



InControl[®]

Satellite Command and Control Software for
On-Orbit | Factory Test | Ground System
Monitor & Control

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





InControl®

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-orbit 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 that 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 displays, 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 that includes SOA, message buses and other interoperable service architectures. Provides 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, robust 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.



Telemetry & RF Products

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