

BUILD PORTFOLIO

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DEFINITION

The Build Portfolio is a portfolio which contains a build model editor and targets continuous integration platforms by generation from the build model and continuous integration factories.

OBJECTIVES



The objectives of the build portfolio are to:

- Facilitate the definition and maintenance of continuous integration chains,
- Abstract continuous integration in order to target new continuous integration contexts.

The interests are to:

- Provide an build editor which enables to describe a continuous integration chain,
- Develop genetors which generate all the continuous integration scripts.

CONCERNS

 Release Engineer	<ul style="list-style-type: none"> ● The Release Engineer edits a build model in order to develop a continuous integration chain ● The Release Engineer generates the build scripts of the continuous integration chain and deploys them in the continuous integration environment ● The Realese Engineer manages the continuous integration chain
 Build Portfolio Developer	<ul style="list-style-type: none"> ● The Build Portfolio Developer extends the build metamodels ● The Build Portfolio Developer extends the build script generator ● The Build Portfolio Developer tests the Buid Portfolio

STRUCTURE

This section presents the Build Portfolio metamodels:

- The BuildCore metamodel is the core metamodel of the Build Portfolio extended by the other Build metamodels
- The BuildStep metamodel defines all the kind of steps (i.e., build actions) of continuous integration chains (e.g., applying Ant actions, launching EGF activities, publishing the build result)
- The BuildFile metamodel focuses on the file actions (e.g., copy, delete, zip-unzip, download file actions)
- The BuildDeploy metamodel focuses on the deployment configuration (e.g., cron tigger, Hudson/Jenkins deployment)
- The BuildSCM metamodel enables to describe SCM specificities (e.g., for Git or SVN today)

As it is explained later, all those metamodels are extensible with the EMF capability of model extensibility.

Remarks:

- The metamodels of the Build Portfolio has a structure which enables to support Buckminster and not Tycho. Supprting Tycho would typically imply definition of new kind of steps.
- Metamodels uses the “Hudson” name but it is Jenkins-compatible.

BuildCore metamodel

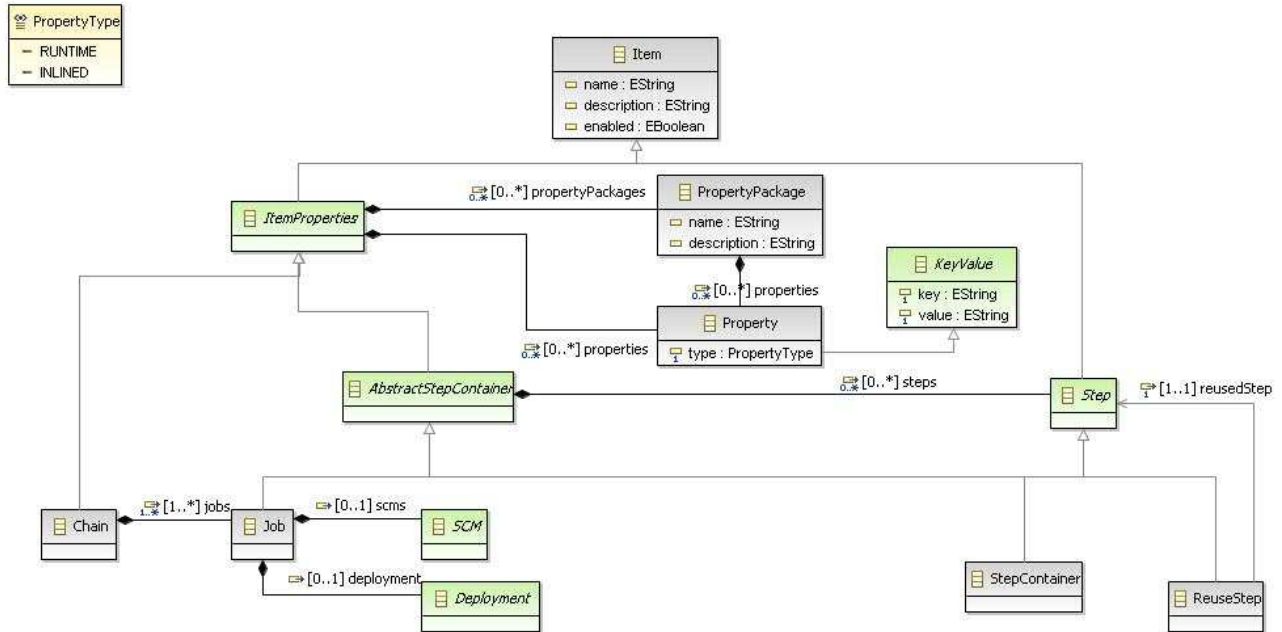


Figure 1. BuildCore Metamodel Diagram

AbstractStepContainer Class

SuperClasses: ItemProperties

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	Property	true	true	false	false	true	true
propertyPackages	0-*	PropertyPackage	true	true	false	false	true	true
steps	0-*	Step	true	true	false	false	true	true

Chain Class

SuperClasses: ItemProperties

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	Property	true	true	false	false	true	true
propertyPackages	0-*	PropertyPackage	true	true	false	false	true	true
jobs	1-*	Job	true	true	false	true	true	true

Item Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

ItemProperties Class

SuperClasses: Item

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	Property	true	true	false	false	true	true
propertyPackages	0-*	PropertyPackage	true	true	false	false	true	true

Job Class

SuperClasses: AbstractStepContainer

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	Property	true	true	false	false	true	true
propertyPackages	0-*	PropertyPackage	true	true	false	false	true	true
steps	0-*	Step	true	true	false	false	true	true
scms	0-1	SCM	true	true	false	false	true	true
deployment	0-1	Deployment	true	true	false	false	true	true

KeyValue Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
key	1-1	EString	true	false	false	false	true	true
value	1-1	EString	true	false	false	false	true	true

Property Class

SuperClasses: KeyValue

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
key	1-1	EString	true	false	false	false	true	true
value	1-1	EString	true	false	false	false	true	true
type	1-1	PropertyType	true	false	false	false	true	true

PropertyPackage Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	Property	true	true	false	false	true	true

PropertyType Enumeration

Enum Literals

Name	Value
RUNTIME	0
INLINED	1

ReuseStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
reusedStep	1-1	Step	false	true	false	true	true	true

StepContainer Class

SuperClasses: AbstractStepContainer, Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	Property	true	true	false	false	true	true
propertyPackages	0-*	PropertyPackage	true	true	false	false	true	true
steps	0-*	Step	true	true	false	false	true	true

Step Class

SuperClasses: Item

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

AbstractBuildLocationContainer Class

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
buildLocations	0-*	AbstractBuildLocation	true	true	false	false	true	true

AggregateStep Class

SuperClasses: ResultStep

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
id	1-1	EString	true	false	false	false	true	true
updateSiteUrls	0-*	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
publishSteps	0-*	PublishStep	false	true	false	false	true	true

AntStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
targetName	1-1	EString	true	false	false	false	true	true
xml	1-1	EString	true	false	false	false	true	true
runInEclipse	0-1	EBoolean	true	false	false	false	true	true

BinaryBuildLocation Class

SuperClasses: PatternBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true

BuildLocationContainer Class

SuperClasses: AbstractBuildLocationContainer, AbstractBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
buildLocations	0-*	AbstractBuildLocation	true	true	false	false	true	true

BuildStep Class

SuperClasses: Step, AbstractBuildLocationContainer

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
allPlatforms	0-1	EBoolean	true	false	false	false	true	true
noBuildersInvocation	0-1	EBoolean	true	false	false	false	true	true
skipComponentsRegex	0-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
buildLocations	0-*	AbstractBuildLocation	true	true	false	false	true	true
components	0-*	Component	true	true	false	false	true	true

CLEAN_TYPE Enumeration

Enum Literals

Name	Value
RESULT	0
WORKSPACE	1
NOTHING	2
TOOLS	3
ALL	4

CleanStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
type	1-1	CLEAN_TYPE	true	false	false	false	true	true

Component Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
id	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
buildStep	1-1	BuildStep	false	true	false	true	true	true

EgfActivity Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
uri	1-1	EString	true	false	false	false	true	true

EgfStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
properties	0-*	EGFSystemProperty	true	true	false	false	true	true
egfActivities	1-*	EgfActivity	true	true	false	true	true	true

EGFSystemProperty Class

SuperClasses: KeyValue

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
key	1-1	EString	true	false	false	false	true	true

value	1-1	EString	true	false	false	false	true	true
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Feature Class

SuperClasses: Component

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
id	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
buildStep	1-1	BuildStep	false	true	false	true	true	true

InstallStepBuildLocation Class

SuperClasses: BinaryBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
installStep	1-1	InstallStep	false	true	false	true	true	true

InstallStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
id	1-1	EString	true	false	false	false	true	true
profile	1-1	EString	true	false	false	false	true	true
updateSiteUrls	0-*	EString	true	false	false	false	true	true
featureNames	0-*	EString	true	false	false	false	true	true
productNames	0-*	EString	true	false	false	false	true	true
installResultStepsSourceFeatures	0-1	EBoolean	true	false	false	false	true	true
p2_os	0-1	EString	true	false	false	false	true	true
p2_ws	0-1	EString	true	false	false	false	true	true

p2_arch	0-1	EString	true	false	false	false	true	true
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References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
resultSteps	0-*	ResultStep	false	true	false	false	true	true

JavadocStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
includes	0-*	EString	true	false	false	false	true	true
excludes	0-*	EString	true	false	false	false	true	true
links	0-*	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
sources	1-*	SourceBuildLocation	false	true	false	true	true	true

LocalBuildLocation Class

SuperClasses: SourceBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true
path	1-1	EString	true	false	false	false	true	true

PatternBuildLocation Class

SuperClasses: AbstractBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true

Plugin Class

SuperClasses: Component

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
id	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
buildStep	1-1	BuildStep	false	true	false	true	true	true

PublishStep Class

SuperClasses: ResultStep

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
signing	0-1	EBoolean	true	false	false	false	true	true
generateSources	0-1	EBoolean	true	false	false	false	true	true
generateDropins	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
component	1-1	Component	false	true	false	true	true	true

ResultStepBuildLocation Class

SuperClasses: BinaryBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
resultStep	1-1	ResultStep	false	true	false	true	true	true

ResultStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true

description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

RunningPlatformBuildLocation Class

SuperClasses: BinaryBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true

SourceBuildLocation Class

SuperClasses: PatternBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true

TargetPlatformBuildLocation Class

SuperClasses: BinaryBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true
path	1-1	EString	true	false	false	false	true	true

TestStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
launchConfigurationPath	1-1	EString	true	false	false	false	true	true
codeCoverage	0-1	EBoolean	true	false	false	false	true	true

UpdateSiteBuildLocation Class

SuperClasses: BinaryBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true
url	1-1	EString	true	false	false	false	true	true

BuildFile metamodel

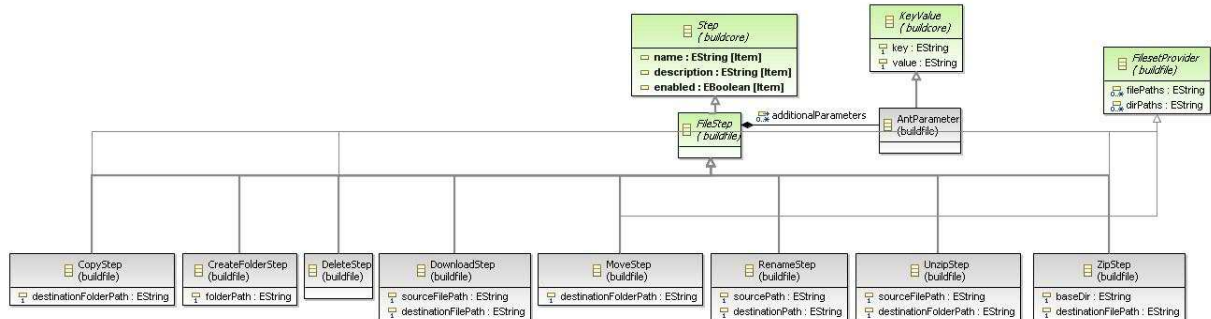


Figure 3. BuildFile Metamodel Diagram

AntParameter Class

SuperClasses: KeyValue

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
key	1-1	EString	true	false	false	false	true	true
value	1-1	EString	true	false	false	false	true	true

CopyStep Class

SuperClasses: FileStep, FilesetProvider

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
filePaths	0-*	EString	true	false	false	false	true	true
dirPaths	0-*	EString	true	false	false	false	true	true
destinationFolderPath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true
resultSteps	0-*	ResultStep	false	true	false	false	true	true
installSteps	0-*	InstallStep	false	true	false	false	true	true

CreateFolderStep Class

SuperClasses: FileStep

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
folderPath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true

DeleteStep Class

SuperClasses: FileStep, FilesetProvider

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
filePaths	0-*	EString	true	false	false	false	true	true
dirPaths	0-*	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true
resultSteps	0-*	ResultStep	false	true	false	false	true	true
installSteps	0-*	InstallStep	false	true	false	false	true	true

DownloadStep Class

SuperClasses: FileStep

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
sourceFilePath	1-1	EString	true	false	false	false	true	true
destinationFilePath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true

FilesetProvider Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
filePaths	0-*	EString	true	false	false	false	true	true
dirPaths	0-*	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
resultSteps	0-*	ResultStep	false	true	false	false	true	true
installSteps	0-*	InstallStep	false	true	false	false	true	true

FileStep Class

SuperClasses: Step

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true

MoveStep Class

SuperClasses: FileStep, FilesetProvider

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
filePaths	0-*	EString	true	false	false	false	true	true
dirPaths	0-*	EString	true	false	false	false	true	true
destinationFolderPath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
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additionalParameters	0-*	AntParameter	true	true	false	false	true	true
resultSteps	0-*	ResultStep	false	true	false	false	true	true
installSteps	0-*	InstallStep	false	true	false	false	true	true

RenameStep Class

SuperClasses: FileStep

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
sourcePath	1-1	EString	true	false	false	false	true	true
destinationPath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true

UnzipStep Class

SuperClasses: FileStep

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
sourceFilePath	1-1	EString	true	false	false	false	true	true
destinationFolderPath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true

ZipStep Class

SuperClasses: FileStep, FilesetProvider

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
name	0-1	EString	true	false	false	false	true	true
description	0-1	EString	true	false	false	false	true	true

enabled	0-1	EBoolean	true	false	false	false	true	true
filePaths	0-*	EString	true	false	false	false	true	true
dirPaths	0-*	EString	true	false	false	false	true	true
baseDir	1-1	EString	true	false	false	false	true	true
destinationFilePath	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
additionalParameters	0-*	AntParameter	true	true	false	false	true	true
resultSteps	0-*	ResultStep	false	true	false	false	true	true
installSteps	0-*	InstallStep	false	true	false	false	true	true

BuildDeploy Metamodel

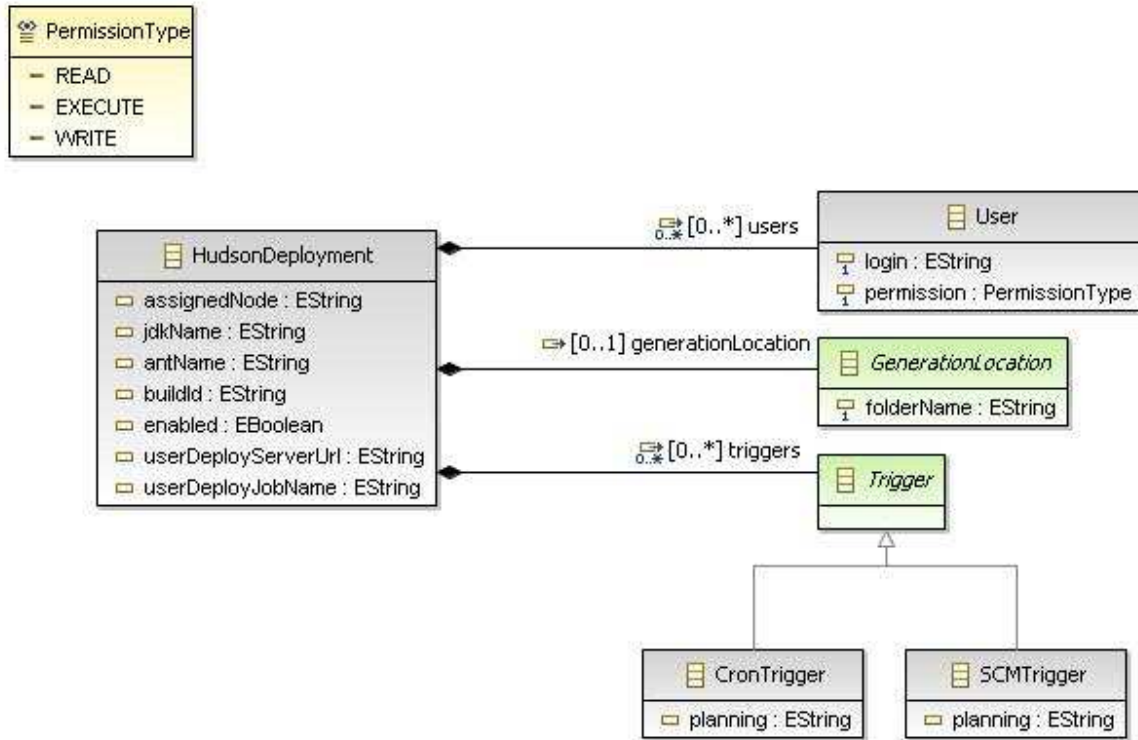


Figure 4. BuildDeploy Metamodel Diagram

CronTrigger Class

SuperClasses: Trigger

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
planning	0-1	EString	true	false	false	false	true	true

GenerationLocation Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
folderName	1-1	EString	true	false	false	false	true	true

HudsonDeployment Class

SuperClasses: Deployment

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
assignedNode	0-1	EString	true	false	false	false	true	true
jdkName	0-1	EString	true	false	false	false	true	true
antName	0-1	EString	true	false	false	false	true	true
buildId	0-1	EString	true	false	false	false	true	true
enabled	0-1	EBoolean	true	false	false	false	true	true
userDeployServerUrl	0-1	EString	true	false	false	false	true	true
userDeployJobName	0-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
users	0-*	User	true	true	false	false	true	true
triggers	0-*	Trigger	true	true	false	false	true	true
generationLocation	0-1	GenerationLocation	true	true	false	false	true	true

PermissionType Enumeration

Enum Literals

Name	Value
READ	1
EXECUTE	2
WRITE	3

SCMTrigger Class

SuperClasses: Trigger

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
planning	0-1	EString	true	false	false	false	true	true

User Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
login	1-1	EString	true	false	false	false	true	true
permission	1-1	PermissionType	true	false	false	false	true	true

BuildSCM metamodel

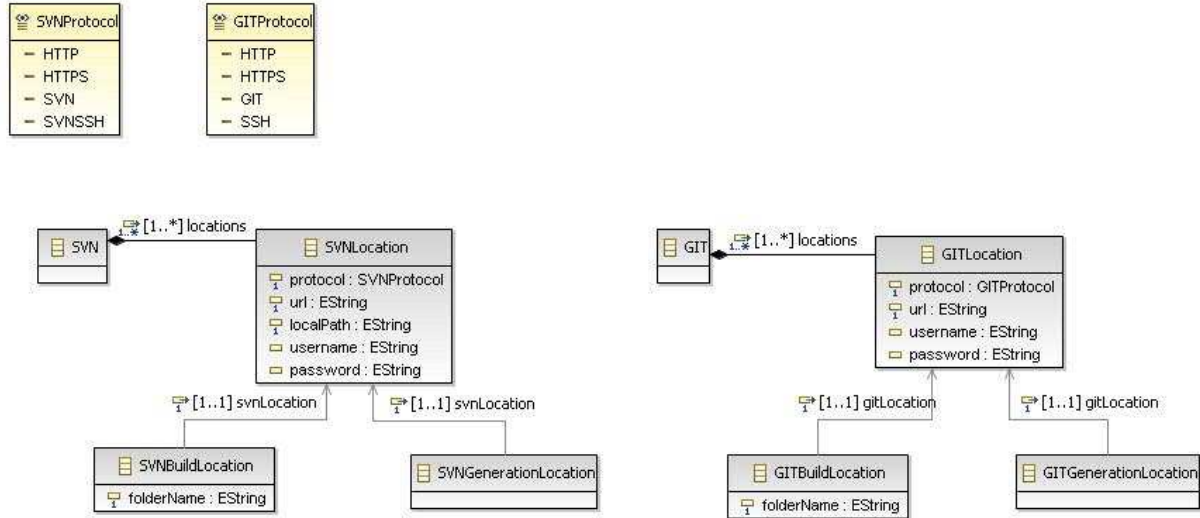


Figure 5. BuildSCM Metamodel Diagram

GITBuildLocation Class

SuperClasses: SourceBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true
folderName	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
gitLocation	1-1	GITLocation	false	true	false	true	true	true

GIT Class

SuperClasses: SCM

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
locations	1-*	GITLocation	true	true	false	true	true	true

GITGenerationLocation Class

SuperClasses: GenerationLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
folderName	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
gitLocation	1-1	GITLocation	false	true	false	true	true	true

GITLocation Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
protocol	1-1	GITProtocol	true	false	false	false	true	true
url	1-1	EString	true	false	false	false	true	true
username	0-1	EString	true	false	false	false	true	true
password	0-1	EString	true	false	false	false	true	true

GITProtocol Enumeration

Enum Literals

Name	Value
HTTP	0
HTTPS	1
GIT	2
SSH	3

SVNBuildLocation Class

SuperClasses: SourceBuildLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
pattern	0-1	EString	true	false	false	false	true	true
suffix	0-1	EString	true	false	false	false	true	true
folderName	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
svnLocation	1-1	SVNLocation	false	true	false	true	true	true

SVN Class

SuperClasses: SCM

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
locations	1-*	SVNLocation	true	true	false	true	true	true

SVNGenerationLocation Class

SuperClasses: GenerationLocation

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
folderName	1-1	EString	true	false	false	false	true	true

References

Name	Bounds	Type	Containment	Changeable	Derived	Required	Ordered	Unique
svnLocation	1-1	SVNLocation	false	true	false	true	true	true

SVNLocation Class

Attributes

Name	Bounds	Type	Changeable	Volatile	Transient	Derived	Ordered	Unique
protocol	1-1	SVNProtocol	true	false	false	false	true	true
url	1-1	EString	true	false	false	false	true	true
localPath	1-1	EString	true	false	false	false	true	true
username	0-1	EString	true	false	false	false	true	true
password	0-1	EString	true	false	false	false	true	true

SVNProtocol Enumeration

Enum Literals

Name	Value
HTTP	0
HTTPS	1
SVN	2
SVNSSH	3

EXAMPLE

The following example depicts the build model to build and publish a simple Ruby portfolio. First, the build repository is cleaned up. Next, there is a build step of the plugins, examples and features. The result of the update site is published at the end in order to be downloaded under Hudson / Jenkins. The last two steps enable to declare the SVN repository and Hudson deployment properties.

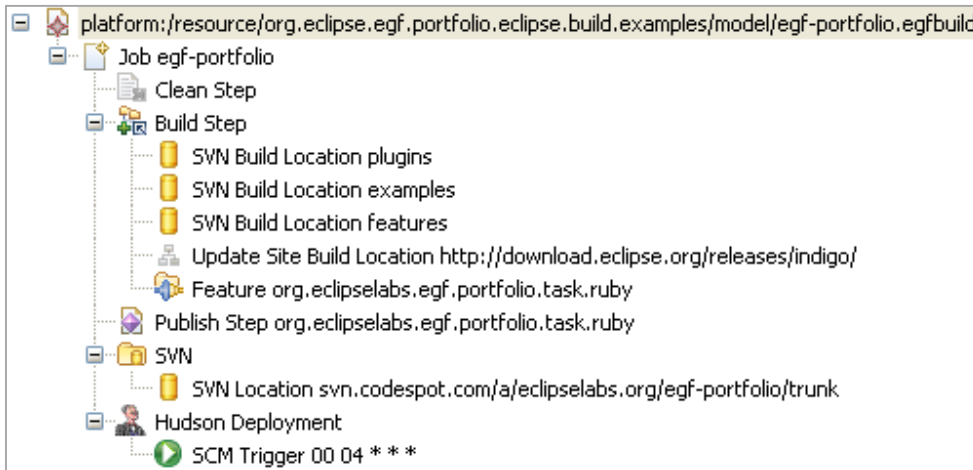


Figure 6. Example of build model

A generation step, realized with EGF factory components, produces the build scripts.

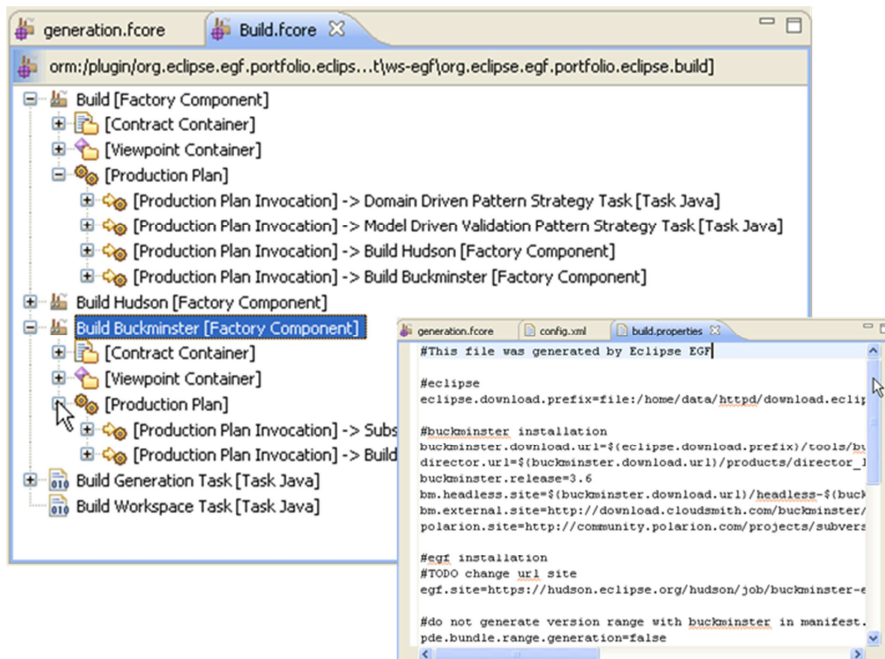


Figure 7. Example of translation in Factory Components and build scripts

Finally, the generated build scripts are installed locally or on a server. Figure 8 shows the execution of the build scripts by Hudson. At this stage, the Release Engineer launches or follow the build step of a continuous integration chain.



Figure 8. Example of result under Hudson

ENHANCEMENT OF THE BUILD PORTFOLIO

The Build Portfolio is extensible at two levels:

- By addition of new metamodels.
- By addition or redefinition of the existing generators (i.e., by customization of the existing Patterns with the Pattern substitution mechanism, and introduction of new Factory Components or Tasks).

From the EGF Build Portfolio, several levels of customization are possible in order to fit various contexts and to target different platforms.

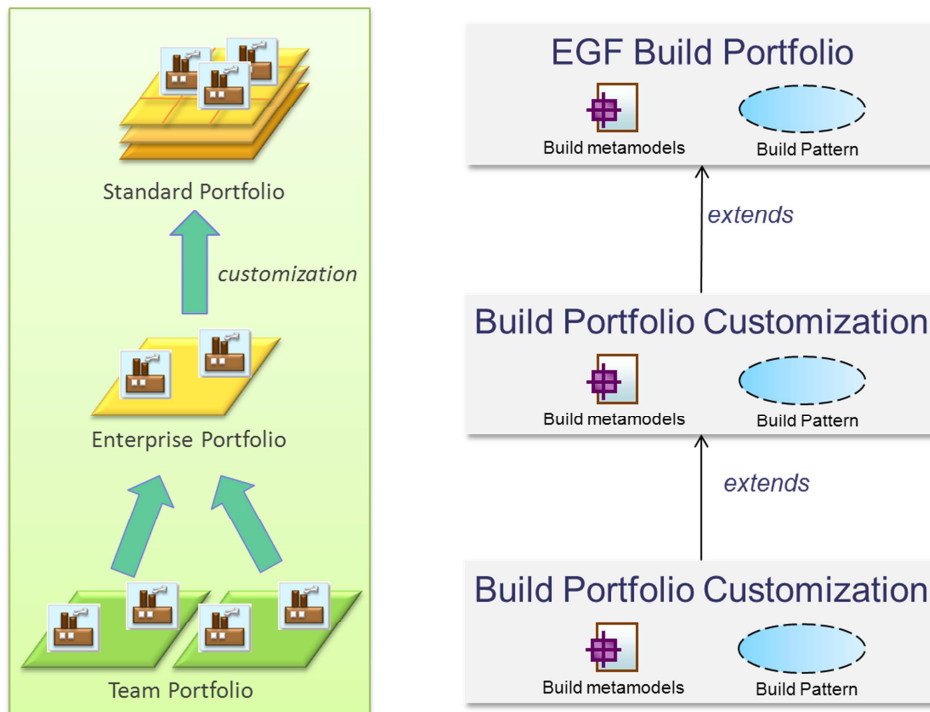


Figure 9. Several levels of customization of the Build Portfolio

PROCESS

The section presents the process dimension from the Release Engineer and Build Portfolio Developer.

Release Engineer

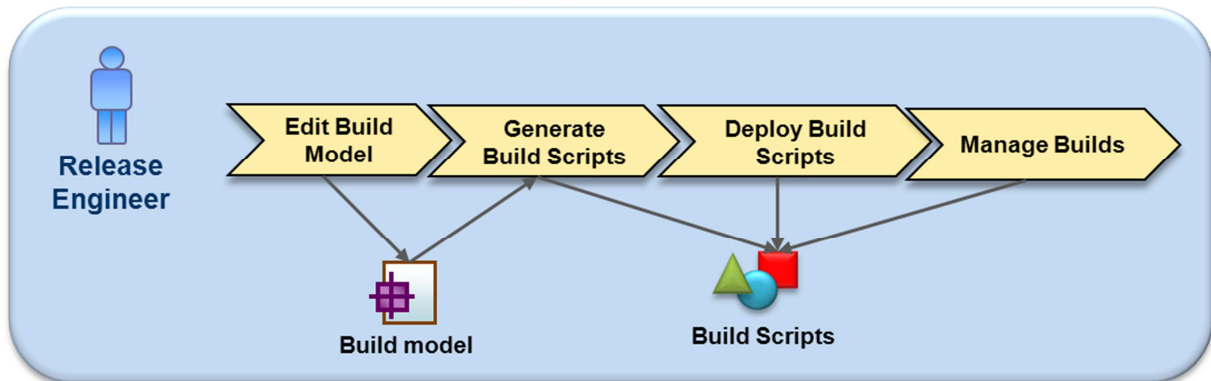


Figure 10. Process – Release Engineer

<i>Edit Build Model</i>	The Release Engineer edits a Build model which defines the continuous integration chain that will be deployed in a build environment.
<i>Generate Build Scripts</i>	From the Build model, the Release Engineer generates the Build scripts. For that, he uses a Factory Component which calls the Build Portfolio, possibly enriched with new Patterns for customization of the EGF Build Portfolio.
<i>Deploy Build Scripts</i>	The Release Engineer deploys the Build scripts previously generated, either locally or on a server.
<i>Manage Builds</i>	The Release Engineer manages (e.g., launch, download build result, delete obsolete builds) the builds of the continuous integration chain in the deployment environment (e.g., Hudson, Jenkins).

Table 1. Release Engineer activities

Build Portfolio Developer

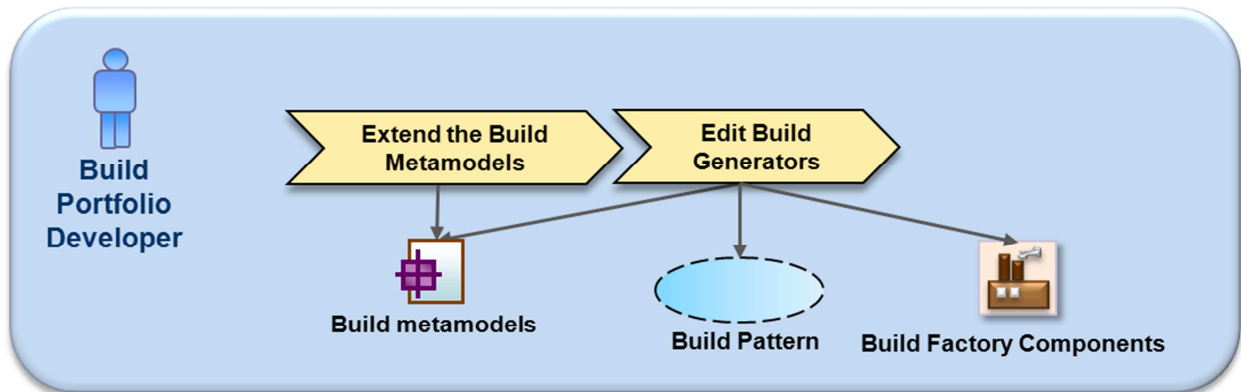


Figure 11. Process – Build Portfolio Developer

<i>Extend the Build Metamodels</i>	The Build Portfolio Developer edits metamodels which extend the EGF Build metamodels or metamodels which already extend EGF Build metamodels.
<i>Edit the Build Patterns</i>	The Build Portfolio Developer edits Patterns which customize the EGF Build Patterns, and defines Factory Components which use the new Patterns and / or introduces the behaviors regards to the EGF Build Portfolio.

Table 2. Build Portfolio Developer activities

BUILD PORTFOLIO PATTERNS

This section provides the list of the Build Portfolio Patterns.

The plugin which contain the EMF Patterns is:

- `org.eclipse.egf.portfolio.eclipse.build`

The structure of the Patterns in this section is the following:

- Patterns are grouped by Pattern Libraries
- A Pattern description contains:
 - A name
 - A description (optional): the reversed EMF Patterns contains a description of its origin and the called Patterns
 - The Super-Pattern (optional)
 - The Pattern Parameters with their type
 - The Pattern Methods

The way to customize a Pattern:

- Creating a Factory Component to host the new Patterns
- Locating the Patterns in Factory Components and Pattern Libraries which enables flexibility and coherence
- For each Pattern:
 - The Pattern inherits from the Pattern it redefines
 - Adding a Pattern Method which redefines method of Super-Patterns
 - Writing the body of the methods which replace the Build Portfolio Pattern
- In the Production Plan, calling the “Build Generation” Factory Component with the Pattern Substitution

Examples:

- Import the “EGF Basic Examples”
- Refer to “`org.eclipse.egf.portfolio.eclipse.build.examples`”

Pattern Library: org.eclipse.egf.portfolio.eclipse.build

Pattern: `FilePattern`

Methods:

- `setFileName`
- `setFilePath`
- `alterFilePath`
- `setContext`

Pattern: `JobFilePattern`

SuperPattern: `FilePattern`

Parameters:

- `job`: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- `setFilePath`

Pattern: `BuildStepFilePattern`

SuperPattern: `FilePattern`

Parameters:

- `buildStep`: <http://www.eclipse.org/egf/1.0.2/buildstep#//BuildStep>

Methods:

- `setFilePath`
- `setBuildStepName`

Pattern: `XmlHeader`

Methods:

- `body`

Pattern: `TextHeader`

Methods:

- `body`

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.validation

Pattern: `atLeastAStep`

SuperPattern: `AbstractValidationPattern`

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: stepId

SuperPattern: AbstractValidationPattern

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- checkDuplicateId

Pattern: chainName

SuperPattern: AbstractValidationPattern

Parameters:

- chain: <http://www.eclipse.org/egf/1.0.1/buildcore#//Chain>

Methods:

- body

Pattern: jobName

SuperPattern: AbstractValidationPattern

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.transformation

Pattern: reusedStep

Parameters:

- stepContainer: <http://www.eclipse.org/egf/1.0.1/buildcore#//AbstractStepContainer>

Methods:

- body

Pattern: removeDisabledItem

Parameters:

- item: <http://www.eclipse.org/egf/1.0.1/buildcore#//Item>

Methods:

- body

Pattern: [replaceInlinedProperties](#)

Parameters:

- eObject: <http://www.eclipse.org/emf/2002/Ecore#//EObject>

Methods:

- body

Pattern [org.eclipse.egf.portfolio.eclipse.build.transformation.chain2job](#)

Library:

Pattern: [chain](#)

Parameters:

- chain: <http://www.eclipse.org/egf/1.0.1/buildcore#//Chain>

Methods:

- createNewJob
- putNewJobInContext
- addNewJobToChain

Pattern: [job](#)

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- getNewJob
- movePropertiesToNewJob
- moveScmToNewJob
- moveStepsToNewJob
- moveDeploymentToNewJob
- removeJobFromChain
- handleCleanStep

Pattern Library: [org.eclipse.egf.portfolio.eclipse.build.hudson](#)

Pattern: [config.xml](#)

SuperPattern: JobFilePattern

Methods:

- setFileName

- begin
- body
- end

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.hudson.call

Pattern: Action.add

Methods:

- body

Pattern: Builder.add

Methods:

- body

Pattern: BuildWrapper.add

Methods:

- body

Pattern: Property.add

Methods:

- body

Pattern: Publisher.add

Methods:

- body

Pattern: Trigger.add

Methods:

- body

Pattern: Others.add

Methods:

- body

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.hudson.additions

Pattern: Builder.steps

SuperPattern: Builder.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: Property.security

SuperPattern: Property.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: Property.buildId

SuperPattern: Property.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: Publisher.artifacts

SuperPattern: Publisher.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: Publisher.testStep

SuperPattern: Publisher.add

Parameters:

- testStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//TestStep>

Methods:

- body

Pattern: Publisher.javadocStep

SuperPattern: Publisher.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: Publisher.chain

SuperPattern: Publisher.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: Trigger.cron

SuperPattern: Trigger.add

Parameters:

- cronTrigger: <http://www.eclipse.org/egf/1.0.0/builddeploy#//CronTrigger>

Methods:

- body

Pattern: Trigger.scm

SuperPattern: Trigger.add

Parameters:

- scmTrigger: <http://www.eclipse.org/egf/1.0.0/builddeploy#//SCMTrigger>

Methods:

- body

Pattern: Others.svn

SuperPattern: Others.add

Parameters:

- svn: <http://www.eclipse.org/egf/1.0.0/buildscm#//SVN>

Methods:

- body

Pattern: Others.git

SuperPattern: Others.add

Parameters:

- git: <http://www.eclipse.org/egf/1.0.0/buildscm#//GIT>

Methods:

- body

Pattern: Others.logRotator

SuperPattern: Others.add

Methods:

- body

Pattern: Others.hudsonDeployment

SuperPattern: Others.add

Parameters:

- deployment: <http://www.eclipse.org/egf/1.0.0/builddeploy#//HudsonDeployment>

Methods:

- body

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.buckminster

Pattern: build.xml

SuperPattern: JobFilePattern

Methods:

- setFileName
- alterFilePath
- begin
- properties
- eclipse_launch
- install_director
- install_buckminster
- install_egf
- buckminster
- egf
- antecclipse
- cleans

- inits
- end

Pattern: build.properties

SuperPattern: JobFilePattern

Methods:

- setFileName
- alterFilePath
- body

Pattern: buckminster.cspec

SuperPattern: BuildStepFilePattern

Methods:

- setFileName
- begin
- end

Pattern: buckminster.ant

SuperPattern: BuildStepFilePattern

Methods:

- setFileName
- body

Pattern: build.mspect

SuperPattern: BuildStepFilePattern

Methods:

- setFileName
- body

Pattern: build.cquery

SuperPattern: BuildStepFilePattern

Methods:

- setFileName
- body

Pattern: build.rmap

SuperPattern: BuildStepFilePattern

Methods:

- setFileName
- begin
- callBuildRmapLocationAdd
- end

Pattern: build.target

SuperPattern: BuildStepFilePattern

Methods:

- setFileName
- begin
- end

Pattern: eclipse.variables

SuperPattern: JobFilePattern

Methods:

- setFileName
- alterFilePath
- content

Pattern: chain_build.xml

SuperPattern: FilePattern

Parameters:

- chain: <http://www.eclipse.org/egf/1.0.1/buildcore#//Chain>

Methods:

- setFileName
- setFilePath
- body

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.buckminster.call

Pattern: build.xml.Xmx

Methods:

- body

Pattern: build.xml.add

Methods:

- body

Pattern: build.properties.add

Methods:

- body

Pattern: buckminster.cspec.deps.add

Methods:

- body

Pattern: build.rmap.location.add

Methods:

- body

Pattern: build.target.add

Methods:

- body

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.buckminster.additions

Pattern: build.xml.job_steps

SuperPattern: build.xml.add

Parameters:

- job: <http://www.eclipse.org/egf/1.0.1/buildcore#//Job>

Methods:

- body

Pattern: build.xml.stepContainer_steps

SuperPattern: build.xml.add

Parameters:

- stepContainer: <http://www.eclipse.org/egf/1.0.1/buildcore#//StepContainer>

Methods:

- body

Pattern: [build.xml.cleanStep](#)

SuperPattern: build.xml.add

Parameters:

- cleanStep: <http://www.eclipse.org/egf/1.0.2/buildstep#/CleanStep>

Methods:

- body

Pattern: [build.xml.buildStep](#)

SuperPattern: build.xml.add

Parameters:

- buildStep: <http://www.eclipse.org/egf/1.0.2/buildstep#/BuildStep>

Methods:

- computeStepName
- begin
- echo
- installJRE
- importTargetDefinition
- importWorkspace
- build
- end

Pattern: [build.xml.testStep](#)

SuperPattern: build.xml.add

Parameters:

- testStep: <http://www.eclipse.org/egf/1.0.2/buildstep#/TestStep>

Methods:

- body

Pattern: [build.xml.publishStep.feature](#)

SuperPattern: build.xml.add

Parameters:

- publishStep: <http://www.eclipse.org/egf/1.0.2/buildstep#/PublishStep>

Methods:

- body

Pattern: build.xml.publishStep.plugin

SuperPattern: build.xml.add

Parameters:

- publishStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//PublishStep>

Methods:

- body

Pattern: build.xml.antStep

SuperPattern: build.xml.add

Parameters:

- antStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//AntStep>

Methods:

- body

Pattern: build.xml.javadocStep

SuperPattern: build.xml.add

Parameters:

- javadocStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//JavadocStep>

Methods:

- body

Pattern: build.xml.egfStep

SuperPattern: build.xml.add

Parameters:

- egfStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//EgfStep>

Methods:

- body

Pattern: build.xml.aggregateStep

SuperPattern: build.xml.add

Parameters:

- aggregateStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//AggregateStep>

Methods:

- body

Pattern: build.xml.installStep

SuperPattern: build.xml.add

Parameters:

- installStep: <http://www.eclipse.org/egf/1.0.2/buildstep#//InstallStep>

Methods:

- body

Pattern: build.xml.zipStep

SuperPattern: build.xml.add

Parameters:

- zipStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//ZipStep>

Methods:

- body

Pattern: build.xml.unzipStep

SuperPattern: build.xml.add

Parameters:

- unzipStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//UnzipStep>

Methods:

- body

Pattern: build.xml.moveStep

SuperPattern: build.xml.add

Parameters:

- moveStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//MoveStep>

Methods:

- body

Pattern: build.xml.renameStep

SuperPattern: build.xml.add

Parameters:

- renameStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//RenameStep>

Methods:

- body

Pattern: [build.xml.deleteStep](#)

SuperPattern: build.xml.add

Parameters:

- deleteStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//DeleteStep>

Methods:

- body

Pattern: [build.xml.copyStep](#)

SuperPattern: build.xml.add

Parameters:

- copyStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//CopyStep>

Methods:

- body

Pattern: [build.xml.downloadStep](#)

SuperPattern: build.xml.add

Parameters:

- downloadStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//DownloadStep>

Methods:

- body

Pattern: [build.xml.createFolderStep](#)

SuperPattern: build.xml.add

Parameters:

- createFolderStep: <http://www.eclipse.org/egf/1.0.0/buildfile#//CreateFolderStep>

Methods:

- body

Pattern: `build.properties.itemProperty`

SuperPattern: `build.properties.add`

Parameters:

- `propertyWrapper`: `org.eclipse.egf.portfolio.eclipse.build.PropertyWrapper`

Methods:

- `body`

Pattern: `build.properties.allPlatforms`

SuperPattern: `build.properties.add`

Parameters:

- `buildStep`: `http://www.eclipse.org/egf/1.0.2/buildstep#//BuildStep`

Methods:

- `body`

Pattern: `buckminster.cspec.feature`

SuperPattern: `buckminster.cspec.deps.add`

Parameters:

- `feature`: `http://www.eclipse.org/egf/1.0.2/buildstep#//Feature`

Methods:

- `body`

Pattern: `buckminster.cspec.plugin`

SuperPattern: `buckminster.cspec.deps.add`

Parameters:

- `plugin`: `http://www.eclipse.org/egf/1.0.2/buildstep#//Plugin`

Methods:

- `body`

Pattern: `buckminster.cspec.targetPlatform_installStep`

Parameters:

- `buildStep`: `http://www.eclipse.org/egf/1.0.2/buildstep#//BuildStep`

Methods:

- body

Pattern: build.rmap.svn

SuperPattern: build.rmap.location.add

Parameters:

- svnBuildLocation: <http://www.eclipse.org/egf/1.0.0/buildscm#//SVNBuildLocation>

Methods:

- body

Pattern: build.rmap.git

SuperPattern: build.rmap.location.add

Parameters:

- gitBuildLocation: <http://www.eclipse.org/egf/1.0.0/buildscm#//GITBuildLocation>

Methods:

- body

Pattern: build.rmap.targetPlatform

SuperPattern: build.rmap.location.add

Parameters:

- targetPlatformBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep#//TargetPlatformBuildLocation>

Methods:

- body

Pattern: build.rmap.updateSite

SuperPattern: build.rmap.location.add

Parameters:

- updateSiteBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep#//UpdateSiteBuildLocation>

Methods:

- body

Pattern: [build.rmap.local](#)

SuperPattern: build.rmap.location.add

Parameters:

- localBuildLocation: <http://www.eclipse.org/egf/1.0.2/buildstep#//LocalBuildLocation>

Methods:

- body

Pattern: [build.rmap.resultStep](#)

SuperPattern: build.rmap.location.add

Parameters:

- resultStepBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep#//ResultStepBuildLocation>

Methods:

- body

Pattern: [build.rmap.installStep](#)

SuperPattern: build.rmap.location.add

Parameters:

- installStepBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep#//InstallStepBuildLocation>

Methods:

- body

Pattern: [build.rmap.runningPlatform](#)

SuperPattern: build.rmap.location.add

Parameters:

- runningPlatformBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep#//RunningPlatformBuildLocation>

Methods:

- body

Pattern: [build.target.updateSite](#)

SuperPattern: build.target.add

Parameters:

- updateSiteBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep//#/UpdateSiteBuildLocation>

Methods:

- body

Pattern: build.target.targetPlatform

SuperPattern: build.target.add

Parameters:

- targetPlatformBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep//#/TargetPlatformBuildLocation>

Methods:

- body

Pattern: build.target.resultStep

SuperPattern: build.target.add

Parameters:

- resultStepBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep//#/ResultStepBuildLocation>

Methods:

- body

Pattern: build.target.installStep

SuperPattern: build.target.add

Parameters:

- installStepBuildLocation:
<http://www.eclipse.org/egf/1.0.2/buildstep//#/InstallStepBuildLocation>

Methods:

- body

Pattern: build.target.runningPlatform

SuperPattern: build.target.add

Parameters:

- `runningPlatformBuildLocation`:
<http://www.eclipse.org/egf/1.0.2/buildstep#//RunningPlatformBuildLocation>

Methods:

- `body`

Pattern Library: org.eclipse.egf.portfolio.eclipse.build.buckminster.util

Pattern: `build.xml.filesetProvider`

Parameters:

- `filesetProvider`: <http://www.eclipse.org/egf/1.0.0/buildfile#//FilesetProvider>

Methods:

- `body`