

# EGI-Engage JRA1.4

## ARGO Monitoring & Messaging

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[www.egi.eu](http://www.egi.eu)

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## ARGO Compute Engine & Web API

- API for data ingestion (draft spec / pre-alpha implementation) **DONE**
- Support for multiple monitoring engine in active-active setup **DONE**
- *Stability and performance improvements* **DONE**

## ARGO Monitoring Engine

- fedcloud probes update (OCCI, CA) **DONE**
- Completion of the Central Monitoring Service **DONE**
- Migration of Midmon probes to the new Central Monitoring Service **DONE**
- *Stability and performance improvements* **DONE**

## ARGO EGI Web UI

- ELIXIR Custom Results **DONE**
- *UI Enhancements* **DONE**
- Connect to the EGI IdP/SP Proxy **IN PROGRESS**

## ARGO EGI Connectors & Consumer

- Use of the CE ingestion API by the Consumer **DONE**
- Use of the CE ingestion API by the Connectors **IN PROGRESS**
- *Stability and performance improvements* **DONE**

## ARGO POEM

- Implementation of probe publishing and management service **IN PROGRESS (early release November)**
- Connect to the EGI IdP/SP Proxy **IN PROGRESS**
- *Stability and performance improvements*

## Messaging

- API v1 final draft specification **DONE**
- APIv1 beta implementation **DONE**



- **ARGO service types added to GOCDB**
- **ARGO probes provided**
  - Web UI
  - API
  - POEM
- **Internal fabric monitoring improvements**
  - Monitoring resources on all ARGO/MSG components

# Points from the last OTAG

- **Upcoming ARGO developments**
- **New requirements expressed by NGI-RO**
- **Proposal to use GOCDB as the single source for topology information**
- **Positive feedback from the NGIs**



# ARGO Service Monitoring

## New developments

- **Service for managing probes**

- Extension of the POEM service
- Authorized users will be able to upload and manage monitoring probes from a web based services
- Faster management/deployment of new probes
- Versioning
- Built-in testing environment before a new probe goes to production
- Design document: <https://goo.gl/P7h7qt>
- Pre-release: 2016 Q3 November / First release: 2016Q4



# ARGO Service Monitoring

## New developments

- **Real-time status results**
  - Introduction of a Streaming Layer in the ARGO Compute Engine
  - Status results are going to be processed and published as they arrive
  - Ability to create composable computation pipelines
  - Pre-release: 2016 Q3 November / First release: 2016Q4



# ARGO Service Monitoring

## New developments

- **Overhaul of the notification system**
  - Utilize the new streaming layer to move notifications from the Monitoring Engines to the Compute Engine
  - Pre-release: 2016Q4 / First-release: 2017Q1



# ARGO Service Monitoring

## New requirements

- **NGI-RO submitted several new requirements for the UI/UX**
  - “It would be useful to be identified by certificate, and based on GOC roles to get directly to the info for your site or NGI”
  - “Time frames. It would be very useful to select a custom time range, and some predefined ranges: last day, last 3 days, last week, last month, last year, etc”
  - “It takes too many clicks to identify a problem”
  - “a search\_box would be useful to find info/problems for a site or host”
- **EGI RT is going to add new functionality for submitting requirements**





# ARGO Proposal to use GOCDDB as the only source for topology

- **ARGO topology sources**

- GOCDDB: NGIs, sites, services, contacts, operators
- BDII: service URLs, service attributes

- **Drawbacks:**

- Complexity – error tracking more difficult
- BDII is information system & unavailable services might be missing
- Missing uncertified sites and services



# ARGO Proposal to use GOCDB as the only source for topology

- **Use GOCDB as the single topology source**
- **Advantages:**
  - Simplicity – easier error tracking
  - Support for monitoring un-certified sites and services
  - Better control over monitoring for NGI & sites
  - Easier probe development



# ARGO Proposal to use GOCDDB as the only source for topology

- **NGI & sites add service endpoints to services**
  - No limit on number of endpoints
- **Service endpoints**
  - Attribute Monitored for flagging endpoints for monitoring
  - Service URL
    - CREAM-CE: GlueCEUniqueID from BDII  
(e.g. cream.egi.eu:8443/cream-pbs-ops)
    - SRM: GlueServiceEndpoint from BDII  
(e.g. httpg://se.egi.eu:8444/srm/managerv2)
    - Other services: GlueServiceEndpoint from BDII



# ARGO Proposal to use GOCDB as the only source for topology

- **Extension properties**
  - Could be used for additional info
  - In the beginning no properties are required
- **Interim period**
  - ARGO will rely on both GOCDB and BDII
  - Un-certified sites and services must use GOCDB
- **EGI Operations will perform survey on proposed approach**
- **If survey is positive – remove BDII as topology source**



# Thank you for your attention.

*Questions?*



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