



**eTICS2**  
The Grid Quality Process



European Commission  
Information Society and Media

INFSO-RI-223782

# **Module 05**

## **The ETICS Plugins and Compliance Analysis**

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# The ETICS Plugins

## How to extend the system functionality

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- Most of ETICS functionality is provided by **plugins**
- The plugins are small units of functionality or wrappers around external tools
- Well-defined interface that allows the ETICS Client to activate them according to policies called **profiles**
- Profiles can be
  - Generic: python, java, cpp
  - Specific: pyunit, ipv6, wsi
- A generic profile is a group of specific profiles
  - python – pyunit,pycoverage



# The ETICS Plugins

## How to extend the system functionality

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- A plugin can be **mandatory** or **optional**
- Mandatory plugins are installed with the clients and provide essential functionality like running shell commands or building packages
- Optional plugins are installed by users
- Profiles can be set as a static attribute of a configuration or dynamically using build properties



# Quality Analysis and Compliance Validation

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- Most of the plugins are actually wrappers around external tools
- The tools are used by ETICS to analyse particular aspects of the code or execute tasks
- Example of plugins are:
  - Sloccount
  - PyUnit, Junit
  - Pycoverage, JCoverage
  - Findbugs
  - CCCC
  - IPv6, WSI



# Plugins and Metrics

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- The plugins typically collect information and publish data in the form of **Metrics**
- Metrics are published with each build/test reports and are also stored individually in the ETICS Repository
- The collected metrics values can be used to analyse a project status or behaviour (trend analysis)
- A Web tool is under development to allow users to analyse and create graphs of metrics



## Walkthrough and hands-on session



# Step 1

## How to manage plugins

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- A number of plugins are installed with the clients, other can be installed by the user
- Plugin management is done using an etics command that allows to list and install plugins
- Actions
  - **etics-plugin-manager show**



## Step 2

### Installing a plugin

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- Optional plugins can be installed by users
- Actions
  - **etics-plugin-manager install <plugin-name>**

Ex.:

**etics-plugin-manager install WSIPlugin**





## Step 3

### Activating the plugin

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- Some plugins are active by default and execute always at some point during the build process
- Other plugins are activated only if the configuration has a particular profile
- Actions
  - **etics-checkout --project-config etics\_R\_2\_4\_0\_1 org.etics.build-system**
  - **etics-build -p profile wsi org.etics.build-system.webservice-interface**



# Step 4

## Looking at the results

WS-I Analyzer: org.etics.build-system.webservice-interface [Back to Summary](#)

**Project:** etics\_R\_2\_4\_0\_1 (org.etics)  
**Configuration:** etics-build-system-webservice-interface\_R\_1\_5\_1\_1 (org.etics.build-system.webservice-interface)  
**Date:**

**Status Result**

**Module Status :** **Success**      **Success Rate :**      **100 %**

**Summary of wsdl files analyzed:**

BuildSystemService.wsdl	<b>Success</b>	<b>Success Rate: 100 %</b>
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**Detailed Reports :**

Here you have a report of the WSDL scan. For more information about the single check performed refer to the XML report.

**Report for file : /home/dimeglio/3ws/org.etics.build-system.webservice-interface/BuildSystemService.wsdl**

Check Type [ BP2020 ] :	notAp
Check Type [ BP2021 ] :	notAp
Check Type [ BP2022 ] :	pass
Check Type [ BP2120 ] :	pass
Check Type [ BP2123 ] :	notAp
Check Type [ BP2108 ] :	pass
Check Type [ BP2107 ] :	pass
Check Type [ BP2105 ] :	notAp
Check Type [ BP2104 ] :	notAp
Check Type [ BP2103 ] :	pass
Check Type [ BP2102 ] :	pass

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.



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## Next Module

# 06 – Interoperability Testing



# Thanks!

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<http://www.eticsproject.eu>

