



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

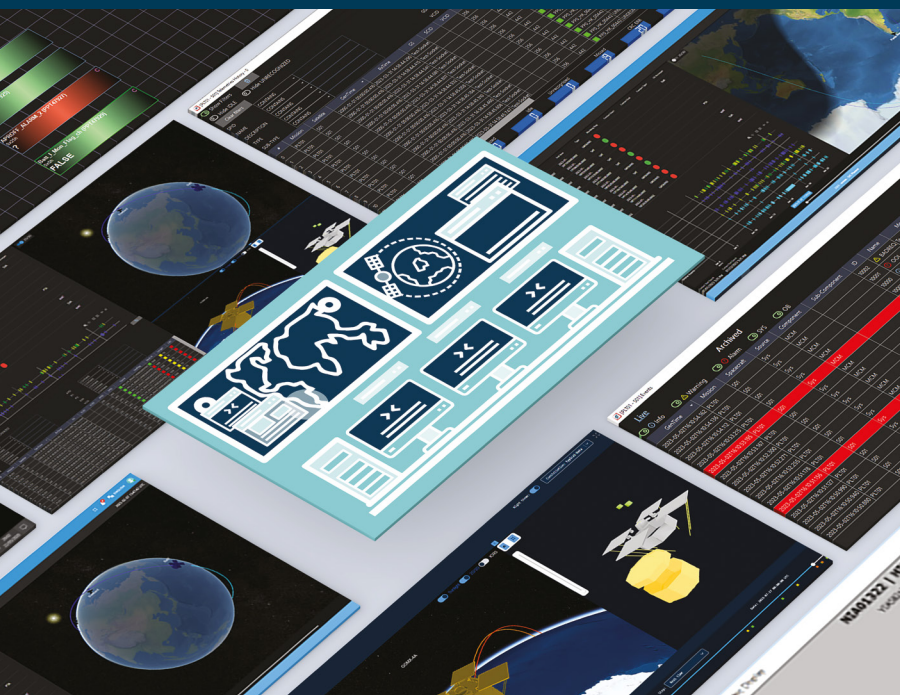
Spacecraft
Simulator

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

 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

SUITABLE FOR EVERYTHING

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

ERMES

CONTACTS
SPACE@PLANETEK.IT

FOR FURTHER INFORMATION
[HTTPS://WWW.PLANETEK.IT/ENG/ERMES](https://www.planetek.it/eng/ermes)

DEVELOPED BY

planetek
italia