

ARC USAGE RECORD LOGGER

Setup Guide

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Chapter 1

Setup

From version 0.8.1 ARC includes a usage record generator and registrator to SGAS. This document describe how to configure these.

1.1 Requirements

- Python 2.4 or later
- Twisted Core and Web (<http://twistedmatrix.com/>)
- PyOpenSSL (<https://launchpad.net/pyopenssl>)
- ElementTree (<http://effbot.org/zone/element-index.htm> - only needed with Python 2.4)

Debian/Ubuntu package names:

```
python-twisted-core, python-twisted-web, python-openssl  
python-elementtree (only needed with Python 2.4)
```

CentOS and similar:

```
python-twisted-core python-twisted-web pyOpenSSL  
python-elementtree (only needed with Python 2.4)
```

Other Linux distributions: You are on your own :-)

1.2 arc.conf

To invoke the UR generator, an authplugin line must be set in the `[grid-manager]` section:

```
[grid-manager]  
authplugin="FINISHED timeout=10,onfailure=pass /opt/nordugrid/libexec//arc-ur-logger %C %I %S %U"
```

Change the path if you've installed ARC elsewhere than `/opt/nordugrid`. You'll need to restart the `grid-manager` for this to take effect (but wait until you finished reading this document).

The plugin will log to the file: `/var/log/arc-ur-logger.log`. This file will not appear until a job has finished.

Additional logger configuration happens in a separate logger section. Example:

```
[logger]
log_dir=/var/spool/nordugrid/usagerecords/
log_all="https://sgas.ndgf.org:6143/sgas"
log_vo="bio.ndgf.org https://biosgas.ndgf.org:6143/sgas"
```

The `log_dir` option will set the top directory for the generated usage records. The option will default to `/var/spool/nordugrid/usagerecords/` and can be left out. We suggest you leave out this option, unless you have a reason not to.

The `log_all` and `log_vo` options configure where to usage records are registered. All usage records will be registered to the URLs specified with the `log_all` option. It is possible specify multiple URLs be having them space seperated, e.g.:

```
log_all="https://sgas.ndgf.org:6143/sgas https://sgas.grid.dk:6143/sgas"
```

The `log_vo` option makes it possible to only register usage records run with certain VO users to given URL. The above example will register all usage records where the VO information includes the VO `bio.ndgf.org` to the url `https://biosgas.ndgf.org:6143/sgas`. Is is possible to have multiple entries, by seperating entries with comma, e.g.,

```
log_vo="vo1 url1, vo2 url2"
```

It is NOT possible to have multiple `log_all` or `log_vo` lines.

1.3 cron

To register the usage records and registrant should be invoked regularly be CRON. We suggest every hour. The crontab entry would typically look like this:

```
0 * * * * /opt/nordugrid/libexec/arc-ur-registran
```

To ensure that the registrant is working, you can run the script from the command line first. Note that the script will still write its log to to `/var/log/arc-ur-registration.log`. By running the script with `-s` its ouput will be directed to stdout.