
gs4EO
Complete Suite of
Ground Segment Products
Developed after more than two decades of
work for ESA Earth Observation Missions
State-of-the-art
Flexible. Escalable.
User Friendly.
Proven operationally on
multiple EO missions
Designed for maximizing
spacecraft return
Minimum operational
costs thanks to
advanced automation
Core of Deimos Ground Segment Solutions
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Deimos Space ground segment systems are built using a combination of gs4EO **products** working in a coherent and synchronized way, although all of them can also be used as **independent systems.**

control4EO
mission control system

archive4EO
archive & catalogue

plan4EO
mission planning

chain4EO
processing orchestration

fly4EO
flight dynamics

process4EO
image data processing

track4EO
ground station control

calval4EO
calibration & validation

contact4EO
ground stations scheduling

monitor4EO
monitoring & control

auto4EO
operations automation

user4EO
user services

identity4EO
authentication & authorisation

These products are already **being used in multiple Earth Observation Missions**, within complete GS setups, like **DEIMOS-1, DEIMOS-2, SAT4EO** or **NAOS**, or as standalone subsystems, as plan4EO, used by **Sentinel-2**, **AEOLUS** and **BIOMASS**, archive4EO, used in **PAZ, SEOSAT, CHEOPS** and **AWS,** fly4EO, used in **Amazônia-1, ...**

All of them are the basis for gs4EO, your Ground Segment solution from DEIMOS

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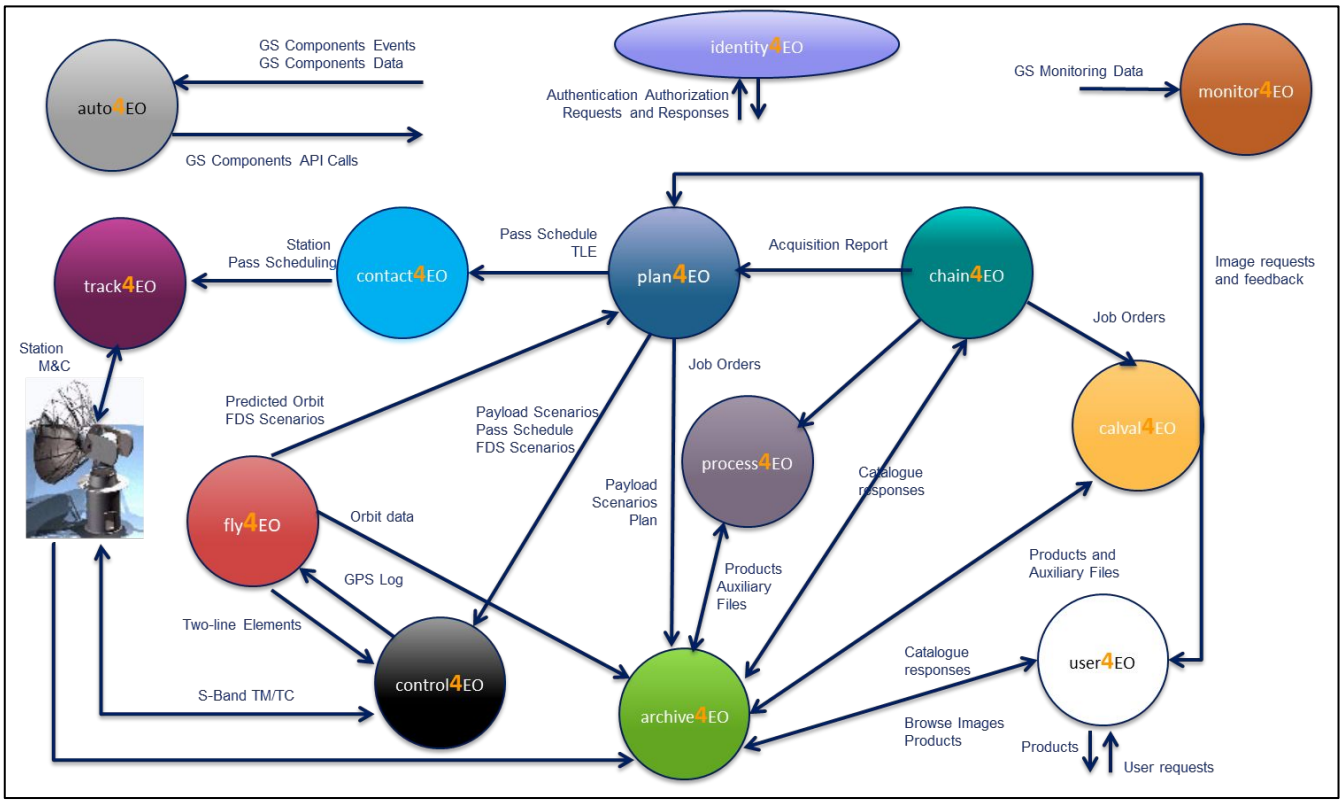
Thanks to its **modular design**, the gs4EO suite of products can be used to **customize any ground segment according to each customer's requirements**.

The various individual products can be assembled in different ways to implement **different deployment configurations**, from a complete Ground Segment to a Direct Receiving Station or just a single subsystem supporting a specific mission need. This modularity and interoperability also provides extraordinary flexibility in order to accommodate **more than one Earth Observation mission** in the ground segment, with different levels of integration that can be offered.



The figure above outlines the most typical GS set-up using all gs4EO elements, providing full ground segment capabilities required by any EO mission. With this solution, customers would mainly access the S/C resources via the User Services, and all tasking, data downlink and processing would be performed autonomously by the remaining elements, ensuring complete user feedback throughout every step.

Each application communicates with the remaining Ground Segment through well defined interfaces, following open standards, easing its integration with other external solutions. All applications are controlled by means of **advanced user interfaces**, mainly web-based, that enable **remote operation** capabilities.

Moreover, all gs4EO components have **multi-mission capabilities** that allow their integration within the GS of third party missions. The archive component allows the storage of data from different satellites and follows well adopted standards to facilitate the integration process.

gs4EO solutions are cloud friendly allowing a variety of deployments, from customer's private infrastructure, to hybrid solutions or fully cloud based.

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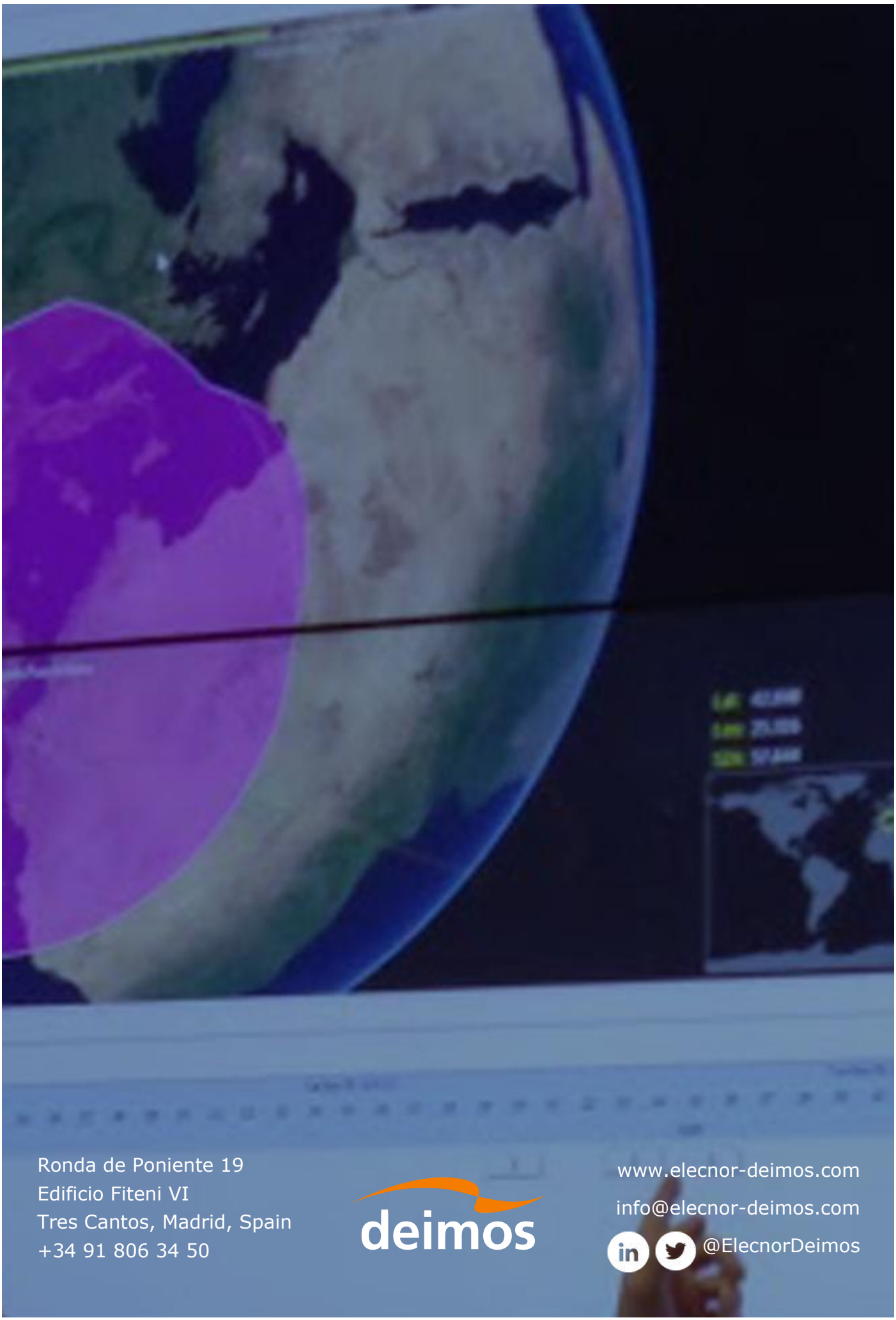

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