



ERMES

MISSION CONTROL SOFTWARE SUITE

ERMES is a modular, flexible and interoperable software addressing Mission Operations activities for S/C Platforms and Payloads. It also fits to Integration, Testing and Check-Out activities.

Mission Control System

Spacecraft Planner

Payload Control Center

Payload Planner

Master Test Processor

Central Check-Out

SCOE Controller

Front End Manager

Spacecraft Simulator

Test Conductor Console

ONE SUITE MANY APPLICATIONS.



READY FOR THE FUTURE. TODAY.

ERMES fits within NewSpace and traditional ground segments implementing custom and standard protocols, such as the CCSDS and the CubeSat Space Protocol. It interfaces with most Ground Station service providers (Leafspace, KSAT, AWS, etc.) with their specific APIs and implements the CCSDS SLE protocol. Spacecraft monitoring and control implements service-based and packet-based paradigms: ERMES fully integrates ECSS PUS (both A and C) and SCOS2K mission databases. It also provides all the system functionalities via a Python-based scripting engine.

- Bytewise/Bitwise full packet inspection
- SLE and GSaaS ready
- Alphanumeric & graphic monitoring display
- Assisted TC editing and instance export
- Multimission
- Distributed Architecture
- Multi-user



SUITABLE FOR EVERYTHING






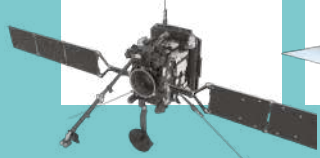
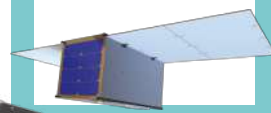


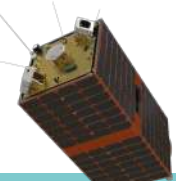
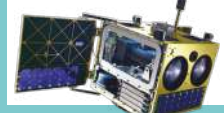
- Contacts management
- TMTC live/history monitoring
- TC stack for manual and automatic execution
- Test preparation for automation
- ECSS Packet Utilization Standard (PUS) compliant
- CCSDS Space Packet Protocol compliant
- SCOS2000 MIB format

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A VERSATILE TOOL FOR SPACE MISSIONS.

The system is cross-platform. Its backend can be deployed both in a Windows and Linux architecture and on a cloud-based/distributed environment. Its frontend graphical user interface is available both on a native desktop client and via a web interface. It is designed to minimize manual operations and the need to implement additional business logic. It adopts EGS-CC reference architecture, easing functions allocation to components and interoperability. As a check-out equipment, it uses EDEN and C&C protocol to perform integration or equipment provider's SW APIs.

OPERATING IN:

SOLAR ORBITER	ALCOR	PLATINO	EAGLE-1	μ-HET SAT	HYPERSAT
ESA • ASI • MSSL	ASI	ASI • SITAEL	SITAEL • SES	ESA • SITAEL	CREOTECH
					
<ul style="list-style-type: none"> Solar Wind Analyzer Instrument Suite Payload Data Ground Segment SWA DPU EGSE 	<ul style="list-style-type: none"> Earth Next Spy Eye Innovator 	<ul style="list-style-type: none"> Mission Control System Avionic Test Bench Platform EGSE 	<ul style="list-style-type: none"> Mission Control Spacecraft Planner 	<ul style="list-style-type: none"> Satellite Control System for operations 	<ul style="list-style-type: none"> Satellite Control System for operations Payload Control System for operations
					

Effedemme | Brand builders



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DEVELOPED BY

