

A DIgital Library Infrastructure on Grid ENabled Technology

ETICS Web Tools Basel, 4 October 2006

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Summary

Overview

- Technology
- Web Application Layout
- Browsing & Editing the ETICS datamodel
- Security (AuthN & AuthZ)

References



Service Overview





Technology

Server-side technologies

- Java 1.5
- Apache Tomcat 5.0
- hsqldb
- JDuck-PAT
- Client-side technologies
 - Javascript
 - DHTML
 - AJAX
 - JDuck-WT



Web Application Overview

Browse & Edit the full ETICS Datamodel

- Project & Configuration structures
- Commands
- Dependencies
- Security
 - AuthN supported via the application container
 - AuthZ based on a role-based approach implemented in the WS
- Identity-based UI customisation
 - According to the AuthZ level
 - According to the usual working context (planned)



Web Application Map





Project Selector

Lists all projects hosted by the ETICS platform

Project details are shown upon selection in a drop-down list

plant a project. The STICS Tealling		<i>logged as</i> Paolo Fabriani »
name: The ETICS Toolkit (org.etics)		
lescription: The ETICS Toolkit		
created: Wednesday, March 22, 2006 8:51:42 AM	M	
modified: Friday, September 22, 2006 10:48:10 A	M	
vendor; ETICS		
repository: http://eticssoft.web.cern.ch/eticssoft/re	pository/	
<i>vcsroot:</i> :pserver:anonymous@etics.cvs.cern.ch:	/cvs/etics	
omepage: http://www.eu-etics.org		
1d: 69b6ab6a-f49f-48ac-becc-237e3f7a8644		
	Project Details	Next



Web Application Layout





The Browse Panel Project Explorer

Project Configuration All Projects E- P org.etics 🖻 📵 build-system C build-reactor 🖸 client-py 🖸 java-utils 🖸 packager C webservice 🖻 🔝 portal web-application 🖸 ws-client 🖻 📵 report-engine 🖸 web-reactor 🖻 🔝 test-system 🖸 testmanager

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Three viewers in the Browse Panel:

- Project Explorer: enables project structure browsing; i.e. navigate through the current project, its subsystems and components
- 2. Configuration Explorer
- 3. Etics Explorer

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The Browse Panel Configuration Explorer

Three viewers in the Browse Panel:

- 1. **Project Explorer**
- 2. Configuration Explorer: enables the navigation within a the structure of a configuration (subconfigurations) Platform-dependent items are also shown:
 - Subconfigurations
 - Build | Vcs | Test Commands
 - Properties
 - Environment
 - Dependencies
- 3. Etics Explorer



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Three viewers in the Browse Panel:

- 1. Project Explorer
- 2. Configuration Explorer
- 3. ETICS Explorer: allows the navigation among all the projects hosted by the ETICS platform. Specifically useful for dependency setting

The Browse Panel ETICS Explorer





The View/Edit Panel

- Enables the inspection and editing of every object of the Project datamodel (modules, confs, commands, properties, environment, subconfs, deps)
- The content of the Browse/Edit Panel changes according to selection in the browse panel





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The View/Edit Panel

Organized around a tabbed panel allowing separate viewer while editing

org.etics	Dependencies			
© org.dilige ≌~ hsqldb_	entproject.ext.hsqldb 1.8.0.4		Static	Build
				OK Cancel Remove
© org.dilige ☞ org_dilig	entproject.dvos.common gentproject_dvos_common_	0_1_1	Static	🗾 Build & Runtime 🗾
C ora diliar	ptproject dyee delegation-e	orvico		

org.etics	Dependencies
name;	The ETICS Toolkit (org.etics)
description:	The ETICS Toolkit
created;	Wednesday, March 22, 2006 8:51:42 AM
modified:	Friday, September 22, 2006 10:48:10 AM
vendor;	ETICS



The Configuration List Panel

- Lists configurations
- Populated from different sources according to the operation being performed:
 - Project browsing: shows module configurations. You can go to them through a contex-menu

		bgged at Paole Fabriani
Project Configuration All Projects	The ETICS Toolkit - The ETICS Toolct	leave this project
Could system Could reactor dent py production postal reactor web-reactor report engine	The ETICS Toolkit (org.etics) asserption: The ETICS Toolkit created: Wednesday, March 22, 2006 8:51:42 resoluted: Friday, September 22, 2006 8:51:42 resoluted: Friday, September 22, 2006 10:48:10 vender: ETICS resolution: http://www.eu-etics.org http://www.eu-etics.org .ct: 666a66a-M97-46ac-berc-2076/728644	2 AM O AM <mark>/Ingoostary/</mark> ch _u /oss/98ca

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Configurations

your search returned 2 configurations r org.etics.build-system.client-py. etics-build-system-client-py_bra

Set as Subconfiguration

Go to

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The Configuration List Panel

 Subconfiguration editing: shows available configurations for sub-modules. You can set them as subconfiguration through a contex-menu

Configurations		
your search returned 2 configurations		
org_diligentproject_dvos_0_1_2	Goto	
➡ org_diligentproject_dvos_0_1_:	Set as Subconfiguration	

 Dependency editing: shows configurations for the module to put a dependency on. You can set them as (static or dynamic) dependency through a contex-menu

Configurations	Go to	
your search returned	Add as Dynamic Dependency	
🖻 jdk v. 1.4.2_08	Add as Static Dependency	
I⊇~ jdk v. 1.5.0_06	Set as Subconfiguration	



Security Authentication

- AuthN is based on X.509 certificates
 - You'll have the rights granted to you by the Administrator of each project
- However, access without certificate is still allowed
 - You'll be mapped to a 'Guest' user, with minimal privileges (most likely just read access) in most areas





Security Authorization

- ETICS adopts a role-based approach to AuthZ
- ETICS AuthZ Model
 - Roles are assigned to users within a context
 - A context is either a module (projects, subsystems, components) or a configuration
 - Contexts are hierarchal according to the project/configuration structure





Security Authorization (cont'd)

Roles assigned to users in higher context are inherited in lower ones

Project

- Project Configuration
- Subsystem
 - Subsystem Configuration
 - L Component
 - ^L Component Configuration
- ^L Component
 - ^L Component Configuration
- Example: if you have a role at Subsystem level, you also have that role on Subsystem Configurations, Components and Component Configurations



References

Project Home page:

- http://www.eu-etics.org
- ETICS Web Application:
 - https://grids17.eng.it:8443/etics
- Bug and requirements tracking (Savannah)
 - http://savannah.cern.ch/projects/etics/
- Twiki
 - https://uimon.cern.ch/twiki/bin/view/ETICS/WebHome
- Mailing-lists
 - etics-discuss@cern.ch
 - etics-bugs@cern.ch