



Gridification Task Development Plan for Release 1.1 - 2.0

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WP4 Gridification components

Provide authenticated and authorized access to job execution facility

Provide high-level information about a fabric to external parties

Facilitate communication of processes with outside world

- ◆ ComputeElement & GateKeeper; Job Repository
- ◆ LCAS / AAA service
- ◆ LCMAPS
- ◆ FLIdS
- ◆ GriFIS
- ◆ FabNAT



Gatekeeper/ComputeElement

- ◆ Modularize current Globus gatekeeper
 - prepare for insertion of LCAS/LCMAPS subsystems
 - Manpower: 0.5 PM FTE
 - Result: standalone clone of the current Globus gatekeeper
 - Delivery: *prototype* January 1st, *release target* 1.1



CE Job Repository

- ◆ Keeps a log of incoming jobs and stores local job information
 - repository and access API
 - first stage prototype is a simple table/directory (possibly LDAP)
 - stores job status, credential mapping, RSL, etc.

- Manpower: 1 PM
- Result: indexed job status and info repository
- Start: mid february, prototype: beginning April, release target: 1.3



LCAS / AAA service

- ◆ Design a AAA server & API to talk to this server
- ◆ Design and implement API for plugins
 - First-stage prototype is library to be linked to Gatekeeper
 - Will get simple policy description for CDB

- Manpower: 1 PM
- Result: library implementation of subsystem with dynamic modules
- Start: mid January, delivery: prototype: mid February, release target 1.2

- Manpower: 3 PM
- Result: implementation of AAA server with generic policy language
design direction: dynamic loading of classes, Java?
- Start: mid April, delivery: prototype: June 2002, release target: 2.0

- ◆ Improve and extend gridmapdir patch for new Gatekeeper
- ◆ split Kerberos/AFS token acq from other gatekeeper calls
- ◆ Separate components for use by WP5 (WP2?)
 - Manpower: 2 PM + 3 PM for AFS/Krb5
 - Result: dedicated single-interface credential service
 - Start: July 1st, prototypes: end August, end November, release targets: 2.0, 2.2

- ◆ Build an automated CA with a policy engine
 - Extremely simple prototype first
 - Effort: 0.3 PM
 - Result: perl script with SSL module of calls to OpenSSL
 - Start: whenever needed or >March, prototype: +0.3 m, release 0.5 m

 - More complex system may require upto 2 PM



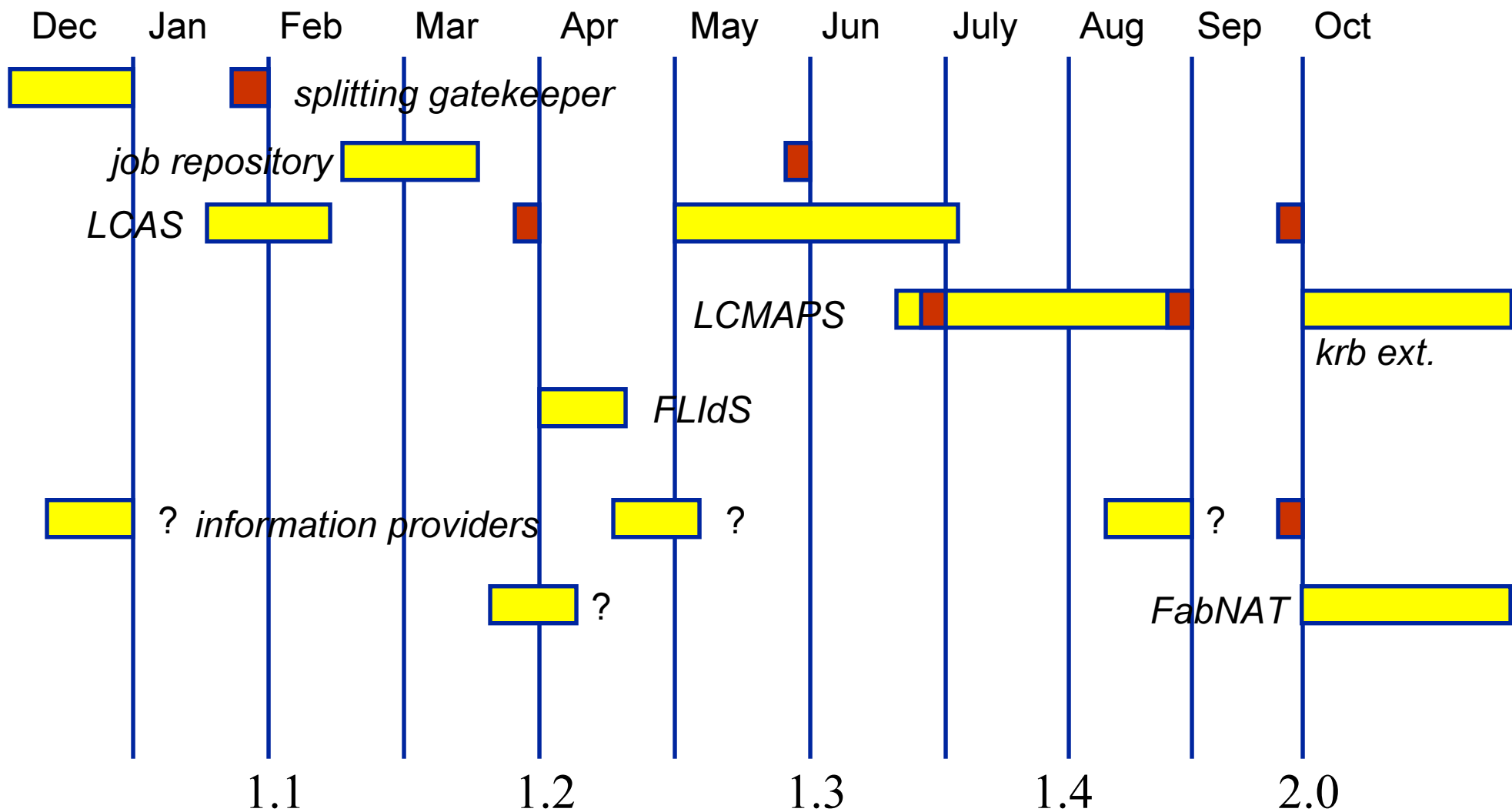
GriFIS providers

- ◆ Information providers or correlators for WP3 framework
 - information from RMS (see RMS plan)
 - information from the monitoring system
 - information from the CDB
- Result: set of compliant information providers and correlators providing metrics yet to be specified in user requirements
- Manpower: dynamic, 1PM for research & $\ll 0.5$ PM per provider
- Start: already started, release targets PM9, 1.1 (Condor) ...

- ◆ Interface to establish tunnels on popular L3/L4 routing solutions
- ◆ Sensors and information providers to read current tunneling setups and changes in connections
 - Result: monitoring sensor for popular routing solutions
 - Manpower: 1 PM
 - Start: when needed, before end 2002, release target < 3.0
- Result: interface to establish tunnels based on RSL/JDL request (perl script or module?)
- Manpower: 1 PM
- Start: > September 2002, prototype: >december, release target: >2.2



Overview





Next?

Proper document forthcoming