

RpmBuilder

A Redhat Package Manager builder.

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1. Overview

RpmBuilder: *A Redhat Package Manager builder.*

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	RpmBuilder

3. Constraints

3.1. Allowed Child Dependencies

- BuilderBuildFile1
- BuilderBuildstamp1
- BuilderBuildTarget1
- BuilderExportDestination1
- BuilderImportMax1
- BuilderImportMin1
- BuilderNotificationList1
- BuilderPackageBuildtimePattern1
- [BuilderPackageExcludes](#) 1
- BuilderPackageExtension1
- BuilderPackageFilebase1
- [BuilderPackageIncludes](#) 1
- BuilderPackageInstallRank1
- BuilderPackageInstallroot1
- [BuilderPackageManifest](#) 1
- BuilderPackagePurgeRegex1
- BuilderPackageRequireBuildstamp1
- BuilderPackageSeparator1

- BuilderPackageType1
- BuilderPackageVendor1
- BuilderPackageVersion1
- BuilderScmBinding1
- BuilderScmConnection1
- BuilderScmLabel1
- BuilderScmModule1
- BuilderScmQuiet1
- BuilderScmUser1
- BuilderScmView1
- BuilderVersionBuild1
- BuilderVersionMajor1
- BuilderVersionMinor1
- BuilderVersionRelease1
- BuilderVersionTag1
- CruiseControlArtifact1
- CruiseControlInterval1
- CruiseControlMailHost1
- CruiseControlReturnAddress1

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

3.2. Allowed Parent Dependencies

- [CruiseControl](#)
- Node
- Updater

4. Attributes

4.1. Defaults for Imported Attributes

Name	Default
cruiseControlInterval	300
packageExcludes	
packageExtension	noarch.rpm
packageIncludes	.*
packageManifest	manifest.txt

packageSeparator	-
packageType	rpm
versionRelease	1

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. scmCheckout
2. [setBuildstamp](#)
3. runBuildScript
4. [generateManifest](#)
5. [createPackage](#)
6. repoImport

Options

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

5.2. setBuildstamp

Optionally automatically generate the buildstamp, updating the model if required

Updates the builder's BuilderBuildstamp resource value with the provided buildstamp or with a value automatically generated from the builder's attributes so that "entity.attribute.buildstamp" reflects the current value.

Usage

setBuildstamp [-binding <>] [-build <>] [-buildstamp <>]
 [-connection <>] [-major <>] [-minor <>] [-release <>] [-tag

<>]

Options

Option	Description
binding	<i>SCM type</i>
build	<i>Version build number</i>
buildstamp	<i>build identifier</i>
connection	<i>SCM connection string</i>
major	<i>Version major number</i>
minor	<i>Version minor number</i>
release	<i>Version release number</i>
tag	<i>Version tag</i>

5.3. createPackage*Create package(s)*

Implements the means of creating one or more package files of the format associated with the builder package type. The file base, name separator, buildstamp/version, and extension attributes are available for use in naming the package. The location of the list of files and directories to include in the package is made available via the package manifest attribute. The target directory attribute is used to determine where the package files are placed in preparation for importing into the package repository.

Usage

```
createPackage [-buildstamp <>] [-extension <>] [-filebase
<>] [-manifest <>] [-packagetype <>] [-targetdir <>]
```

Options

Option	Description
buildstamp	<i>build identifier</i>
extension	<i>package file name extension</i>
filebase	<i>package file base name</i>
manifest	<i>package manifest file name</i>
packagetype	<i>package type</i>

targetdir	<i>directory build artifacts will be written</i>
-----------	--

5.4. generateManifest

Generate list of files to package.

Uses the base directory, includes and excludes attributes/options to create a package type independent list of files and directories to include in the package(s). The list is stored in the file designated by the manifest option/attribute.

Usage

```
generateManifest [-basedir <>] [-buildstamp <>] [-excludes <>] [-includes <>] [-manifest <>] [-targetdir <>]
```

Options

Option	Description
basedir	<i>directory where build resources reside</i>
buildstamp	<i>build identifier</i>
excludes	<i>directories and files to exclude from the package</i>
includes	<i>directories and files to include in the package</i>
manifest	<i>package manifest file name</i>
targetdir	<i>directory build artifacts will be written</i>

5.5. generateProject

Generate a CruiseControl project definition for inclusion in config.xml

Usage

```
generateProject [-artifactname <>] [-artifacttype <>]
[-basedir <>] -file <> [-interval <>] [-mailhost <>]
[-notificationlist <>] [-project <${context.name}>]
[-returnaddress <>]
```

Options

Option	Description
artifactname	<i>CruiseControl artifact name</i>
artifacttype	<i>CruiseControl artifact type</i>
basedir	<i>directory where build resources reside</i>

file	<i>The project absolute path of the file to generate for inclusion by CruiseControl</i>
interval	<i>Minimum duration between builds in seconds</i>
mailhost	<i>CruiseControl mail server address</i>
notificationlist	<i>Comma separated list of email addresses to be notified about the build</i>
project	<i>Name of the CruiseControl project to generate</i>
returnaddress	<i>CruiseControl returned mail address</i>

6. Related Types

The following types are defined for use with RpmBuilder.

6.1. BuilderPackageIncludes

6.1.1. Overview

BuilderPackageIncludes: *comma separated list of Ant-style paths relative to the basedir to include in the package*

6.1.2. Design

Super Type

BuilderSetting

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

6.1.3. Attributes

6.1.3.1. Exported Attributes

Name	Property
packageIncludes	settingValue

6.2. BuilderPackageExcludes

6.2.1. Overview

BuilderPackageExcludes: *comma separated list of Ant-style paths relative to the basedir to exclude from the package*

6.2.2. Design

Super Type
BuilderSetting

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

6.2.3. Attributes

6.2.3.1. Exported Attributes

Name	Property
packageExc ludes	settingValue

6.3. BuilderPackageManifest

6.3.1. Overview

BuilderPackageManifest: *Package manifest file path*

6.3.2. Design

Super Type
BuilderSetting

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

6.3.3. Attributes

6.3.3.1. Exported Attributes

Name	Property
packageManifest	settingValue

