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# CEMon Testplan version 1.0

## Unit tests

Not available

## Deployment tests

The yum repositories to be used (apart from the OS ones) are:

- The CA repo (<http://repository.egi.eu/sw/production/cas/1/current/repo-files/egi-trustanchors.repo> )
- The EPEL repo
- The middleware EMI repo

Since CEMon is deployed as part of the CREAM-CE, the command to be used for yum installation is:

```
yum install emi-cream-ce
```

and for yaim-configuration:

```
/opt/glite/yaim/bin/yaim -c -s <site-info.def> -n creamCE
```

Yaim variable USE\_CEMON must be set to true

## System tests

### Basic functionality tests

#### Resource BDII glue1 test

Check if the CEMon service is published in the CREAM CE resource BDII in Glue 1.3

```
ldapsearch -h <host> -x -p 2170 -b "o=grid" "objectclass=GlueService"
```

This should (also) return an objectclass for CEMon

#### Resource BDII glue 2 test

Check if the CEMon service is published in the CREAM CE resource BDII in Glue 2

```
ldapsearch -h <host> -x -p 2170 -b "o=glue" "objectclass=Glue2Endpoint"
```

This should (also) return an objectclass for CEMon

#### GetInfo test

Check if the getinfo operation works and returns information about the service:

```
glite-ce-monitor-getinfo --cert <cert> --key <key> https://<host>:8443/ce-monitor/services/CEMoni
```

### **GetTopics test**

Check if the gettopics operation works and returns the list of installed topic

```
glite-ce-monitor-gettopics --cert <cert> --key <key> https://<host>:8443/ce-monitor/services/CEMOn
```

### **GetEvent test**

Check if the getevent operation works and return info for the specified topic in the specified dialect

```
glite-ce-monitor-getevent --cert <cert> --key <key> --topic <topic> --dialect <dialect> https://<
```

### **Subscription with authentication test**

Check if subscriptions towards a authenticated consumer work:

Start an authenticated consumer:

```
glite-ce-monitor-consumer --cert <cert> --key <key> <port>
```

Then create a subscription for that consumer and verifies that it receives events:

```
glite-ce-monitor-subscribe --key <key> --cert <cert> --topic <topic> --dialects <dialect> --consu
```

### **Subscription without authentication test**

Check if subscriptions towards a not authenticated consumer work:

Start a not authenticated consumer:

```
glite-ce-monitor-consume <port>
```

Then create a subscription for that consumer and verifies that it receives events:

```
glite-ce-monitor-subscribe --key <key> --cert <cert> --topic <topic> --dialects <dialect> --consu
```

### **Unsubscription test**

Check if the unsubscribe operation works.

Unsubscribe a previously created subscription and verifies that the relevant consumer doesn't receive anymore events:

```
glite-ce-monitor-unsubscribe --cert <cert> --key <key> --id <subsc-id> https://<host>:8443/ce-mon
```

### **gJAF and ARGUS authorization tests**

Repeat the tests:

- GetInfo test
- GetTopics test
- GetEvent test
- Subscription with authentication test
- Subscription without authentication test
- Unsubscription test

with e CE configured first for gJAF and then configured for ARGUS

## Regression tests

See: <https://wiki.italiangrid.it/twiki/bin/view/CREAM/RegressionTestWorkPlan>

## Performance and scalability tests

Not available

## Standard compliance and conformance tests

Not available

-- MassimoSgaravatto - 2011-04-19

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