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Etics Quick Start Guide

Etics Overview

Etics Web

Etics Web Interface

Terminology

A component is a directory that contains the source code for a given functionality. Each component should create a package with the same name of the component. A subsystem is a group of components. As one component should create one package, the granularity of packaging should be considered when creating a component. Module is the generic term for a component or subsystem. A project is a logical group of subsystems.

Linux Installation

Download and execute the setup script which will fetch and install the Etics clients and dependencies to the current directory.

```bash
python etics-client-setup
```

The client will be installed by default in the directory 'etics' in the current directory. Alternatively the client can be installed in a different directory by using the `--prefix` option of the script.

Finally set the following environment variables:

```bash
$ export ETICS_HOME=/etics
(i.e. the etics directory from which you have run etics-client-setup)

$ export PATH=$ETICS_HOME/bin:$PATH
```

Get Project

The `etics-get-project` command sets the project with which to work with. This command contacts the Etics server and downloads all the meta-data e.g. project/subsystem/component relationships, about the project to an xml file in the current directory. Running subsiquent Etics commands will look for this xml in the current directory.

Checkout

The `etics-checkout` command will checkout all the components and dependencies of a module. If a specific tag is to be used, the `--c < tag >` option can be used. If the `--c` option is not specified the HEAD will be used. A list of available tags can be found by using the `etics-list-configuration` command. For more details about the tag, the command `etics-show-configuration-structure` can be used.
Build

The `etics-build` command can be used to build all the components in the correct order.

Build Output

Creating New Projects, Subsystems and Components

Build Targets

Targets

Examples of target implementation for gLite:

```
checkStyle
  ant checkstyle

clean
  ant clean

compile
  ant compile

doc
  ant doc

init
  ant init

install
  ant install

packaging
  ant rpm

publish
  ant dist

test
  ant unittest
```

Target Semantic

Semantic of target implementation:

```
checkstyle
  verify coding standards and conventions

clean
  remove intermediate and generated files

compile
  compile code

doc
  generate documentation

init
  perform initialisation

install
  install software in the workspace, such that dependent modules can use the build products

packaging
  build rpm (if empty, the ETICS standard packager is invoked)

publish
```
create a local distribution tree (including documentation, test results, collected metrics, etc)

test
run unit tests

Here's the order of execution of the targets:

• clean: needs to be explicitly called
• init -> checkstyle -> compile -> test -> packaging -> publish

System Properties

Handeling Dependencies

Tagging