

SAM/ARGO Status update & PY5 Roadmap

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Overview of the SAM/ARGO activities



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

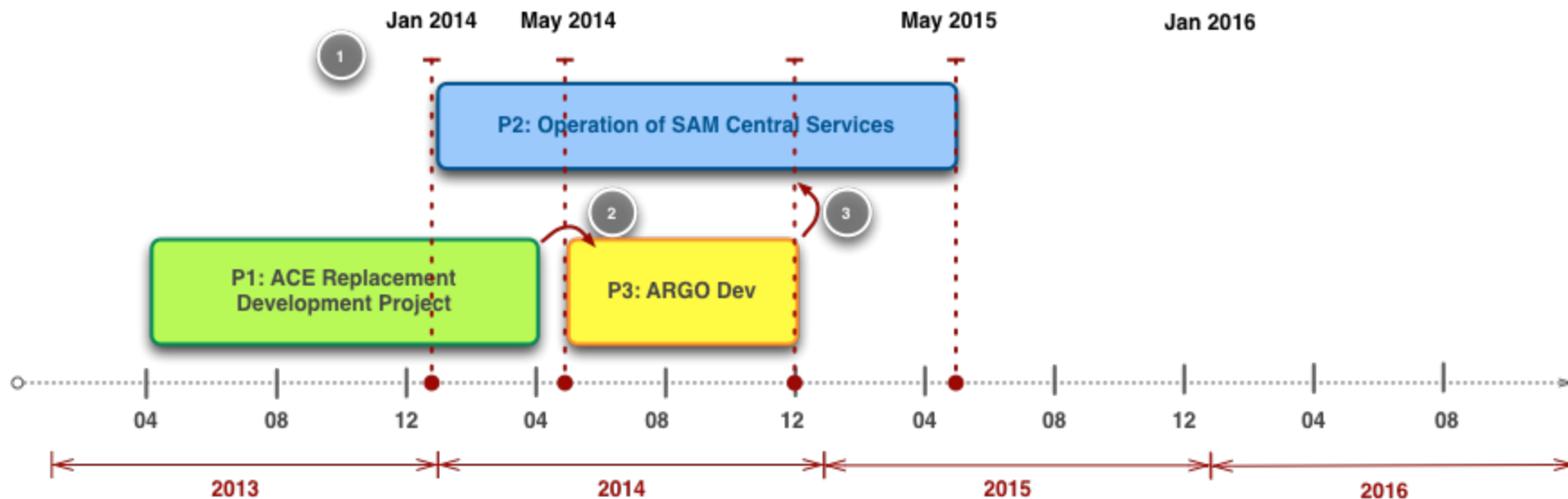
P2: SAM Ops (EGI Core)

- 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 SAM/ARGO 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.

The mini project (EGI-TSA4.10)

- Consortium: GRNET, CNRS, SRCE
- Goals:
 - A replacement for the ACE computation engine based on open source component
 - Provide service, site, NGI and VO A/R results
 - Support of multiple Availability Profiles
 - Support of Custom Factors
 - Builtin support for Recomputations
 - Decouple Web API from Web UI

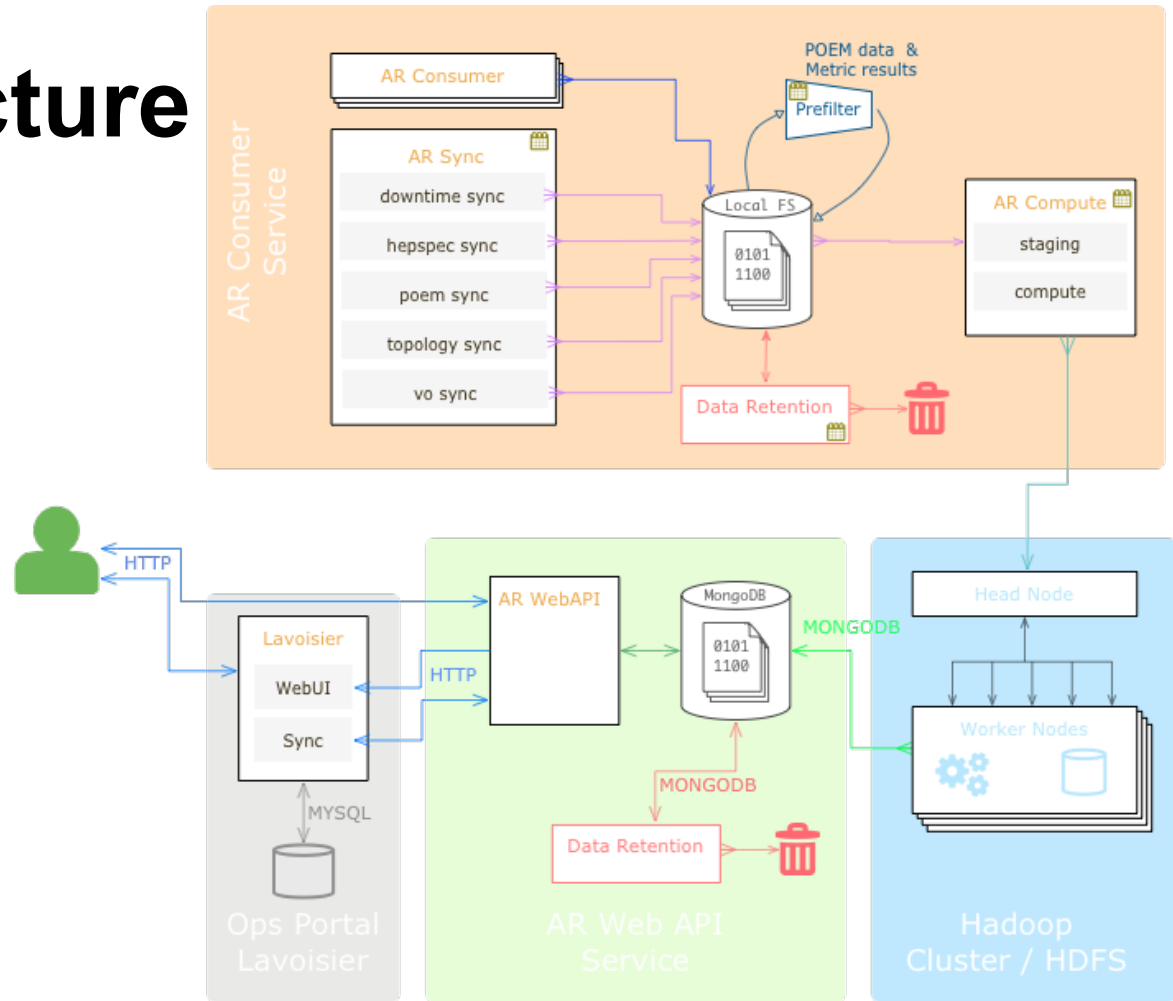
ARGO

- Open source implementation
- Compute and storage engine based on Hadoop and HDFS
- Can run in cluster mode and in standalone mode

ARGO: Improvements

- Supports multiple Availability Profiles
- Provides an engine for scalable computations
- Tracks topology information
- Supports custom factors
- Supports recomputations
- All the functionality exposed through an API

Architecture



EGI-TJRA2.1

Evolution of the ARGO platform:

- Add status results & enhance metric store
- Enhance custom factors support
- Enhance the UI component of the OPS portal
- Nagios Regional:
 - Remove MyEGI & MRS
 - New ATP component
 - Modify POEM
 - Refactor MyEGI API
 - Migrate to RHEL 6
- Gridmon
 - Refactor MyEGI API
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Duration: 8 Months (May - December 2014)

Partner	PM
GRNET	3.5
CNRS	3.5
SRCE	3.0

