Telemetry-West

...pioneering satellite control

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Telemetry & RF Products

L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

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Telemetry-West

Providing the World's Most Advanced Fleet-Capable Command and Control Solutions

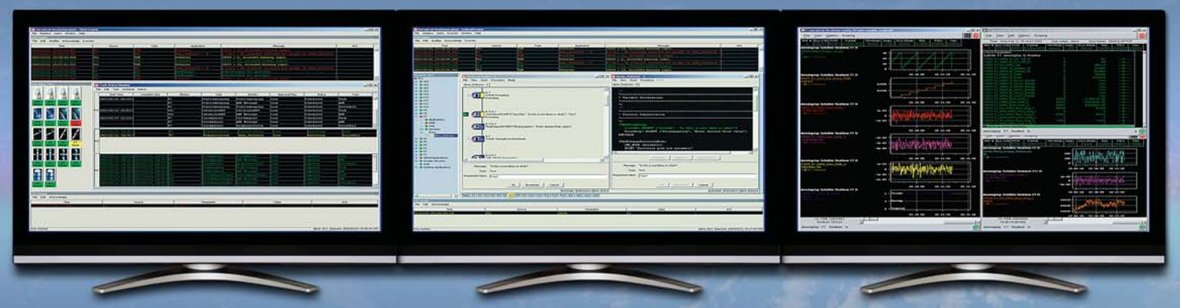
InControl®

Because up here, *out of control* means *out of business*

Excellence You Can Measure

InControl®

InControl™ Satellite Command and Control Software for On-Orbit, Factory Test and Ground System Monitor and Control.



The software designed from the ground up to manage satellite constellations with one control center is now better than ever.

KEY FEATURES

- Multi-mission fleet capable
- Multi-vendor support
- Scalable
- Platform independent
- Ability to use same software application in satellite test and on-operations
- Fully customizable using XML configuration
- Automation for risk and cost reduction
- Modern — designed, developed, and deployed in this century

TECHNICAL DETAILS

Operating Systems	32- or 64-bit
Windows™	
Solaris™	
Linux™	
Inter-Process Communications	CORBA
Languages	Java, C++
Telemetry Rates	up to 10 Mb/s
Command Rates	up to 100 kb/s
Database Format	XML
Language-independent Programming API	

CORE CAPABILITIES:

DATA DISTRIBUTION — InControl™ offers an open architecture that provides multiple methods to distribute data to users and ingest data from other sources. This includes an API, custom user-written functions, Web access and open archive formats.

JAS SCRIPTING LANGUAGE — Powerful scripting language allows access to features of InControl™ through a scripted operations procedure. The JAS language is a superset which supports many industry-standard languages.

AUTOMATION — Combination of the integrated activity scheduler and the JAS scripting language provides for automation of operational and test procedures.

ARCHIVING — Configurable archiving facility for all project data including raw and processed archives, command histories and event logs.

EVENT LOGGING — Records and maintains permanent log of all activities performed. Log viewing capabilities provide means to filter, review and comment the activity log.

DATA DISPLAYS — JADE™ is a user-friendly, drag-and-drop application to display and monitor parameters and missions. Users have access to alphanumeric, time charts and custom animated graphics to create individual views and complete workbooks.

EQUIPMENT MONITOR AND CONTROL — Monitor and control of ground and test equipment is a logical extension of the capabilities provided by InControl™.

DATA RETRIEVAL — A powerful tool is available to access archived data by time range. Data analysts can request all samples or summary data from long-term archives.

REPORT GENERATION — Tools are included to generate customizable reports, which can include graphics, tailored formats and *as-run* data.

LEGACY PROGRAM TRANSITION SUPPORT — InControl™ includes procedure interpretation of several existing spacecraft scripting languages and the ability to add more. Tools are also available for the translation of existing displays.

BUILT-IN SIMULATION CAPABILITIES — InControl™ has the ability to simulate telemetry and command verification responses for operator training, mission rehearsal and procedure development.

FAULT TOLERANCE / FAILOVER / REDUNDANCY — Built-in configurable capabilities are provided to design and enact customized fault resolution processes.

XTCE TRANSLATOR — A tool to translate from XTCE to the internal XML data representation.

ARCHITECTURE COMPATIBILITY — Easily fits into an architecture which includes SOA, message buses and other interoperable service architectures. Multiple methods for interfacing with external 3rd-party products and tools.

WEB-BASED — Using state-of-the-art Web 2.0 technologies, InControl™ includes powerful, rich-client interfaces to provide seamless access to client functions via a Web browser. This also allows for centralized management of software configurations and easy sharing of data archives.

Major satellite customers: **Lockheed Martin | Orbital Sciences Corporation | Astrium | Sierra Nevada Corporation | Boeing Satellite Systems | Thales Alenia | Space Systems / Loral**