4.10.1

* Docs  
  [User Manual](http://docs.google.com/userguide/userguide.html)  
  [Guides and Tutorials](https://guides.gradle.org)  
  [DSL Reference](http://docs.google.com/dsl/)  
  [Javadoc](http://docs.google.com/javadoc/)  
  [Release Notes](http://docs.google.com/release-notes.html)
* [Forums](https://discuss.gradle.org/)
* [Training](https://gradle.org/training/)
* [Try Gradle Enterprise](https://gradle.com/enterprise)
* [User Manual Home](http://docs.google.com/userguide/userguide.html)
* [DSL Reference Home](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
  + [Methods](http://docs.google.com/org.gradle.api.artifacts.DependencySubstitutions.html#N1ABD4)

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* [allprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:allprojects(groovy.lang.Closure))
* [artifacts { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:artifacts(groovy.lang.Closure))
* [buildscript { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:buildscript(groovy.lang.Closure))
* [configurations { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:configurations(groovy.lang.Closure))
* [dependencies { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:dependencies(groovy.lang.Closure))
* [repositories { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:repositories(groovy.lang.Closure))
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* [subprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:subprojects(groovy.lang.Closure))
* [publishing { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:publishing(groovy.lang.Closure))

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* [IncludedBuild](http://docs.google.com/org.gradle.api.initialization.IncludedBuild.html)
* [Script](http://docs.google.com/org.gradle.api.Script.html)
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* [SourceSet](http://docs.google.com/org.gradle.api.tasks.SourceSet.html)
* [SourceSetOutput](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html)
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* [ExtraPropertiesExtension](http://docs.google.com/org.gradle.api.plugins.ExtraPropertiesExtension.html)
* [PluginDependenciesSpec](http://docs.google.com/org.gradle.plugin.use.PluginDependenciesSpec.html)
* [PluginDependencySpec](http://docs.google.com/org.gradle.plugin.use.PluginDependencySpec.html)
* [PluginManagementSpec](http://docs.google.com/org.gradle.plugin.management.PluginManagementSpec.html)
* [ResourceHandler](http://docs.google.com/org.gradle.api.resources.ResourceHandler.html)
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* [PublishingExtension](http://docs.google.com/org.gradle.api.publish.PublishingExtension.html)
* [IvyPublication](http://docs.google.com/org.gradle.api.publish.ivy.IvyPublication.html)
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* [MavenPomDistributionManagement](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDistributionManagement.html)
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* [ArtifactHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.ArtifactHandler.html)

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* [BuildCacheConfiguration](http://docs.google.com/org.gradle.caching.configuration.BuildCacheConfiguration.html)
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* [DependencyInsightReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyInsightReportTask.html)
* [PropertyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.PropertyReportTask.html)
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* [BuildEnvironmentReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.BuildEnvironmentReportTask.html)
* [Checkstyle](http://docs.google.com/org.gradle.api.plugins.quality.Checkstyle.html)
* [CodeNarc](http://docs.google.com/org.gradle.api.plugins.quality.CodeNarc.html)
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* [JacocoMerge](http://docs.google.com/org.gradle.testing.jacoco.tasks.JacocoMerge.html)
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* [Upload](http://docs.google.com/org.gradle.api.tasks.Upload.html)
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* [FindBugsXmlReport](http://docs.google.com/org.gradle.api.plugins.quality.FindBugsXmlReport.html)
* [Report](http://docs.google.com/org.gradle.api.reporting.Report.html)
* [Reporting](http://docs.google.com/org.gradle.api.reporting.Reporting.html)
* [ReportContainer](http://docs.google.com/org.gradle.api.reporting.ReportContainer.html)
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* [EclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseProject.html)
* [EclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseClasspath.html)
* [EclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseJdt.html)
* [EclipseWtp](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtp.html)
* [EclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseWtpComponent.html)
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* [IdeaModel](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModel.html)
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* [GenerateEclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseClasspath.html)
* [GenerateEclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseJdt.html)
* [GenerateEclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpComponent.html)
* [GenerateEclipseWtpFacet](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpFacet.html)
* [GenerateIdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaModule.html)
* [GenerateIdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaProject.html)
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* [PrebuiltStaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltStaticLibraryBinary.html)
* [NativeComponentSpec](http://docs.google.com/org.gradle.nativeplatform.NativeComponentSpec.html)
* [NativeExecutableSpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableSpec.html)
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* [StaticLibraryBinarySpec](http://docs.google.com/org.gradle.nativeplatform.StaticLibraryBinarySpec.html)
* [NativeTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.NativeTestSuiteBinarySpec.html)
* [CUnitTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteBinarySpec.html)
* [GoogleTestTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteBinarySpec.html)
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### Native component task types

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DependencySubstitutions

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| API Documentation: | [DependencySubstitutions](http://docs.google.com/javadoc/org/gradle/api/artifacts/DependencySubstitutions.html) |
| --- | --- |

Note: This class is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Allows replacing dependencies with other dependencies.

Properties

No properties

Methods

| Method | Description |
| --- | --- |
| [all](http://docs.google.com/org.gradle.api.artifacts.DependencySubstitutions.html#org.gradle.api.artifacts.DependencySubstitutions:all(org.gradle.api.Action))(rule) | Incubating  Adds a dependency substitution rule that is triggered for every dependency (including transitive) when the configuration is being resolved. The action receives an instance of [DependencySubstitution](http://docs.google.com/javadoc/org/gradle/api/artifacts/DependencySubstitution.html) that can be used to find out what dependency is being resolved and to influence the resolution process. |
| [module](http://docs.google.com/org.gradle.api.artifacts.DependencySubstitutions.html#org.gradle.api.artifacts.DependencySubstitutions:module(java.lang.String))(notation) | Incubating  Create a ModuleComponentSelector from the provided input string. Strings must be in the format "{group}:{module}:{version}". |
| [project](http://docs.google.com/org.gradle.api.artifacts.DependencySubstitutions.html#org.gradle.api.artifacts.DependencySubstitutions:project(java.lang.String))(path) | Incubating  Create a ProjectComponentSelector from the provided input string. Strings must be in the format ":path". |
| [substitute](http://docs.google.com/org.gradle.api.artifacts.DependencySubstitutions.html#org.gradle.api.artifacts.DependencySubstitutions:substitute(org.gradle.api.artifacts.component.ComponentSelector))(substitutedDependency) | Incubating  DSL-friendly mechanism to construct a dependency substitution for dependencies matching the provided selector. |

Script blocks

No script blocks

Method details

[**DependencySubstitutions**](http://docs.google.com/dsl/org.gradle.api.artifacts.DependencySubstitutions.html) all([**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**DependencySubstitution**](http://docs.google.com/javadoc/org/gradle/api/artifacts/DependencySubstitution.html)> rule)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Adds a dependency substitution rule that is triggered for every dependency (including transitive) when the configuration is being resolved. The action receives an instance of [DependencySubstitution](http://docs.google.com/javadoc/org/gradle/api/artifacts/DependencySubstitution.html) that can be used to find out what dependency is being resolved and to influence the resolution process.

Example:

configurations { main }  
// add dependency substitution rules  
configurations.main.resolutionStrategy.dependencySubstitution {  
 // Use a rule to change the dependency module while leaving group + version intact  
 all { DependencySubstitution dependency ->  
 if (dependency.requested instanceof ModuleComponentSelector && dependency.requested.name == 'groovy-all') {  
 dependency.useTarget details.requested.group + ':groovy:' + details.requested.version  
 }  
 }  
 // Use a rule to replace all missing projects with module dependencies  
 all { DependencySubstitution dependency ->  
 if (dependency.requested instanceof ProjectComponentSelector) {  
 def targetProject = findProject(":${dependency.requested.path}")  
 if (targetProject == null) {  
 dependency.useTarget "org.myorg:" + dependency.requested.path + ":+"  
 }  
 }  
 }  
}

The rules are evaluated in order they are declared. Rules are evaluated after forced modules are applied (see [ResolutionStrategy.force(java.lang.Object[])](http://docs.google.com/dsl/org.gradle.api.artifacts.ResolutionStrategy.html#org.gradle.api.artifacts.ResolutionStrategy:force(java.lang.Object%5B%5D))

[**ComponentSelector**](http://docs.google.com/javadoc/org/gradle/api/artifacts/component/ComponentSelector.html) module([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) notation)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Create a ModuleComponentSelector from the provided input string. Strings must be in the format "{group}:{module}:{version}".

[**ComponentSelector**](http://docs.google.com/javadoc/org/gradle/api/artifacts/component/ComponentSelector.html) project([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) path)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Create a ProjectComponentSelector from the provided input string. Strings must be in the format ":path".

[**Substitution**](http://docs.google.com/javadoc/org/gradle/api/artifacts/DependencySubstitutions.Substitution.html) substitute([**ComponentSelector**](http://docs.google.com/javadoc/org/gradle/api/artifacts/component/ComponentSelector.html) substitutedDependency)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

DSL-friendly mechanism to construct a dependency substitution for dependencies matching the provided selector.

Examples:

configurations { main }  
configurations.main.resolutionStrategy.dependencySubstitution {  
 // Substitute project and module dependencies  
 substitute module('org.gradle:api') with project(':api')  
 substitute project(':util') with module('org.gradle:util:3.0')  
  
 // Substitute one module dependency for another  
 substitute module('org.gradle:api:2.0') with module('org.gradle:api:2.1')  
}

**Docs**

* [User Manual](http://docs.google.com/userguide/userguide.html)
* [DSL Reference](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
* [Javadoc](http://docs.google.com/javadoc/)

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