

Augmenting EGI Monitoring based on the ARGO Monitoring framework with functionalities such as Service Trends and Status pages.

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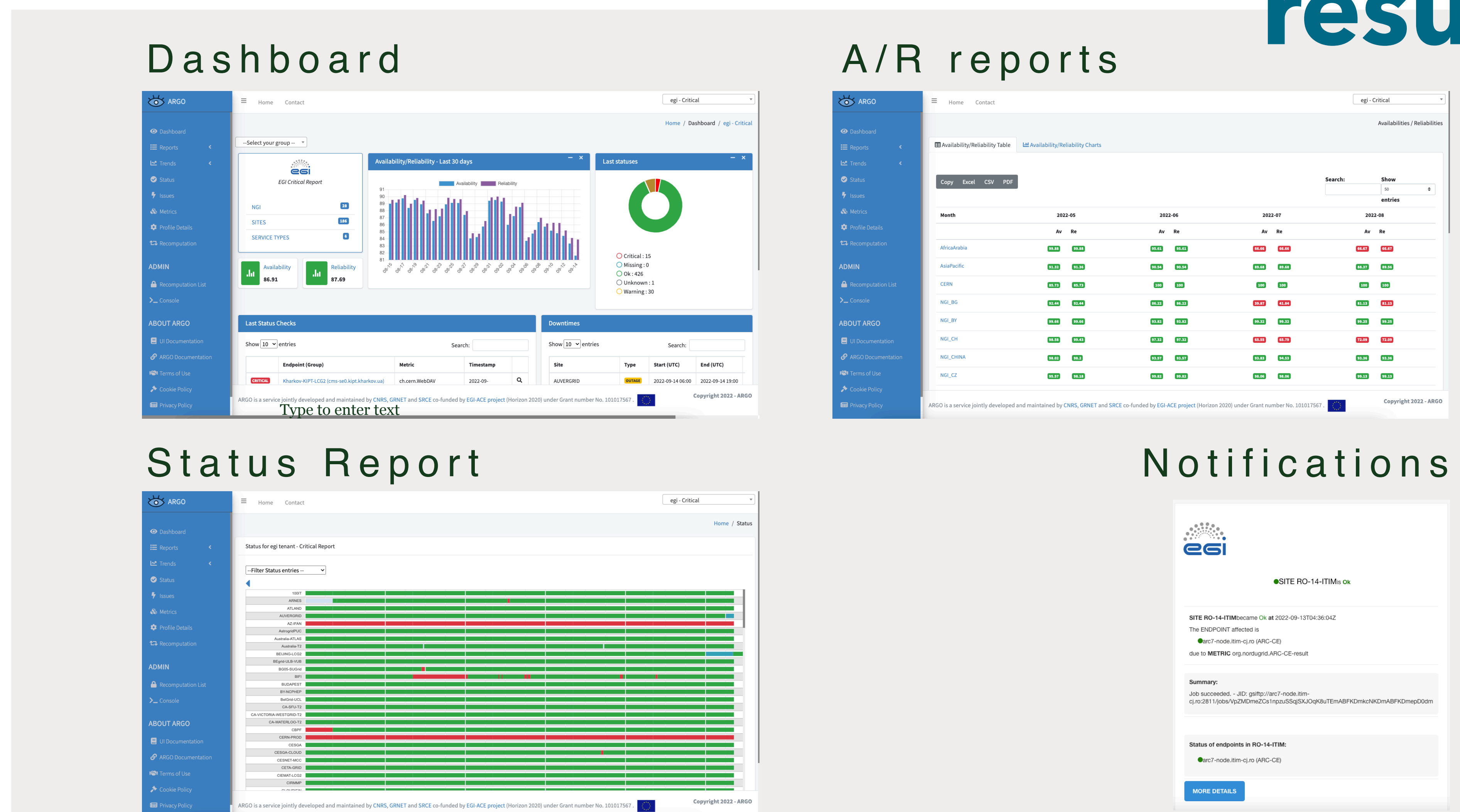
facts

> 186 sites monitored
> 6000 metrics running

28 NGIs
multiple communities

Reports A/R Status
multiple SLA reports

results

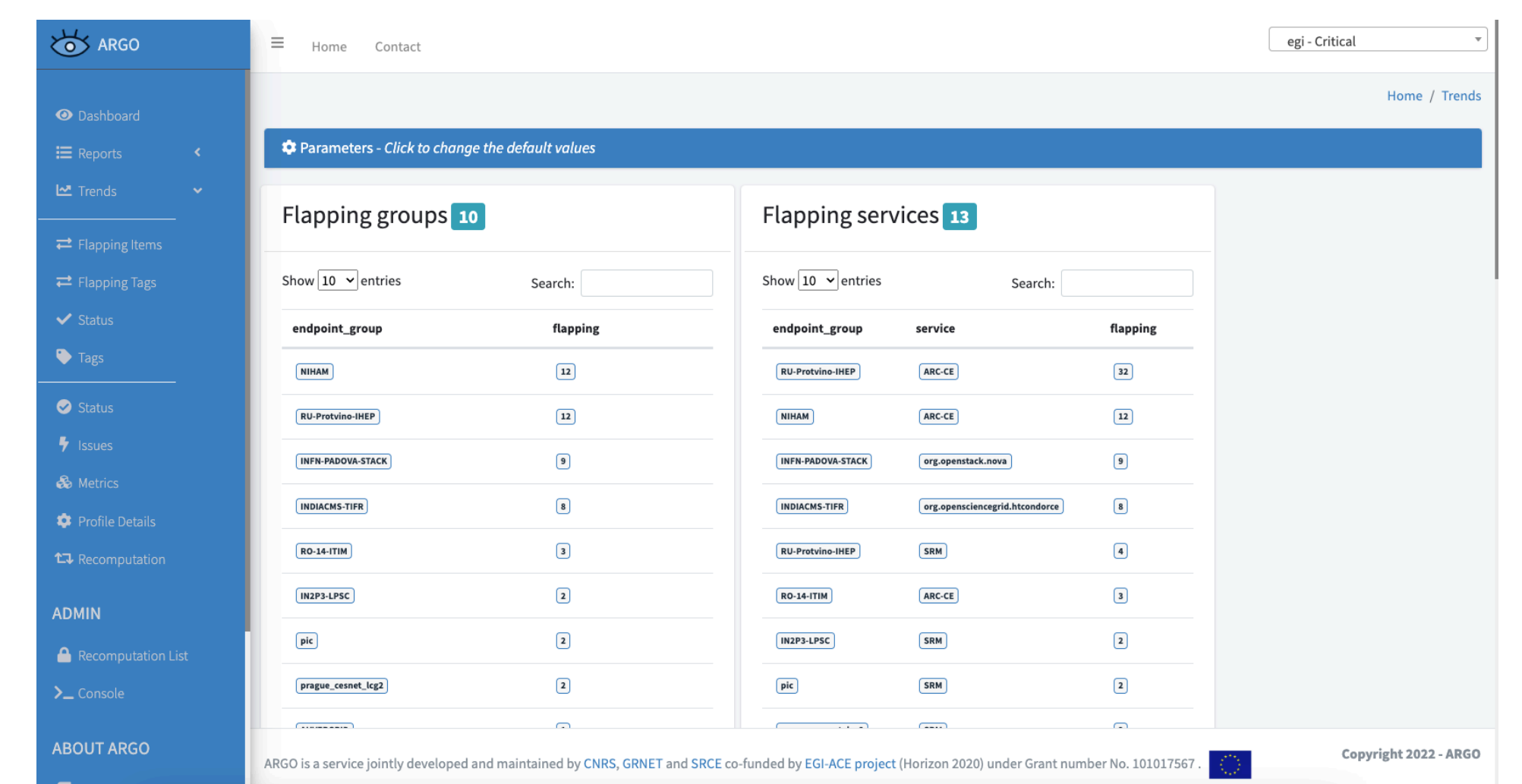


EGI Monitoring is the key service needed to gain insights into the Services that are part of the EGI Infrastructure. It is based on **ARGO Monitoring Service** that provides a flexible and scalable framework for monitoring **status**, **availability** and **reliability** of a wide range of services and is able to quickly detect, correlate, and analyze data for the detection of errors. Service Providers are able to make use of the EGI Monitoring Service via various sources of truth so that they are able to get notifications when a problem occurs or ARGO reports to advertise with confidence the stability and reliability of their services. Similarly, Researchers or Research communities are able to gain insights into the Services they want to use.

- A&R Reports
- Status Pages
- Flapping Trends
- Notifications

Service Trends & Status Pages

Two new functionalities will enable gaining even better insights into Services: **Service Trends** and **Status Pages**. Via the constant monitoring of the services, we have the ability to analyse service trends and provide insights such as lists of top services with Critical, Warning or Unknown status or top services with authentication problems. Whether it's a server issue or a bug in production, the simple truth is that a problem occurs. The main idea of Status Pages is to build communities' trust and inform in real time about the status of the services in one simple view.



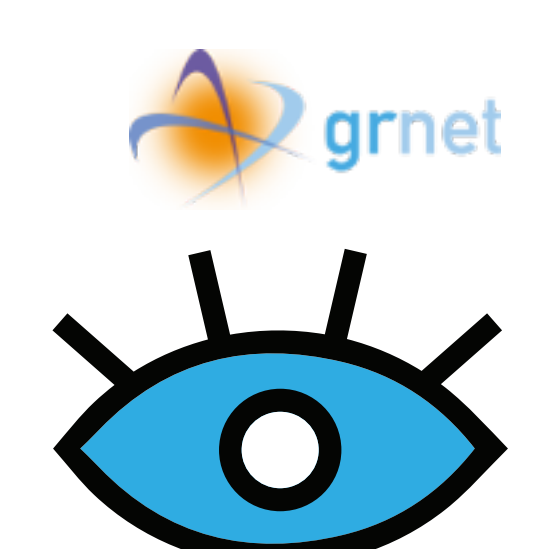
ARGO components

- Central Registry**
A central registry to record information about the topology of SDC Infrastructure.
- Metrics Management**
Collect and organise metrics. It instructs monitoring instances on what kind of tests to execute for a given service.
- Monitoring Engine**
Executes the service checks against the infrastructure and delivers the metric data to ARGO Messaging Service

- ARGO Messaging Service**
A Publish/Subscribe Service used by internal components and other systems to exchange messages via Topics/Subscriptions.
- Connectors**
A bundle of connectors/sync components for various established data source.
- Compute Engine**
Computes availability and reliability of services and near-real-time status events
- Notifications**
Real-time status events are the basis of alerts. It sends alerts (through email, SMS etc.) by connecting to external sources to get info about the owner(s) of services and endpoints.

ARGO is a framework for Service Level Monitoring designed for medium and large-sized e-Infrastructures, Research Infrastructures and Thematic Services. It supports:

- **Status**, **availability** and **reliability** of services
- **multiple reports** using **customer-defined profiles**



<https://argo.eu.github.io>