



eTICS2
The Grid Quality Process



European Commission
Information Society and Media

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Module 06

Interoperability Testing

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Interoperability Testing

How to set up and manage testing with ETICS

- ETICS allows to design and manage fairly complex tests involving software components from many different sources
- Tests are defined in ETICS in the same way as builds
- The subsystems represent high-level testsuites
- The components represent packages to be installed or tests scripts



Interoperability Scenario

Job submission

- The case study is interoperability in job submission among different middleware implementations
- The test involve ARC, gLite and UNICORE and tests job submission with any of the clients towards any of the servers
- The packages are taken from their official distribution repositories
- The servers/services are provided by their respective maintainers



Topology



Test Structure

The screenshot displays the ETICS Web Portal interface in Mozilla Firefox. The browser address bar shows `https://etics.cern.ch`. The page features a navigation menu with tabs for **Welcome**, **Submissions**, **Configuration**, **Repository**, **Administration**, and **Requests**. The user's identity is identified as **Alberto Di Meglio**.

The main content area is divided into three sections:

- Project:** A tree view showing various projects, including `gridice`, `gridtestbed`, `gridway`, `jarta`, `Metronome`, `mpi`, `npm`, `OGF_Interop_Demo` (selected), `OMII-Europe`, `org.diligentproject`, `org.etics`, `org.etics.testsuites`, `org.gcore`, `org.gcube`, `org.glite`, `org.glite.testsuites`, and `ppt-apt`.
- Workspace:** A view showing the structure of the selected project, including `OGF_Interop_Demo_1.0.0`, `CERN Scientific Linux 4 (i386) with gcc 3.4.6`, `Default platform`, `Scientific Linux 5 (i386) with gcc 4.1.2`, `ARC-Client_0.9.2`, `Interop-Test_1.0.0`, and `UNICORE-Client_1.1.3-p1`.
- Configuration Details:** A panel for `OGF-Interop-Demo_1.0.0` showing metadata:
 - OGF-Interop-Demo_1.0.0**
 - `OGF-Interop-Demo_1.0.0`
 - `ETICS name: OGF_Interop_Demo_1.0.0`
 - `module name: OGF_Interop_Demo`
 - `version: 1.0.0-0`
 - `created: Wednesday, 25 February 2009 16:51:19`
 - `modified: Friday, 27 February 2009 16:28:13`
 - `id: 01033dfc-4166-4cfc-bb19-085dee7d81fe`
 - `locked: false`

At the bottom, a search bar shows `2 configurations found` for `OGF_Interop_Demo_1.0.0` and `OGF_Interop_Demo.HEAD`. The status bar at the bottom indicates `Done` and `etics.cern.ch`.

Three yellow callout boxes highlight specific areas:

- Project:** Points to the `OGF_Interop_Demo` entry in the Project tree.
- Configuration:** Points to the `OGF_Interop_Demo_1.0.0` entry in the Workspace view.
- Test Structure:** Points to the `Interop-Test_1.0.0` entry in the Workspace view.



Walkthrough and hands-on session



Step 1

Requirements

- Currently the test has been tried only on RH5 and compatible systems
- It should work on RH4 and compatible system if the openssl libraries are upgraded to > 0.9.7a



Step 2

Prepare the workspace

- `mkdir ws`
- `cd ws`
- `etics-workspace-setup`
- `etics-get-project OGF_Interop_Demo`



Step 3

Check out the test and run it

- `etics-checkout`
`--project-config OGF_Interop_Demo_1.0.0`
`Interop-Test`
- `etics-test Interop-Test`



Step 4

Analyse the results

The screenshot shows a web browser window displaying the ETICS Reports page. The page header includes the ETICS logo and the text 'The Grid Quality Process'. The main content area shows the following details:

- Project name:** Interoperability Test Demo
- Testsuite name:** Interoperability Test
- Testsuite version:** 1.0.0-0
- Test start time:** 02/03/2009 04:18:11
- Success rate:** 66% (10/15)
- Status:** Failed

Page generated at 02/03/2009 04:20:08
[Back to test overview page](#)

Test number	Test name	Description	Last test time	Result
0001	check-arc-client	Check for presence of arc client by running a simple command	02/03/2009 04:18:12	Success
0002	generate-arc-proxy	Generate a proxy certificate using the arcproxy command	02/03/2009 04:18:12	Success
0003	submit-arc-to-arc	Submit a simple Hello Grid job from ARC client to ARC server	02/03/2009 04:18:13	Success
0004	stat-arc-to-arc	Monitor the status of the submitted job with arcstat	02/03/2009 04:19:05	Success
0005	get-output-arc-to-arc	Get the output of submitted job with arcget	02/03/2009 04:19:09	Success
0010	submit-arc-to-cream	Submit a simple Hello Grid job from ARC client to CREAM server	02/03/2009 04:19:27	Failed
0030	check-ucc-client	Check for presence of ucc client by running a simple command	02/03/2009 04:19:28	Success
0031	connect-ucc-to-unicore	Connect to a UNICORE system with a ucc client	02/03/2009 04:19:37	Success
0032	submit-ucc-to-unicore	Submit a simple Hello job from UCC client to UNICORE server	02/03/2009 04:19:42	Success
0033	get-status-ucc-to-unicore	Monitor the status of the submitted job with ucc get-status	02/03/2009 04:19:57	Success
0034	get-output-ucc-to-unicore	Get the output of submitted job with ucc get-output	02/03/2009 04:20:04	Success
0040	connect-ucc-to-arc	Connect to a ARC system with a ucc client	02/03/2009 04:20:04	Failed
0041	submit-ucc-to-arc	Submit a simple Hello job from UCC client to ARC server	02/03/2009 04:20:08	Failed
0042	get-status-ucc-to-arc	Monitor the status of the submitted job with ucc get-status	02/03/2009 04:20:08	Failed
0043	get-output-ucc-to-arc	Get the output of submitted job with ucc get-output	02/03/2009 04:20:08	Failed

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Find: dist.location Next Previous Highlight all Match case

http://etics-repository.cern.ch:8080/repository/download/volatile/default/OverallReports/OGF_Interop_Demo/Interop-Test/1.0.0-0/s15_ia32_gcc412/reports.tar.gz/-/reports/testDetails...



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UNICORE



Thanks!



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<http://www.eticsproject.eu>

