

Service Reference Card (EMI-3)

- **Functional description:**
 - ◆ Available at
http://storm.forge.cnaf.infn.it/_media/documentation/storm-servicedescription.pdf
- **Services running:**
 - ◆ FE: (C/C++ application)
 - ◆ BE: (Java application)
 - ◆ GridHTTPS: (Java servlet)
 - ◆ GridFTP: (C/C++ application)
- **Init scripts and options:**
 - ◆ FE: /etc/init.d/storm-frontend-server { start|stop|status|restart }
 - ◆ BE: /etc/init.d/storm-backend-server { start|stop|restart|force-reload|status }
 - ◆ GridHTTPS: /etc/init.d/storm-gridhttps-server { start|stop|status }
 - ◆ GridFTP: /etc/init.d/storm-globus-gridftp
{ start|stop|status|restart|condrestart|try-restart|reload|force-reload }
- **Configuration files location with example:**
 - ◆ FE:
 - ◇ *Config directory:* /etc/storm/frontend-server/
 - ◇ *Examples:*
 - storm-frontend-server.conf
 - ◆ BE:
 - ◇ *Config directory:* /etc/storm/backend-server/
 - ◇ *Examples:*
 - storm.properties
 - logging.xml
 - namespace.xml
 - path-authz.db
 - ◆ GridHTTPS:
 - ◇ *Config directory:* /etc/storm/gridhttps-server/
 - ◇ *Examples:*
 - server.ini
 - ◇ *Config directory:* /etc/storm/gridhttps-plugin/
 - ◇ *Examples:*
 - storm.gridhttps.plugin.properties
 - ◆ GridFTP:
 - ◇ *Config directory:* /etc/grid-security/
 - ◇ *Examples:*
 - gridftp.conf
- **Logfile locations (and management) and other useful audit information:**
 - ◆ FE:
 - ◇ *Logging directory:* =/var/log/storm/
 - ◇ *Logging configuration:* = /etc/storm/frontend-server/storm-frontend-server.conf
 - log.debuglevel= [ERROR | WARN | INFO | DEBUG | DEBUG2]
 - ◇ *Logging configuration:* = /etc/storm/frontend-server/monitoring.log
 - monitoring.enabled = [true | false]
 - monitoring.detailed = [true | false]
 - monitoring.timeInterval = <number of seconds>
 - ◆ BE:
 - ◇ *Logging directory:* =/var/log/storm/
 - ◇ *Logging configuration:* = /etc/storm/backend-server/logging.xml

```

.< logger name="it.grid.storm">
  <level value="[ERROR | WARN | INFO | DEBUG | TRACE]" />
</logger>
.<logger name="it.grid.storm">

```

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```
        <level value="[ERROR | WARN | INFO | DEBUG | TRACE]" />
    </logger>
    .<logger name="health">
        <level value="[ERROR | WARN | INFO | DEBUG | TRACE]" />
    </logger>
    .<logger name="bookkeeping">
        <level value="[ERROR | WARN | INFO | DEBUG | TRACE]" />
    </logger>
    .<logger name="system.out">
        <level value="[ERROR | WARN | INFO | DEBUG | TRACE]" />
    </logger>
    .<logger name="system.err">
        <level value="[ERROR | WARN | INFO | DEBUG | TRACE]" />
    </logger>
```

- ◆ **GridHTTPS:**

- ◇ *Logging directory:* =/var/log/storm/

- ◇ *Logging configuration:* = /etc/storm/gridhttps-server/logback.xml

- <logger name="it.grid.storm" level="[FATAL | ERROR | WARN | INFO | DEB

- ◆ **GridFTP:**

- ◇ *Logging directory:* =/var/log/storm/

- ◇ *Logging configuration:* = /etc/globus-gridftp-server/gridftp.gfork

- log_level = [ERROR | WARN | INFO | DUMP | ALL]

- **Open ports:**

- ◆ **FE:**

- ◇ *Service port:* *:8444

- ◆ **BE:**

- ◇ *xmlrpc port:* localhost:8080

- ◇ *restful admin service port:* localhost:9998

- ◇ *Admin port:* localhost:4444

- ◆ **GridHTTPS:**

- ◇ *Service http port:* localhost:8085

- ◇ *Service https port:* localhost:8443

- ◆ **GridFTP:**

- ◇ *Service port:* localhost:2811

- **Possible unit test of the service:**

- **Where is service state held (and can it be rebuilt):** The services (FE, BE, GridFTP, GridHTTPS) are stateless.

- **Cron jobs:**

- **Security information**

- ◆ Access control mechanism (authentication & authorization):

- ◇ Authentication:

- SSL/TLS client authentication on the service ports

- ◇ Authorization:

- BE uses access control list to authorize actions on managed Storage Areas

- GridHTTPS behaves as a PEP (Policy Enforcement Point) using BE

- component and PDP (Policy Decision Point) to authorize actions on files

- ◆ How to block/ban a user

- ◇ To ban an user use ARGUS service and the chosen StoRM resource (default "storm")

- ◆ Network Usage

- ◆ Firewall configuration

- ◇ All the ports reported on *Open ports* section must be open on the respective host

- ◆ Security recommendations

- ◆ Security incompatibilities

- ◆ List of externals (packages are NOT maintained by Red Hat)

- ◇ xmlrpc-c

- ◇ xmlrpc-c-devel

- ◇ xmlrpc-c-c++

- ◇ xmlrpc-c-client
 - ◇ xmlrpc-c-client++
 - ◆ Other security relevant comments
 - **Utility scripts:**
 - **Location of reference documentation for users:** Not applicable
 - **Location of reference documentation for administrators:**
 - ◆ <http://storm.forge.cnaf.infn.it/documentation/home> and
 - http://storm.forge.cnaf.infn.it/_media/documentation/storm-sysadminguide.pdf
 - **General documentation:**
 - ◆ <http://storm.forge.cnaf.infn.it/documentation/home>
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