

BitTorrentBuilder

BitTorrent torrent file builder based on the CreateTorrent utility by Daniel Etzold

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1. Overview

BitTorrentBuilder: *BitTorrent torrent file builder based on the CreateTorrent utility by Daniel Etzold*

2. Design

Super Type Builder

Role	Concrete. (Objects can be created.)
Instance Names	Unique
Notification	false
Template Directory	
Data View	Children, proximity: 1
Logger Name	BitTorrentBuilder

3. Constraints

3.1. Allowed Child Dependencies

- [BitTorrentBuilderPieceLength](#) 1
- [BitTorrentBuilderPort](#) 1
- [BitTorrentBuilderUrl](#) 1
- BuilderBuildFile1
- BuilderBuildstamp1
- BuilderBuildTarget1
- BuilderExportDestination1
- BuilderImportMax1
- BuilderImportMin1
- BuilderPackageBuildtimePattern1
- BuilderPackageExtension1
- BuilderPackageFilebase1
- BuilderPackageInstallRank1
- BuilderPackageInstallroot1
- BuilderPackagePurgeRegex1
- BuilderPackageRequireBuildstamp1
- BuilderPackageSeparator1

- BuilderPackageType1
- BuilderPackageVendor1
- BuilderPackageVersion1
- BuilderScmBinding1
- BuilderScmConnection1
- BuilderScmLabel1
- BuilderScmModule1
- BuilderScmQuiet1
- BuilderScmUser1
- BuilderScmView1
- BuilderVersionBuild1
- BuilderVersionMajor1
- BuilderVersionMinor1
- BuilderVersionRelease1
- BuilderVersionTag1

1: These types have a *Singleton* constraint. Only one instance may be added as a resource.

4. Attributes

4.1. Defaults for Imported Attributes

Name	Default
packageExtension	torrent
packageFilebase	\${entity.name}
packageInstallroot	\${entity.attribute.basedir}
packageType	BitTorrentFile
pieceLength	262144
trackerPort	6881

5. Commands

Note:

Commandline options displayed in square brackets "[]" are optional. If an option expects arguments, then angle brackets are shown after the option "<>". Any default value is shown within the brackets.

5.1. Build

Run the build cycle.

Usage

Build [-buildstamp <>]

5.1.1. Workflow

1. setBuildstamp
2. [runBuildScript](#)
3. repoImport

Options

Option	Description
buildstamp	<i>build identifier</i>

5.2. runBuildScript

runs the build script

Usage

runBuildScript [-basedir <>] [-buildfile <>] [-buildstamp <>] [-filebase <>] [-piecelength <>] [-port <>] [-target <>] [-targetdir <>] [-url <>]

Execution	bash
Arguments	mkdir -p \${opts.targetdir}; createtorrent -a \${opts.url} -p \${opts.port} -l \${opts.piecelength} --comment \${opts.basedir} \${opts.targetdir}/\${opts.filebase}.torrent

Options

Option	Description
basedir	<i>directory where build resources reside</i>
buildfile	<i>build file to execute</i>
buildstamp	<i>build identifier</i>
filebase	<i>torrent file name</i>
piecelength	<i>piece length to use for the tracker file</i>

port	<i>tracker port to include in the torrent file</i>
target	<i>build target to evaluate</i>
targetdir	<i>directory build artifacts will be written</i>
url	<i>tracker url to include in the torrent file</i>

6. Related Types

The following types are defined for use with BitTorrentBuilder.

6.1. BitTorrentBuilderSetting

6.1.1. Overview

BitTorrentBuilderSetting: *A BitTorrent torrent file builder setting*

6.1.2. Design

Super Type Setting

Role	Abstract. (Objects cannot be created.)
Instance Names	Unique

6.1.3. Constraints

6.1.3.1. Allowed Parent Dependencies

- [BitTorrentBuilder](#)

6.2. BitTorrentBuilderPort

6.2.1. Overview

BitTorrentBuilderPort: *BitTorrent torrent file builder tracker port*

6.2.2. Design

Super Type [BitTorrentBuilderSetting](#)

Role	Concrete. (Objects can be created.)
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Instance Names	Unique
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6.2.3. Attributes

6.2.3.1. Exported Attributes

Name	Property
trackerPort	settingValue

6.3. BitTorrentBuilderUrl

6.3.1. Overview

BitTorrentBuilderUrl: *BitTorrent torrent file builder tracker URL*

6.3.2. Design

Super Type

[BitTorrentBuilderSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.3.3. Attributes

6.3.3.1. Exported Attributes

Name	Property
trackerUrl	settingValue

6.4. BitTorrentBuilderPieceLength

6.4.1. Overview

BitTorrentBuilderPieceLength: *BitTorrent torrent file builder piece length in bytes*

6.4.2. Design

Super Type

[BitTorrentBuilderSetting](#)

Role	Concrete. (Objects can be created.)
Instance Names	Unique

6.4.3. Attributes

6.4.3.1. Exported Attributes

Name	Property
pieceLength	settingValue