

Builder

An interface to a software builder.

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1. Overview

Builder: *An interface to a software builder.*

1.1. Documentation

Documentation is available on the ControlTier Wiki: [Core Type Guide - Builder](#)

2. Design

Super Type [Deployment](#)

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

3. Constraints

3.1. Allowed Child Dependencies

- [BuilderAutoUpdate](#) 1
- [BuilderBuildFile](#) 1
- [BuilderBuildstamp](#) 1
- [BuilderBuildTarget](#) 1
- [BuilderExportDestination](#) 1
- [BuilderImportMax](#) 1
- [BuilderImportMin](#) 1
- [BuilderPackageBuildtimePattern](#) 1
- [BuilderPackageExtension](#) 1
- [BuilderPackageFilebase](#) 1
- [BuilderPackageInstallRank](#) 1
- [BuilderPackageInstallroot](#) 1
- [BuilderPackagePurgeIgnoreparents](#) 1
- [BuilderPackagePurgeRegex](#) 1

- [BuilderPackageRequireBuildstamp](#) 1
- [BuilderPackageSeparator](#) 1
- [BuilderPackageType](#) 1
- [BuilderPackageVendor](#) 1
- [BuilderPackageVersion](#) 1
- [BuilderScmBinding](#) 1
- [BuilderScmConnection](#) 1
- [BuilderScmLabel](#) 1
- [BuilderScmModule](#) 1
- [BuilderScmQuiet](#) 1
- [BuilderScmUser](#) 1
- [BuilderScmView](#) 1
- [BuilderVersionBuild](#) 1
- [BuilderVersionMajor](#) 1
- [BuilderVersionMinor](#) 1
- [BuilderVersionRelease](#) 1
- [BuilderVersionTag](#) 1

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

3.2. Allowed Parent Dependencies

- [Node](#)
- [Updater](#)

4. Attributes

4.1. Exported Attributes

Name	Property	Description
basedir	deployment-basedir	Directory where source code is checked out
targetdir	deployment-install-root	Directory where build artifacts are written

4.2. Defaults for Imported Attributes

Name	Default	Description
buildFile		Build file to invoke

buildTarget		Target to invoke
importMax	1	maximum number of packages to import after build
importMin	1	minimum number of packages to import after build
packageBuildtimePattern	yyyyMMddhhmmss	buildtime timestamp pattern
packageExtension	.*	name or pattern of file name extensions to import
packageFilebase	.*?	root name or pattern of filenames to import (minus file extension and option version qualifier)
packageInstallRank	0	Order in which the package is to be installed
packageInstallroot		Directory built package should be extracted
packagePurgeRegex	^(?!^\${entity.attribute.buildstamp}	Package purge buildstamp selection regex
packageSeparator	-	default character used to separate the package version/buildstamp from the rest of the file base
packageType	[^\.]*	Object type to use when registering uploaded packages
packageVersion	\${opts.buildstamp}	String to use for assigning version for package registration
requireBuildstamp	false	Allow package files that do not include the provided buildstamp to be matched by default
scmBinding	cvs	binds scm commands to concrete SCM client commands (current implementations are cvs, svn, p4, git & none)
scmConnection		connection string to access SCM repository

scmLabel		name of the label/branch to access in SCM repository
scmModule		name of code module in SCM repository
scmQuiet	false	sets scmQuiet activity to false
scmUser	\${user.name}	sets scmUser to default user name

5. Commands

View the available commands in the [User Reference](#).

6. Related Types

The following types are defined for use with Builder.

6.1. BuilderAutoUpdate

6.1.1. Overview

BuilderAutoUpdate: *Set to true to automatically update after build*

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
autoUpdate	settingValue

6.2. BuilderBuildFile

6.2.1. Overview

BuilderBuildFile: *Build file the Builder should invoke*

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
buildFile	settingValue

6.3. BuilderBuildstamp

6.3.1. Overview

BuilderBuildstamp: *Optional setting to contain the most recent buildstamp*

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
buildstamp	settingValue

6.4. BuilderBuildTarget

6.4.1. Overview

BuilderBuildTarget: *Build target the Builder should invoke*

6.4.2. Design

Super Type

[BuilderSetting](#)

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

6.4.3. Attributes

6.4.3.1. Exported Attributes

Name	Property
buildTarget	settingValue

6.5. BuilderExportDestination

6.5.1. Overview

BuilderExportDestination: *WebDAV URL or scp destination for package export*

6.5.2. Design

Super Type

[BuilderSetting](#)

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

6.5.3. Attributes

6.5.3.1. Exported Attributes

Name	Property
builderExportDestination	settingValue

6.6. BuilderImportMax

6.6.1. Overview

BuilderImportMax: *Maximum number of packages to import*

6.6.2. Design

Super Type

[BuilderSetting](#)

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

6.6.3. Attributes

6.6.3.1. Exported Attributes

Name	Property
importMax	settingValue

6.7. BuilderImportMin

6.7.1. Overview

BuilderImportMin: *Minimum number of packages to import*

6.7.2. Design

Super Type

[BuilderSetting](#)

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

6.7.3. Attributes

6.7.3.1. Exported Attributes

Name	Property
importMin	settingValue

6.8. BuilderPackageBuildtimePattern

6.8.1. Overview

BuilderPackageBuildtimePattern: *Optional setting to set the package buildtime property*

6.8.2. Design

Super Type

[BuilderSetting](#)

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

6.8.3. Attributes

6.8.3.1. Exported Attributes

Name	Property
packageBuildtimePattern	settingValue

6.9. BuilderPackageExtension

6.9.1. Overview

BuilderPackageExtension: *name or pattern of file name extensions to import*

6.9.2. Design

Super Type

[BuilderSetting](#)

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

6.9.3. Attributes

6.9.3.1. Exported Attributes

Name	Property
packageExtension	settingValue

6.10. BuilderPackageFilebase

6.10.1. Overview

BuilderPackageFilebase: *name or pattern of filenames to import (minus file extension)*

6.10.2. Design

Super Type

[BuilderSetting](#)

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

6.10.3. Attributes

6.10.3.1. Exported Attributes

Name	Property
packageFilebase	settingValue

6.11. BuilderPackageInstallRank

6.11.1. Overview

BuilderPackageInstallRank: *install-rank of the package*

6.11.2. Design

Super Type

[BuilderSetting](#)

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

6.11.3. Attributes

6.11.3.1. Exported Attributes

Name	Property
packageInstallRank	settingValue

6.12. BuilderPackageInstallroot

6.12.1. Overview

BuilderPackageInstallroot: *install-root path of package*

6.12.2. Design

Super Type

[BuilderSetting](#)

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

6.12.3. Attributes

6.12.3.1. Exported Attributes

Name	Property
packageInstallroot	settingValue

6.13. BuilderPackagePurgeIgnoreparents

6.13.1. Overview

BuilderPackagePurgeIgnoreparents: *Boolean flag specifying if purge should ignore if package has parent resource relations*

6.13.2. Design

Super Type

[BuilderSetting](#)

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

6.13.3. Constraints

6.13.3.1. Allowed Property Values

Property	Allowed Values	Default	Enforced
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settingValue	<ul style="list-style-type: none"> false true 	<ul style="list-style-type: none"> false 	true
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6.13.4. Attributes

6.13.4.1. Exported Attributes

Name	Property
packagePurgeIgnoreParents	settingValue

6.14. BuilderPackagePurgeRegex

6.14.1. Overview

BuilderPackagePurgeRegex: *Buildstamp regular expression used to drive package purge selection*

6.14.2. Design

Super Type
[BuilderSetting](#)

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

6.14.3. Attributes

6.14.3.1. Exported Attributes

Name	Property
packagePurgeRegex	settingValue

6.15. BuilderPackageRequireBuildstamp

6.15.1. Overview

BuilderPackageRequireBuildstamp: *Whether or not to require that file names include the provided buildstamp*

6.15.2. Design**Super Type**[BuilderSetting](#)

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

6.15.3. Attributes**6.15.3.1. Exported Attributes**

Name	Property
requireBuildstamp	settingValue

6.16. BuilderPackageSeparator**6.16.1. Overview**

BuilderPackageSeparator: *Character used to separate the package version (buildstamp) from the rest of the package file base*

6.16.2. Design**Super Type**[BuilderSetting](#)

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

6.16.3. Attributes**6.16.3.1. Exported Attributes**

Name	Property
packageSeparator	settingValue

6.17. BuilderPackageType**6.17.1. Overview**

BuilderPackageType: *Type of package*

6.17.2. Design

Super Type

[BuilderSetting](#)

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

6.17.3. Attributes

6.17.3.1. Exported Attributes

Name	Property
packageType	settingValue

6.18. BuilderPackageVendor

6.18.1. Overview

BuilderPackageVendor: *package vendor*

6.18.2. Design

Super Type

[BuilderSetting](#)

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

6.18.3. Attributes

6.18.3.1. Exported Attributes

Name	Property
packageVendor	settingValue

6.19. BuilderPackageVersion

6.19.1. Overview

BuilderPackageVersion: *package version*

6.19.2. Design

Super Type

[BuilderSetting](#)

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

6.19.3. Attributes

6.19.3.1. Exported Attributes

Name	Property
packageVersion	settingValue

6.20. BuilderScmBinding

6.20.1. Overview

BuilderScmBinding: *binds scm commands to concrete SCM client commands*

6.20.2. Design

Super Type

[BuilderSetting](#)

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

6.20.3. Constraints

6.20.3.1. Allowed Property Values

Property	Allowed Values	Default	Enforced
settingValue	<ul style="list-style-type: none"> • cvs • none • p4 		false

	• svn		
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6.20.4. Attributes

6.20.4.1. Exported Attributes

Name	Property
scmBinding	settingValue

6.21. BuilderScmConnection

6.21.1. Overview

BuilderScmConnection: *source code repository connection string*

6.21.2. Design

Super Type

[BuilderSetting](#)

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

6.21.3. Attributes

6.21.3.1. Exported Attributes

Name	Property
scmConnection	settingValue

6.22. BuilderScmLabel

6.22.1. Overview

BuilderScmLabel: *Source label to build*

6.22.2. Design

Super Type

[BuilderSetting](#)

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

6.22.3. Attributes

6.22.3.1. Exported Attributes

Name	Property
scmLabel	settingValue

6.23. BuilderScmModule

6.23.1. Overview

BuilderScmModule: *Source module to build*

6.23.2. Design

Super Type

[BuilderSetting](#)

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

6.23.3. Attributes

6.23.3.1. Exported Attributes

Name	Property
scmModule	settingValue

6.24. BuilderScmQuiet

6.24.1. Overview

BuilderScmQuiet: *makes scm activity quiet*

6.24.2. Design

Super Type

[BuilderSetting](#)

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

6.24.3. Attributes

6.24.3.1. Exported Attributes

Name	Property
scmQuiet	settingValue

6.25. BuilderScmUser

6.25.1. Overview

BuilderScmUser: *scm user*

6.25.2. Design

Super Type

[BuilderSetting](#)

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

6.25.3. Attributes

6.25.3.1. Exported Attributes

Name	Property
scmUser	settingValue

6.26. BuilderScmView

6.26.1. Overview

BuilderScmView: *scm view (perforce)*

6.26.2. Design

Super Type
[BuilderSetting](#)

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

6.26.3. Attributes

6.26.3.1. Exported Attributes

Name	Property
scmView	settingValue

6.27. BuilderSetting

6.27.1. Overview

BuilderSetting: *A builder setting.*

6.27.2. Design

Super Type
Setting

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

6.27.3. Constraints

6.27.3.1. Allowed Parent Dependencies

- [Builder](#)

6.28. BuilderVersionBuild

6.28.1. Overview

BuilderVersionBuild: *Optional version build number used to automatically generate the package buildstamp*

6.28.2. Design

Super Type
[BuilderSetting](#)

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

6.28.3. Attributes

6.28.3.1. Exported Attributes

Name	Property
versionBuild	settingValue

6.29. BuilderVersionMajor

6.29.1. Overview

BuilderVersionMajor: *Optional version major number used to automatically generate the package buildstamp*

6.29.2. Design

Super Type
[BuilderSetting](#)

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

6.29.3. Attributes

6.29.3.1. Exported Attributes

Name	Property
versionMajor	settingValue

6.30. BuilderVersionMinor

6.30.1. Overview

BuilderVersionMinor: *Optional version minor number used to automatically generate the*

package buildstamp

6.30.2. Design

Super Type
[BuilderSetting](#)

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

6.30.3. Attributes

6.30.3.1. Exported Attributes

Name	Property
versionMinor	settingValue

6.31. BuilderVersionRelease

6.31.1. Overview

BuilderVersionRelease: *Optional version release number used to automatically generate the package buildstamp*

6.31.2. Design

Super Type
[BuilderSetting](#)

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

6.31.3. Attributes

6.31.3.1. Exported Attributes

Name	Property
versionRelease	settingValue

6.32. BuilderVersionTag

6.32.1. Overview

BuilderVersionTag: *Optional version tag used to automatically generate the package buildstamp*

6.32.2. Design

Super Type
[BuilderSetting](#)

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

6.32.3. Attributes

6.32.3.1. Exported Attributes

Name	Property
versionTag	settingValue