

EUROPEAN MIDDLEWARE INITIATIVE

ARGUS SERVICE REFERENCE CARD

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<https://twiki.cern.ch/twiki/bin/view/EMI/ArgusSRC>

EMI Argus Service Reference Card

Definitions

PAP

The Policy Administration Point manages and publishes the authorization policies.

PDP

The Policy Decision Point evaluates the authorization requests.

PEP Server

The Policy Enforcement Point server processes the PEP clients requests and responses.

PEP client

Lightweight PEP client library available for Java and C. Enforces the authorization decision locally.

Service Reference Card (Argus EMI-2 and EMI-3)

- **Functional description:** Render authorization decisions based on XACML policies: "Can user X performs action Y on resource Z ?" or "Is user X banned for any action on any resource ?"
- **Services running:**
 - ◆ PAP: (Java application)
`org.glite.authz.pap.server.standalone.PAPServer`
 - ◆ PDP: (Java application) `org.glite.authz.pdp.server.PDPDaemon`
 - ◆ PEP Server: (Java application) `org.glite.authz.pep.server.PEPDaemon`
- **Init scripts and options:**
 - ◆ PAP: `/etc/init.d/argus-pap {start|stop|status|restart}`
 - ◆ PDP: `/etc/init.d/argus-pdp {start|stop|restart|status|info|version|reloadpolicy}`
 - ◆ PEP Server: `/etc/init.d/argus-pepd {start|stop|restart|status|info|version|clearcache}`
- **Configuration files location with example:**
 - ◆ PAP:
 - ◇ Config directory: `/etc/argus/pap`
 - ◇ Config files: `pap_configuration.ini` and `pap_authorization.ini`
 - ◆ PDP:
 - ◇ Config directory: `/etc/argus/pdp`
 - ◇ Config file: `pdp.ini`
 - ◆ PEP Server:
 - ◇ Config directory: `/etc/argus/pepd`
 - ◇ Config file: `pepd.ini`
- **Logfile locations (and management) and other useful audit information:**
 - ◆ PAP:
 - ◇ Logging directory: `/var/log/argus/pap`
 - ◇ Logging configuration:
`/etc/argus/pap/logging/standalone/logback.xml`
 - ◇ Example: `logback.xml`
 - ◇ Status handler: `https://HOSTNAME:8150/pap/status`
 - ◆ PDP:
 - ◇ Logging directory: `/var/log/argus/pdp`
 - ◇ Logging configuration: `/etc/argus/pdp/logging.xml`
 - ◇ Example: `logging.xml`
 - ◇ Status handler: `https://HOSTNAME:8152/status`
 - ◆ PEP Server:
 - ◇ Logging directory: `/var/log/argus/pepd`
 - ◇ Logging configuration: `/etc/argus/pepd/logging.xml`

- ◊ *Example:* logging.xml
 - ◊ *Status handler:* <https://HOSTNAME:8154/status>
- **Open ports:**
 - ◊ PAP:
 - ◊ *Service port:* *:8150
 - ◊ *Admin port:* localhost:8151
 - ◊ PDP:
 - ◊ *Service port:* *:8152
 - ◊ *Admin port:* localhost:8153
 - ◊ PEP Server:
 - ◊ *Service port:* *:8154
 - ◊ *Admin port:* localhost:8155
- **Possible unit test of the service:** Nagios probes are available to monitor the services, see <https://twiki.cern.ch/twiki/bin/view/EGEE/ArgusEMINagiosProbes>
- **Where is service state held (and can it be rebuilt):** The services (PAP, PDP, PEP Server) are stateless. However:
 - ◊ PAP: The XACML policies are stored locally in the `/usr/share/argus/pap/repository` directory.
 - ◊ PEP Server: The user pool account mapping leases are kept in the `/etc/grid-security/gridmapdir` directory
- **Cron jobs:** None
- **Security information**
 - ◊ Access control mechanism (authentication & authorization):
 - ◊ Authentication: SSL/TLS client authentication on the service ports
 - ◊ Authorization: PAP uses access control list
 - ◊ How to block/ban a user
 - ◊ Network Usage
 - ◊ Firewall configuration
 - ◊ Security recommendations
 - ◊ Security incompatibilities
 - ◊ List of externals (packages are NOT maintained by Red Hat)
 - ◊ Other security relevant comments
- **Utility scripts:**
 - ◊ `/usr/bin/pap-admin` CLI to manage the PAP policies
 - ◊ `/etc/init.d/argus-pdp reloadpolicy` forces the PDP to reload the policies from the PAP
 - ◊ `/etc/init.d/argus-pepd clearcache` clears the PEP daemon response cache
- **Location of reference documentation for users:** Not applicable
- **Location of reference documentation for administrators:**
 - ◊ *General documentation:* <https://twiki.cern.ch/twiki/bin/view/EGEE/AuthorizationFramework>
 - ◊ *PAP admin CLI:* <https://twiki.cern.ch/twiki/bin/view/EGEE/AuthZPAPCLI>
 - ◊ *Simplified Policy Language:* <https://twiki.cern.ch/twiki/bin/view/EGEE/SimplifiedPolicyLanguage>