

ARGO/SAM in EGI-ENGAGE

By the end of EGI-InSPIRE

P1: ARGO (EGI-TSA4.10)

- Remove Oracle dependency
- Service, site NGI A/R + VO A/R
- Availability Profiles
- Custom factors
- Recomputation management
- Decouple WebAPI from WebUI

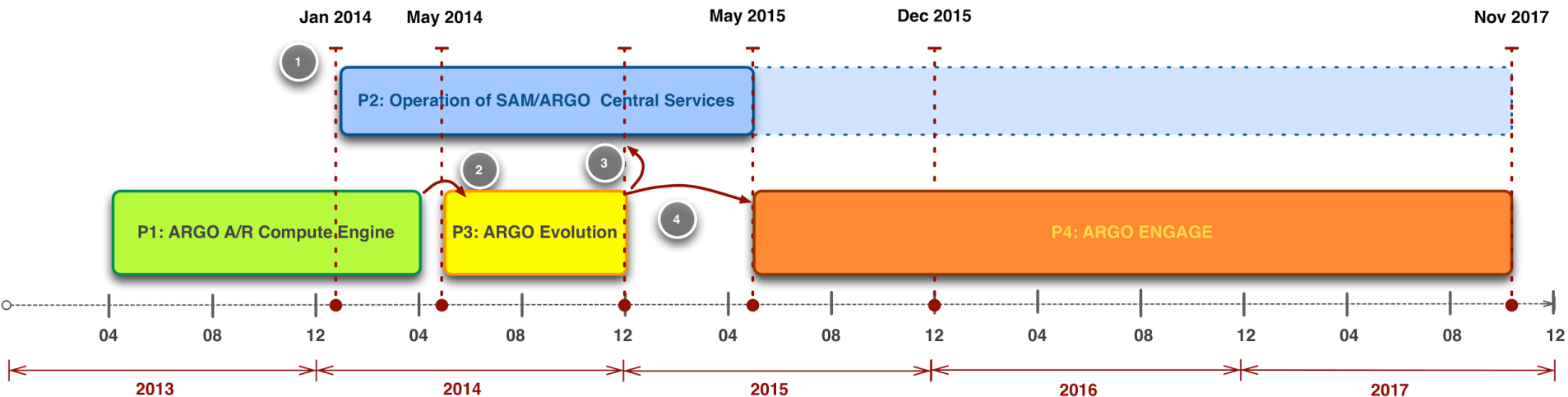
P2: SAM Ops (EGI Core)

- SAM Central Services migration
- Operation of Central Services
- GGUS SU (combined 2nd & 3rd level)
- Maintenance
 - Bug fixing
 - Probes for SAM central
 - Integration of new probes
 - Coordination
- Migration to ARGO

P3: ARGO Dev (EGI-TJRA2.1)

- Add status results
- Enhance metric store
- Enhance factor support
- Nagios Regional:
 - Remove MyEGI
 - Remove MRS
 - New ATP component
 - Modify POEM
 - Refactor MyEGI API?
 - Migrate to RHEL 6
- Gridmon
 - Refactor MyEGI API
 - Migrate to RHEL 6

Overview of the ARGO/SAM activities



1. Probably we will have to start the project before EGI-InSPIRE ends as after April, CERN will not have any effort for assisting with the migration.

2. There is a one month gap, between the end of P1 and the start of P3

3. The migration in the 2nd year of P2 has been scheduled to coincide with the end of P3.

4. Estimated gap of 4 months between the end of P3 and the start of P4

ARGO/SAM in ENGAGE

- Monitoring Service Levels is a key activity in the implementation of Service Level Management (SLM)
- Main theme:
 - Lighten and modularize the Core Monitoring Engine
 - Provide clean interfaces for end users, operations and developers
 - Monitoring A/R as a Cloud Service (e.g. through the EGI Market Place)

ENGAGE: Monitoring as a Service

- Investigation and identification of monitoring mechanisms on SaaS, IaaS and PaaS.
- Provide composite integrated monitoring services to the users, resource providers and other stakeholders of EGI Federated Cloud Service.
- Identify and enrich monitoring of standard metrics of the cloud services. Provide an open platform for providers to develop and use their own set of probes.

ENGAGE: Monitoring as a Service

- Definition of new business models and paradigms for re-conceptualizing Service Level Agreements (SLAs).
- Development of custom Availability Profiles for IaaS, PaaS and SaaS types of Clouds
- Development of a service status component similar to what users are accustomed to by commercial providers such as Amazon AWS etc

Monitoring Engine

- Modularize ARGO core
- evolution of ARGO core beyond Nagios
- Develop and maintain probes for monitoring cloud resources
- improvements in test/probe management enabling easier deployment/upgrades of new probes

Monitoring Engine

- Support multiple authentication methods
- improvements in communication protocols between different ARGO components
- extending monitoring capabilities as needed by the new cloud resources and other operational tools

A/R Engine

- Real time computations and results provisioning
- Definition of custom low level profiles and Availability Profiles based on the FedCloud requirements for SaaS, PaaS and IaaS.

Web Interface

- Enable Federated Access via eduGAIN
- Provide Control Panel for managing all configuration aspects
- Improvements to the visualization layer
- Support for real time results