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# gLite Information System

For up to date documentation, please refer to the IS web page [↗](#)

## Products

The gLite Information System Product Team is responsible for the following EMI products:

- BDII
- Glue model
- Service info provider
- Site info provider
- lcg-info and lcg-infosites clients

## BDII site and top Service Reference Card

### Daemons running

- **BDII site:** `/usr/sbin/slapd -f /etc/bdii/bdii-slapd.conf -h ldap://0.0.0.0:2170 -u ldap`
- **BDII top:** `/usr/sbin/slapd -f /etc/bdii/bdii-top-slapd.conf -h ldap://0.0.0.0:2170 -u ldap`
- **Both:** `/usr/bin/python /usr/sbin/bdii-update -c /opt/bdii/etc/bdii.conf -d`

### Init scripts and options (start|stop|restart|...)

- `/etc/init.d/bdii (start|stop|restart|condrestart|status)`

### Configuration files location with example or template

- **Both:** `/etc/bdii/bdii.conf` : general bdii configuration file.

```
BDII_LOG_FILE=/var/log/bdii/bdii-update.log
BDII_PID_FILE=/var/run/bdii/bdii-update.pid
BDII_LOG_LEVEL=ERROR
BDII_LDIF_DIR=/var/lib/bdii/gip/ldif
BDII_PROVIDER_DIR=/var/lib/bdii/gip/provider
BDII_PLUGIN_DIR=/var/lib/bdii/gip/plugin
BDII_PORT=2170
BDII_BREATHE_TIME=120
BDII_READ_TIMEOUT=300
BDII_ARCHIVE_SIZE=0
BDII_DELETE_DELAY=43200
BDII_USER=ldap
BDII_VAR_DIR=/var/lib/bdii
```

- **BDII top:**
  - ◆ `/etc/bdii/bdii-top-slapd.conf`: LDAP configuration file. Check LDAP documentation [↗](#) for more details.
  - ◆ `/etc/glite/glite-info-update-endpoints.conf`: configuration file defining the endpoints to download the list of site BDII to be published in the top level BDII.

```
[configuration]
EGI = True
OSG = True
manual = False
manual_file =
```

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```
output_file = /var/cache/glite/top-urls.conf
cache_dir = /var/cache/glite/glite-info-update-endpoints
```

- **BDII site:**

- ◆ /etc/bdii/bdii-slapd.conf: LDAP configuration file. Check LDAP documentation [for more details](#).
- ◆ /etc/glite-info-static/site/site.cfg: configuration file defining the site attributes.

```
# Site name, a domain name.
SITE_NAME = bdii-site-emil-site

# Optional description of the site
SITE_DESC = A long format description

# Optional web address in full URL format. E.g.: http://www.cern.ch/gridinfo
SITE_WEB = site-web-url

# New optional GLUE 2.0 parameter to identify if the site is geographically
# true or false
SITE_DISTRIBUTED = no

# Location of the site
SITE_LOC = City, Country
SITE_COUNTRY = Country

# Latitude
SITE_LAT = 46.20

# Longitude
SITE_LONG = 6.1

# Contact email
SITE_EMAIL = yaim-contact@cern.ch, admin-yaim@cern.ch

# Security email
SITE_SECURITY_EMAIL = sec@site.mail

# User support email
SITE_SUPPORT_EMAIL = support@site.mail

# Other info
OTHERINFO = CONFIG=yaim
OTHERINFO = GRID=WLCG
OTHERINFO = GRID=EGI
```

- ◆ /etc/bdii/gip/site-urls.conf: configuration file containing the list of Resource level BDIIs of the services published by the site BDII. The syntax is a list of service name-URL pairs.

## Logfile locations (and management) and other useful audit information

- /var/log/bdii/bdii-update.log, the verbosity is set using a configuration parameter. See the Configuration section in the BDII Documentation [for more details](#).

## Open ports

- 2170

## Possible unit test of the service

- Unit tests and functionality tests are available. See the [BDII Tests](#).

## Where is service state held (and can it be rebuilt)

- `/etc/init.d/bdii status`
- For more detailed metrics on the status of the BDII: `ldapsearch -LLL -x -h localhost -p 2170 -b o=Infosys`

## Cron jobs

- BDII top:
  - ◆ `generate-fcr-exclude-file`: cron job that generates the file for the FCR mechanism.
  - ◆ `glite-info-update-endpoints`: cron job that updates the URLs of the site BDII's that are being published by the top level BDII.

## Security information

### Access control Mechanism description (authentication & authorization)

- The database is world readable but only the root user can make modifications.

### How to block/ban a user

\* The database is world readable. All users can be blocked/banned by stopping the service.

### Network Usage

- The `slapd` service running requires network access. The service can have a high network usage, due to the amount of information about the infrastructure they keep and provide.

### Firewall configuration

- Port 2170/TCP port needs to be open. The firewall configuration should allow to access this port from everywhere in the Internet. A example for IPTABLES configuration is:

```
-A RH-Firewall-1-INPUT -m state --state NEW -m tcp -p tcp --dport 2170 -j ACCEPT
```

### Security recommendations

- The service is based on [OpenLDAP](#) as such, the [security recommendations](#) from [OpenLDAP](#) should be followed.

### Security incompatibilities

None currently known

### List of externals packages that are not maintained by the supported OS.

None

## Members

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