


DATA SHEET

Customizable Mission Environment	Highly flexible and configurable allowing for easy customization of the product to the mission.																																
Soft Planning Policy	Soft-customisable algorithms based on rule files for planning generation, conflict detection and resolution. Optimization component for complex planning problems																																
Web-Based Frontend	Intuitive User Interface with customizable components for specific mission needs.																																
Deployment	On premise, cloud or SaaS .																																
World Map Visualization	World map with 3D display to allow users to select areas of interest and automatically generate corresponding image acquisition requests																																
Schedule Generation Rate	Configurable and Automatable																																
Customers	Missions																																
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Other **GMV** products for satellite operations:



Hifly® Flyplan FocusSuite®
Prodigi Smart Magnet

Flexplan

A product by:



Product info at:
<https://flexplan.gmv.com>



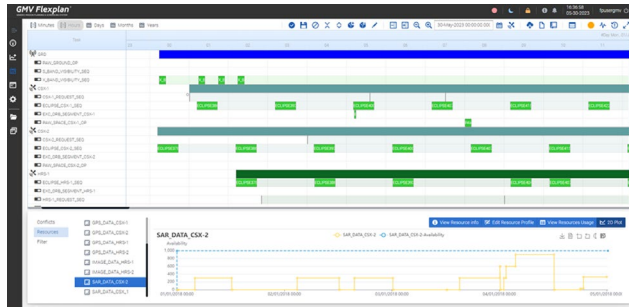
Flexplan

Complete Solution for a Generic Mission Planning and Scheduling System



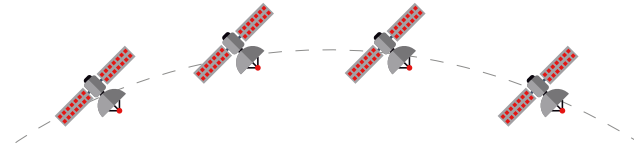
What is Flexplan?

Flexplan is a highly configurable and innovative Commercial Off-The-Shelf (COTS) Mission Planning and Scheduling (MPS) system.



Flexplan provides:

- **End-to-end mission planning and scheduling support** for any mission type, for example Earth Observation, Telecommunication, Lunar, Interplanetary and debris removal missions.
- **Multi-mission** capabilities to allow planning for a single satellite up to a large fleet or multi-mission simultaneously.
- **Multi-user** capabilities based on user-based privileges to allow access by different mission users concurrently.
- **Configurable External Interfaces** to provide flexible, well-documented interface between
- **Powerful Rules Engine** for soft algorithm generation to allow user-defined planning rules, conflict rules and resolution rules.
- **Manual and automatic generation** of schedules, including unmanned conflicts detection and resolution.



Modular Architecture

Flexplan's architecture is highly modular, allowing a wide variety deployment formats to provide the most optimal solution that enhances the scheduling experience and fits best the mission needs.

Additional schedule modules include:

- Schedule Execution Monitor.
- World Map Visualization: 2D and 3D plan visualisation.
- Tailored Events Generation.
- Optimization component for advanced planning algorithm definition.
- RQT: Report and Query Tool.

Ground Station Negotiation Manager

Flexplan's Ground Station Negotiation Manager (GSMN) is capable of interfacing directly with ground station providers to allow operators to manage pass bookings directly within the system, making the process simple and efficient.

Flexplan includes interfaces with the ATLAS, KSAT, SSC and Viasat ground station providers, with more to be included.

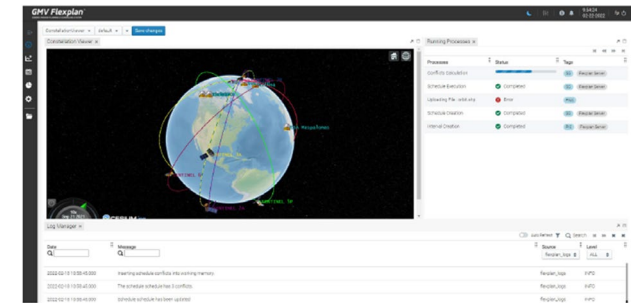
Optimization

For advanced planning problems, a dedicated optimization component is now available in **Flexplan**. Mission performance criteria can be optimized by maximizing both hard and soft constraint scores that the user is able to configure, without recompiling the system.



Flexplan Web

Flexplan includes a web-based front end and a deployment using containerization technology.



This latest version offers the following advantages:

- Rapid deployment of system and easy maintenance.
- No dependency on a specific Operative System in the machine to operate the system.
- Remote access from anywhere. It's possible for operators to access the system remotely to enable collaboration between global teams and working from home.
- The web-interface is highly configurable, widgets can be customized according to a user's needs and interests.
- New features can be added with ease by taking advantage of cutting-edge web-technologies.
- Deployment using containers enabling cloud deployment.