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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 subsequent 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)

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 Properites

Handeling Dependencies

Tagging