PROCESSING SERVICE EO

Successful ground-segment operations in tomorrow's EO missions

werum SOFTWARE & SYSTEMS

About Werum

With a workforce of over 140, Werum Software & Systems AG is one of the largest independent employers for IT professionals in Germany. For more than 55 years, we have been implementing sophisticated software and systems for customers all over the world, among them many renowned companies from the automotive and aerospace industry as well as scientific institutions and public authorities.

Our activities focus on the support of customer-specific processes in the core areas of test data and information management, Earth Observation, eGovernment and enterprise information management. The software solutions are based on platforms specially developed for these areas.

In the field of Earth Observation, Werum provides solutions for the **data processing, archiving and dissemination** of, among others, **Copernicus Sentinel** satellites and **ESA Earth Explorer** missions like SWARM, EarthCARE, Biomass or FLEX.

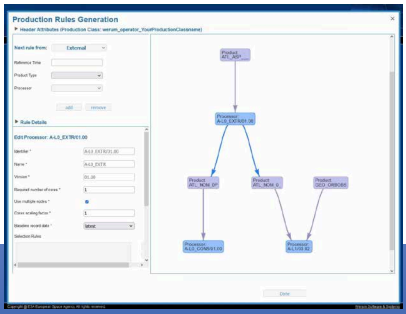
Ground-segment operations in EO missions

A wide range of Payload Data Ground Segment (PDGS), post-processing and dissemination service software **is developed by Werum** and in operational use for a number of current EO missions and services in the Copernicus and ESA programmes.

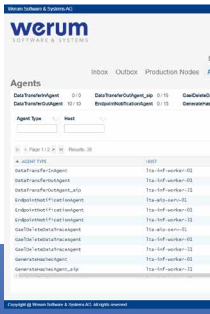
The software is **refactured and optimised successively** to the operator needs and to required technologies of the next-generation processing environments.

User interfaces to Werum's orchestration library

Workflow Builder



Resource Allocation



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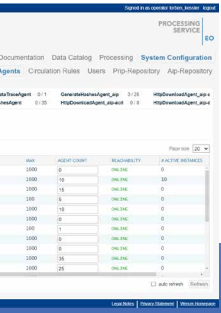
Independent framework for scalability and configurability

The independent framework for operations' services allows for **scalability** under increasing data load, **configurability** for new technologies and for demands in **public-cloud applications** and of mission-specific workflows:

- Independent, managed orchestration in Kubernetes environments
- Telemetry and Telecommand Management
- Extensive Monitoring Dashboards incl. KPIs
- User Identity and Access Management
- Integrated, multi-format interfaces for data selection, usage and processing
- Powerful Workflow Management
- Secure and consistent archiving



Performance Monitor

Current use cases and references

- Long-Term Archive Service
- Sentinel-1C Production Service
- Flight-Operations Archive Dataspace

- DevSecOps Processing Facility

- Core Processing Facility
- Processing Testbed

- Core Processing Facility
- Higher Processing Facility

- Core Processing Facility
- Systematic Processing Operations

- Generic Processing Orchestration System (GPOS)

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