



# Middleware in EGI-InSPIRE

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# MU and MCB

EGI Blueprint mentions:

- Middleware Coordination Board (MCB)
  - representatives of users, operations, and middleware providers
  - advisory body to EGI director (formally)
  - assumed to make most strategic decisions on middleware (in practice)
- Middleware Unit (MU)
  - part of EGI.eu, fulfilling the central middleware tasks
  - lead by EGI CTO
  - perform the everyday work (8 FTE)
- expected middleware effort 70 FTE
  - maintenance and convergence towards interoperability
  - no “brand new” development

# Middleware workpackages

- SA2: Software infrastructure provision – 9 FTE
  - define and maintain UMD roadmap and criteria
  - verify contributed middleware components
  - provide necessary services and tools
  - implements Middleware unit
- SA3: Support of Deployed Middleware – 8 FTE
  - investigate and resolve middleware issues in collaboration with providers
  - provide emergency fixes if path via provider fails
- remaining MW effort “outsourced” to external providers

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  - investigate and resolve middleware issues in collaboration with providers
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- remaining MW effort “outsourced” to external providers
- merge of SA2 and SA3 considered
  - avoid overlap and/or tight interaction
  - reduce bureaucracy and effort
  - solve managerial problems (CTO vs. two WP leaders)

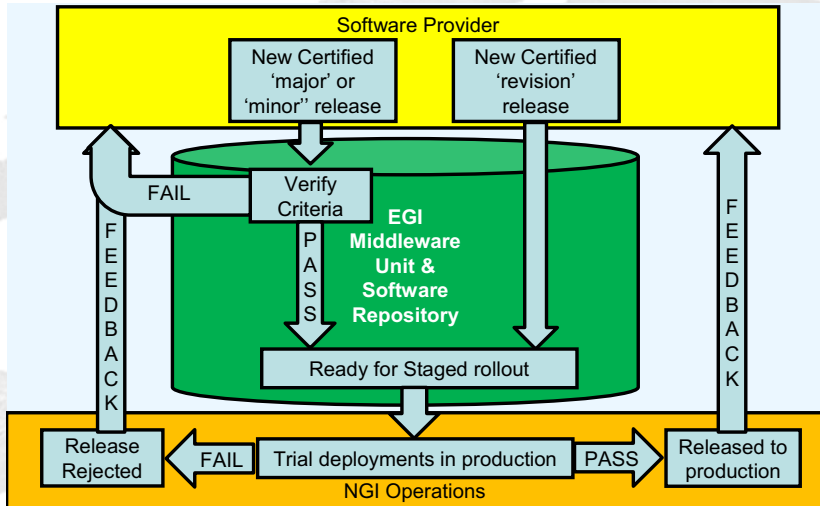
# UMD roadmap

- principal evolving specification of UMD content and releases
- source of information for
  - operations and users to be aware of new functionality and phase-outs
  - software providers to know about desired functionality
- each entry contains
  - functionality description
  - acceptance criteria
  - expected release date
  - required level of maintenance
- possible conflicts resolved through repeated analysis
- updates submitted to MCB for approval and published twice a year
- complemented with generic criteria
  - e.g. interoperability, platform support, SDK availability, ...

# Acceptance of components

- new components and major/minor releases of existing ones
  - SA2 works with providers, users, and operation in pre-release testing
  - final tests by SA2 are lightweight, based on results of previous ones
  - result summarized in acceptance report
  - if tests fail, provider is requested to provide fixed version
  - support SLA (contract) is negotiated
- revision releases
  - no specific tests done by SA2
  - provider's QA process is trusted
  - repeatedly failing provider may not get support contract next time

# Acceptance of components



# Component integration

- software element – set of components required to deliver given functionality
  - “node types” in EGEE: Worker node, UI, WMS, ...
- components from multiple providers required typically
- SA2 involved in software element definition
  - what components of what versions are taken
  - follows UMD roadmap
- actual assembly of software element delegated to one provider
- non-trivial problems to resolve
  - which versions to build against
  - what to test when

# Software repository

- provided and maintained by SA2
  - EGI.eu, replicas considered
- physical location of components
  - links to established repositories (SF) possible
- component categories
  - fully supported (EGI responsibility)
  - community supported
  - associated (RESPECT-like)
- state of component
  - contributed, released, in-production

# Summary

- user wishes and provider offers meet at MCB
- EGI SA2 defines and follows UMD roadmap
- software repository and tools provided by EGI
- most development and support work on external providers