bright ascension

MISSION READY SOFTWARE.

overview

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At Bright Ascension, we understand the challenges of developing, managing and operating a highly complex space-based service delivery system.

Over the past decade we have built and refined a suite of software products, based on our industry-leading GenerationOne model-based platform, to help make satellite mission development and operation fast, cost-effective and straightforward.

With significant improvements in efficiency, lower service delivery costs and increased capabilities, our software platform allows you to launch quicker, reduce your risks, automate your processes and get the maximum value from available resources.

OUR SOLUTIONS.

Whatever your space project, we know the challenges that you are facing and we can help you find solutions, whether you are building a single satellite, a large constellation or a complex space system.

Building a unique satellite?

Our space flight software can help you quickly build a satellite on a budget that will actually work and ensure that your mission is a success. Use our pre-verified component library to cover basic flight software functionality and concentrate your efforts on the unique parts of the mission.

Developing space missions?

In order to get the most value from your missions - whether it is a single nano-satellite or a large space system - use our flight and ground software products to simplify and streamline your development, integration and test phase, and automate your operations.

Delivering data or services from space?

When success revolves around your bottom line, we know how to help you design and manage low-cost heterogeneous constellations to get the most value from the limited resources.

Involved in an academic project?

We want to help you concentrate your efforts on your mission design, deployment and operation. Focus on space engineering and leave software engineering to us.

OUR PRODUCTS.

Built on the model-based GenerationOne technology, our unique off-the shelf software products offer a host of benefits for the delivery of space-based services, both on spacecraft and on the ground.

Flight Software Development Kit.

Flight Software Development Kit is a unique and innovative development environment, designed to create mission-specific flight software using configurable and pre-validated components.

Whilst every mission is different, most spacecraft perform a number of similar tasks. Our library of pre-validated components allows you to quickly cover basic flight software functionality, so you can concentrate your efforts on the unique parts of the mission. This means you can develop your spacecraft flight software faster, cheaper, more efficiently and with greater reliability – whether it's a single nano-satellite or a large constellation.

Mission control software.

Mission Control Software provides easy-to-use monitoring and control of onboard changes during development and flight. Harnessing the power of automation, it significantly improves the efficiency and scalability of the mission.

Mission Control Software expands upon our rich underlying component-based GenerationOne technology, which provides a machine-readable description of the system architecture for both the space side and the ground side. This unified approach offers significant and unparalleled improvements in efficiency, automation and cost reduction.

OUR SERVICES.

To complement our products, we offer a wide range of services which harness our core GenerationOne technology.

complete turnkey solutions.

Working with spacecraft owners, developers and integrators, we develop complete end-to-end space mission solutions. We use our own Flight Software Development Kit and Mission Control Software to create state-of-the-art software packages for a wide range of satellites.
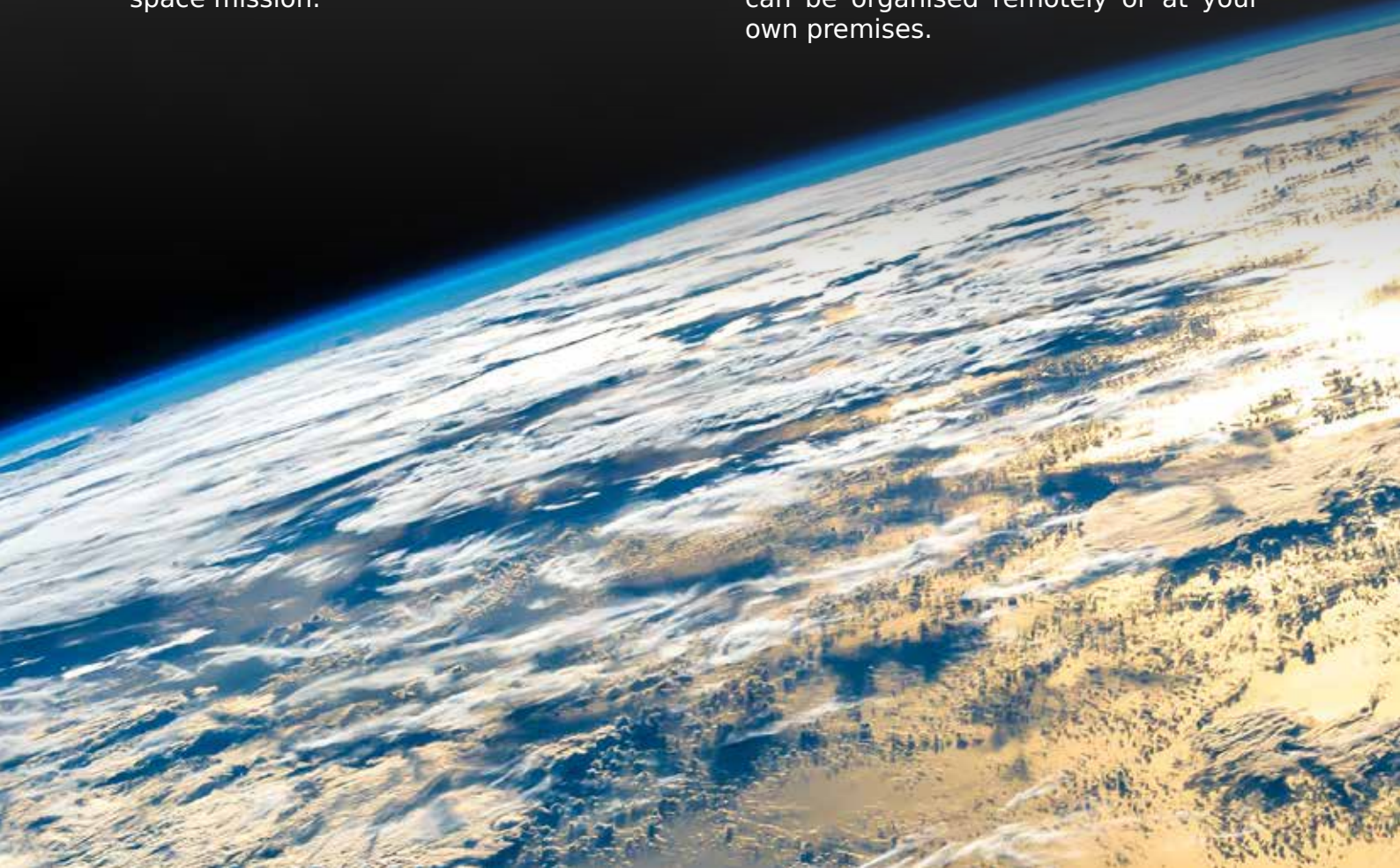
bespoke component development.

To complement our off-the-shelf offerings, our expert software engineers can help you design and develop individual bespoke components of both flight and ground software for your own space mission.

mentoring and best practices.

We can support competence and capability building within your development teams where there is a need for greater expertise. Our space software engineers can provide mentoring services both remotely and on site, over short or longer terms.

in-depth training sessions.

In addition to the initial training, which is included in all our license plans, we can also provide more in-depth sessions, design guidance and best practice advice and expertise. Training can be organised remotely or at your own premises.

TRUSTED AND
FLIGHT-PROVEN TECHNOLOGY.

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

Today, Bright Ascension's software is used for more than twenty missions and customers across the world. Some of our clients include: AAC Clyde Space, In-Space Missions, Kepler Communications, Fleet Communications and many more.

FREE TRIAL.

The quickest and the best way to learn more about our software products and solutions is to schedule a demo or a free trial. Contact us today.

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

brightascension.com