload instrument to mission operations for satellite fleets or constellations.

APEX builds on SciSys’s extensive experience in providing quality automation solutions for spacecraft fleet operations, for agencies such as Eutelsat, the UK MoD and Eumetsat.

Operations automation reduces operator workload, reducing staff manning profiles and leading to significant savings in mission-lifetime operational costs.

APEX requires minimal integration and configuration effort, with low deployment and life-cycle costs. It is based on Java technology and open standards, and requires no third-party COTS software licences.

APEX is being installed at Eumetsat in 2005 as an upgrade to the existing UNiT system now used for MSG (Meteosat Second Generation). APEX is currently being enhanced to ensure compliance with the European Cooperation for Space Standardization (ECSS) PLUTO standard.