

Updating Cocoon (2.1 legacy document)

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Warning:

This document was copied as is from the Cocoon 2.1 documentation, but has not yet been fully reviewed or moved to its new home.

1. Updating Cocoon

Please take your time to read this document completely before trying to upgrade from a Cocoon 2.1.x installation to 2.2 (or above). You can also read it if you want to know what was going on in the development of Cocoon. If you want to upgrade from an 2.0.x installation, please read the instructions [here](#), first.

THIS DOCUMENTATION IS ALPHA AS WELL AS THE CURRENT DEVELOPMENT FOR 2.2, so use this information with great care. It might be that we don't have added everything and (more important) it might be that we revert some changes detailed here.

The Cocoon team took great care in making this new version as compatible as possible. However, in order to achieve even more flexibility, usability and performance, the internal architecture of Cocoon has been improved. Due to these improvements it has not been possible to be compatible in every little detail. If you follow the instructions of this document closely, however, you should be able to quickly upgrade your Cocoon 2.1.x installation.

In general, a good advice is that you avoid any calls to private or deprecated API. If you are calling deprecated API, look up for an alternative. In most case this is documented in the java docs. If not or if you are calling private API please ask on the mailing lists for the "right way".

2. Updating Your Application

Currently, updating your application from an older version to the latest version of Cocoon has to be done manually (but we are working on a better solution!).

We suggest you, that you start from a clean Cocoon installation and incorporate your changes into the cocoon.xconf, the sitemap etc. This is in most cases much easier than starting with your old application and adapting it for Cocoon 2.2.x.

3. Sitemap Changes

3.1. Mime-Types and Readers

The way, a reader sets the mime-type has changed. Now the following algorithm is used:

1. If the reader instance has a mime-type definition, it is used.
2. If the used reader has a mime-type definition, it is used.
3. If both are not set, the reader itself has to provide the mime-type.

You can find further information in [bug entry 10277](#).

4. Recompilation

As detailed below some deprecated classes and methods have been removed, therefore the easiest way to detect if you are affected is to recompile your code. If during compilation an error occurs have a look in the sections below on what to change.

5. Internal Processing

The internal processing of Cocoon has been improved, therefore some deprecated methods have been removed to clean up the code.

5.1. Environment Interface

The deprecated *getOutputStream* method of the *Environment* interface has been removed. Use the *getOutputStream(int)* method instead.

In addition some methods of the Environment interface have been changed, removed and added. The environment is now free from any dependencies to the Cocoon core and it is easier to create own environments.

5.2. Cocoon Source Resolver Interface

The deprecated *resolve* method of the *org.apache.cocoon.environment.SourceResolver* interface has been removed. Use the *resolveURI* and the *release* method instead.

In addition the following interfaces and implementations have been removed in favour of their new versions:

- *org.apache.cocoon.environment.Source* : Use the *org.apache.excalibur.source.Source* interface instead.
- *org.apache.cocoon.environment.ModifiableSource* - Excalibur SourceResolver
- *org.apache.cocoon.environment.URLFactorySourceResolver* - Not needed anymore
- *org.apache.cocoon.environment.WritableSource* - Excalibur SourceResolver
- *org.apache.cocoon.components.source.AbstractSAXSource* - Not needed anymore>
- *org.apache.cocoon.components.source.AbstractStreamSource* - Not needed anymore
- *org.apache.cocoon.components.source.AbstractStreamWritableSource* - Not needed anymore
- *org.apache.cocoon.components.source.CocoonSourceFactory* - Not needed anymore
- *org.apache.cocoon.components.source.DelayedRefreshSourceWrapper* -
org.apache.cocoon.components.source.impl.DelayedRefreshSourceWrapper
- *org.apache.cocoon.components.source.FileSource* - Excalibur SourceResolver
- *org.apache.cocoon.components.source.FileSourceFactory* - Not needed anymore
- *org.apache.cocoon.components.source.ModifiableTraversableSource* - Excalibur SourceResolver
- *org.apache.cocoon.components.source.SitemapSource* -
org.apache.cocoon.components.source.impl.SitemapSource
- *org.apache.cocoon.components.source.SourceFactory* -
org.apache.cocoon.components.source.impl.SitemapSourceFactory
- *org.apache.cocoon.components.source.SourceHandler* - Not needed anymore
- *org.apache.cocoon.components.source.SourceHandlerImpl* - Not needed anymore
- *org.apache.cocoon.components.source.TraversableSource* - Excalibur SourceResolver
- *org.apache.cocoon.components.source.URLSource* - Excalibur SourceResolver
- *org.apache.cocoon.components.source.impl.AvalonToCocoonSource* - Not needed anymore
- *org.apache.cocoon.components.source.impl.AvalonToCocoonSourceInvocationHandler* - Not needed anymore
- *org.apache.cocoon.components.source.impl.CocoonToAvalonSource* - Not needed anymore
- *org.apache.cocoon.components.source.impl.SourceFactoryWrapper* - Not needed anymore
- *org.apache.cocoon.components.source.impl.URLFactoryWrapper* - Not needed anymore
- *org.apache.cocoon.components.url.ContextURLFactory* -
org.apache.cocoon.components.source.impl.ContextSourceFactory
- *org.apache.cocoon.components.url.ResourceURLFactory* - Excalibur SourceResolver
- *org.apache.cocoon.components.url.URLFactory* - Not needed anymore

- *org.apache.cocoon.components.url.URLFactoryImpl* - Not needed anymore
- *org.apache.cocoon.xml.XMLizable* - Excalibur SourceResolver

5.3. XML Parsing

- *org.apache.cocoon.components.parser.JaxpParser* - Excalibur XMLUtils
- *org.apache.cocoon.components.parser.Parser* - Excalibur XMLUtils
- *org.apache.cocoon.components.parser.PooledJaxpParser* - Excalibur XMLUtils
- *org.apache.cocoon.components.parser.XercesParser* - Excalibur XMLUtils

5.4. XML Entity Resolver

- *org.apache.cocoon.components.resolver.Resolver* - Excalibur XMLUtils
- *org.apache.cocoon.components.resolver.ResolverImpl* - Excalibur XMLUtils

5.5. Stores

- *org.apache.cocoon.components.store.FilesystemStore* - Excalibur Store
- *org.apache.cocoon.components.store.JispFilesystemStore* - Excalibur Store
- *org.apache.cocoon.components.store.JispStringKey* - Excalibur Store
- *org.apache.cocoon.components.store.MemoryStore* - Excalibur Store
- *org.apache.cocoon.components.store.MRUMemoryStore* - Excalibur Store
- *org.apache.cocoon.components.store.Store* - Excalibur Store
- *org.apache.cocoon.components.store.StoreJanitor* - Excalibur Store
- *org.apache.cocoon.components.store.StoreJanitorImpl* - Excalibur Store
- *org.apache.cocoon.components.store.impl.DefaultPersistentStore* - JCS Store

5.6. XSLT Processor

- *org.apache.cocoon.components.xslt.XSLTProcessor* - Excalibur XMLUtils
- *org.apache.cocoon.components.xslt.XSLTProcessorImpl* - Excalibur XMLUtils

5.7. Sitemap Components

- *org.apache.cocoon.components.treeprocessor.MapStackResolver* -
org.apache.cocoon.components.treeprocessor.variables.VariableResolverFactory
- *org.apache.cocoon.matching.RegexpTargetHostMatcher* -
org.apache.cocoon.matching.RegexpHostMatcher
- *org.apache.cocoon.matching.RequestParamMatcher* -
org.apache.cocoon.matching.RequestParameterMatcher
- *org.apache.cocoon.matching.WildcardParameterValueMatcher* -
org.apache.cocoon.matching.WildcardRequestParameterMatcher
- *org.apache.cocoon.matching.helpers.WildcardURIMatcher* -
org.apache.cocoon.matching.helpers.WildcardHelper
- *org.apache.cocoon.selection.RequestSelector* -
org.apache.cocoon.selection.RequestParameterSelector
- *org.apache.cocoon.selection.SessionStateSelector* -
org.apache.cocoon.selection.SessionAttributeSelector
- *org.apache.cocoon.sitemap.SitemapRedirector* - Removed
- *org.apache.cocoon.sitemap.XSLTFactoryLoader* - Removed
- *org.apache.cocoon.transformation.CachingCIncludeTransformer* -
org.apache.cocoon.transformation.CIncludeTransformer

- *org.apache.cocoon.transformation.helpers.MirrorRecorder* - Different alternatives, e.g. *ParamSaxBuffer*

5.8. Request Lifecycle Components

The deprecated class *org.apache.cocoon.components.RequestLifecycleComponent* and the deprecated class *org.apache.cocoon.components.GlobalRequestLifecycleComponent* have been removed. Use the *org.apache.cocoon.components.persistence.RequestDataStore* component instead.

6. Caching

Although the basic caching mechanism is still the same (each sitemap component in the pipeline is queried), the interfaces for a component have been improved as well.

The following deprecated interfaces and classes have been removed from the *org.apache.cocoon.caching* package:

- *Cacheable* : Use the *CacheableProcessingComponent* interface that is very similar.
- *CacheValidity* : Is replaced by *SourceValidity*.
- *AggregatedCacheValidity* - Excalibur SourceResolver
- *CompositeCacheValidity* - Excalibur SourceResolver
- *DeltaTimeCacheValidity* - Excalibur SourceResolver
- *IncludeCacheValidity* - Excalibur SourceResolver
- *NOPCacheValidity* - Excalibur SourceResolver
- *ParametersCacheValidity* - Excalibur SourceResolver
- *TimeStampCacheValidity* - Excalibur SourceResolver
- *CacheValidityToSourceValidity*
- *SourceCacheValidity*
- *CachedEventObject* : Is replaced by *CachedResponse*.
- *CachedStreamObject* : Is replaced by *CachedResponse*.

Some other interfaces and implementations, like the validity of the cached information have moved to the source package in Avalon Excalibur.

1. Comments

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