

bright
ascension
mission ready software.

MISSION CONTROL SOFTWARE

overview



WHAT IS MISSION CONTROL SOFTWARE?



Mission Control Software (MCS) an easy-to-use solution for the monitoring and control of spacecraft during development and flight. Harnessing the power of automation and unattended operations, it significantly improves efficiency and scalability of the mission.

The MCS product expands upon our rich underlying model-based GenerationOne technology to give you the most capable solution for mission monitoring and control. GenerationOne technology uses a machine-readable description of the

system architecture, which is understandable by both the space and the ground sides. This approach offers significant and unparalleled improvements in efficiency, automation and cost reduction.

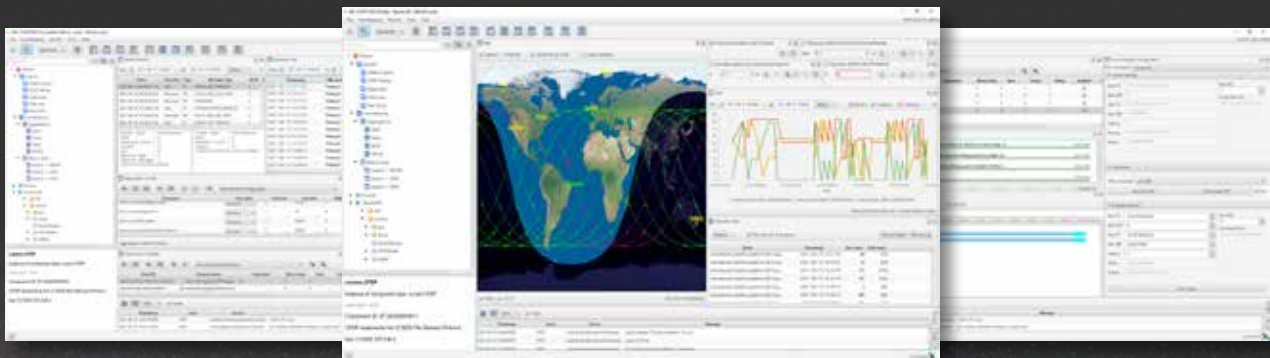


4 REASONS TO CHOOSE MCS.

1. mission monitoring

The MCS provides a rich environment for parameter and event monitoring, including telemetry visualisation and archiving, telemetry monitoring with alarms and condition notification, and many more features under active development.

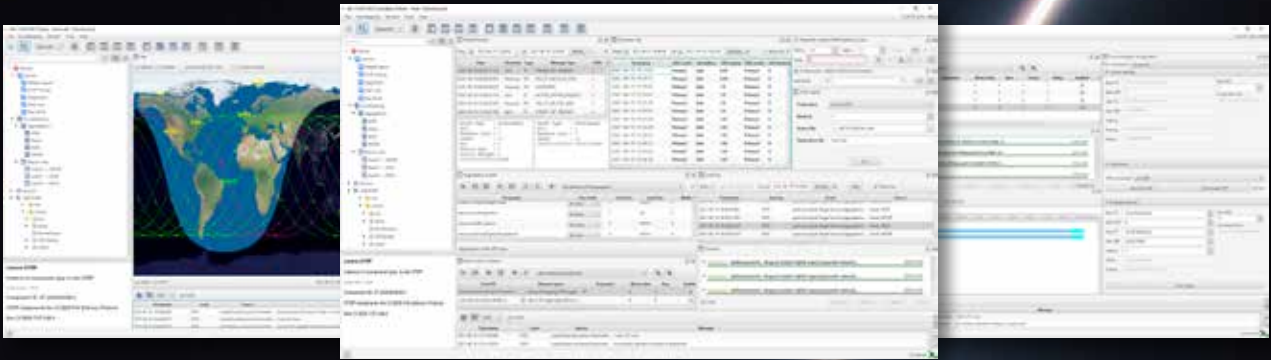
- interactive and pre-defined parameter monitoring
- clear, configurable, task-oriented displays: single, table and line graph
- live and historic multiple data source views, including calibrations and limit checking
- combined graphical view showing parameter changes alongside commanding and other system events
- semantically-rich modular database for archive storing



2. mission control

The graphical environment of the MCS integrates commanding with monitoring and other tasks, which provides a clear and more efficient view of operations. And its powerful scripting means that complex tasks can be achieved quickly and effortlessly.

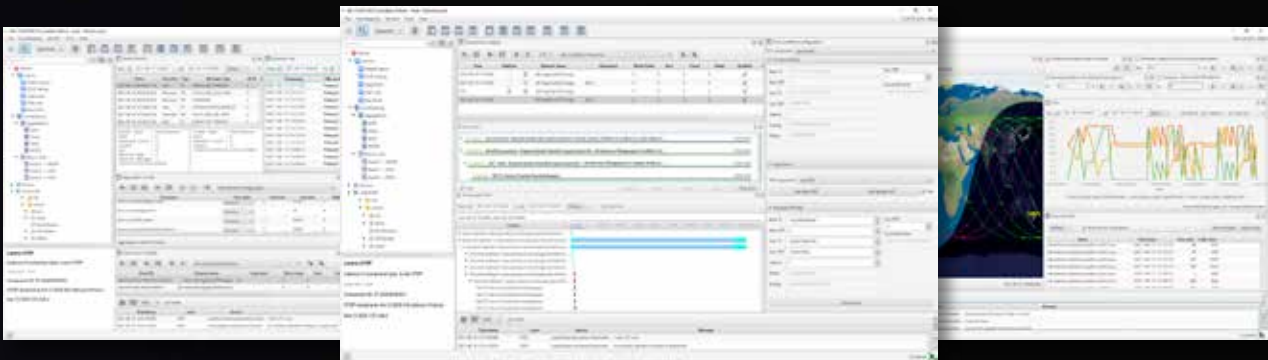
- interactive and delayed commanding
- powerful command sequence scripting
- file and bulk data transfer, progress and status reporting
- manual and automated transfer pause and resume



3. mission automation

The MSC provides extensive scheduling and automation features, such as automated pass management including downlink/uplink handling. This allows to enable efficient unattended operations to improve reliability of the mission and maximise uptime.

- unattended operations, including parameter, command and transfer handling
- automation schedule generation, inspection and control
- monitoring checks and alarms to drive MCS automation
- alarm and event handling for operator notification



4. tight integration with flight software

To get the maximum value for your mission, we recommend that you use both our space- and ground-based systems to ensure easy and seamless integration.

Our Flight Software Development Kit and Mission Control Software products are based on the same underlying GenerationOne technology. It provides a machine-readable description of the system architecture, which is understandable by both the space and the ground sides.

This approach offers significant and unparalleled improvements in efficiency, automation and cost reduction. This means that there is little or no ongoing maintenance required for the missions, which use both our flight and ground software products.

LICENSING AND SUPPORT.



We offer different license types across all our major products to address different market segments, from large companies or those offering services within the industry to small and medium-size commercial organisations and institutions. We also support academic licenses for universities, schools and early-stage start-ups.

Each licence includes a full year of support and maintenance as well as training to get you started. Extended support options, including additional training, are also available.



TRUSTED AND FLIGHT-PROVEN TECHNOLOGY.



Over the past decade we have been directly involved in a wide range of satellite projects, including technology demonstrators, commercial and science missions, spanning both flight and ground segments. We have built up significant and relevant experience, which has allowed us to mature and perfect our software products.

Today, 24 missions have been launched with Bright Ascension's software on board. With many more projects currently in development, this number is constantly growing.



FREE TRIAL.

Still unsure if our MCS is the right software for your mission?
Contact us today for an interactive **demo** or a free **trial**.

enquiries@brightascension.com
+44 (0) 1382 602041

brightascension.com



MCS_SB_23-JUN-21_v1