Middleware User Support in EGI

Aleš Křenek, CESNET

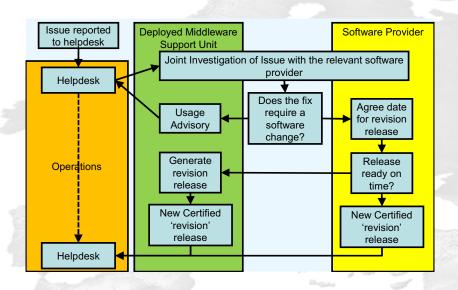
CGI

EGI, and middleware providers

- EGI defines and maintains Unified Middleware Distribution (UMD) – SA2
 - published roadmap with component availability, level and duration of support
 - acceptance of components according to defined criteria
 - negotiation of SLAs
- no effort to develop middleware in EGI
 - collaboration with external middleware providers expected
 - EMI project (being prepared) foreseen to be important one
 - competition possible and welcome
- EGI provides dedicated middleware support SA3



Software issue resolution



Support activities



- 1st line support EGI SA1 Operations
 - run the helpdesk system (GGUS)
 - resolve "read the manual" problems directly
 - identify middleware issues and escalate to 2nd line support

Support activities



- 1st line support EGI SA1 Operations
 - run the helpdesk system (GGUS)
 - resolve "read the manual" problems directly
 - identify middleware issues and escalate to 2nd line support
- 2nd line support EGI SA3 Support of Deployed Middleware
 - experts with deep middleware knowledge
 - distributed, centrally coordinated team, approx. 8 FTE
 - joint work with middleware providers
 - investigate and debug upto source code analysis
 - suggest workarounds and patches

Support activities



- 1st line support EGI SA1 Operations
 - run the helpdesk system (GGUS)
 - resolve "read the manual" problems directly
 - identify middleware issues and escalate to 2nd line support
- 2nd line support EGI SA3 Support of Deployed Middleware
 - experts with deep middleware knowledge
 - distributed, centrally coordinated team, approx. 8 FTE
 - joint work with middleware providers
 - investigate and debug upto source code analysis
 - suggest workarounds and patches
- 3rd line support middleware providers (e.g. EMI SA1)
 - developer teams involved
 - work with EGI SA3
 - evaluate complex implications of suggested patches
 - provide final solution

Software provider SLAs



- agreed on component acceptance for UMD
- individual negotiation
- EGI agrees to
 - communicate issues, environment, etc.
 - involve provider in issue triage
- software provider agrees to
 - provide support contact and/or issue tracker
 - respond to issues in specified time



If anything goes wrong ...

- ...and the provider fails to deliver solution in time
 - EGI SA3 develops a patch
 - the patch is integrated into interim release built by EGI
 - · sites decide to deploy the patch or not
 - higher risk of side-effects
 - still emergency procedure only
 - not enough manpower to maintain patches in EGI

Beyond bugfixing



- some issues can't be addressed as simple fix
 - e.g. increase throughput 10×
- Middleware Coordination Board (MCB)
 - representatives of users, developers, and operations
 - forum to bring up user requirements
 - map user wishes to realistic specifications
- plans reflected in UMD roadmap
 - may be implemented by new provider

Summary



- middleware distribution (UMD) maintained by EGI
- external (wrt. EGI) providers of middleware components
 - 3rd line support ensured by SLA
- dedicated middleware support activity in EGI
- emergency procedure to deliver urgent fix within EGI
 - if provider fails to do so (breaking SLA)