



*Polish Infrastructure
for Supporting Computational Science
in the European Research Space*

Polish NGI (PL-Grid) requirements to integrated information system

Intro: NGI_PL specifics

- ◆ NGI_PL runs 3 middleware stacks
 - ◆ gLite
 - ◆ UNICORE
 - ◆ QosCosGrid (developed within PL-Grid)
- ◆ All site resources constitute a single pool accessible to **all** middlewares
- ◆ Each middleware uses its own solution for informational purposes

Requirements from NGI_PL operations

- ◆ Need
 - ◆ get information about all resources accessible for users at a site
- ◆ Purpose
 - ◆ information for trends observation etc.
 - ◆ resource allocation – resource limits at a site
- ◆ Background & Notes
 - ◆ In NGI_PL each middleware publishes resources independently but they use **the same** pool
 - ◆ Integrated Info System should distinguish the same resources published by different middlewares to avoid double counting
 - ◆ Compute: each middleware reports the same numbers for compute resources in NGI_PL (the same pool), but in general we can not assume the same number means the same resources
 - ◆ Storage: UNICORE use different services than gLite. Solution in NGI_PL: client capable of asking gLite and UNICORE info system

Requirements from NGI_PL operations

- ◆ Need
 - ◆ contact address per service (not per site)
- ◆ Background
 - ◆ In NGI_PL we assign all middlewares to a single site, but there are cases that different teams deal with UNICORE and gLite. Currently they have to share common e-mail address which is impractical.
- ◆ Purpose
 - ◆ to assign issues with the service directly to responsible team, avoid flooding the other team with not related e-mails, avoid error-prone e-mail routing mechanisms at site

Requirements from NGI_PL security

- ◆ Info system is not a critical dependence for NGI_PL security team
 - ◆ Torque server version was taken from top BDII
 - ◆ Primary tool: pakiti
 - ◆ Personal contact with security officers
- ◆ Need to have CSIRT contacts (currently in GOCDB)

General Info System Requirements

- ◆ Need: clarification of relation between Scheduled Downtime and Info System
- ◆ Background: services declared in SD should not be accessible for the users but they should be accessible for monitoring. Currently (to be checked) WMS does not recognize SD flag.

- ◆ Need: procedure for handling test services
- ◆ Background: currently in order to test a service the site admin sets it up and it immediately pop-up in info system. Even if uncertified and in Scheduled Downtime in GOCDDB. If that's CE-type service then users' jobs may end up there through WMS.

- ◆ Need: improvement to site certification
- ◆ Background: site certification process requires separate top-BDII and WMS. It could be done simpler by keeping uncertified sites in the same top-BDII with special flag that is understood by WMS.
- ◆ Need: IS support for computing grants. Related ticket: <https://rt.egi.eu/rt/Ticket/Display.html?id=2983>
- ◆ Background: PL-Grid introduces notion of grants. This information is necessary at brokering stage for selecting the capable site. Right now we use VO_TAGS but grant is not a VO-specific information, it is site-specific.