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/)
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* [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/)
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  + [Methods](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#N17236)

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* [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))
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* [publishing { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:publishing(groovy.lang.Closure))

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* [ComponentSelectionRules](http://docs.google.com/org.gradle.api.artifacts.ComponentSelectionRules.html)
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* [ExtraPropertiesExtension](http://docs.google.com/org.gradle.api.plugins.ExtraPropertiesExtension.html)
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* [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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* [IvyArtifact](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifact.html)
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* [IdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaWorkspace.html)
* [XmlFileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.XmlFileContentMerger.html)
* [FileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.FileContentMerger.html)

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* [NativeLibrarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeLibrarySpec.html)
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### Native component task types

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ComponentMetadataHandler

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

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

Allows the build to provide rules that modify the metadata of depended-on software components.

Possible uses of component metadata rules are:

* Setting the status and status scheme of a component, overriding the value specified in the component descriptor.
* Declaring whether or not a component is 'changing', thus impacting the cache behaviour of the component.

Example:

dependencies {  
 components {  
 // Set the status and status scheme for every component belonging to a module in the group "org.foo"  
 all { ComponentMetadataDetails details ->  
 if (details.id.group == "org.foo") {  
 def version = details.id.version  
 // assuming status is last part of version string  
 details.status = version.substring(version.lastIndexOf("-") + 1)  
 details.statusScheme = ["bronze", "silver", "gold", "platinum"]  
 }  
 }  
  
 // Treat all components in the module "org.foo:bar" as changing  
 withModule("org.foo:bar") { ComponentMetadataDetails details ->  
 details.changing = true  
 }  
 }  
}

Properties

No properties

Methods

| Method | Description |
| --- | --- |
| [all](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(groovy.lang.Closure))(rule) | Incubating  Adds a rule closure that may modify the metadata of any resolved software component. |
| [all](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(java.lang.Class))(rule) | Incubating  Adds a class based rule that may modify the metadata of any resolved software component. |
| [all](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(java.lang.Class,%20org.gradle.api.Action))(rule, configureAction) | Incubating  Adds a class based rule that may modify the metadata of any resolved software component. The rule itself is configured by the provided configure action. |
| [all](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(java.lang.Object))(ruleSource) | Incubating  Adds a rule that may modify the metadata of any resolved software component. |
| [all](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(org.gradle.api.Action))(rule) | Incubating  Adds a rule action that may modify the metadata of any resolved software component. |
| [withModule](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:withModule(java.lang.Object,%20groovy.lang.Closure))(id, rule) | Incubating  Adds a rule that may modify the metadata of any resolved software component belonging to the specified module. |
| [withModule](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:withModule(java.lang.Object,%20java.lang.Class))(id, rule) | Incubating  Adds a class based rule that may modify the metadata of any resolved software component belonging to the specified module. |
| [withModule](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:withModule(java.lang.Object,%20java.lang.Class,%20org.gradle.api.Action))(id, rule, configureAction) | Incubating  Adds a class based rule that may modify the metadata of any resolved software component belonging to the specified module. |
| [withModule](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:withModule(java.lang.Object,%20java.lang.Object))(id, ruleSource) | Incubating  Adds a rule that may modify the metadata of any resolved software component belonging to the specified module. |
| [withModule](http://docs.google.com/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:withModule(java.lang.Object,%20org.gradle.api.Action))(id, rule) | Incubating  Adds a rule that may modify the metadata of any resolved software component belonging to the specified module. |

Script blocks

No script blocks

Method details

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) all([**Closure**](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.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 rule closure that may modify the metadata of any resolved software component.

The supplied rule closure must declare a [ComponentMetadataDetails](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataDetails.html) as it's first parameter, allowing the component metadata to be modified.

In addition, the rule can declare additional (read-only) parameters, which may provide extra details about the component. The order of these additional parameters is not significant.

The following additional parameter types are supported:

* [IvyModuleDescriptor](http://docs.google.com/javadoc/org/gradle/api/artifacts/ivy/IvyModuleDescriptor.html) - additional Ivy-specific metadata. Rules declaring this parameter will only be invoked for components packaged as an Ivy module.

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) all([**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**ComponentMetadataRule**](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataRule.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 class based rule that may modify the metadata of any resolved software component.

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) all([**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**ComponentMetadataRule**](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataRule.html)> rule, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**ActionConfiguration**](http://docs.google.com/javadoc/org/gradle/api/ActionConfiguration.html)> configureAction)

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

Adds a class based rule that may modify the metadata of any resolved software component. The rule itself is configured by the provided configure action.

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) all([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) ruleSource)

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

Adds a rule that may modify the metadata of any resolved software component.

The ruleSource is an Object that has a single rule method annotated with [Mutate](http://docs.google.com/javadoc/org/gradle/model/Mutate.html).

This rule method:

* must return void.
* must have [ComponentMetadataDetails](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataDetails.html) as the first parameter.
* may have an additional parameter of type [IvyModuleDescriptor](http://docs.google.com/javadoc/org/gradle/api/artifacts/ivy/IvyModuleDescriptor.html).

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) all([**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**ComponentMetadataDetails**](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataDetails.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 rule action that may modify the metadata of any resolved software component.

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) withModule([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) id, [**Closure**](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.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 rule that may modify the metadata of any resolved software component belonging to the specified module.

The rule closure parameter is subject to the same requirements as [ComponentMetadataHandler.all(groovy.lang.Closure)](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(groovy.lang.Closure)).

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) withModule([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) id, [**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**ComponentMetadataRule**](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataRule.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 class based rule that may modify the metadata of any resolved software component belonging to the specified module.

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) withModule([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) id, [**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<? extends [**ComponentMetadataRule**](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataRule.html)> rule, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**ActionConfiguration**](http://docs.google.com/javadoc/org/gradle/api/ActionConfiguration.html)> configureAction)

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

Adds a class based rule that may modify the metadata of any resolved software component belonging to the specified module.

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) withModule([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) id, [**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) ruleSource)

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

Adds a rule that may modify the metadata of any resolved software component belonging to the specified module.

The rule source parameter is subject to the same requirements as [ComponentMetadataHandler.all(java.lang.Object)](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html#org.gradle.api.artifacts.dsl.ComponentMetadataHandler:all(java.lang.Object)).

[**ComponentMetadataHandler**](http://docs.google.com/dsl/org.gradle.api.artifacts.dsl.ComponentMetadataHandler.html) withModule([**Object**](http://download.oracle.com/javase/8/docs/api/java/lang/Object.html) id, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super [**ComponentMetadataDetails**](http://docs.google.com/javadoc/org/gradle/api/artifacts/ComponentMetadataDetails.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 rule that may modify the metadata of any resolved software component belonging to the specified module.

**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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