OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

org.springframework.context

Interface ConfigurableApplicationContext

All Superinterfaces:

ApplicationContext, ApplicationEventPublisher, AutoCloseable, BeanFactory, Closeable, EnvironmentCapable, HierarchicalBeanFactory, Lifecycle, ListableBeanFactory, MessageSource, ResourceLoader, ResourcePatternResolver

All Known Subinterfaces:

ConfigurablePortletApplicationContext, ConfigurableWebApplicationContext

All Known Implementing Classes:

AbstractApplicationContext, AbstractRefreshableApplicationContext,
AbstractRefreshableConfigApplicationContext, AbstractRefreshablePortletApplicationContext,
AbstractRefreshableWebApplicationContext, AbstractXmlApplicationContext,
AnnotationConfigApplicationContext, AnnotationConfigWebApplicationContext,
ClassPathXmlApplicationContext, FileSystemXmlApplicationContext, GenericApplicationContext,
GenericGroovyApplicationContext, GenericWebApplicationContext, GenericXmlApplicationContext,
GroovyWebApplicationContext, ResourceAdapterApplicationContext, StaticApplicationContext,
StaticPortletApplicationContext, StaticWebApplicationContext, XmlPortletApplicationContext,
XmlWebApplicationContext

public interface ConfigurableApplicationContext extends ApplicationContext, Lifecycle, Closeable

SPI interface to be implemented by most if not all application contexts. Provides facilities to configure an application context in addition to the application context client methods in the ApplicationContext interface.

Configuration and lifecycle methods are encapsulated here to avoid making them obvious to ApplicationContext client code. The present methods should only be used by startup and shutdown code.

Since:

03.11.2003

Author:

Juergen Hoeller, Chris Beams

Field Summary

Fields Modifier and Type Field and Description static String CONFIG_LOCATION_DELIMITERS Any number of these characters are considered delimiters between multiple context config paths in a single String value. static String CONVERSION_SERVICE_BEAN_NAME Name of the ConversionService bean in the factory.

static String	ENVIRONMENT_BEAN_NAME Name of the Environment bean in the factory.
static String	LOAD_TIME_WEAVER_BEAN_NAME Name of the LoadTimeWeaver bean in the factory.
static String	SYSTEM_ENVIRONMENT_BEAN_NAME Name of the System environment bean in the factory.
static String	SYSTEM_PROPERTIES_BEAN_NAME Name of the System properties bean in the factory.

Fields inherited from interface org.springframework.beans.factory.BeanFactory

FACTORY_BEAN_PREFIX

Fields inherited from interface org.springframework.core.io.support.ResourcePatternResolver

CLASSPATH_ALL_URL_PREFIX

Fields inherited from interface org.springframework.core.io.ResourceLoader

CLASSPATH_URL_PREFIX

Method Summary

	All Methods	Instance Methods	Abstract Methods	
Modifier and Type		e	Method and Description	
	void		addApplicationListener(ApplicationListener listener) Add a new ApplicationListener that will be notified on context events such as context refresh and context shutdown.	
	void		addBeanFactoryPostProcessor (BeanFactoryPostProcessor postProcess Add a new BeanFactoryPostProcessor that will get applied to the internal bean factory of this application context on refresh, before any of the bean definitions get evaluated.	or)
	void		addProtocolResolver(ProtocolResolver resolver) Register the given protocol resolver with this application context, allowing for additional resource protocols to be handled.	
	void		<pre>close() Close this application context, releasing all resources and locks that the implementation might hold.</pre>	
	ConfigurableL	istableBeanFactory	getBeanFactory() Return the internal bean factory of this application context.	
	ConfigurableE	nvironment	<pre>getEnvironment() Return the Environment for this application context in configurable form, allowing for further customization.</pre>	

boolean isActive()

Determine whether this application context is active, that is, whether it has been

refreshed at least once and has not been closed yet.

void refresh()

Load or refresh the persistent representation of the configuration, which might an

XML file, properties file, or relational database schema.

void registerShutdownHook()

Register a shutdown hook with the JVM runtime, closing this context on JVM

shutdown unless it has already been closed at that time.

Set the Environment for this application context.

void setId(String id)

Set the unique id of this application context.

void setParent(ApplicationContext parent)

Set the parent of this application context.

Methods inherited from interface org.springframework.context.ApplicationContext

getApplicationName, getAutowireCapableBeanFactory, getDisplayName, getId, getParent,
getStartupDate

Methods inherited from interface org.springframework.beans.factory.ListableBeanFactory

containsBeanDefinition, findAnnotationOnBean, getBeanDefinitionCount, getBeanDefinitionNames, getBeanNamesForAnnotation, getBeanNamesForType, getBeanNamesForType, getBeanNamesForType, getBeanSOfType, getBeanSOfType, getBeansWithAnnotation

Methods inherited from interface org.springframework.beans.factory.HierarchicalBeanFactory

containsLocalBean, getParentBeanFactory

Methods inherited from interface org.springframework.beans.factory.BeanFactory

containsBean, getAliases, getBean, getBean, getBean, getBean, getBean, getBean, getType, isPrototype, isSingleton, isTypeMatch, isTypeMatch

Methods inherited from interface org.springframework.context.MessageSource

getMessage, getMessage

Methods inherited from interface org.springframework.context.ApplicationEventPublisher

publishEvent, publishEvent

Methods inherited from

interface org.springframework.core.io.support.ResourcePatternResolver

getResources

Methods inherited from interface org.springframework.core.io.ResourceLoader

getClassLoader, getResource

Methods inherited from interface org.springframework.context.Lifecycle

isRunning, start, stop

Field Detail

CONFIG_LOCATION_DELIMITERS

static final String CONFIG_LOCATION_DELIMITERS

Any number of these characters are considered delimiters between multiple context config paths in a single String value.

See Also:

AbstractRefreshableConfigApplicationContext.setConfigLocation(java.lang.String), ContextLoader.CONFIG_LOCATION_PARAM, FrameworkServlet.setContextConfigLocation(java.lang.String), Constant Field Values

CONVERSION_SERVICE_BEAN_NAME

static final String CONVERSION_SERVICE_BEAN_NAME

Name of the ConversionService bean in the factory. If none is supplied, default conversion rules apply.

Since:

3.0

See Also:

ConversionService, Constant Field Values

LOAD_TIME_WEAVER_BEAN_NAME

static final String LOAD_TIME_WEAVER_BEAN_NAME

Name of the LoadTimeWeaver bean in the factory. If such a bean is supplied, the context will use a temporary ClassLoader for type matching, in order to allow the LoadTimeWeaver to process all actual bean classes.

Since:

2.5

See Also:

LoadTimeWeaver, Constant Field Values

ENVIRONMENT_BEAN_NAME

static final String ENVIRONMENT_BEAN_NAME

Name of the Environment bean in the factory.

Since:

3.1

See Also:

Constant Field Values

SYSTEM_PROPERTIES_BEAN_NAME

static final String SYSTEM_PROPERTIES_BEAN_NAME

Name of the System properties bean in the factory.

See Also:

System.getProperties(), Constant Field Values

SYSTEM ENVIRONMENT BEAN NAME

static final String SYSTEM_ENVIRONMENT_BEAN_NAME

Name of the System environment bean in the factory.

See Also:

System.getenv(), Constant Field Values

Method Detail

setId

void setId(String id)

Set the unique id of this application context.

Since:

3.0

setParent

void setParent(ApplicationContext parent)

Set the parent of this application context.

Note that the parent shouldn't be changed: It should only be set outside a constructor if it isn't available when an object of this class is created, for example in case of WebApplicationContext setup.

Parameters:

parent - the parent context

See Also:

 ${\tt Configurable Web Application Context}$

setEnvironment

void setEnvironment(ConfigurableEnvironment environment)

Set the Environment for this application context.

Parameters:

environment - the new environment

Since:

3.1

getEnvironment

ConfigurableEnvironment getEnvironment()

Return the Environment for this application context in configurable form, allowing for further customization.

Specified by:

getEnvironment in interface EnvironmentCapable

Since:

3.1

addBeanFactoryPostProcessor

void addBeanFactoryPostProcessor(BeanFactoryPostProcessor postProcessor)

Add a new BeanFactoryPostProcessor that will get applied to the internal bean factory of this application context on refresh, before any of the bean definitions get evaluated. To be invoked during context configuration.

Parameters:

postProcessor - the factory processor to register

addApplicationListener

void addApplicationListener(ApplicationListener<?> listener)

Add a new Application Listener that will be notified on context events such as context refresh and context shutdown.

Note that any ApplicationListener registered here will be applied on refresh if the context is not active yet, or on the fly with the current event multicaster in case of a context that is already active.

Parameters:

listener - the ApplicationListener to register

See Also:

ContextRefreshedEvent, ContextClosedEvent

addProtocolResolver

void addProtocolResolver(ProtocolResolver resolver)

Register the given protocol resolver with this application context, allowing for additional resource protocols to be handled.

Any such resolver will be invoked ahead of this context's standard resolution rules. It may therefore also override any default rules.

Since:

4.3

refresh

Load or refresh the persistent representation of the configuration, which might an XML file, properties file, or relational database schema.

As this is a startup method, it should destroy already created singletons if it fails, to avoid dangling resources. In other words, after invocation of that method, either all or no singletons at all should be instantiated.

Throws:

BeansException - if the bean factory could not be initialized

IllegalStateException - if already initialized and multiple refresh attempts are not supported

registerShutdownHook

```
void registerShutdownHook()
```

Register a shutdown hook with the JVM runtime, closing this context on JVM shutdown unless it has already been closed at that time.

This method can be called multiple times. Only one shutdown hook (at max) will be registered for each context instance.

See Also:

Runtime.addShutdownHook(java.lang.Thread), close()

close

void close()

Close this application context, releasing all resources and locks that the implementation might hold. This includes destroying all cached singleton beans.

Note: Does *not* invoke close on a parent context; parent contexts have their own, independent lifecycle.

This method can be called multiple times without side effects: Subsequent close calls on an already closed context will be ignored.

Specified by:

close in interface AutoCloseable

Specified by:

close in interface Closeable

isActive

boolean isActive()

Determine whether this application context is active, that is, whether it has been refreshed at least once and has not been closed yet.

Returns:

whether the context is still active

See Also:

refresh(), close(), getBeanFactory()

getBeanFactory

```
ConfigurableListableBeanFactory getBeanFactory() throws IllegalStateException
```

Return the internal bean factory of this application context. Can be used to access specific functionality of the underlying factory.

Note: Do not use this to post-process the bean factory; singletons will already have been instantiated before. Use a BeanFactoryPostProcessor to intercept the BeanFactory setup process before beans get touched.

Generally, this internal factory will only be accessible while the context is active, that is, inbetween refresh() and close(). The isActive() flag can be used to check whether the context is in an appropriate state.

Returns:

the underlying bean factory

Throws

IllegalStateException - if the context does not hold an internal bean factory (usually if refresh() hasn't been called yet or if close() has already been called)

See Also:

```
isActive(), refresh(), close(),
addBeanFactoryPostProcessor(org.springframework.beans.factory.config.BeanFactoryPostProcessor)
```

Spring Framework

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