InQuira External API Reference Guide
Draft

Package
com.inquira.config

com.inquira.config
Class AggregateIdAwareController

```
java.lang.Object
    |
    +-com.inquira.config.AbstractController
         |
         +-com.inquira.config.AggregateIdAwareController
```

All Implemented Interfaces:
> Controller, Controller

Direct Known Subclasses:
> CustomCrawlerConfigController

---

public abstract class **AggregateIdAwareController**
extends AbstractController
implements Controller, Controller

All `controllers` that want to know what the name or index for this elements is in a map or list respecitively need to extend from this class and implement the `get(String, Object)` method.

Constructor Summary

public	`AggregateIdAwareController`()

Method Summary

Object	`get`(Object value) If a AggregateIdAwareController get called with this method something when wrong because we need the aggregate id to be passed to the `get(String, Object)` method of the controller.
abstract Object	`get`(String name, Object value) Implement this method in a aggregate id aware controller, such as the `com.inquira.config.controllers.NamedMapController`.

Methods inherited from class `com.inquira.config.AbstractController`
get

Methods inherited from class `java.lang.Object`
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface `com.inquira.config.Controller`
get

Methods inherited from interface `com.inquira.config.Controller`
get

Constructors

AggregateIdAwareController

public **AggregateIdAwareController**()

Methods

get

```
public Object get(Object value)
   throws ConfigControllerException
```

> If a AggregateIdAwareController get called with this method something when wrong because we need the aggregate id to be passed to the get(String, Object) method of the controller.

get

```
public abstract Object get(String name,
        Object value)
   throws ConfigControllerException
```

> Implement this method in a aggregate id aware controller, such as the com.inquira.config.controllers.NamedMapController.

com.inquira.config
Class ConfigControllerException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.InquiraException
                │
                +-com.inquira.config.ConfigException
                    │
                    +-com.inquira.config.ConfigControllerException
```

All Implemented Interfaces:
> Serializable, com.inquira.log.Loggable

---

public class **ConfigControllerException**
extends ConfigException

Fields inherited from class com.inquira.infra.InquiraException

APPLICATION_FATAL, TRANSACTION_PERMANENT, TRANSACTION_RETRY, UNKNOWN

Constructor Summary

public	ConfigControllerException(String id)
public	ConfigControllerException(String id, Object[] args, Throwable ce)
public	ConfigControllerException(Object[] args)
public	ConfigControllerException(Object o)
public	ConfigControllerException(Object o, Throwable t)
public	ConfigControllerException(Throwable t)

Methods inherited from class com.inquira.infra.InquiraException

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage, getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace, getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID, getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf, printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString, toFirstAndLastString, toFullString, toFullString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

---

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface `com.inquira.log.Loggable`

`printLogString`

Constructors

ConfigControllerException

public **ConfigControllerException**(String id)

ConfigControllerException

public **ConfigControllerException**(String id,
                                     Object[] args,
                                     Throwable ce)

ConfigControllerException

public **ConfigControllerException**(Object[] args)

ConfigControllerException

public **ConfigControllerException**(Object o)

ConfigControllerException

public **ConfigControllerException**(Object o,
                                     Throwable t)

ConfigControllerException

public **ConfigControllerException**(Throwable t)

com.inquira.config
Interface Controller

All Known Implementing Classes:
    CustomCrawlerConfigController, AggregateIdAwareController

---

public interface **Controller**

Defines the interface for classes that create Java objects from the XML based configuration data.

Method Summary

Object	get(Object value) Returns the Java object that correspondes to the data passed in through value

Methods

get

```
public Object get(Object value)
  throws ConfigControllerException
```

Returns the Java object that correspondes to the data passed in through value

Package
com.inquira.content

Content Acquisition Framework.

This package implements the Content Acquisition Framework as an implementation of the `content store service`.

com.inquira.content
Class CollectionConfig

```
java.lang.Object
    │
    +-com.inquira.content.CollectionConfig
```

All Implemented Interfaces:
> IContentLogConstants, Cloneable

Direct Known Subclasses:
> CrawlerConfig

---

public abstract class **CollectionConfig**
extends Object
implements Cloneable, IContentLogConstants

This class abstracts all common configurations for a collection. Since the collection configuration object is back by the configuration service, any operation must take place on a cloned copy of the collection configuration object stored in the configuration service.
 Therefore CollectionConfiguration object should only be obtained through the following methods:

- CollectionUtils.getConfiguredCollectionsMap()
- CollectionUtils.getConfiguredCollections()
- CollectionUtils.getConfiguredUnstructuredCollections()

Fields inherited from interface com.inquira.content.IContentLogConstants

```
ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE,
BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR,
CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER,
CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT,
COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED,
COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL,
COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED,
CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT,
DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED,
DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST,
DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL,
DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED,
DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED,
DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR,
EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS,
GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR,
INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT,
MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP,
MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED,
NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME,
NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE,
NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS,
NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID,
NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK,
SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD,
UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR
```

Fields inherited from interface `com.inquira.log.ILogConstants`
BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL, CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG, EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS, LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID, LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY, MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE, TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM, TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM, TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM, TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG, VERBOSITY, WARN_MSG

Method Summary

void	**addDocumentToCache**(Document doc) this method should implement caching of Document objects by doc it.
void	**applyDocumentAttributeSelectors**(Document doc) Identifies the document attributes for this document.
boolean	**applyDocumentFilters**(Document doc) Checks if a document passed the document filters.
boolean	**applyDocumentFilters**(Document doc, CrawlRuleStatus crs) Checks if a document passed the document filters.
void	**applyDocumentSupertitleSelectors**(Document doc) Idenitifies the super titles for this document.
String	**buildDisplayURL**(Document doc) Builds the display URL by invoking the url builder if one is defined, else the fetch URL is used.
Object	**clone**() Clones this collection configuration object.
boolean	**containsProtectedContent**() Indicates if the documents in this collection contains protected content.
void	**detectDocumentEncoding**(Document doc) Detects and sest the document's encoding
void	**detectDocumentLanguage**(String text, Document doc)
void	**detectDocumentLocale**(Document doc)
void	**detectDocumentType**(Document doc) Returns the `document type detector` used for this collection.
boolean	**fetchExistingContent**() Returns flag if crawler requires knowledge of previously crawled content to find content changes.
boolean	**generatesIQXML**() Returns flag whether this collection only generates IQXML directly so that the document convertion step and be omitted.

CollectionInfo	getCollection()	
	Retrieve {link Collection collection information} for this collection.	
String	getCollectionName()	
	Returns the collection name.	
Collection	getContent(com.inquira.common.ContentStore cs)	
	Retrieves the documents store in the content store for this collection.	
abstract Crawler	getCrawler()	
	Returns a new {link Crawler crawle} object with the appropriate configuration set.	
abstract ContentSourceType	getCSType()	
CharacterEncoding	getDefaultEncoding()	
	Returns the default character encoding for this collection.	
com.inquira.util.i18n .Language	getDefaultLanguage()	
	Returns the default language for this collection.	
List	getDocAttrSelectors()	
	Returns document attribute selector objects.	
List	getDocSupertitleSelectors()	
	Deprecated.	
DocumentFetchProfile	getDocumentFetchProfile()	
	deprecated	
DocumentFilter[]	getDocumentFilters()	
	Returns a list of document filters.	
Document	getDocumentFromCache(int doc_id)	
	this method should implement caching of Document objects by doc it.	
List	getGlobalCrawlRules()	
	Returns a List of the RegexRule objects which are the global crawl rules for this collection.	
PreprocessingFilter	getPreprocessingFilter()	
	Returns collection based customization logic for document convertion.	
int	getRankingIterations()	
	Returns internal counter used for document ranking calculation.	
com.inquira.scheduler .job.TaskStatus	getTaskStatus()	
	Returns the currently active task status object.	
int	getTransferSizeLimit()	
	Returns the maximum number of bytes that should be used to hold document data during the content acquisition process.	
IURLBuilder	getURLBuilder()	
	Returns the url builder for this collection.	
RegExpURLCheck	getURLChecker()	
	Gets the RegExpURLCheck configured for this crawler which can be used to check if a url is allowed or rejected.	

List	**getUrlChecks**() Returns the list of objects that determine if documents should be accepted based on their URLs.
Map	**getValidationConditions**() Gets the collection validation conditions that determine if the result of a content processing task is acceptable.
boolean	**hasUnstructuredAttribute**() Returns flag determining if content from this collection should be used for unstructured search.
void	**initializeURLChecker**() Initializes the URL validation objects prior to using it.
boolean	**isAllowedByCrawlRules**(Document doc) Checks whether a document passes the crawl rules.
abstract boolean	**isModifiedDocument**(Document currentDocument, Document newDocument) This method is called to determine if a document has changed from a prior crawl.
boolean	**prepDocument**(com.inquira.scheduler.job.TaskStatus status, Document doc, int count, Integer size) Peforms document convertion for a single document during content acquisition rather than it's own task.
void	**setCollection**(CollectionInfo collection) Sets the collection information object for this collection.
void	**setCollectionName**(String collectionName) Sets the collection name in a local variable.
void	**setContainsProtectedContent**(boolean flag) Sets the flag indicating if the content in this collection contains protect content.
void	**setDefaultEncoding**(CharacterEncoding encoding) Sets the default character encoding for this collection.
void	**setDefaultLanguage**(com.inquira.util.i18n.Language language) Sets the default language for this collection.
void	**setDocumentAttributeSelectors**(List selectors) Sets the document attribute selectors used for this collection.
void	**setDocumentFetchProfile**(DocumentFetchProfile dfc) deprecated
void	**setDocumentFilters**(List docFilters) Set the document filters to apply for documents in the collection.
void	**setDocumentSupertitleSelectors**(List selectors) Sets the super title selectors used for this collection.
void	**setDocumentTypeDetector**(DocumentTypeDetector docTypeDetector) Set the `document type detector` used for this collection.
void	**setGlobalCrawlRules**(List globalCrawlRules) Set global crawl rule list.

void	**setHasUnstructuredAttribute**(boolean b) Sets flag determining if content from this collection should be used for unstructured search.
void	**setPreprocessingFilter**(PreprocessingFilter prepFilter) Sets collection based customization logic for document conversion.
void	**setRankingIterations**(int rankingIterations) Sets internal counter used for document ranking calculation.
void	**setShouldPrepAtCrawltime**(boolean newValue) Sets flag whether document conversion should occur during content acquisition.
void	**setTaskStatus**(com.inquira.scheduler.job.TaskStatus taskStatus) Sets the internal task status object, so that it can be accessed more easily.
void	**setTransferSizeLimit**(int newSize) Sets the maximum number of bytes that should be used to hold document data during the content acquisition process.
void	**setURLBuilder**(IURLBuilder urlBuilder) Sets the url builder for this collection.
void	**setUrlChecks**(List urlChecks) Sets the list of objects that determine if documents should be accepted based on their URLs.
void	**setValidationConditions**(Map conditionMap) Sets the collection validation conditions that determine if the result of a content processing task is acceptable.
boolean	**shouldPrepAtCrawltime**() Returns flag whether document conversion should occur during content acquisition.
void	**shutdownPreprocessor**() Shuts down the preprocessor and releases all resources after the document conversion of all documents has completed whne document conversion is performed during content acquisition.
String	**toString**() Returns identity information about this collection configuration object.
static void	**validateCollectionName**(String name) Validates if the collection name is valid.

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods

isModifiedDocument

```
public abstract boolean isModifiedDocument(Document currentDocument,
        Document newDocument)
```

This method is called to determine if a document has changed from a prior crawl.

hasUnstructuredAttribute

public boolean **hasUnstructuredAttribute**()

Returns flag determining if content from this collection should be used for unstructured search.

setHasUnstructuredAttribute

public void **setHasUnstructuredAttribute**(boolean b)

Sets flag determining if content from this collection should be used for unstructured search.

getCrawler

public abstract Crawler **getCrawler**()
  throws CrawlerException

Returns a new {link Crawler crawle} object with the appropriate configuration set.

getContent

public Collection **getContent**(com.inquira.common.ContentStore cs)
  throws ContentStoreException

Retrieves the documents store in the content store for this collection.

setCollection

public void **setCollection**(CollectionInfo collection)

Sets the collection information object for this collection.

getCollection

public CollectionInfo **getCollection**()

Retrieve {link Collection collection information} for this collection.

getCollectionName

public String **getCollectionName**()

Returns the collection name.

setCollectionName

public void **setCollectionName**(String collectionName)

Sets the collection name in a local variable.

getDocumentFetchProfile

public DocumentFetchProfile **getDocumentFetchProfile**()

deprecated

setDocumentFetchProfile

public void **setDocumentFetchProfile**(DocumentFetchProfile dfc)

> deprecated

---

addDocumentToCache

public void **addDocumentToCache**(Document doc)

> this method should implement caching of Document objects by doc it. the default is not to cache.

---

getDocumentFromCache

public Document **getDocumentFromCache**(int doc_id)

> this method should implement caching of Document objects by doc it. the default is to return null indicating a cache-miss.

---

setTransferSizeLimit

public void **setTransferSizeLimit**(int newSize)

> Sets the maximum number of bytes that should be used to hold document data during the content acquisition process.

---

getTransferSizeLimit

public int **getTransferSizeLimit**()

> Returns the maximum number of bytes that should be used to hold document data during the content acquisition process.

---

fetchExistingContent

public boolean **fetchExistingContent**()

> Returns flag if crawler requires knowledge of previously crawled content to find content changes. By default this method returns false, requiring subclasses to override this method if this behavior is required.

---

setURLBuilder

public void **setURLBuilder**(IURLBuilder urlBuilder)

> Sets the url builder for this collection.

---

getURLBuilder

public IURLBuilder **getURLBuilder**()

> Returns the url builder for this collection.

---

buildDisplayURL

public String **buildDisplayURL**(Document doc)
  throws CrawlerException

> Builds the display URL by invoking the url builder if one is defined, else the fetch URL is used.

---

setDocumentTypeDetector

public void **setDocumentTypeDetector**(DocumentTypeDetector docTypeDetector)

> Set the `document type detector` used for this collection.

detectDocumentType

public void **detectDocumentType**([Document](#) doc)

> Returns the `document type detector` used for this collection.

detectDocumentLocale

public void **detectDocumentLocale**([Document](#) doc)

detectDocumentEncoding

public void **detectDocumentEncoding**([Document](#) doc)

> Detects and sest the document's encoding
>
> **Parameters:**
> > doc

detectDocumentLanguage

public void **detectDocumentLanguage**(String text,
        [Document](#) doc)

setDocumentFilters

public void **setDocumentFilters**(List docFilters)

> Set the document filters to apply for documents in the collection.

isAllowedByCrawlRules

public boolean **isAllowedByCrawlRules**([Document](#) doc)

> Checks whether a document passes the crawl rules.

applyDocumentFilters

public boolean **applyDocumentFilters**([Document](#) doc)

> Checks if a document passed the document filters.

applyDocumentFilters

public boolean **applyDocumentFilters**([Document](#) doc,
        CrawlRuleStatus crs)

> Checks if a document passed the document filters.

setRankingIterations

```
public void setRankingIterations(int rankingIterations)
```

> Sets internal counter used for document ranking calculation.
> **Note:** This method should only be called from the content processing framework.

getRankingIterations

```
public int getRankingIterations()
```

> Returns internal counter used for document ranking calculation.
> **Note:** This method should only be called from the content processing framework.

setDocumentSupertitleSelectors

```
public void setDocumentSupertitleSelectors(List selectors)
```

> Sets the super title selectors used for this collection.
> **Note:** This method should only be called from the content processing framework.

applyDocumentSupertitleSelectors

```
public void applyDocumentSupertitleSelectors(Document doc)
```

> Idenitifies the super titles for this document.
> **Note:** This method should only be called from the content processing framework.

setDocumentAttributeSelectors

```
public void setDocumentAttributeSelectors(List selectors)
```

> Sets the document attribute selectors used for this collection.
> **Note:** This method should only be called from the content processing framework.

applyDocumentAttributeSelectors

```
public void applyDocumentAttributeSelectors(Document doc)
```

> Identifies the document attributes for this document.
> **Note:** This method should only be called from the content processing framework.

toString

```
public String toString()
```

> Returns identity information about this collection configuration object.

setDefaultLanguage

```
public void setDefaultLanguage(com.inquira.util.i18n.Language language)
```

> Sets the default language for this collection.
> **Note:** This method should only be called from the content processing framework.

getDefaultLanguage

```
public com.inquira.util.i18n.Language getDefaultLanguage()
```

Returns the default language for this collection.

setDefaultEncoding

public void **setDefaultEncoding**(CharacterEncoding encoding)

Sets the default character encoding for this collection.
Note: This method should only be called from the content processing framework.

getDefaultEncoding

public CharacterEncoding **getDefaultEncoding**()

Returns the default character encoding for this collection.

generatesIQXML

public boolean **generatesIQXML**()

Returns flag whether this collection only generates IQXML directly so that the document convertion step and be omitted.
Note: This method should only be called from the content processing framework.

clone

public Object **clone**()

Clones this collection configuration object.
Note: This method should only be called from the content processing framework.

prepDocument

```
public boolean prepDocument(com.inquira.scheduler.job.TaskStatus status,
        Document doc,
        int count,
        Integer size)
  throws ContentStoreException
```

Peforms document convertion for a single document during content acquisition rather than it's own task.
Note: This method should only be called from the content processing framework.

shutdownPreprocessor

public void **shutdownPreprocessor**()

Shuts down the preprocessor and releases all resources after the document convertion of all documents has completed whne document convertion is performed during content acquisition.
Note: This method should only be called from the content processing framework.

containsProtectedContent

public boolean **containsProtectedContent**()

Indicates if the documents in this collection contains protected content.

setContainsProtectedContent

public void **setContainsProtectedContent**(boolean flag)

Sets the flag indicating if the content in this collection contains protect content.

validateCollectionName

```
public static void validateCollectionName(String name)
  throws IllegalCollectionNameException
```

Validates if the collection name is valid.

setValidationConditions

```
public void setValidationConditions(Map conditionMap)
```

Sets the collection validation conditions that determine if the result of a content processing task is acceptable.

getValidationConditions

```
public Map getValidationConditions()
```

Gets the collection validation conditions that determine if the result of a content processing task is acceptable.

setShouldPrepAtCrawltime

```
public void setShouldPrepAtCrawltime(boolean newValue)
```

Sets flag whether document convertion should occur during content acquisition.

shouldPrepAtCrawltime

```
public boolean shouldPrepAtCrawltime()
```

Returns flag whether document convertion should occur during content acquisition.

setPreprocessingFilter

```
public void setPreprocessingFilter(PreprocessingFilter prepFilter)
```

Sets collection based customization logic for document convertion.

getPreprocessingFilter

```
public PreprocessingFilter getPreprocessingFilter()
```

Returns collection based customization logic for document convertion.

getDocAttrSelectors

```
public List getDocAttrSelectors()
```

Returns document attribute selector objects.

getDocSupertitleSelectors

```
public List getDocSupertitleSelectors()
```

Deprecated.

Returns super title selector objects.

getDocumentFilters

public DocumentFilter[] **getDocumentFilters**()

Returns a list of document filters.

getUrlChecks

public List **getUrlChecks**()

Returns the list of objects that determine if documents should be accepted based on their URLs.

setUrlChecks

public void **setUrlChecks**(List urlChecks)

Sets the list of objects that determine if documents should be accepted based on their URLs.

getGlobalCrawlRules

public List **getGlobalCrawlRules**()

Returns a List of the RegexRule objects which are the global crawl rules for this collection.

Returns:
List of RegexRule objects

setGlobalCrawlRules

public void **setGlobalCrawlRules**(List globalCrawlRules)

Set global crawl rule list.

Parameters:
globalCrawlRules - List The List of RegexRule objects to use as global crawl rules.

getURLChecker

public RegExpURLCheck **getURLChecker**()

Gets the RegExpURLCheck configured for this crawler which can be used to check if a url is allowed or rejected.

Returns:
RegExpURLCheck The configured RegExpURLCheck for this Crawler

initializeURLChecker

public void **initializeURLChecker**()

Initializes the URL validation objects prior to using it.
 Note: This method should only be called from the content processing framework.

setTaskStatus

public void **setTaskStatus**(com.inquira.scheduler.job.TaskStatus taskStatus)

Sets the internal task status object, so that it can be accessed more easily.

getTaskStatus

public com.inquira.scheduler.job.TaskStatus **getTaskStatus**()

> Returns the currently active task status object.

getCSType

public abstract ContentSourceType **getCSType**()

com.inquira.content
Class CollectionUtils

```
java.lang.Object
    │
    +-com.inquira.content.CollectionUtils
```

All Implemented Interfaces:
      IContentLogConstants

---

public class **CollectionUtils**
extends Object
implements IContentLogConstants

This class provides access to the collection configuration objects from the configuration service.
 Note: All access to collection configuration objects need to go through this utility class since it assures that only clean copies of those objects are returned.

Fields inherited from interface `com.inquira.content.IContentLogConstants`
ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE, BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR, CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER, CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT, COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED, COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL, COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED, CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT, DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED, DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST, DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL, DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED, DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED, DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR, EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS, GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR, INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT, MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP, MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED, NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME, NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE, NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS, NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID, NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK, SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD, UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface `com.inquira.log.ILogConstants`

```
BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG
```

Method Summary

static List	**getConfiguredAttributes**() This method returns a list of all configured `document attributes`.
static List	**getConfiguredCollections**() This method returns a list of String objects containing the collection name for all configured collections.
static Map	**getConfiguredCollectionsMap**() This method returns a map, keyed by the name, for all configured collections and the value being the corresponding `collection configuration` object.
static List	**getConfiguredUnstructuredCollections**() This method returns a list of String objects containing the collection name for all unstructured searchable configured collections.

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Methods

getConfiguredCollectionsMap

```
public static Map getConfiguredCollectionsMap()
  throws ConfigException
```

This method returns a map, keyed by the name, for all configured collections and the value being the corresponding `collection configuration` object.
Note: The values are cloned version of the CollectionConfig objects obtained from the configuration service. It is **importent** to never directly use a CollectionConfig object from the configuration stroe but to use a cloned version as this method does.

getConfiguredCollections

```
public static List getConfiguredCollections()
```

This method returns a list of String objects containing the collection name for all configured collections.
Note: The values are cloned version of the CollectionConfig objects obtained from the configuration service. It is **importent** to never directly use a CollectionConfig object from the configuration stroe but to use a cloned version as this method does.

Returns:
    List String objects which are the collection names.

getConfiguredUnstructuredCollections

`public static List ` **`getConfiguredUnstructuredCollections`**`()`

This method returns a list of String objects containing the collection name for all unstructured searchable configured collections.

getConfiguredAttributes

`public static List ` **`getConfiguredAttributes`**`()`

This method returns a list of all configured `document attributes`.

`public static List ` **`getConfiguredUnstructuredCollections`**`()`

com.inquira.content
Class ContentSourceType

```
java.lang.Object
   |
   +-com.inquira.util.IQEnum
        |
        +-com.inquira.content.ContentSourceType
```

All Implemented Interfaces:
Serializable

---

public class **ContentSourceType**
extends com.inquira.util.IQEnum

This class defines constants that represent all valid content source types.

Field Summary

public static transient	[CUSTOM](#) Content source type for custom crawler.
public static transient	[DB](#) Content source type for database crawler.
public static transient	[FILE](#) Content source type for file system crawler.
public static transient	[HTTP](#) Content source type for web crawler.
public static transient	[IM](#) Content source type for Information Manager crawler.
public static transient	[IM_DISCUSSION](#) Content source type for Information Manager discussion board crawler.
public static transient	[INTERWOVEN](#) Content source type for Interwoven crawler.
public static transient	[SIEBEL](#) Content source type for Siebel crawler.
public static transient	[VIGNETTE](#) Content source type for Vignette crawler.

Constructor Summary

public	[ContentSourceType](#)()

Method Summary

static [ContentSourceType](#)	[add](#)(String name, Key configKey) Adds another content source type

---

static ContentSourceType	decode(int id) Finds the ContentSourceType that correspondes to the passed id.	
static ContentSourceType	decode(String name) Finds the ContentSourceType that correspondes to the passed name.	
Key	getConfigKey()	
static List	getInstances() Returns list off all defined content source types.	
static void	main(String[] args)	
String	toString() Returns the name of the content source type.	

Methods inherited from class `com.inquira.util.IQEnum`

equals, equals, getAliases, getId, getInstances, getInstances, getName, hashCode, toString

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

HTTP

public static transient com.inquira.content.ContentSourceType **HTTP**

Content source type for web crawler.

FILE

public static transient com.inquira.content.ContentSourceType **FILE**

Content source type for file system crawler.

DB

public static transient com.inquira.content.ContentSourceType **DB**

Content source type for database crawler.

SIEBEL

public static transient com.inquira.content.ContentSourceType **SIEBEL**

Content source type for Siebel crawler.

IM

public static transient com.inquira.content.ContentSourceType **IM**

Content source type for Information Manager crawler.

VIGNETTE

public static transient com.inquira.content.ContentSourceType **VIGNETTE**

Content source type for Vignette crawler.

INTERWOVEN

public static transient com.inquira.content.ContentSourceType **INTERWOVEN**

Content source type for Interwoven crawler.

CUSTOM

public static transient com.inquira.content.ContentSourceType **CUSTOM**

Content source type for custom crawler.

IM_DISCUSSION

public static transient com.inquira.content.ContentSourceType **IM_DISCUSSION**

Content source type for Information Manager discussion board crawler.

Constructors

ContentSourceType

public **ContentSourceType**()

Methods

add

public static [ContentSourceType](#) **add**(String name,
        Key configKey)

Adds another content source type

decode

public static [ContentSourceType](#) **decode**(int id)

Finds the ContentSourceType that correspondes to the passed id.

decode

public static [ContentSourceType](#) **decode**(String name)

Finds the ContentSourceType that correspondes to the passed name.

getInstances

public static List **getInstances**()

Returns list off all defined content source types.

toString

```
public String toString()
```

Returns the name of the content source type.

getConfigKey

```
public Key getConfigKey()
```

main

```
public static void main(String[] args)
```

toString

com.inquira.content
Class Crawler

```
java.lang.Object
    │
    +-com.inquira.content.Crawler
```

All Implemented Interfaces:
>   IContentLogConstants

---

public abstract class **Crawler**
extends Object
implements IContentLogConstants

This class abstract content access to fit into the `content service framework`. All content acquisition implementations must extend this class to be usable in the existing content service.

Fields inherited from interface `com.inquira.content.IContentLogConstants`
ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE, BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR, CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER, CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT, COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED, COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL, COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED, CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT, DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED, DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST, DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL, DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED, DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED, DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR, EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS, GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR, INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT, MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP, MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED, NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME, NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE, NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS, NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID, NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK, SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD, UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL, CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG, EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS, LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID, LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY, MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE, TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM, TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM, TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM, TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG, VERBOSITY, WARN_MSG

Method Summary

abstract void	connect(CrawlerConfig configuration) establish session/connection
void	connect(CrawlerConfig configuration, CrawlerState state) establish session/connection, by default it calls conntect(CrawlerConfig).
abstract boolean	findComplete() returns if the crawl is complete or not
abstract Collection	findContent(Collection priorContent, CrawlerConfig conf, CrawlerState state, com.inquira.scheduler.job.TaskStatus taskStatus) find all content that is currently accessible by this crawler.
Collection	findUpdatedContent(Execution cntx, CrawlerConfig conf, Collection inCurrentContent, Collection inNewContent, com.inquira.scheduler.job.TaskStatus taskStatus) code that compares two collections of documents and detects deleted, modified and new content.
Collection	getContent(CrawlerConfig conf, Collection allDocuments, int transferSizeLimit, com.inquira.scheduler.job.TaskStatus taskStatus) this methods calls the getContent method on more than one document while the size of the data does not exceed the limit set in transferSizeLimit.
abstract byte[]	getContent(CrawlerConfig conf, Document doc) get the content for the request documents
abstract ContentSourceType	getType() returns one of the predefined content source type enums.
abstract void	rundown() clean up any session/connection data
abstract void	start() marks the start of a new find operation

Methods inherited from class java.lang.Object
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

findContent

```
public abstract Collection findContent(Collection priorContent,
        CrawlerConfig conf,
        CrawlerState state,
        com.inquira.scheduler.job.TaskStatus taskStatus)
   throws CrawlerException
```

find all content that is currently accessible by this crawler.

Parameters:

priorContent - is a collection of documents that are currently in the content store. For some content acquisition methods it might be helpful to check the known files for modifications and then use this information to determine what new content is availavble. This is true for the http crawler. since it is much faster to do HEAD request than retrieving the whole site over again.

getContent

```
public abstract byte[] getContent(CrawlerConfig conf,
        Document doc)
   throws CrawlerException
```

get the content for the request documents

connect

```
public void connect(CrawlerConfig configuration,
        CrawlerState state)
   throws CrawlerException
```

establish session/connection, by default it calls conntect(CrawlerConfig).

connect

```
public abstract void connect(CrawlerConfig configuration)
   throws CrawlerException
```

establish session/connection

rundown

```
public abstract void rundown()
   throws CrawlerException
```

clean up any session/connection data

start

```
public abstract void start()
```

marks the start of a new find operation

findComplete

```
public abstract boolean findComplete()
```

returns if the crawl is complete or not

getType

```
public abstract ContentSourceType getType()
```

returns one of the predefined content source type enums.

getContent

```
public Collection getContent(CrawlerConfig conf,
          Collection allDocuments,
          int transferSizeLimit,
          com.inquira.scheduler.job.TaskStatus taskStatus)
   throws ContentStoreException
```

this methods calls the getContent method on more than one document while the size of the data does not exceed the limit set in transferSizeLimit.
Note: this method modified the argument allDocuments, so a transfer protocol must also sen this field back.

findUpdatedContent

```
public Collection findUpdatedContent(Execution cntx,
          CrawlerConfig conf,
          Collection inCurrentContent,
          Collection inNewContent,
          com.inquira.scheduler.job.TaskStatus taskStatus)
```

code that compares two collections of documents and detects deleted, modified and new content.

com.inquira.content
Class CrawlerConfig

```
java.lang.Object
    │
    +-com.inquira.content.CollectionConfig
           │
           +-com.inquira.content.CrawlerConfig
```
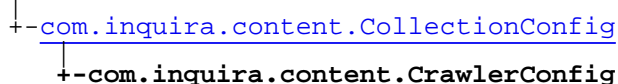
All Implemented Interfaces:
IContentLogConstants, Cloneable

Direct Known Subclasses:
CustomCrawlerConfig

---

public abstract class **CrawlerConfig**
extends CollectionConfig

Abstraction for crawler configurations.
 Only there for backward compatibility.

Fields inherited from interface com.inquira.content.IContentLogConstants

ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE,
BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR,
CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER,
CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT,
COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED,
COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL,
COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED,
CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT,
DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED,
DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST,
DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL,
DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED,
DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED,
DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR,
EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS,
GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR,
INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT,
MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP,
MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED,
NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME,
NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE,
NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS,
NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID,
NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK,
SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD,
UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface com.inquira.log.ILogConstants

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Methods inherited from class com.inquira.content.CollectionConfig

addDocumentToCache, applyDocumentAttributeSelectors, applyDocumentFilters,
applyDocumentFilters, applyDocumentSupertitleSelectors, buildDisplayURL, clone,
containsProtectedContent, detectDocumentEncoding, detectDocumentLanguage,
detectDocumentLocale, detectDocumentType, fetchExistingContent, generatesIQXML,
getCollection, getCollectionName, getContent, getCrawler, getCSType,
getDefaultEncoding, getDefaultLanguage, getDocAttrSelectors,
getDocSupertitleSelectors, getDocumentFetchProfile, getDocumentFilters,
getDocumentFromCache, getGlobalCrawlRules, getPreprocessingFilter,
getRankingIterations, getTaskStatus, getTransferSizeLimit, getURLBuilder,
getURLChecker, getUrlChecks, getValidationConditions, hasUnstructuredAttribute,
initializeURLChecker, isAllowedByCrawlRules, isModifiedDocument, prepDocument,
setCollection, setCollectionName, setContainsProtectedContent, setDefaultEncoding,
setDefaultLanguage, setDocumentAttributeSelectors, setDocumentFetchProfile,
setDocumentFilters, setDocumentSupertitleSelectors, setDocumentTypeDetector,
setGlobalCrawlRules, setHasUnstructuredAttribute, setPreprocessingFilter,
setRankingIterations, setShouldPrepAtCrawltime, setTaskStatus, setTransferSizeLimit,
setURLBuilder, setUrlChecks, setValidationConditions, shouldPrepAtCrawltime,
shutdownPreprocessor, toString, validateCollectionName

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

com.inquira.content
Class CrawlerException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.InquiraException
                │
                +-com.inquira.content.CrawlerException
```

All Implemented Interfaces:
IContentLogConstants, Serializable, com.inquira.log.Loggable

---

public class **CrawlerException**
extends InquiraException
implements com.inquira.log.Loggable, Serializable, IContentLogConstants

This `Inquira exception` signals a problem during crawler operation.

Fields inherited from class com.inquira.infra.InquiraException

APPLICATION_FATAL, TRANSACTION_PERMANENT, TRANSACTION_RETRY, UNKNOWN

Fields inherited from interface com.inquira.content.IContentLogConstants

ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE,
BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR,
CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER,
CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT,
COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED,
COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL,
COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED,
CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT,
DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED,
DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST,
DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL,
DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED,
DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED,
DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR,
EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS,
GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR,
INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT,
MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP,
MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED,
NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME,
NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE,
NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS,
NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID,
NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK,
SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD,
UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface com.inquira.log.ILogConstants

---

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

public	**CrawlerException**(com.inquira.event.EventInstance eventInstance, Throwable cause) Constructor using an event instance and cause.	
public	**CrawlerException**(String msg, Throwable cause) Constructor to set message format and cause.	
public	**CrawlerException**(String msg) Constructor to set message format.	
public	**CrawlerException**(Throwable cause) Constructor to set cause.	
public	**CrawlerException**() Constructor with no specific information.	
public	**CrawlerException**(String msg, Object[] args) Constructor to set message format and message arguments.	
public	**CrawlerException**(String msg, Object[] args, Throwable cause) Constructor to set message format, message arguments and cause.	

Methods inherited from class com.inquira.infra.InquiraException

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage,
getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace,
getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID,
getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf,
printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString,
toFirstAndLastString, toFullString, toFullString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace,
initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface com.inquira.log.Loggable

printLogString

Constructors

CrawlerException

```
public CrawlerException(com.inquira.event.EventInstance eventInstance,
                        Throwable cause)
```

Constructor using an event instance and cause.

CrawlerException

```
public CrawlerException(String msg,
                        Throwable cause)
```

Constructor to set message format and cause.

CrawlerException

```
public CrawlerException(String msg)
```

Constructor to set message format.

CrawlerException

```
public CrawlerException(Throwable cause)
```

Constructor to set cause.

CrawlerException

```
public CrawlerException()
```

Constructor with no specific information.

CrawlerException

```
public CrawlerException(String msg,
                        Object[] args)
```

Constructor to set message format and message arguments.

CrawlerException

```
public CrawlerException(String msg,
                        Object[] args,
                        Throwable cause)
```

Constructor to set message format, message arguments and cause.

com.inquira.content
Class CrawlerState

```
java.lang.Object
    │
    +-com.inquira.content.CrawlerState
```

All Implemented Interfaces:
> Serializable

---

public class **CrawlerState**
extends Object
implements Serializable

This class encapsulates the state of a crawler so that it can be persisted in the content store. The actual state objects of the crawlers themselves **may not** extend this object but should rather only implement the java.io.Serializable interface.

Constructor Summary

public	[CrawlerState]()

Method Summary

Serializable	[get]() This method gets the state of this crawler.
void	[set](Serializable state) This method set the argument as the state for this crawlers.

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

CrawlerState

public **CrawlerState**()

Methods

set

public void **set**(Serializable state)

> This method set the argument as the state for this crawlers.

---

get

```
public Serializable get()
```

> This method gets the state of this crawler.

get

```
public Serializable get()
```

> This method gets the state of this crawler.

com.inquira.content
Class Document

```
java.lang.Object
    |
    +-com.inquira.content.Document
```

All Implemented Interfaces:
> IContentLogConstants, Serializable

---

public class **Document**
extends Object
implements Serializable, IContentLogConstants

This class allows access to all information about a single document in the content store. It represents all the information that can be stored in the content store. If a crawler needs to store additional informtation during the crawl process it is intent that this class is extended and used by this crawler. Once a document is retrieved from the content store it will always be an instance of this class not of the subclass used by the crawler.

Field Summary

public static final	**compareByCollectionAndDocId** Comparator based on collection_id and then by doc_id.
public static final	**compareByDocId** Comparator based on doc_id.
public static final	**compareByExternalURL** Crawlers need to compare list of documents in the content store and in the crawled data store.
public static final	**DEFAULT_ENCODING** Defines the default character encoding.
public static final	**DEFAULT_LANGUAGE** Defines the default language.
public static final	**STATUS_FAILURE** constants used in the `status` field to indicate generic error condition. Value: **500**
public static final	**STATUS_NOT_FOUND** constants used in the `status` field to indicate that the document could not be found. Value: **404**
public static final	**STATUS_OK** constants used in the `status` field to indicate success. Value: **200**
public static final	**STATUS_UNAUTHORIZED** constants used in the `status` field to indicate security violation trying to access the document. Value: **401**

Fields inherited from interface `com.inquira.content.IContentLogConstants`

ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE,
BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR,
CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER,
CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT,
COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED,
COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL,
COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED,
CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT,
DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED,
DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST,
DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL,
DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED,
DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED,
DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR,
EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS,
GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR,
INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT,
MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP,
MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED,
NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME,
NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE,
NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS,
NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID,
NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK,
SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD,
UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

public	**Document**() Constructor for subclasses that are created during a crawl process where the collection is not know.
public	**Document**(Document orig) Constructor for subclasses initializes all the shared member fields to the values of the passed in Document.
public	**Document**(CollectionInfo collection, int count) This constructor is only for debugging/unittest purposes

Method Summary

boolean	**addAttribute**(DocumentAttribute attribute) Adds a document attribute.
boolean	**addAttribute**(String attribute, boolean permanent) Adds a document attribute.
void	**addCrawlRuleInfo**(String newInfo) Add information about the crawl rules that were applied to determine if this doucment should be indexable.
boolean	**addSupertitle**(String superTitle) Adds a super title for this document.
void	**afterUpdateHook**(boolean lastUpdate) Called after the Document data has been stored in the content store.
boolean	**checkStatusCode**() Checks if the document has a valid status code.
void	**clearModifiedContent**() Removes all modified content from this document.
void	**clearModifiedContent**(DataComponent type) Removes the content for type `type` form this document.
Set	**clearNonPermanentAttributes**() Removes all non-permanent document attributes from this document.
Set	**clearSupertitles**() Removes all super titles from this document.
void	**detectLanguage**(com.inquira.util.xml.Node n)
void	**dump**() Logs document details.
Set	**getAttributes**() Returns a set of all document attributes for this document.
long	**getChecksum**() Returns the checksum for the raw content.
static Class	**getChecksumClass**() Returns the class used to calculate the checksum field.
CollectionInfo	**getCollection**() Retrieves the collection this document is associated with.
CollectionConfig	**getCollectionConfig**() Returns the collection configuration object.
int	**getCollectionId**() Returns the collection id.
InputStream	**getCompressedInputStream**(DataComponent type) Returns the compressed input stream for data type `type`.
int	**getCompressedInputStreamLength**(DataComponent type) Returns the length of the compressed data of data type .

Map	getContentMap()	
	Returns the map of all data items that are loaded for this document into memory.	
String	getCrawlEventId()	
	Returns the event id for the content acquisition step of this document.	
String	getCrawlRuleInfo()	
	Returns information about the crawl rules that were applied to determine if this document is indexable.	
java.sql.Timestamp	getCreationTime()	
	Returns the creation timestamp for this document.	
ContentSourceType	getCSType()	
	Gets the ContentSourceType for this document.	
InputStream	getCurrentInputStream(DataComponent type)	
	Returns an input stream for data type type, from the content already loaded in memory if the data is already loaded, else access it from the content store.	
String	getDisplayURL()	
	Gets the url that should be used to retrieve the document at runtime.	
int	getDocId()	
	Retrieves the document id, this method will return -1 unless the document has been stored in the content store.	
int	getDocLevel()	
	Returns the number of level this document is removed form it's starting point.	
int	getDocSizeK()	
	Returns the raw content size in KB	
DocumentType	getDocType()	
	Gets the DocumentType for this document.	
CharacterEncoding	getEncoding()	
	Gets the document encoding.	
String	getETag()	
	Returns the ETag for an HTTP document.	
String	getExternalURL()	
	Gets the url that was used to acquire the document during the crawl process.	
String	getFetchURL()	
	Returns the fetch URL that was used to gain access to this document.	
int	getForwardLinkCount()	
	Returns the forward link count.	
InputStream	getInputStream(DataComponent type)	
	Returns an input stream for data type type.	
int	getInputStreamLength(DataComponent type)	
	Returns the length of the uncompressed data of data type .	
BufferedReader	getIQXMLReader()	
	Returns a buffered reader for the IQXML.	

int	getIQXMLWeight() Returns the configured Raw doc content size ratio to IQXML content size.
com.inquira.util.i18n .Language	getLanguage() Gets the language this document is written in.
int	getLastInputStreamLength() Returns the length of the last accessed data type.
java.sql.Timestamp	getLastModificationTime() Returns the last modification timestamp for this document.
Serializable	getMiscField(String name) Get the value for a transient name value pair.
Set	getModifiedAttributes() Returns a set of document attributes that have been modified since this document was instantiated.
Map	getModifiedContentMap() Returns a map of the data items that have been modified since this object was instatiated.
Set	getModifiedSupertitles() Returns a set of super titles that have been modified since this document was instantiated.
int	getParentDocId() Gets the document id for this parent.
String	getPrepEventId() Set the event id for the preprocessing step of this document.
double	getRanking() Returns the link based ranking for this document.
BufferedReader	getRawContentReader() Provides access to the raw content for **non-binary** documents.
double	getRecency() Returns the recency for this document.
Collection	getReferers() Returns the referring documents.
int	getStartPointID() Returns the id of the starting point that was used to discover this document.
int	getStatusCode() Returns the status code for the document access.
Set	getSupertitles() Returns a set of all super titles for this document.
int	getUniqueId() Creates a long that is unique for any document in the content store.
String	getUUID() Retrieves the UUID for this document, the UUID was first assigned when the default constructor was called.

java.sql.Timestamp	`getValidEndTime()` Returns the ending timestamp of the range this document is valid.
java.sql.Timestamp	`getValidStartTime()` Returns the starting timestamp of the range this document is valid.
boolean	`hasAttribute(DocumentAttribute attribute)` Returns if `attribute` is assocaited with this document.
boolean	`hasSupertitle(String superTitle)` Returns if `superTitle` is assocaited with this document.
void	`incForwardLinkCount()` Increments the forward link count.
boolean	`isDefaultEncoding()` Returns if the document is encoded in the default character encoding.
boolean	`isDefaultLanguage()` Returns if the document is written in the default language.
boolean	`isDeleted()` Returns flag whether this document is deleted.
boolean	`isDeletedHasChanged()` Determines if the document has been marked for deletion.
boolean	`isDirectIQXML()` Returns whether the document does not need to be preprocessed since the crawler created IQXML directly.
boolean	`isIndexingAllowed()` Returns flag whether document should be indexed.
void	`markDeleted(boolean flag)` Sets the mark for deletion flag.
Serializable	`putMiscField(String name, Serializable value)` Adds a transient name value pair for this document.
boolean	`readAttribute(String attribute, boolean permanent)` Adds a document attributebut does not mark the map of super titles to be modified.
void	`readContent(DataComponent type, DocData dd)` used to set the content read from the database so that it is not marked as changed.
boolean	`readSupertitle(String superTitle)` Adds a super title but does not mark the map of super titles to be modified.
void	`releaseContent()` Releases the content associated with this document from memory.
void	`releaseContent(DataComponent type)` Resets the content buffer but does not mark the content to be modified, so that it is not removed from the content store when the document is persisted.
void	`removeContent(DataComponent type)` Removes the content for data type `type`.

void	**setChecksum**(byte[] buffer) Calculates the checksum for the raw content.	
void	**setChecksum**(long checksum) Sets the checksum for the raw content.	
void	**setCollection**(CollectionInfo collection) Associates this document with the collection identified by the collection argument.	
void	**setContent**(DataComponent type, byte[] data) Assigns the content of the byte array as the value for the given data type for this document.	
void	**setContent**(DataComponent type, DocData dd) Sets the content dd for the data type type.	
void	**setContent**(DataComponent type, InputStream is) Assigns the content of the inputstream as the value for the given data type for this document.	
void	**setContent**(DataComponent type, String data) Assigns the content of the string as the value for the given data type for this document.	
void	**setCrawlEventId**(String crawlEventId) Set the event id for the content acquisition step of this document.	
void	**setCrawlRuleInfo**(String crawlRuleInfo) Set the information about the crawl rules that were applied to determine if this document should be indexable.	
void	**setCreationTime**(java.sql.Timestamp creationTime) Sets the creation timestamp for this document.	
void	**setCSType**(ContentSourceType csType) Sets the ContentSourceType for this document.	
void	**setDirectIQXML**(boolean flag) Sets the flag is the crawler created IQXML directly without creating RAW content, thus making preprocessing unnessary for this document.	
void	**setDisplayURL**(String displayURL) Sets the url that should be used to retrieve the document at runtime.	
void	**setDocLevel**(int docLevel) Set the number of levels (parents) this document is removed from the starting point it was crawled from.	
void	**setDocSize**(int docSize) Sets the document size in bytes	
void	**setDocSizeK**(int docSizeK) Sets the document size in KB	
void	**setDocType**(DocumentType docType) Sets the DocumentType for this document.	
void	**setEncoding**(CharacterEncoding encoding) Sets the encoding of this document.	
void	**setEncoding**(String encoding) Sets the encoding of this document.	

void	**setETag**(String etag) Stores the ETag for optional modification detection in HTTP cralwer.	
void	**setExternalURL**(String url) Sets the fetch URL used to access this document.	
void	**setFetchURL**(String fetchURL) Sets the url that was used to acquire the document during the crawl process.	
void	**setIndexingAllowed**(boolean indexingAllowed) Indicates if this document should be indexed, thus it's content to be made searchable.	
void	**setIsDeleted**(boolean flag) this method should only be called in the content store and never in a crawler.	
void	**setLanguage**(com.inquira.util.i18n.Language language) Sets the language this document is written in.	
void	**setLanguage**(String language) Sets the language this document is written in.	
void	**setLastModificationTime**(java.sql.Timestamp lastModifiedTime) Set the last modification timestamp for this document.	
void	**setParent**(Document parent) Sets the parent of this document even if the parent's document id is not known, as it can be the case where the parent and this documents are new documents (so no document id has been established for the parent yet.	
void	**setParentDocId**(int parentDocId) Sets the parent of this document if the parent's document id is known.	
void	**setPrepEventId**(String prepEventId) Set the event id for the preprocessing step of this document.	
void	**setRanking**(double ranking) Sets the link based ranking for this document.	
void	**setRecency**(double recency) Sets the recency for this document.	
void	**setReferers**(Collection referers) Sets the referring documents.	
void	**setStartPointID**(int id) Sets the id of the starting point that was used to discover this document.	
void	**setStatusCode**(int statusCode) Sets the status code for accessing this document.	
void	**setValidEndTime**(java.sql.Timestamp validEndTime) Sets the ending timestamp of the range this document is valid.	
void	**setValidStartTime**(java.sql.Timestamp validStartTime) Set the starting timestamp of the range this document is valid.	
boolean	**shouldCrawl**() Returns wheter the content of this document should be crawled.	

boolean	[shouldProcess](#)()	
	Checks wheter this document should be processed.	
void	[sync](#)([Document](#) orig)	
	Synchronizes all shared member fields of this document with the passed in Document object.	
static void	[sync](#)([Document](#) newDoc, [Document](#) orig)	
	Method synchronizes all shared member fields using reflection to find all non-static declared fields for all super classes.	
String	[toString](#)()	
	Returns identity information about this document.	

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Fields

DEFAULT_ENCODING

`public static final com.inquira.content.CharacterEncoding` **`DEFAULT_ENCODING`**

Defines the default character encoding.

DEFAULT_LANGUAGE

`public static final com.inquira.util.i18n.Language` **`DEFAULT_LANGUAGE`**

Defines the default language.

compareByExternalURL

`public static final java.util.Comparator` **`compareByExternalURL`**

Crawlers need to compare list of documents in the content store and in the crawled data store. To detect deletions, modifications and additions this can be helpfull if the external url is the primary key for access into the data store. This can also be an aggregate key created by the crawler.

compareByDocId

`public static final java.util.Comparator` **`compareByDocId`**

Comparator based on doc_id.

compareByCollectionAndDocId

`public static final java.util.Comparator` **`compareByCollectionAndDocId`**

Comparator based on collection_id and then by doc_id.

STATUS_OK

`public static final int` **`STATUS_OK`**

constants used in the `status` field to indicate success.
Constant value: **200**

STATUS_FAILURE

`public static final int` **`STATUS_FAILURE`**

constants used in the `status` field to indicate generic error condition.
Constant value: **500**

STATUS_NOT_FOUND

`public static final int` **`STATUS_NOT_FOUND`**

constants used in the `status` field to indicate that the document could not be found.
Constant value: **404**

STATUS_UNAUTHORIZED

`public static final int` **`STATUS_UNAUTHORIZED`**

constants used in the `status` field to indicate security violation trying to access the document.
Constant value: **401**

Constructors

Document

`public` **`Document`**`()`

Constructor for subclasses that are created during a crawl process where the collection is not know. It initializes the UUID to a newly generated UUID, the document Type to be unknown and the current crawl status to be not_crawled.

Document

`public` **`Document`**`(`Document` orig)`

Constructor for subclasses initializes all the shared member fields to the values of the passed in Document. It uses the `sync(Document, Document)` method to perform the work.

Document

`public` **`Document`**`(CollectionInfo collection,`
`                int count)`

This constructor is only for debugging/unittest purposes

Methods

sync

`public void` **`sync`**`(`Document` orig)`

Synchronizes all shared member fields of this document with the passed in Document object. It uses the `sync(Document, Document)` method to perform the work.

sync

```
public static void sync(Document newDoc,
        Document orig)
```

Method synchronizes all shared member fields using reflection to find all non-static declared fields for all super classes.
Note: For primitive data types the values are assigned for complex data types we assign the references to point to the same objects.

See Also:
Class.getDeclaredFields()

afterUpdateHook

```
public void afterUpdateHook(boolean lastUpdate)
  throws InquiraException
```

Called after the Document data has been stored in the content store.

getUUID

```
public String getUUID()
```

Retrieves the UUID for this document, the UUID was first assigned when the default constructor was called.

setCollection

```
public void setCollection(CollectionInfo collection)
```

Associates this document with the collection identified by the collection argument.

getCollection

```
public CollectionInfo getCollection()
```

Retrieves the collection this document is associated with.
Note: The return value can be null.

getCollectionId

```
public int getCollectionId()
```

Returns the collection id.

getDocId

```
public int getDocId()
```

Retrieves the document id, this method will return -1 unless the document has been stored in the content store.

getUniqueId

```
public int getUniqueId()
  throws InconsistencyException
```

Creates a long that is unique for any document in the content store.

setDisplayURL

```
public void setDisplayURL(String displayURL)
```

Sets the url that should be used to retrieve the document at runtime.

getDisplayURL

```
public String getDisplayURL()
```

Gets the url that should be used to retrieve the document at runtime.

setFetchURL

```
public void setFetchURL(String fetchURL)
```

Sets the url that was used to acquire the document during the crawl process.

getFetchURL

```
public String getFetchURL()
```

Returns the fetch URL that was used to gain access to this document.

setExternalURL

```
public void setExternalURL(String url)
```

Sets the fetch URL used to access this document.

getExternalURL

```
public String getExternalURL()
```

Gets the url that was used to acquire the document during the crawl process.

getStartPointID

```
public int getStartPointID()
```

Returns the id of the starting point that was used to discover this document.

setStartPointID

```
public void setStartPointID(int id)
```

Sets the id of the starting point that was used to discover this document.

setLanguage

```
public void setLanguage(String language)
  throws ContentStoreException
```

Sets the language this document is written in.

detectLanguage

```
public void detectLanguage(com.inquira.util.xml.Node n)
```

setLanguage

```
public void setLanguage(com.inquira.util.i18n.Language language)
```

Sets the language this document is written in.

getIQXMLWeight

```
public int getIQXMLWeight()
  throws ContentStoreException
```

Returns the configured Raw doc content size ratio to IQXML content size. Thus a weight ratio of .5 means that the IQXML is 1/2 size of the Raw content.

getLanguage

```
public com.inquira.util.i18n.Language getLanguage()
```

Gets the language this document is written in.

isDefaultLanguage

```
public boolean isDefaultLanguage()
```

Returns if the document is written in the default language.

setEncoding

```
public void setEncoding(CharacterEncoding encoding)
```

Sets the encoding of this document.

setEncoding

```
public void setEncoding(String encoding)
  throws ContentStoreException
```

Sets the encoding of this document.

getEncoding

```
public CharacterEncoding getEncoding()
```

Gets the document encoding.

isDefaultEncoding

```
public boolean isDefaultEncoding()
```

Returns if the document is encoded in the default character encoding.

setDocType

```
public void setDocType(DocumentType docType)
```

Sets the DocumentType for this document.

getDocType

public DocumentType **getDocType**()

> Gets the DocumentType for this document.

setCSType

public void **setCSType**(ContentSourceType csType)

> Sets the ContentSourceType for this document.

getCSType

public ContentSourceType **getCSType**()

> Gets the ContentSourceType for this document.

setParentDocId

public void **setParentDocId**(int parentDocId)

> Sets the parent of this document if the parent's document id is known.
>
> **See Also:**
>> setParent(Document)
>> getParentDocId()

setParent

public void **setParent**(Document parent)

> Sets the parent of this document even if the parent's document id is not known, as it can be the case where the parent and this documents are new documents (so no document id has been established for the parent yet.
>
> **See Also:**
>> setParentDocId(int)
>> getParentDocId()

getParentDocId

public int **getParentDocId**()
  throws ContentStoreException

> Gets the document id for this parent. If the parent was established using setParent(Document) it will now get the document id for the parent. It is assumed that by now the parent has been stored in the content store and therefore the document id has been established in the parent document.
>
> **See Also:**
>> setParentDocId(int)
>> setParent(Document)

setChecksum

public void **setChecksum**(long checksum)

> Sets the checksum for the raw content. This can be used to determine if a document has changed since the last crawl.

setChecksum

`public void` **`setChecksum`**`(byte[] buffer)`

Calculates the checksum for the raw content. This can be used to determine if a document has changed since the last crawl.

getChecksum

`public long` **`getChecksum`**`()`

Returns the checksum for the raw content.

setStatusCode

`public void` **`setStatusCode`**`(int statusCode)`

Sets the status code for accessing this document.

getStatusCode

`public int` **`getStatusCode`**`()`

Returns the status code for the document access.

setDocSizeK

`public void` **`setDocSizeK`**`(int docSizeK)`

Sets the document size in KB

setDocSize

`public void` **`setDocSize`**`(int docSize)`

Sets the document size in bytes

getDocSizeK

`public int` **`getDocSizeK`**`()`

Returns the raw content size in KB

setIndexingAllowed

`public void` **`setIndexingAllowed`**`(boolean indexingAllowed)`

Indicates if this document should be indexed, thus it's content to be made searchable.

isIndexingAllowed

`public boolean` **`isIndexingAllowed`**`()`

Returns flag whether document should be indexed.

setETag

`public void` **`setETag`**`(String etag)`

Stores the ETag for optional modification detection in HTTP cralwer.

getETag

```
public String getETag()
```

Returns the ETag for an HTTP document.

setCreationTime

```
public void setCreationTime(java.sql.Timestamp creationTime)
```

Sets the creation timestamp for this document.

getCreationTime

```
public java.sql.Timestamp getCreationTime()
```

Returns the creation timestamp for this document.

setLastModificationTime

```
public void setLastModificationTime(java.sql.Timestamp lastModifiedTime)
```

Set the last modification timestamp for this document.

getLastModificationTime

```
public java.sql.Timestamp getLastModificationTime()
```

Returns the last modification timestamp for this document.

setValidStartTime

```
public void setValidStartTime(java.sql.Timestamp validStartTime)
```

Set the starting timestamp of the range this document is valid.

getValidStartTime

```
public java.sql.Timestamp getValidStartTime()
```

Returns the starting timestamp of the range this document is valid.

setValidEndTime

```
public void setValidEndTime(java.sql.Timestamp validEndTime)
```

Sets the ending timestamp of the range this document is valid.

getValidEndTime

```
public java.sql.Timestamp getValidEndTime()
```

Returns the ending timestamp of the range this document is valid.

setIsDeleted

public void **setIsDeleted**(boolean flag)

> this method should only be called in the content store and never in a crawler. To mark a document as deleted please call the markDeleted method.

isDeleted

public boolean **isDeleted**()

> Returns flag whether this document is deleted.

markDeleted

public void **markDeleted**(boolean flag)

> Sets the mark for deletion flag.

isDeletedHasChanged

public boolean **isDeletedHasChanged**()

> Determines if the document has been marked for deletion.

setRecency

public void **setRecency**(double recency)

> Sets the recency for this document.

getRecency

public double **getRecency**()

> Returns the recency for this document.

setDocLevel

public void **setDocLevel**(int docLevel)

> Set the number of levels (parents) this document is removed from the starting point it was crawled from.

getDocLevel

public int **getDocLevel**()

> Returns the number of level this document is removed form it's starting point.

setDirectIQXML

public void **setDirectIQXML**(boolean flag)

> Sets the flag is the crawler created IQXML directly without creating RAW content, thus making preprocessing unnessary for this document.

isDirectIQXML

public boolean **isDirectIQXML**()

Returns whether the document does not need to be preprocessed since the crawler created IQXML directly.

setCrawlRuleInfo

public void **setCrawlRuleInfo**(String crawlRuleInfo)

Set the information about the crawl rules that were applied to determine if this document should be indexable.

addCrawlRuleInfo

public void **addCrawlRuleInfo**(String newInfo)

Add information about the crawl rules that were applied to determine if this doucment should be indexable.

getCrawlRuleInfo

public String **getCrawlRuleInfo**()

Returns information about the crawl rules that were applied to determine if this document is indexable.

setCrawlEventId

public void **setCrawlEventId**(String crawlEventId)

Set the event id for the content acquisition step of this document.

getCrawlEventId

public String **getCrawlEventId**()

Returns the event id for the content acquisition step of this document.

setPrepEventId

public void **setPrepEventId**(String prepEventId)

Set the event id for the preprocessing step of this document.

getPrepEventId

public String **getPrepEventId**()

Set the event id for the preprocessing step of this document.

setRanking

public void **setRanking**(double ranking)

Sets the link based ranking for this document.

getRanking

public double **getRanking**()

Returns the link based ranking for this document.

setContent

```
public void setContent(DataComponent type,
        String data)
  throws ContentStoreException
```

Assigns the content of the string as the value for the given data type for this document.

setContent

```
public void setContent(DataComponent type,
        byte[] data)
  throws ContentStoreException
```

Assigns the content of the byte array as the value for the given data type for this document.

setContent

```
public void setContent(DataComponent type,
        InputStream is)
  throws ContentStoreException
```

Assigns the content of the inputstream as the value for the given data type for this document.
 Note: since we don't know the length of the input stream we need to build a buffer. This can result in significant memory usage for for big documents!

readContent

```
public void readContent(DataComponent type,
        DocData dd)
```

used to set the content read from the database so that it is not marked as changed.
 Note: This method should only be called by the content acquisition framework.

setContent

```
public void setContent(DataComponent type,
        DocData dd)
```

Sets the content dd for the data type type.

removeContent

```
public void removeContent(DataComponent type)
```

Removes the content for data type type.

releaseContent

```
public void releaseContent(DataComponent type)
```

Resets the content buffer but does not mark the content to be modified, so that it is not removed from the content store when the document is persisted.

releaseContent

```
public void releaseContent()
```

Releases the content associated with this document from memory.

clearModifiedContent

```
public void clearModifiedContent(DataComponent type)
```

Removes the content for type `type` form this document.

clearModifiedContent

```
public void clearModifiedContent()
```

Removes all modified content from this document.

getCurrentInputStream

```
public InputStream getCurrentInputStream(DataComponent type)
  throws ContentStoreException
```

Returns an input stream for data type `type`, from the content already loaded in memory if the data is already loaded, else access it from the content store.

getCompressedInputStream

```
public InputStream getCompressedInputStream(DataComponent type)
  throws ContentStoreException
```

Returns the compressed input stream for data type `type`.

getCompressedInputStreamLength

```
public int getCompressedInputStreamLength(DataComponent type)
  throws ContentStoreException
```

Returns the length of the compressed data of data type .

getInputStream

```
public InputStream getInputStream(DataComponent type)
  throws ContentStoreException
```

Returns an input stream for data type `type`.

getInputStreamLength

```
public int getInputStreamLength(DataComponent type)
  throws ContentStoreException
```

Returns the length of the uncompressed data of data type .

getLastInputStreamLength

```
public int getLastInputStreamLength()
  throws ContentStoreException
```

Returns the length of the last accessed data type.

getRawContentReader

```
public BufferedReader getRawContentReader()
    throws ContentStoreException
```

Provides access to the raw content for **non-binary** documents. If this method is called for a binary document a `BinaryContentException` is thrown. This method should be called by the preprocessing modules that deal with non binary content.

getIQXMLReader

```
public BufferedReader getIQXMLReader()
    throws ContentStoreException
```

Returns a buffered reader for the IQXML.

getModifiedContentMap

```
public Map getModifiedContentMap()
```

Returns a map of the data items that have been modified since this object was instatiated.

getContentMap

```
public Map getContentMap()
```

Returns the map of all data items that are loaded for this document into memory.

addSupertitle

```
public boolean addSupertitle(String superTitle)
```

Adds a super title for this document.

addAttribute

```
public boolean addAttribute(DocumentAttribute attribute)
```

Adds a document attribute.

addAttribute

```
public boolean addAttribute(String attribute,
        boolean permanent)
```

Adds a document attribute.

readSupertitle

```
public boolean readSupertitle(String superTitle)
```

Adds a super title but does not mark the map of super titles to be modified.
 Note: This method should only be called from the content acquisition framework.

readAttribute

```
public boolean readAttribute(String attribute,
        boolean permanent)
```

Adds a document attributebut does not mark the map of super titles to be modified.
Note: This method should only be called from the content acquisition framework.

clearSupertitles

```
public Set clearSupertitles()
```

Removes all super titles from this document.

clearNonPermanentAttributes

```
public Set clearNonPermanentAttributes()
```

Removes all non-permanent document attributes from this document.

getModifiedSupertitles

```
public Set getModifiedSupertitles()
```

Returns a set of super titles that have been modified since this document was instantiated.

getModifiedAttributes

```
public Set getModifiedAttributes()
```

Returns a set of document attributes that have been modified since this document was instantiated.

getSupertitles

```
public Set getSupertitles()
```

Returns a set of all super titles for this document.

getAttributes

```
public Set getAttributes()
```

Returns a set of all document attributes for this document.

hasSupertitle

```
public boolean hasSupertitle(String superTitle)
```

Returns if `superTitle` is assocaited with this document.

hasAttribute

```
public boolean hasAttribute(DocumentAttribute attribute)
```

Returns if `attribute` is assocaited with this document.

shouldCrawl

```
public boolean shouldCrawl()
```

Returns wheter the content of this document should be crawled.

shouldProcess

```
public boolean shouldProcess()
```

      Checks wheter this document should be processed.

checkStatusCode

```
public boolean checkStatusCode()
```

      Checks if the document has a valid status code.

getChecksumClass

```
public static Class getChecksumClass()
```

      Returns the class used to calculate the checksum field.

putMiscField

```
public Serializable putMiscField(String name,
        Serializable value)
```

      Adds a transient name value pair for this document.

getMiscField

```
public Serializable getMiscField(String name)
```

      Get the value for a transient name value pair.

incForwardLinkCount

```
public void incForwardLinkCount()
```

      Increments the forward link count.

getForwardLinkCount

```
public int getForwardLinkCount()
```

      Returns the forward link count.

setReferers

```
public void setReferers(Collection referers)
```

      Sets the referring documents.

getReferers

```
public Collection getReferers()
```

      Returns the referring documents.

getCollectionConfig

```
public CollectionConfig getCollectionConfig()
```

Returns the collection configuration object. This method might return null if the collection configuration object has not yet been establised.

toString

```
public String toString()
```

Returns identity information about this document.

dump

```
public void dump()
  throws ContentStoreException
```
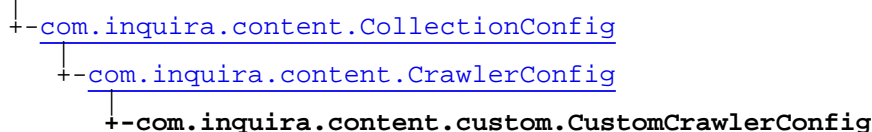
Logs document details.

Package
com.inquira.content.custom

This package contains base classes to support creation of custom crawlers.

com.inquira.content.custom
Class CustomCrawlerConfig

```
java.lang.Object
    │
    +-com.inquira.content.CollectionConfig
        │
        +-com.inquira.content.CrawlerConfig
            │
            +-com.inquira.content.custom.CustomCrawlerConfig
```

All Implemented Interfaces:
　　　　IContentLogConstants, Cloneable

---

public abstract class **CustomCrawlerConfig**
extends CrawlerConfig

Base class for all custom `crawler configuration` implementations. Instances of subclassses of this class are created by the `configuration service` using the `CustomCrawlerConfigController`.

Fields inherited from interface `com.inquira.content.IContentLogConstants`
ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE, BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR, CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER, CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT, COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED, COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL, COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED, CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT, DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED, DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST, DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL, DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED, DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED, DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR, EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS, GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR, INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT, MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP, MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED, NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME, NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE, NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS, NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID, NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK, SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD, UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Method Summary

String	**buildDisplayURL**(Document doc) Returns the already established display URL, but subclasses can override this method to provide more complex build display URL functionality.
abstract Crawler	**getCrawler**()
ContentSourceType	**getCSType**()
void	**init**(Properties configValues) Called to configure the custom configuration object with configValues.
abstract boolean	**isModifiedDocument**(Document currentDocument, Document newDocument)

Methods inherited from class com.inquira.content.CollectionConfig

addDocumentToCache, applyDocumentAttributeSelectors, applyDocumentFilters,
applyDocumentFilters, applyDocumentSupertitleSelectors, buildDisplayURL, clone,
containsProtectedContent, detectDocumentEncoding, detectDocumentLanguage,
detectDocumentLocale, detectDocumentType, fetchExistingContent, generatesIQXML,
getCollection, getCollectionName, getContent, getCrawler, getCSType,
getDefaultEncoding, getDefaultLanguage, getDocAttrSelectors,
getDocSupertitleSelectors, getDocumentFetchProfile, getDocumentFilters,
getDocumentFromCache, getGlobalCrawlRules, getPreprocessingFilter,
getRankingIterations, getTaskStatus, getTransferSizeLimit, getURLBuilder,
getURLChecker, getUrlChecks, getValidationConditions, hasUnstructuredAttribute,
initializeURLChecker, isAllowedByCrawlRules, isModifiedDocument, prepDocument,
setCollection, setCollectionName, setContainsProtectedContent, setDefaultEncoding,
setDefaultLanguage, setDocumentAttributeSelectors, setDocumentFetchProfile,
setDocumentFilters, setDocumentSupertitleSelectors, setDocumentTypeDetector,
setGlobalCrawlRules, setHasUnstructuredAttribute, setPreprocessingFilter,
setRankingIterations, setShouldPrepAtCrawltime, setTaskStatus, setTransferSizeLimit,
setURLBuilder, setUrlChecks, setValidationConditions, shouldPrepAtCrawltime,
shutdownPreprocessor, toString, validateCollectionName

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

init

```
public void init(Properties configValues)
```

> Called to configure the custom configuration object with configValues.
> **Note:** This method should only be called from the content processing framework.

buildDisplayURL

```
public String buildDisplayURL(Document doc)
   throws CrawlerException
```

> Returns the already established display URL, but subclasses can override this method to provide more complex build display URL functionality.
>
> **See Also:**
> > buildDisplayURL( )

isModifiedDocument

```
public abstract boolean isModifiedDocument(Document currentDocument,
      Document newDocument)
```

> This method is called to determine if a document has changed from a prior crawl.

getCrawler

```
public abstract Crawler getCrawler()
   throws CrawlerException
```

> Returns a new {link Crawler crawle} object with the appropriate configuration set.

getCSType

```
public ContentSourceType getCSType()
```

com.inquira.content.custom
Class CustomCrawlerConfigController

```
java.lang.Object
    |
    +-com.inquira.config.AbstractController
        |
        +-com.inquira.config.AggregateIdAwareController
            |
            +-com.inquira.content.custom.CustomCrawlerConfigController
```
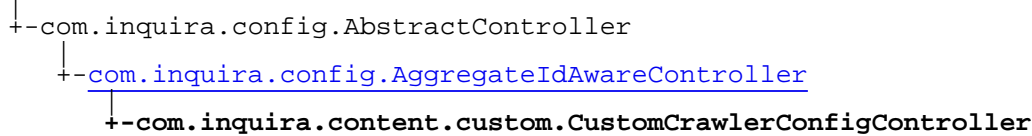
All Implemented Interfaces:
IConfigConstants, ILogConstants, Controller, Controller, Controller

---

public class **CustomCrawlerConfigController**
extends AggregateIdAwareController
implements Controller, Controller, Controller, ILogConstants, IConfigConstants

This controller instanciates configurations for custom crawlers.

```
    <type>
        <entry/>
        <entry/>
        <entry/>
        <list/>
        <list/>
        <entry/>
        <entry/>
        <entry/>
        <entry/> </type> </xmp> <table> <tr>
<th>Name</th><th>Type</th><th>Required</th><th>Description</th> </tr> <tr>
<td>class</td><td>className</td><td>yes</td><td>The class name of the custom crawler
configuration class.</td> </tr> <tr>
<td>config</td><td>Properties</td><td>no</td><td>Configuration properties object.</td> </tr>
<tr> <td>documentFilter</td><td>DocumentFilter[]</td><td>no</td><td>List of
DocumentFilter(s), that filter if a document should be indexed or not.</td> </tr> <tr>
<td>documentAttributeSelector</td><td>DocumentAttributeSelector[]</td><td>no</td><td>List of
DocumentAttributeSelector(s), that sets attributes based on document conditions.</td> </tr>
<tr> <td>documentTypeDetector</td><td>DocumentTypeDetector</td><td>yes</td><td>Defines a
document type detector.</td> </tr> <tr>
<td>language</td><td>Language</td><td>no</td><td>Defines the langauge for this collection, if
not specifies the content stores default language setting will be used.</td> </tr> <tr>
<td>encoding</td><td>CharacterEncoding</td><td>no</td><td>Defines the content encoding for
this collection, if not specifies the content stores default encoding setting will be
used.</td> </tr> <tr>
<td>validationConfiguration</td><td>ValidationConfiguration</td><td>no</td><td>Allows for run
checks on the result of content processing steps to determine if the results are
acceptable.</td> </tr> <tr>
<td>preprocessingFilter</td><td>PreprocessingFilter</td><td>no</td><td>Allows for
customization of the document convertion process.</td> </tr> </table>
```

Fields inherited from interface `com.inquira.content.custom.ILogConstants`

NO_CLASS

Fields inherited from interface `com.inquira.content.IContentLogConstants`

ACTION_FAILED, ACTION_FINISHED, ACTION_STARTED, ADDING_ATTRIBUTE, ADDING_SUPERTITLE,
BAD_CRAWLER_TYPE, BAD_METHOD_EXECUTION, BAD_METHOD_NAME, BUILD_URL_ERROR,
CALCULATING_COLLECTION_RANKINGS, CALLING_DOC_AGER, CALLING_DOC_RANKER,
CHANGED_DOCUMENT_STATUS, COLLECTION_DOES_NOT_EXIST, COLLECTION_INCONSISTENT,
COLLECTION_STATISTIC_DELETE_FAILED, COLLECTION_STATISTIC_DELETED,
COLLECTION_STATISTIC_INSERT_FAILED, COLLECTION_STATISTIC_INSERTED, COLLECTION_UNAVAIL,
COLLECTION_VALIDATION_FAILED, COMMIT_NOT_ALLOWED, COMMITED, CONFIG_COLLECTIONS_FAILED,
CRAWLER_DOES_NOT_EXIST, CRAWLER_EXCEPTION, DATA_TRUNCATION_ERROR, DELETED_DOCUMENT,
DELETED_DOCUMENT_BY_CRAWLER, DOC_ATTR_DELETE_FAILED, DOC_ATTR_DELETED,
DOC_ATTR_INSERT_FAILED, DOC_ATTR_INSERTED, DOC_DATA_DOES_NOT_EXIST,
DOC_DATA_INSERT_FAILED, DOC_DATA_READ_ERROR, DOC_DATA_RETRIEVED, DOC_DETAIL,
DOC_DETAIL_START, DOC_ID_URL_MISMATCH, DOC_NOT_FOUND_ERROR, DOC_SUPERTITLE_DELETE_FAILED,
DOC_SUPERTITLE_DELETED, DOC_SUPERTITLE_INSERT_FAILED, DOC_SUPERTITLE_INSERTED,
DOCUMENT_DOES_NOT_EXIST, DOCUMENT_INSERT_FAILED, DOCUMENT_RETRIEVED, ENCODING_ERROR,
EOD_ERROR, EXISTING_DOCUMENTS_EXHAUSTED, FINDING_LINKED_DOCUMENTS, FOUND_LINKED_DOCUMENTS,
GZIP_ERROR, INCOMPLETE_CONFIGURATION, INCONSISTENCY_ERROR, INSTANTIATION_ERROR,
INTERMEDIATE_COMMIT, IO_ERROR, MIN_TERM_AND, MIN_TERM_EXCEPTION, MIN_TERM_NOT_RESULT,
MIN_TERM_NOT_VALUE, MIN_TERM_OR, MIN_TERM_RESULT, MIN_TERM_RETURN, MIN_TERM_STOP,
MIN_TERM_UNKNOWN_OPERATION, MODIFIED_DOCUMENT, NEW_DOCUMENT, NEW_DOCUMENTS_EXHAUSTED,
NO_ATTRIBUTES, NO_CLASS_NAME, NO_COLLECTION_ID, NO_COLLECTION_INFO, NO_COLLECTION_NAME,
NO_COMPARATOR, NO_COMPARISION_VALUE, NO_CONDITIONS, NO_CONTENT_STORE, NO_CRAWLER_INSTANCE,
NO_CRAWLER_TYPE, NO_DOC_FILTER, NO_DOC_TYPE_DETECTOR, NO_DOCUMENT_ID, NO_DOCUMENTS,
NO_FETCH_URLS, NO_FILTER_ITEM, NO_METHOD_NAME, NO_NAME, NO_OPERATOR, NO_PARENT_DOCUMENT_ID,
NULL_CONDITION, PROCESSING_DOC, RANKING_NO_DOCUMENTS_FOUND, READ_ERROR, ROLLED_BACK,
SEEN_DOCUMENT_STATUS, SETTING_DOC_LOCALE, SETTING_DOC_TYPE, SQL_ERROR, UNABLE_TO_SET_FIELD,
UNCHANGED_DOCUMENT, UUID_GENERATION_ERROR

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Fields inherited from interface `com.inquira.content.custom.IConfigConstants`

CONFIG

Fields inherited from interface `com.inquira.content.IContentConfigConstants`

ATTRIBUTES, CHECK_AGAINST_RULES, CLASS, COLLECTION_NAME, COMP_VALUE, COMPARATOR, CONDITION,
CONDITIONS, CONTENT_ACQUISITION, CONTENT_DEBUG_KEY, CONTENT_STORE, DATASOURCE,
DATE_FORMAT_KEY, DOC_ATTR_SEL, DOC_CONDITIONS, DOC_FILTERS, DOC_SUPERTITLE_SEL,
DOC_TYPE_DETECTOR, DOCUMENT_TYPE, DOMAIN_LIST, ENCODING, EXTENSIONS, FILTER_ITEM,
FORCE_HTTP_ACCESS, GLOBAL_REJECT_PATTERN_KEY_NAME, HOST, IGNORE_TIMESTAMPS,
LARGE_FILE_SIZE, MAPPING, METHOD, NAME, OPERATOR, PATH, PERMANENT, PORT, PREFIX,
PREP_AT_CRAWL_TIME, PREPROCESSING_FILTER, PROPERTIES, PROTOCOL, REQ_SEC_ATTRIBUTE,
RESET_COMMIT_INTERVAL, SUBJECT, SUFFIX, SUPERTITLES, TRAVERSE_ALL_DIRECTORIES,
UNSTRUC_ATTRIBUTE, URL_BUILDER, URL_CHECKS, VALIDATION_CONDITION

Constructor Summary

public	[CustomCrawlerConfigController](#)()

Method Summary

Object	[get](#)(String name, Object value) Create a new custom collection configuration object.

Methods inherited from class [com.inquira.config.AggregateIdAwareController](#)

[get](#), [get](#)

Methods inherited from class com.inquira.config.AbstractController

get

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface [com.inquira.config.Controller](#)

[get](#)

Methods inherited from interface [com.inquira.config.Controller](#)

[get](#)

Methods inherited from interface [com.inquira.config.Controller](#)

[get](#)

Constructors

CustomCrawlerConfigController

public **CustomCrawlerConfigController**()

Methods

get

```
public Object get(String name,
        Object value)
  throws ConfigControllerException
```

Create a new custom collection configuration object.

get

```
public Object get(String name,
        Object value)
```

Create a new custom collection configuration object.

com.inquira.content.custom
Class CustomCrawlerState

```
java.lang.Object
    │
    +-com.inquira.content.custom.CustomCrawlerState
```

All Implemented Interfaces:
>   Serializable

---

public class **CustomCrawlerState**
extends Object
implements Serializable

This class is intended to be store in the CrawlerState using the set method for custom crawlers. It **does not** extend CrawlerState.

Constructor Summary

public	[CustomCrawlerState](#)()

Method Summary

Serializable	[get](#)(String name) Returns the value established by calling set( ) for name.
Serializable	[set](#)(String name, Serializable value) Associates value with name.

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

---

Constructors

CustomCrawlerState

public **CustomCrawlerState**()

Methods

get

public Serializable **get**(String name)

>   Returns the value established by calling set( ) for name.

(continued from last page)

set

```
public Serializable set(String name,
          Serializable value)
```

   Associates `value` with `name`.

set

```
public Serializable set(String name,
          Serializable value)
```

   Associates `value` with `name`.

Package
com.inquira.evaluator

com.inquira.evaluator
Interface ActionGenerator

public interface **ActionGenerator**

ActionGenerator allows custom code to create actions for rules. They must be configured in the PluggableConsequences section of configuration in order to be accessed through the workbench. For example:

```
<Consequence name="CustomConsequence">
    <description> Description of CustomConsequence </description>
    <class> com.customer.CustomActionGenerator </class>
    <parameter index="0">Parameter1</parameter>
    <parameter index="1">Parameter2</parameter>
    ...
</Consequence>
```

Method Summary

Action[]	[generate](RequestContext rc, com.inquira.dictionary.rules.userdata.AnswerPart part, com.inquira.nlp.Sentence sent, com.inquira.match.VariableInstantiation vars, Map map, double score) Generates any number of actions to be evaluated by the system.

Methods

generate

```
public Action[] generate(RequestContext rc,
          com.inquira.dictionary.rules.userdata.AnswerPart part,
          com.inquira.nlp.Sentence sent,
          com.inquira.match.VariableInstantiation vars,
          Map map,
          double score)
   throws InquiraException
```

Generates any number of actions to be evaluated by the system.

Parameters:
   rc - a RequestContext
   part - an AnswerPart from the rule containing this ActionGenerator
   sent - a Sentence which is the question that caused this ActionGenerator to fire.
   vars - a VariableInstantiation for the current question.
   parameters - a mapping from parameter names to String values.

Returns:
   an Action[]

Throws:
   InquiraException

Package
com.inquira.infra

This package and its subpackages implement the InQuira application infrastructure.

Features

- **Remote invocation of servivce**

-

- **HTML, SOAP and RMI based access**

-

- **Abstracted client layer that is access method-independent**

-

Limitations

Implementation Details

com.inquira.infra
Class Execution

```
java.lang.Object
    │
    +-com.inquira.infra.Execution
```

All Implemented Interfaces:
Context

---

public class **Execution**
extends Object
implements Context

Provides access to `application` and `instance` level services. The appropriate execution context is stored as an inherited thread local variable and can be obtained by calling context().
Important Implementation Notice

- Any thread that gains access to the Execution object **must** assure that it is removed from the thread local variables by calling resetContext() in all cases.
- Any thread that accesses services that are redeployed during synchronization, e.g. config, log, etc., must call enterApplicationCode() and leaveApplicationCode() to properly protect itself. While any thread is still in application code the infrastructure will not redploy the applicaiton.

Code Sample:

```
Execution context = null;
try {
    context = Execution.assureContext( );
    context.enterApplicationCode( );


    ...
} finally {
    if( context != null ) {
        context.leaveApplicationCode( );
        Execution.resetContext( );
    }
}
</xml>
```

Field Summary

public static final	**DEBUG_SCORING_RESULT** Operation that allows generation of debug information for search.
public static final	**INDEXING** Operation that allows indexing.
public static final	**MAINTAINING_INDEX** Operation that allows index maintenance.

public static final	MODIFY_REVISION_MANAGER	
	Operation that allows modifications to the revision manager.	
public static final	MODIFY_STRING_TABLE	
	Operation that allows modifications to the string table.	
public static final	TEST_DRIVE_LISTENER	
	Operation that integrates log service with test drive functionality.	
public static final	UDS_NO_EXCERPTS	
	Operation that directs the UDS not to handle excerpts.	
public static final	USE_USER_DICTIONARY	
	Operation to indicate that the dictionary services should be user-based.	

Fields inherited from interface `com.inquira.infra.Context`

LOCATE_AAS, LOCATE_CONFIG_SERVICE, LOCATE_CONTENT_STORE, LOCATE_DICTIONARY_SERVICE,
LOCATE_DICTIONARY_STORE, LOCATE_DIST_SCHEDULER, LOCATE_DOMAIN_DATA, LOCATE_EVENT_MANAGER,
LOCATE_EXCERPT, LOCATE_EXCERPT_SECURITY, LOCATE_GATEWAY, LOCATE_INDEX, LOCATE_INTENTS_DATA,
LOCATE_INTERNAL_USERS, LOCATE_LANGUAGE_ANALYSIS, LOCATE_LOG_EXTRACTION, LOCATE_LOG_STORE,
LOCATE_LOG_TRANSFER, LOCATE_LOG_WRITER_FACTORY, LOCATE_NAVIGATION_DATA,
LOCATE_NAVIGATION_STORE, LOCATE_ONTOLOGY, LOCATE_ONTOLOGY_DOMAIN_DATA, LOCATE_PREFERENCES,
LOCATE_PROCESS_WIZARDS_SERVICE, LOCATE_PROFILES_DATA, LOCATE_QUERY_SVC,
LOCATE_QUERY_WORKER, LOCATE_REPOS_FILETRANS, LOCATE_REVISION_MANAGER,
LOCATE_REVISION_STORE, LOCATE_RULE_DATA, LOCATE_SPELLCHECKER, LOCATE_STR_TABLE_SERVICE,
LOCATE_STRING_DATA_STORE, LOCATE_STRUCTURED_DATA, LOCATE_UNSTRUCTURED_DATA_SERVICE,
LOCATE_USER_DATA_TRANSFER, LOCATE_VERSION_CONTROL, LOCATE_WORKFLOW_SERVICE

Method Summary

IAAS	aas()	
	Returns the security service.	
Config	applyConfigChanges(Source source)	
	Overrides the configuration for the underlying application with the passed-in source.	
com.inquira.util.IReadWriteLock	assureAppLock()	
	Returns a `lock` to prevent redeploying an application while it is still in used by functional code.	
static Execution	assureContext()	
	Ensures that a valid execution object is available.	
Execution	assureContext(String newAppName)	
	Ensures that a context is set for the proper application.	
Execution	cloneOrSynchronizeApplication()	
	This method needs to be called when a execution context is migrated from one thread to another.	
Config	config()	
	Returns the config service.	
com.inquira.common.ContentStore	content()	
	Returns the content store.	
static Execution	context()	
	Returns the appropriate execution object for the given application.	

File	**createTempFile**() Creates a new temporary file in the instance-specific temporary directory.
File	**createTempFile**(String prefix) Creates a new temporary file in the instance-specific temporary directory.
File	**createTempFile**(String prefix, String suffix) Creates a new temporary file in the instance-specific temporary directory.
com.inquira.userdata. domain.DomainDataServ ice	**domainDataService**() Returns the domain data service.
void	**endThreadEvent**()
Execution	**enterApplicationCode**() Acquires read lock for the application so that it is save to proceed accessing application services.
Execution	**enterApplicationCode**(boolean cloneOrSynchronize) Acquires read lock for the application so that it is save to proceed accessing application services.
com.inquira.event.Eve ntManager	**eventManager**() Returns the event manager.
com.inquira.excerpt.E xcerptService	**excerpt**() Returns the excerpt service.
com.inquira.excerpt.s ecurity.IExcerptSecur ity	**excerptSecurity**() Returns the excerpt-level security service.
IGateway	**gateway**() Returns the gateway service.
String	**getActor**() Returns the current actor that is active.
String	**getActorId**() Returns the id for the currently active actor.
Application	**getApplication**() Returns the application object.
com.inquira.util.IRea dWriteLock	**getAppLock**() Returns a `lock` to prevent redeploying an application while it is still in used by functional code.
File	**getBootstrapFile**(String name) Returns a file object that represents a file for bootstrap services specified by `name`.
Map	**getConfiguredContentPermissions**() Returns all content permissions.
Map	**getConfiguredPermissions**() Returns all known non-content permissions.
File	**getDataFile**(File file) Returns the File object as specified by `name` as a relative path in the application data structure.

File	**getDataFile**(String name)	
	Returns the file specified by name as specified by the relative path in the application data structure.	
String	**getDataPath**(String name)	
	Returns the absolute path as specified by name as a relative path in the application data structure.	
long	**getDeployedTime**()	
	Returns the time when the underlying application was deployed.	
IUser	**getDictUser**()	
	Returns the user that is currently stored in the execution context and validates that there is no mismatch with the dictionary user as it is maintained in the workbench.	
String	**getExecutionModeName**()	
	Returns the name of the execution mode this thread is context, hence this thread, is working in.	
Instance	**getInstance**()	
	Returns the current instance object.	
com.inquira.util.uuid .UUID	**getJvmId**()	
	Returns the UUID for this JVM.	
String	**getName**()	
	Returns the **getRawName()** prefixed by "Application: &quot.	
com.inquira.analytics .Ods	**getOds**()	
	Returns the ODS interface	
java.security.Permiss ion	**getPermission**(String permissionKey)	
	Return the permission object represented by the key permissionKey.	
File	**getProductFile**(String name)	
	Returns the file object that repesents the product file specified by name.	
String	**getProductPath**(String name)	
	Returns the absolute path that repesents the product file specified by name.	
String	**getRawName**()	
	Returns the name of the application only.	
RequestContext	**getRequestContext**()	
	Gets the **RequestContext** that represents the current request.	
int	**getRevision**()	
	Returns the current revision for this application.	
com.inquira.util.i18n .Language	**getRuntimeLanguage**()	
Key	**getServiceKey**(String serviceName, String rawKey)	
	Returns the configuration key for rawKey for the service specified by serviceName.	
long	**getStartTime**()	
	Returns the time when this instance was started.	
com.inquira.util.uuid .UUID	**getTransactionId**()	
	Returns the transaction UUID for the current request.	

com.inquira.retrieve. newIndex.Unstructured DataService	getUDS() Returns the unstructured data service.	
IUser	getUser() Returns the authenticated user object.	
com.inquira.util.uuid .UUID	getUUID() Returns the UUID for the underlying application.	
boolean	hasAccess(java.security.Permission perm) Checks whether the current user has access to permission perm.	
boolean	hasAccess(String permissionKey) Checks whether the current user has access to permission specified by it's key permissionKey.	
com.inquira.retrieve. index.IndexService	index() Returns the index service.	
com.inquira.util.io.F ileBasedLock	initLockInfo(File file) Create the internal structures required for locking this file.	
com.inquira.dictionar y.intents.IntentServi ce	intents()	
com.inquira.userdata. user.InternalUserServ ice	internalUserService() Returns the internal user service.	
boolean	isOperationAllowed(ExecutionOperation operation) Checks whether operation is currently allowed to be executed.	
boolean	isOperationAllowed(InstanceEnvironmentOperation operation) Checks whether operation is currently allowed to be executed.	
boolean	isOperationAllowed(InstanceOperation operation) Checks whether operation is currently allowed to be executed.	
boolean	isOperationAllowed(InstanceRoleOperation operation) Checks whether operation is currently allowed to be executed.	
com.inquira.util.i18n .Language	language() Returns the language for this application.	
com.inquira.nlp.Langu ageAnalysis	languageanalysis() Returns the language analysis module.	
void	leaveApplicationCode() Releases read lock for the application after the current thread will no longer acccess services.	
Object	locate(String name) Locates the service with the given name.	
com.inquira.util.io.F ileBasedLock	lock(com.inquira.util.io.FileBasedLock lock, String operation) Locks the specified file and writes a lock message to that file	
com.inquira.util.io.F ileBasedLock	lock(File file, String operation) Locks the specified file and writes a lock message to that file	

com.inquira.log.LogWriter	log()	
	Returns the log writer.	
NavigationService	navigation()	
	Returns the navigation service.	
NavigationStore	navigationStore()	
	Returns the navigation store.	
com.inquira.dictionary.ontology.OntologyService	ontology()	
com.inquira.userdata.domain.DomainDataService	ontologyDomainDataService()	
	Returns the domain data service.	
PreferenceService	preferences()	
	Returns the preference service.	
com.inquira.workbench.dialog.ProcessWizService	processWizards()	
	Returns the process wizard service.	
com.inquira.query.QueryService	queryService()	
	Returns the query service.	
void	release(com.inquira.util.io.FileBasedLock lock)	
	Releases the file lock created by a prior call to lock(File, String).	
void	reloadExternallyMaintainedServices()	
	checks if the data for services has changed through external processes.	
com.inquira.dictionary.ontology.OntologyService	reloadOntology()	
	Reloads the UDS.	
com.inquira.revision.RevisionManager	reloadRevisionManager()	
	Forces a rundown of the existing com.inquira.revision.RevisionManager, thus storing all outstanding changes to the revision store.	
com.inquira.retrieve.newIndex.UnstructuredDataService	reloadUDS()	
	Reloads the UDS.	
static void	resetContext()	
	Removes the execution context from the current thread.	
void	resetUser()	
	Removes the user object from the execution context.	
com.inquira.revision.RevisionManager	revisionManager()	
	Returns the revision manager.	
com.inquira.revision.RevisionManager	revisionManager(ExecutionMode inMode)	
	Returns the revision manager in the specified mode.	
com.basistech.rlp.RLPContext	rexContext(String configFile)	
com.basistech.rlp.RLPContext	rexDetectorContext(String configFile)	

com.inquira.dictionar y.rules.RuleService	rules() Returns the rules data service.
void	rundown() Releases services that manage request-specific data.
com.inquira.scheduler .SchedulerService	scheduler() Returns the scheduler service.
void	setConfig(Config newConfig) Overrides the configuration service as defined in the underlying application.
static Execution	setContext(Execution exec) Establishes an execution context for this thread.
void	setDictionaryUser(String dictionaryUser) Sets the user in the workbench.
ExecutionMode	setExecutionMode(ExecutionMode mode) Sets the #mode for this thread.
void	setRequestContext(RequestContext rc) Stores the RequestContext.
void	setRuntimeLanguage(com.inquira.util.i18n.Language lang)
void	setUser(IUser user) Stores the authenticated user in the execution context.
com.inquira.spellchec k.SpellCheck	spellcheck() Returns the spellcheck service.
com.inquira.stringtab le.StringTableService	stringtable() Returns the stringtable service.
com.inquira.stringtab le.StringTable	stringTable() Returns the application internal stringtable.
com.inquira.retrieve. structured.Structured DataService	structuredData() Returns the structured data services.
Execution	synchronizeApplication() This method needs to be called to make new application configuration avaiable **Note:** This method should only be called from the Inquira infrastructure.
static ThreadInfo	threadInfo() Returns the thread information object that maintains imutable information that is thread specific.
String	toString() Returns the identity string for the underlying application object, followed by the execution mode and the current thread name.
void	traceRundown() Turns tracing on for the rundown calls.
void	unloadAsMuchAsPossible() Releases all services that can be safely cleared.

com.inquira.userdata. UserDataTransfer	userDataTransfer()
com.inquira.util.uuid .UUIDFactory	uuids() Returns the UUID service.

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface `com.inquira.infra.Context`

config, getActor, getActorId, getDataFile, getName, getRawName, getStartTime,
getUUID, log, uuids

Fields

MODIFY_STRING_TABLE

public static final com.inquira.infra.ExecutionOperation **MODIFY_STRING_TABLE**

Operation that allows modifications to the string table.

MODIFY_REVISION_MANAGER

public static final com.inquira.infra.ExecutionOperation **MODIFY_REVISION_MANAGER**

Operation that allows modifications to the revision manager.

USE_USER_DICTIONARY

public static final com.inquira.infra.ExecutionOperation **USE_USER_DICTIONARY**

Operation to indicate that the dictionary services should be user-based.

INDEXING

public static final com.inquira.infra.ExecutionOperation **INDEXING**

Operation that allows indexing.

MAINTAINING_INDEX

public static final com.inquira.infra.ExecutionOperation **MAINTAINING_INDEX**

Operation that allows index maintenance.

DEBUG_SCORING_RESULT

public static final com.inquira.infra.ExecutionOperation **DEBUG_SCORING_RESULT**

Operation that allows generation of debug information for search.

UDS_NO_EXCERPTS

```
public static final com.inquira.infra.ExecutionOperation UDS_NO_EXCERPTS
```

Operation that directs the UDS not to handle excerpts.

TEST_DRIVE_LISTENER

```
public static final com.inquira.infra.ExecutionOperation TEST_DRIVE_LISTENER
```

Operation that integrates log service with test drive functionality.

Methods

threadInfo

```
public static ThreadInfo threadInfo()
```

Returns the `thread information object` that maintains imutable information that is thread specific.
Note: This method should only be called from the Inquira infrastructure.

context

```
public static Execution context()
```

Returns the appropriate execution object for the given application.

Returns:
The appropriate execution object, or null if the `resetContext()` method has been called before. If null is returned, this normally indicates a logic error in the thread handling.

See Also:
assureContext()

assureContext

```
public static Execution assureContext()
```

Ensures that a valid execution object is available. If the underlying thread local variable is null, a new execution context is created for the `default application` of this instance.

See Also:
context()

setContext

```
public static Execution setContext(Execution exec)
```

Establishes an execution context for this thread.
Note: This method should only by called by the Inquira infrastructure.

Parameters:
exec - the execution context to associate with this thread.

See Also:
resetContext()

resetContext

```
public static void resetContext()
```

Removes the execution context from the current thread.
 Note: This method is dangerous since it removes the Execution context from this thread and future calls to context( ) will return null! To make this thread usable again a call to setContext must be made before calling context( ) again.
 This method should only by called by the Inquira infrastructure.

> **See Also:**
>   setContext(Execution)

reloadRevisionManager

```
public com.inquira.revision.RevisionManager reloadRevisionManager()
   throws TransportException,
          com.inquira.revision.RevisionException
```

Forces a rundown of the existing com.inquira.revision.RevisionManager, thus storing all outstanding changes to the revision store. This is helpful when we want to write the revision information to the store without reloading other services by calling rundown().

reloadUDS

```
public com.inquira.retrieve.newIndex.UnstructuredDataService reloadUDS()
   throws TransportException,
          com.inquira.retrieve.newIndex.UnstructuredDataException
```

Reloads the UDS.

reloadOntology

```
public com.inquira.dictionary.ontology.OntologyService reloadOntology()
   throws TransportException,
          com.inquira.dictionary.ontology.OntologyException
```

Reloads the UDS.

rexContext

```
public com.basistech.rlp.RLPContext rexContext(String configFile)
   throws com.inquira.nlp.util.REXEnvironmentException
```

rexDetectorContext

```
public com.basistech.rlp.RLPContext rexDetectorContext(String configFile)
   throws com.inquira.nlp.util.REXEnvironmentException
```

setRuntimeLanguage

```
public void setRuntimeLanguage(com.inquira.util.i18n.Language lang)
```

getRuntimeLanguage

```
public com.inquira.util.i18n.Language getRuntimeLanguage()
```

traceRundown

```
public void traceRundown()
```

> Turns tracing on for the rundown calls.
> **Note:** This method should only be called for debugging by Inquira personnel!

rundown

```
public void rundown()
    throws TransportException
```

> Releases services that manage request-specific data. This method should is called after every completion of the `handle` method and before any main method completes.
> **Note:** This method should only be called from the Inquira infrastructure.

locate

```
public Object locate(String name)
```

> Locates the service with the given name. The valid services names are defined by the LOCATE_* static strings in `com.inquira.infra.Context`. Internally the locate operation is delegated to the underlying `application` object.
> **Note:** This method should only be called from the Inquira infrastructure.

setRequestContext

```
public void setRequestContext(RequestContext rc)
```

> Stores the RequestContext.

> **See Also:**

> > **Note:** This method should only be called from the Inquira infrastructure.

getRequestContext

```
public RequestContext getRequestContext()
```

> Gets the RequestContext that represents the current request.

> **Returns:**
> > the request context.

> **See Also:**
> > setRequestContext(RequestContext)

setDictionaryUser

```
public void setDictionaryUser(String dictionaryUser)
```

> Sets the user in the workbench. This method has been superceded by setUser(IUser), but is still called to ensure consistency between the user object in the execution context and in the workbench.
> **Note:** This method should only be called from the Inquira infrastructure.

log

```
public com.inquira.log.LogWriter log()
```

Returns the log writer.

eventManager

```
public com.inquira.event.EventManager eventManager()
```

Returns the event manager.

config

```
public Config config()
  throws ConfigException
```

Returns the config service.

setConfig

```
public void setConfig(Config newConfig)
```

Overrides the configuration service as defined in the underlying application. **Note:** This method is only called in the code for the admin tool and then only very carefully! If the config service is temporarily overwritten it needs to be reset to the original value for proper operation!

applyConfigChanges

```
public Config applyConfigChanges(Source source)
  throws ConfigException
```

Overrides the configuration for the underlying application with the passed-in source. **Note:** This method should only be called from the admin tool when the modified application should be made active for the current JVM.

excerpt

```
public com.inquira.excerpt.ExcerptService excerpt()
  throws com.inquira.excerpt.ExcerptException
```

Returns the excerpt service.

getUDS

```
public com.inquira.retrieve.newIndex.UnstructuredDataService getUDS()
```

Returns the unstructured data service.

stringtable

```
public com.inquira.stringtable.StringTableService stringtable()
  throws com.inquira.stringtable.StringTableException
```

Returns the stringtable service.

navigation

```
public NavigationService navigation()
  throws NavigationException
```

     Returns the navigation service.

intents

```
public com.inquira.dictionary.intents.IntentService intents()
  throws com.inquira.dictionary.DictionaryException
```

structuredData

```
public com.inquira.retrieve.structured.StructuredDataService structuredData()
  throws com.inquira.retrieve.structured.StructuredException
```

     Returns the structured data services.

domainDataService

```
public com.inquira.userdata.domain.DomainDataService domainDataService()
  throws com.inquira.userdata.UserDataException
```

     Returns the domain data service.

ontologyDomainDataService

```
public com.inquira.userdata.domain.DomainDataService ontologyDomainDataService()
  throws com.inquira.userdata.UserDataException
```

     Returns the domain data service.

internalUserService

```
public com.inquira.userdata.user.InternalUserService internalUserService()
  throws com.inquira.userdata.UserDataException
```

     Returns the internal user service.

rules

```
public com.inquira.dictionary.rules.RuleService rules()
  throws com.inquira.dictionary.DictionaryException
```

     Returns the rules data service.

ontology

```
public com.inquira.dictionary.ontology.OntologyService ontology()
  throws com.inquira.dictionary.ontology.OntologyException
```

languageanalysis

```
public com.inquira.nlp.LanguageAnalysis languageanalysis()
  throws com.inquira.nlp.LanguageAnalysisException
```

> Returns the language analysis module.

---

navigationStore

```
public NavigationStore navigationStore()
  throws NavigationException
```

> Returns the navigation store.

---

content

```
public com.inquira.common.ContentStore content()
  throws ContentStoreException
```

> Returns the content store.

---

index

```
public com.inquira.retrieve.index.IndexService index()
  throws com.inquira.retrieve.index.IndexException
```

> Returns the index service.

---

scheduler

```
public com.inquira.scheduler.SchedulerService scheduler()
  throws com.inquira.scheduler.SchedulerException
```

> Returns the scheduler service.

---

spellcheck

```
public com.inquira.spellcheck.SpellCheck spellcheck()
  throws com.inquira.spellcheck.SpellCheckException
```

> Returns the spellcheck service.

---

excerptSecurity

```
public com.inquira.excerpt.security.IExcerptSecurity excerptSecurity()
  throws TransportException
```

> Returns the excerpt-level security service.

---

uuids

```
public com.inquira.util.uuid.UUIDFactory uuids()
```

> Returns the UUID service.

---

revisionManager

```
public com.inquira.revision.RevisionManager revisionManager()
  throws com.inquira.revision.RevisionException
```

Returns the revision manager.

revisionManager

```
public com.inquira.revision.RevisionManager revisionManager(ExecutionMode inMode)
  throws com.inquira.revision.RevisionException
```

Returns the revision manager in the specified mode. This method is only useful for content processing tasks where the revision manager needs to load the latest revision information form the revision store.

processWizards

```
public com.inquira.workbench.dialog.ProcessWizService processWizards()
  throws com.inquira.workbench.dialog.ProcessWizException
```

Returns the process wizard service.

getJvmId

```
public com.inquira.util.uuid.UUID getJvmId()
```

Returns the UUID for this JVM. This information is useful to distinguish between different runs of the same instance and is logged at startup and stored in the log records.

getTransactionId

```
public com.inquira.util.uuid.UUID getTransactionId()
  throws ConfigException
```

Returns the transaction UUID for the current request.

preferences

```
public PreferenceService preferences()
  throws TransportException
```

Returns the preference service.

gateway

```
public IGateway gateway()
  throws GatewayException
```

Returns the gateway service.

queryService

```
public com.inquira.query.QueryService queryService()
  throws TransportException
```

Returns the query service.

userDataTransfer

```
public com.inquira.userdata.UserDataTransfer userDataTransfer()
  throws TransportException
```

getDictUser

public [IUser](#) **getDictUser**()

Returns the user that is currently stored in the execution context and validates that there is no mismatch with the dictionary user as it is maintained in the workbench.

getUser

public [IUser](#) **getUser**()

Returns the authenticated [user](#) object.

Returns:
The authenticated user or null if no user has been established.

setUser

public void **setUser**([IUser](#) user)
  throws [InquiraSecurityException](#)

Stores the authenticated user in the execution context.
 Note: This method should only be called from the Inquira infrastructure. The user can only be established once, any attempt to modify the already established user will result in an [InquiraSecurityException](#).

resetUser

public void **resetUser**()

Removes the user object from the execution context.
 Note: This method should only be called from the Inquira infrastructure.

language

public final com.inquira.util.i18n.Language **language**()

Returns the language for this application.

getDataFile

public final File **getDataFile**(String name)

Returns the file specified by name as specified by the relative path in the application data structure. If name is an absolute path, a File object is create directory from the argument. In all other cases the argument is interpreted relative to the application data directory.

getDataFile

public final File **getDataFile**(File file)

Returns the File object as specified by name as a relative path in the application data structure. If the file argument is a relative file object, then the application data directory is used as the base directory to resolve the file. If an absolute file object is passed in, it is returned unmodified.

getDataPath

public final String **getDataPath**(String name)

Returns the absolute path as specified by `name` as a relative path in the application data structure. If `name` is an absolute path, it is returned unmodified. In all other cases the argument is interpreted relative to the application data directory.

getProductFile

```
public final File getProductFile(String name)
```

Returns the file object that repesents the product file specified by `name`. If the file does not exist, a `InquiraRuntimeException` is thrown.

getProductPath

```
public final String getProductPath(String name)
```

Returns the absolute path that repesents the product file specified by `name`. If the file does not exist, a `InquiraRuntimeException` is thrown.

getBootstrapFile

```
public final File getBootstrapFile(String name)
```

Returns a file object that represents a file for bootstrap services specified by `name`.

createTempFile

```
public final File createTempFile()
    throws IOException
```

Creates a new temporary file in the instance-specific temporary directory.

createTempFile

```
public final File createTempFile(String prefix)
    throws IOException
```

Creates a new temporary file in the instance-specific temporary directory.

createTempFile

```
public final File createTempFile(String prefix,
        String suffix)
    throws IOException
```

Creates a new temporary file in the instance-specific temporary directory.

getRevision

```
public int getRevision()
```

Returns the current revision for this application.

getApplication

```
public Application getApplication()
```

Returns the application object.
 Note: This method should only be called from the Inquira infrastructure.

cloneOrSynchronizeApplication

public Execution **cloneOrSynchronizeApplication**()

This method needs to be called when a execution context is migrated from one thread to another. This currently should only happen in the gateway's request queue. It always creates a new execution context, either by calling synchronizeApplication(), or by invoking the copying constructor Execution(Application, Execution).
Note: This method should only be called from the Inquira infrastructure.

synchronizeApplication

public Execution **synchronizeApplication**()

This method needs to be called to make new application configuration avaiable
Note: This method should only be called from the Inquira infrastructure.

stringTable

public com.inquira.stringtable.StringTable **stringTable**()

Returns the application internal stringtable.

getServiceKey

public Key **getServiceKey**(String serviceName,
        String rawKey)
  throws TransportException

Returns the configuration key for rawKey for the service specified by serviceName. This method resolves which service configuration group was used to deploy the given service.
Note: This method should only be called from the Inquira infrastructure.

getName

public String **getName**()

Returns the getRawName() prefixed by "Application: &quot.

getRawName

public String **getRawName**()

Returns the name of the application only.

getUUID

public com.inquira.util.uuid.UUID **getUUID**()

Returns the UUID for the underlying application.

toString

public String **toString**()

Returns the identity string for the underlying application object, followed by the execution mode and the current thread name.

getInstance

```
public Instance getInstance()
```

     Returns the current instance object.

---

getActor

```
public String getActor()
```

     Returns the current actor that is active.

---

getActorId

```
public String getActorId()
```

     Returns the id for the currently active actor.

---

getStartTime

```
public long getStartTime()
```

     Returns the time when this instance was started.

---

getDeployedTime

```
public long getDeployedTime()
```

     Returns the time when the underlying application was deployed.

---

setExecutionMode

```
public ExecutionMode setExecutionMode(ExecutionMode mode)
  throws TransportException
```

Sets the #mode for this thread.
Note: This method should always be called in a try catch statement where the original mode is restored in the finally clause.

```
        ExecutionMode priorMode = null;
        try {
            priorMode = Execution.context( ).setExecutionMode( ExecutionMode.INDEXING );
            ...
        } finally {
            if( priorMode != null ) {
                try {
                    Execution.context( ).setExecutionMode( priorMode );
                } catch( TransportException ex ) {
                    // add error handling here
                }
            }
        }
    </xmp>


 The preferred way is to do the following:
    <xmp>
        Execution     context   = Execution.context( );
        ExecutionMode priorMode = null;
        try {
            if( context.isOperationAllowed( Execution.required operation ) == false ) {
                priorMode = Execution.context( ).setExecutionMode( ExecutionMode.INDEXING
);
            }
            ...
        } finally {
            if( priorMode != null ) {
                try {
                    Execution.context( ).setExecutionMode( priorMode );
                } catch( TransportException ex ) {
                    // add error handling here
                }
            }
        }
    </xmp>
```

getExecutionModeName

```
public String getExecutionModeName()
```

Returns the name of the execution mode this thread is context, hence this thread, is working in.
Note: This method should only be called from the Inquira infrastructure.

isOperationAllowed

public boolean **isOperationAllowed**(ExecutionOperation operation)

Checks whether operation is currently allowed to be executed.

isOperationAllowed

public boolean **isOperationAllowed**(InstanceRoleOperation operation)

Checks whether operation is currently allowed to be executed.

isOperationAllowed

public boolean **isOperationAllowed**(InstanceEnvironmentOperation operation)

Checks whether operation is currently allowed to be executed.

isOperationAllowed

public boolean **isOperationAllowed**(InstanceOperation operation)

Checks whether operation is currently allowed to be executed.

assureContext

public Execution **assureContext**(String newAppName)
  throws TransportException

Ensures that a context is set for the proper application.
 Note: The return code indicates if a prior execution context was associated w/ this trhread. It's usually good practive to restore the execution to the original one after work is completed on the other application. If the return code is null, then no previous execution context was replaced, and there is no need to reset the execution context after completion.

Parameters:
    newAppName - The aname of the application which should be used.

aas

public IAAS **aas**()

Returns the security service.

getPermission

public java.security.Permission **getPermission**(String permissionKey)

Return the permission object represented by the key permissionKey.

getConfiguredPermissions

public Map **getConfiguredPermissions**()

Returns all known non-content permissions.

getConfiguredContentPermissions

```
public Map getConfiguredContentPermissions()
```

Returns all content permissions.

hasAccess

```
public boolean hasAccess(java.security.Permission perm)
```

Checks whether the current user has access to permission `perm`.

hasAccess

```
public boolean hasAccess(String permissionKey)
```

Checks whether the current user has access to permission specified by it's key `permissionKey`.

unloadAsMuchAsPossible

```
public void unloadAsMuchAsPossible()
```

Releases all services that can be safely cleared.
 Note: This method should only be called from the Inquira infrastructure.

lock

```
public com.inquira.util.io.FileBasedLock lock(File file,
        String operation)
  throws IOException
```

Locks the specified file and writes a lock message to that file

lock

```
public com.inquira.util.io.FileBasedLock lock(com.inquira.util.io.FileBasedLock lock,
        String operation)
  throws IOException
```

Locks the specified file and writes a lock message to that file

release

```
public void release(com.inquira.util.io.FileBasedLock lock)
  throws IOException
```

Releases the file lock created by a prior call to `lock(File, String)`.

initLockInfo

```
public com.inquira.util.io.FileBasedLock initLockInfo(File file)
  throws IOException
```

Create the internal structures required for locking this file.

getOds

```
public com.inquira.analytics.Ods getOds()
```

Returns the ODS interface

reloadExternallyMaintainedServices

```
public void reloadExternallyMaintainedServices()
  throws TransportException,
         com.inquira.revision.RevisionException
```

checks if the data for services has changed through external processes. This is the especially application for the ontology so that the latest revision will be used for indexing.
Note: This method should only be called by the scheduler!

See Also:
initializeExternallyManagedServiceRMD

getAppLock

```
public com.inquira.util.IReadWriteLock getAppLock()
```

Returns a `lock` to prevent redeploying an application while it is still in used by functional code. If the internal variable holding this lock has not been initialized this can return null, to make sure that proper lock object is available rather user assureAppLock().

assureAppLock

```
public com.inquira.util.IReadWriteLock assureAppLock()
```

Returns a `lock` to prevent redeploying an application while it is still in used by functional code. If the internal variable holding this lock has not been initialized a new lock object is created and returned.

enterApplicationCode

```
public Execution enterApplicationCode()
```

Acquires read lock for the application so that it is save to proceed accessing application services. Calls enterApplicationCode() with false, so that it calls synchronizeApplication().
Note: The resulting Execution context must be set as the current Execution context, by calling setContext(Execution).

enterApplicationCode

```
public Execution enterApplicationCode(boolean cloneOrSynchronize)
```

Acquires read lock for the application so that it is save to proceed accessing application services. if cloneOrSynchronize is true, then we call cloneOrSynchronizeApplication(), else we call synchronizeApplication().
Note: The resulting Execution context must be set as the current Execution context, by calling setContext(Execution).

endThreadEvent

```
public void endThreadEvent()
```

leaveApplicationCode

```
public void leaveApplicationCode()
```

Releases read lock for the application after the current thread will no longer acccess services. Once no context/thread holds a read lock for the application it is then safe to redeploy the application.

com.inquira.infra
Class InquiraException

```
java.lang.Object
    |
    +-java.lang.Throwable
        |
        +-java.lang.Exception
            |
            +-com.inquira.infra.InquiraException
```

All Implemented Interfaces:
> com.inquira.log.Loggable, Serializable

Direct Known Subclasses:
> HandlerException, NavigationException, TransportException, InquiraSecurityException, CrawlerException

---

public abstract class **InquiraException**
extends Exception
implements Serializable, com.inquira.log.Loggable

Base of all Exceptions that are created within InQuira. The message can be formatted into a readable string similar to the log service and provides a mechanism to specify how an exception should be handled through its disposition mechanism.

Nested Class Summary

class	**InquiraException.Test** InquiraException.Test

Field Summary

public static final	**APPLICATION_FATAL** Disposition to indicate that the application is in a bad state. Value: **3**
public static final	**TRANSACTION_PERMANENT** Disposition to indicate that the current transaction cannot be processed. Value: **1**
public static final	**TRANSACTION_RETRY** Disposition to indicate that the current transaction cannot be processed, but a retry could succeed. Value: **2**
public static final	**UNKNOWN** Unknown disposition Value: **0**

Constructor Summary

public	**InquiraException**(Throwable cause) Creates a new exception with the cause being being set.
public	**InquiraException**(String id) Creates a new exception with the message id being set.

---

public		`InquiraException`(String id, Object[] args) Creates a new exception with the message id and arguments being set.
public		`InquiraException`(String id, Throwable cause) Creates a new exception with the message id and cause being set.
public		`InquiraException`(String id, Object[] args, Throwable cause) Creates a new exception with the message id, arguments and cause being set.
public		`InquiraException`(String id, Object[] args, int disposition) Creates a new exception with the message id, arguments and disposition being set.
public		`InquiraException`(String id, Object[] args, Throwable cause, int disposition) Creates a new exception with the message id, arguments, cause and disposition being set.
public		`InquiraException`(com.inquira.event.EventInstance eventInstance, Throwable cause)

Method Summary

Object[]		`getArguments`() Returns the arguments for this exception.
int		`getDisposition`() Returns the disposition for this exception.
com.inquira.event.EventInstance		`getEventInstance`() Returns the `com.inquira.event.EventInstance` that was used to create this exception.
String		`getFirstAndLastMessage`() Returns the descriptions of the first and last cause that triggered this exception.
static String		`getFirstAndLastMessage`(Throwable theT) Returns the descriptions of the first and last cause that triggered `theT`.
String		`getFirstAndLastStackTrace`() Returns the stack trace of the first and last Throwable that have caused this exception.
static String		`getFirstAndLastStackTrace`(Throwable theT) Returns the stack trace of the first and last Throwable that have caused this exception.
String		`getFullMessage`() Returns the descriptions of all causes that have triggered this exception.
static String		`getFullMessage`(Throwable theT) Returns the messages for the entire exception hierarchy.
String		`getFullStackTrace`() gets the full stacktrace in the more natural order of root cause first.
static String		`getFullStackTrace`(Throwable theT) gets the full stacktrace in the more natural order of root cause first.
String		`getID`() Returns the message id for this exception.
String		`getLogStackTrace`() gets the stacktrace for logging.

static String	`getLogStackTrace`(Throwable theT)	
	gets the stacktrace for logging.	
static Throwable	`getPortableCause`(Throwable t)	
	This method returns the causing Throwable if one exists.	
boolean	`instanceOf`(Class c)	
	Checks whether this exception or any of the nested causes are assignment-compatible with the passed class `c`.	
static boolean	`instanceOf`(Throwable t, Class c)	
	Checks whether the Throwable `t` or any of they nested causes are assignment-compatible to class `c`	
String	`printLogString`()	
	Returns the exception hierachy formatted by the root cause first, since it contains the realy reason for the failure.	
static String	`printLogString`(Throwable t)	
	Returns the formatted stack trace.	
void	`setArguments`(Object[] args)	
	Sets the arguments for this exception.	
void	`setDisposition`(int disposition)	
	Sets the disposition for this exception.	
String	`toFirstAndLastString`()	
	This method returns the exception name and descriptions of the first and last Throwable that have caused this exception.	
static String	`toFirstAndLastString`(Throwable theT)	
	This method returns the exception name and descriptions of the first and last Throwable for `theT`.	
String	`toFullString`()	
	Returns the exception name and descriptions of all Throwable that have caused this exception.	
static String	`toFullString`(Throwable theT)	
	Returns the exception name and descriptions of all Throwable that have caused this exception.	

Methods inherited from class `java.lang.Throwable`

`fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString`

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface `com.inquira.log.Loggable`

`printLogString`

Fields

UNKNOWN

`public static final int **UNKNOWN**`

Unknown disposition
Constant value: **0**

TRANSACTION_PERMANENT

`public static final int **TRANSACTION_PERMANENT**`

Disposition to indicate that the current transaction cannot be processed.
Constant value: **1**

TRANSACTION_RETRY

`public static final int **TRANSACTION_RETRY**`

Disposition to indicate that the current transaction cannot be processed, but a retry could succeed.
Constant value: **2**

APPLICATION_FATAL

`public static final int **APPLICATION_FATAL**`

Disposition to indicate that the application is in a bad state.
Constant value: **3**

Constructors

InquiraException

`public **InquiraException**(Throwable cause)`

Creates a new exception with the cause being being set.

InquiraException

`public **InquiraException**(String id)`

Creates a new exception with the message id being set.

InquiraException

`public **InquiraException**(String id,
                      Object[] args)`

Creates a new exception with the message id and arguments being set.

InquiraException

`public **InquiraException**(String id,
                      Throwable cause)`

Creates a new exception with the message id and cause being set.

InquiraException

```
public InquiraException(String id,
                        Object[] args,
                        Throwable cause)
```

    Creates a new exception with the message id, arguments and cause being set.

InquiraException

```
public InquiraException(String id,
                        Object[] args,
                        int disposition)
```

    Creates a new exception with the message id, arguments and disposition being set.

InquiraException

```
public InquiraException(String id,
                        Object[] args,
                        Throwable cause,
                        int disposition)
```

    Creates a new exception with the message id, arguments, cause and disposition being set.

InquiraException

```
public InquiraException(com.inquira.event.EventInstance eventInstance,
                        Throwable cause)
```

Methods

printLogString

```
public String printLogString()
```

    Returns the exception hierachy formatted by the root cause first, since it contains the realy reason for the failure. Internally it calls printLogString(Throwable) passing itself as the argument.

printLogString

```
public static String printLogString(Throwable t)
```

    Returns the formatted stack trace. Internally it calls Throwable.printStackTrace().

setDisposition

```
public void setDisposition(int disposition)
```

    Sets the disposition for this exception.

getID

```
public String getID()
```

    Returns the message id for this exception.

getDisposition

`public int getDisposition()`

Returns the disposition for this exception.

getArguments

`public Object[] getArguments()`

Returns the arguments for this exception.

setArguments

`public void setArguments(Object[] args)`

Sets the arguments for this exception.

getEventInstance

`public com.inquira.event.EventInstance getEventInstance()`

Returns the `com.inquira.event.EventInstance` that was used to create this exception.
 Note: This method can return null if no event instance was used to crate this exception.

instanceOf

`public boolean instanceOf(Class c)`

Checks whether this exception or any of the nested causes are assignment-compatible with the passed class `c`. The method calls `instanceOf(Throwable, Class)` to determine the return code.

instanceOf

`public static boolean instanceOf(Throwable t,
        Class c)`

Checks whether the Throwable `t` or any of they nested causes are assignment-compatible to class `c`

getFullMessage

`public String getFullMessage()`

Returns the descriptions of all causes that have triggered this exception. It puts the results of `Throwable.getMessage()` calls on separate lines. If #getMessage( ) returns null, we use the `Throwable.toString()` method and preface it with "Caused by a ". Internally calls `getFullMessage(Throwable)`

getFullMessage

`public static String getFullMessage(Throwable theT)`

Returns the messages for the entire exception hierarchy.

toFullString

`public String toFullString()`

Returns the exception name and descriptions of all Throwable that have caused this exception. It puts the results of toString( ) calls on separate lines. Internally calls `toFullString(Throwable)`

toFullString

`public static String` **`toFullString`**`(Throwable theT)`

> Returns the exception name and descriptions of all Throwable that have caused this exception.

getFirstAndLastMessage

`public String` **`getFirstAndLastMessage`**`()`

> Returns the descriptions of the first and last cause that triggered this exception. It puts the results of getMessage( ) calls on separate lines. If `getMessage( )` returns null we use the `Throwable.toString()` method and preface it w/ "Caused by a ". Internally calls getFirstAndLastMessage(Throwable)

getFirstAndLastMessage

`public static String` **`getFirstAndLastMessage`**`(Throwable theT)`

> Returns the descriptions of the first and last cause that triggered `theT`. It puts the results of getMessage( ) calls on separate lines. If `getMessage( )` returns null we use the `Throwable.toString()` method and preface it w/ "Caused by a ".

getFirstAndLastStackTrace

`public String` **`getFirstAndLastStackTrace`**`()`

> Returns the stack trace of the first and last Throwable that have caused this exception. Internally calls getFirstAndLastStackTrace(Throwable)

getFirstAndLastStackTrace

`public static String` **`getFirstAndLastStackTrace`**`(Throwable theT)`

> Returns the stack trace of the first and last Throwable that have caused this exception.

getLogStackTrace

`public String` **`getLogStackTrace`**`()`

> gets the stacktrace for logging. It returns the real cause first and then final resulting throwable. It is similar to getFirstAndLastStackTrace( ) but it reverses the order.

getLogStackTrace

`public static String` **`getLogStackTrace`**`(Throwable theT)`

> gets the stacktrace for logging.

getFullStackTrace

`public String` **`getFullStackTrace`**`()`

> gets the full stacktrace in the more natural order of root cause first.

getFullStackTrace

`public static String` **`getFullStackTrace`**`(Throwable theT)`

> gets the full stacktrace in the more natural order of root cause first.

toFirstAndLastString

```
public String toFirstAndLastString()
```

> This method returns the exception name and descriptions of the first and last Throwable that have caused this exception. It puts the results of toString( ) calls on separate lines. Internally calls toFirstAndLastString(Throwable)

toFirstAndLastString

```
public static String toFirstAndLastString(Throwable theT)
```

> This method returns the exception name and descriptions of the first and last Throwable for `theT`. It puts the results of toString( ) calls on separate lines.

getPortableCause

```
public static Throwable getPortableCause(Throwable t)
```

> This method returns the causing Throwable if one exists.
> **Note:** This method first calls `getCause( )`, this returns null, the it tries to locate a method with the following signature:
> `public Throwable getReason()`. If a method like this exists the method is invoked and resulting Throwable is returned. This is useful since we integrate with libraries that have not implemented the getCause method portably :(

com.inquira.infra
Class InquiraException.Test

```
java.lang.Object
   │
   +-com.inquira.infra.InquiraException.Test
```

public static class **InquiraException.Test**
extends Object

Test class

Constructor Summary

public	[InquiraException.Test](){#}()

Method Summary

static void	[main]()(String[] args)

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

InquiraException.Test

public **InquiraException.Test**()

Methods

main

```
public static void main(String[] args)
  throws Exception
```

com.inquira.infra
Class InquiraSecurityException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.InquiraException
                │
                +-com.inquira.infra.InquiraSecurityException
```

All Implemented Interfaces:
> INameConstants, Serializable, com.inquira.log.Loggable

Direct Known Subclasses:
> InquiraAuthenticationException

---

public class **InquiraSecurityException**
extends InquiraException
implements com.inquira.log.Loggable, Serializable, INameConstants

Base class for all exception that originate in the security service.

Fields inherited from class `com.inquira.infra.InquiraException`
APPLICATION_FATAL, TRANSACTION_PERMANENT, TRANSACTION_RETRY, UNKNOWN

Fields inherited from interface `com.inquira.request.INameConstants`
AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`
BINARY, TRUE

Constructor Summary

public	**InquiraSecurityException**(String id, Object[] args) Creates a new exception with the message id and arguments being set.
public	**InquiraSecurityException**(String id) Creates a new exception with the message id being set.
public	**InquiraSecurityException**(Throwable t) Creates a new exception with the cause being set.
public	**InquiraSecurityException**(String msg, Throwable t) Creates a new exception with the message id and cause being set.
public	**InquiraSecurityException**(Object[] args, Throwable t) Creates a new exception with the arguments and cause being set.
public	**InquiraSecurityException**(String id, Object[] args, Throwable t) Creates a new exception with the message id, arguments and cause being set.

Methods inherited from class com.inquira.infra.InquiraException

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage,
getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace,
getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID,
getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf,
printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString,
toFirstAndLastString, toFullString, toFullString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace,
initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface com.inquira.log.Loggable

printLogString

Constructors

InquiraSecurityException

public **InquiraSecurityException**(String id,
                                    Object[] args)

Creates a new exception with the message id and arguments being set.

InquiraSecurityException

public **InquiraSecurityException**(String id)

Creates a new exception with the message id being set.

InquiraSecurityException

```
public InquiraSecurityException(Throwable t)
```

Creates a new exception with the cause being set.

InquiraSecurityException

```
public InquiraSecurityException(String msg,
                                Throwable t)
```

Creates a new exception with the message id and cause being set.

InquiraSecurityException

```
public InquiraSecurityException(Object[] args,
                                Throwable t)
```

Creates a new exception with the arguments and cause being set.

InquiraSecurityException

```
public InquiraSecurityException(String id,
                                Object[] args,
                                Throwable t)
```

Creates a new exception with the message id, arguments and cause being set.

com.inquira.infra
Interface IRoleBasedUser

All Superinterfaces:
> IUser

---

public interface **IRoleBasedUser**
extends IUser

Represents users for role-based authorization schemes.

Method Summary

Set	getActiveRoles()
	Returns the currently active roles for this user.

Methods inherited from interface `com.inquira.infra.IUser`

dump, getAttribute, getDaysTillPasswordExpires, getDisplayName, getDomain, getEmailAddress, getLoginId, getPrincipal, getSecurityKeys, getSecurityPermissions, getSubject, getTimestamp, getUserId, hasAccess, hasPasswordExpired, isAnonymousUser, setAttribute, setDaysTillPasswordExpires

---

Methods

getActiveRoles

public Set **getActiveRoles**()

> Returns the currently active roles for this user.

---

com.inquira.infra
Interface IUser

All Subinterfaces:
> IRoleBasedUser

---

public interface **IUser**
extends Serializable

Highest abstraction layer for any user object.

Method Summary

void	**dump**() Dumps the state of the user object to stdout for debugging.
String	**getAttribute**(UserAttribute id) Returns the value for the given UserAttribute.
int	**getDaysTillPasswordExpires**() Returns information about when the password will expire and whether the user should be notified of the pending password expiration.
String	**getDisplayName**() Returns the display/real user name for this user.
String	**getDomain**() Returns the domain for this user.
String	**getEmailAddress**() Returns the email address of the user.
String	**getLoginId**() Returns the combination of the domain and user-id.
java.security.Principal	**getPrincipal**() Returns the Principal object for this user.
Set	**getSecurityKeys**() Returns the keys for all security permissions.
Set	**getSecurityPermissions**() Returns a set of all security permissions.
javax.security.auth.Subject	**getSubject**() Returns a new Subject object with the user's Principal added as the only known Principal.
long	**getTimestamp**() Returns the time this user was created/logged-in.
String	**getUserId**() Returns only the user-id for this user.
boolean	**hasAccess**(java.security.Permission perm) Checks whether the user has access to the given permission.

---

boolean	[hasPasswordExpired](#)() Checks whether the password has expired.	
boolean	[isAnonymousUser](#)() Checks whether the given user object represents the anonymous user.	
void	[setAttribute](#)([UserAttribute](#) id, String value) Sets the value for the given UserAttribute.	
void	[setDaysTillPasswordExpires](#)(int daysTillPasswordExpires) Sets the number of days until the password expires.	

Methods

getSubject

public javax.security.auth.Subject **getSubject**()

Returns a new Subject object with the user's Principal added as the only known Principal.

getPrincipal

public java.security.Principal **getPrincipal**()

Returns the Principal object for this user.

getUserId

public String **getUserId**()

Returns only the user-id for this user.

getDomain

public String **getDomain**()

Returns the domain for this user.

getDisplayName

public String **getDisplayName**()

Returns the display/real user name for this user.

getEmailAddress

public String **getEmailAddress**()

Returns the email address of the user.

getLoginId

public String **getLoginId**()

Returns the combination of the domain and user-id. It uses the following format: `<domain>\\<user-id>`.
 Note: If the login id is to be used to create files/directories, special care needs to be taken, since '\\' is a special character in Windows-based systems, but not in *nix systems.

getTimestamp

```
public long getTimestamp()
```

Returns the time this user was created/logged-in.

isAnonymousUser

```
public boolean isAnonymousUser()
```

Checks whether the given user object represents the anonymous user.

hasPasswordExpired

```
public boolean hasPasswordExpired()
```

Checks whether the password has expired. **Note:** This is not useful outside of the security system, since the we throw an exception and don't allow the user object to leave the security service.

getDaysTillPasswordExpires

```
public int getDaysTillPasswordExpires()
```

Returns information about when the password will expire and whether the user should be notified of the pending password expiration. If the return code is Integer.MAX_VALUE, then the password will expired in the distant future and the user is not to be bothered by it. If the return code is greater than or equal to 0 and less than Integer.MAX_VALUE, then the password will expire soon and the user should be informed. If the return code is < 0, the password has already expired
 Note: This should not be possible since the security service should not allow a user object to leave if the password has expired.

setDaysTillPasswordExpires

```
public void setDaysTillPasswordExpires(int daysTillPasswordExpires)
```

Sets the number of days until the password expires. A negative value means that the password has already expired. If the value is Integer.MAX_VALUE the days till expire warning is not displayed.

getAttribute

```
public String getAttribute(UserAttribute id)
```

Returns the value for the given UserAttribute. The method can return `null` if requested information is not available for this user.

Parameters:
    `id` - the user attribute to access.

Returns:
    the value of the user attribute identifier by `id` for this user.

setAttribute

```
public void setAttribute(UserAttribute id,
        String value)
```

Sets the value for the given UserAttribute.

(continued from last page)

Parameters:
 `id` - the user attribute to access.
 `value` - the value for this user attribute.

hasAccess

`public boolean `**`hasAccess`**`(java.security.Permission perm)`

Checks whether the user has access to the given permission.

Returns:
 indicator of the user's access rights to the given permission.

getSecurityPermissions

`public Set `**`getSecurityPermissions`**`()`

Returns a set of all [security permissions](#).

Returns:
 the set of all security permissions this user has access to.

getSecurityKeys

`public Set `**`getSecurityKeys`**`()`

Returns the [keys](#) for all security permissions.

Returns:
 the set of the keys for all security permissions this user has access to.

See Also:
 [getSecurityPermissions()](#)

dump

`public void `**`dump`**`()`

Dumps the state of the user object to stdout for debugging.

Package
com.inquira.infra.client

This package contains common classes and interfaces for the `client` abstraction.

com.inquira.infra.client
Class ClientException

```
java.lang.Object
    |
    +-java.lang.Throwable
          |
          +-java.lang.Exception
                |
                +-com.inquira.infra.client.ClientException
```

All Implemented Interfaces:
> Serializable

Direct Known Subclasses:
> [AgentException](#)

---

public class **ClientException**
extends Exception

Transparent access for both JDK 1.3 and JDK 1.4 and higher.

Constructor Summary

public	[ClientException](#)(String type)
public	[ClientException](#)(String type, Throwable t)

Method Summary

Throwable	[getCause](#)()
String	[getMessage](#)()
Throwable	[initCause](#)(Throwable t)
static void	[main](#)(String[] args)
void	[printStackTrace](#)()
void	[printStackTrace](#)(PrintStream ps)
void	[printStackTrace](#)(PrintWriter pw)
String	[toString](#)()

Methods inherited from class java.lang.Throwable
fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

---

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

ClientException

public **ClientException**(String type)

ClientException

public **ClientException**(String type,
                          Throwable t)

Methods

getMessage

public String **getMessage**()

printStackTrace

public void **printStackTrace**()

printStackTrace

public void **printStackTrace**(PrintWriter pw)

printStackTrace

public void **printStackTrace**(PrintStream ps)

toString

public String **toString**()

initCause

public Throwable **initCause**(Throwable t)

getCause

```
public Throwable getCause()
```

main

```
public static void main(String[] args)
```

getCause

```
public Throwable getCause()
```

com.inquira.infra.client
Interface IClient

All Known Implementing Classes:
> Client

---

public interface **IClient**

This interface serves as the abstraction for all access to the request processing facilities. Since it must support non-Java based access the methods in this interface use very simple data types that can be mapped easily to other environments.
 There is a specific order in which these methods must be called:

- Create new instance that implements this interface
- Call setConnectionProperties(Properties) passing in client specific configuration.
- Call connect().
- Call process(String) or processToHTML(String) one or multiple times.
- Call disconnect().

Note: There exists a convenience class Client that can create IClient ojbects, set the configuration and connect them in it's

constructor. It is the prefered way of creating IClient object.

Method Summary

void	**connect**() This method establishes a communication link to the request processing facilities.
void	**disconnect**() This methods disconnects from the request processing facilities.
String	**getProcessorAddress**() Returns information about where the request processor is located, that will be used by this client instance to process requests.
String	**process**(String request) This method processes the request that is passed in it's string representation and returns the string representation of the response.
FormattedResponse	**processToHTML**(String request) This method processes the request that is passed in it's string representation and returns the final HTML response.
void	**setConnectionProperties**(Properties props) This method configures the communication mechanism.

Methods

setConnectionProperties

public void **setConnectionProperties**(Properties props)

> This method configures the communication mechanism. This method must be called before calling connect().

---

connect

```
public void connect()
   throws ClientException
```

This method establishes a communication link to the request processing facilities. This might be a noop in case of a connectionless communications method.

disconnect

```
public void disconnect()
   throws ClientException
```

This methods disconnects from the request processing facilities.

process

```
public String process(String request)
   throws ClientException
```

This method processes the request that is passed in it's string representation and returns the string representation of the response.

processToHTML

```
public FormattedResponse processToHTML(String request)
   throws ClientException
```

This method processes the request that is passed in it's string representation and returns the final HTML response. There are certain limitations to this method so it should only be used after careful evaluation.

getProcessorAddress

```
public String getProcessorAddress()
```

Returns information about where the request processor is located, that will be used by this client instance to process requests.

Package
com.inquira.infra.client.soap13

This package contains client implementation than can access the SOAP gateway but does not require the search infrastructure to be available. This allows this client to be used in conjunction with the j2eeagent web application.
 Note: This client requires only J2SE 1.3.

com.inquira.infra.client.soap13
Class Client

```
java.lang.Object
    │
    +-com.inquira.infra.client.soap13.Client
```

All Implemented Interfaces:
> [IClient](#)

---

public class **Client**
extends Object
implements [IClient](#)

This class implements a JDK 1.3 compatible SOAP client. The configuration options are:

- url -- full url the standalone soap gateway is configured
- urn -- the service id (urn) of the standalone soap gateway. The default is "urn:inquira".

Field Summary

public static final	[TIMEOUT](#) Value: **timeout**
public static final	[URL](#) Value: **url**
public static final	[URN](#) Value: **urn**

Constructor Summary

public	[Client](#)()

Method Summary

void	[connect](#)()
void	[disconnect](#)()
String	[getProcessorAddress](#)()
String	[process](#)(String inXML)
FormattedResponse	[processToHTML](#)(String inXML)
void	[setConnectionProperties](#)(Properties props)

Methods inherited from class java.lang.Object

---

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface com.inquira.infra.client.IClient

connect, disconnect, getProcessorAddress, process, processToHTML,
setConnectionProperties

Fields

URL

public static final java.lang.String **URL**

Constant value: **url**

URN

public static final java.lang.String **URN**

Constant value: **urn**

TIMEOUT

public static final java.lang.String **TIMEOUT**

Constant value: **timeout**

Constructors

Client

public **Client**()

Methods

setConnectionProperties

public void **setConnectionProperties**(Properties props)

process

public String **process**(String inXML)
  throws ClientException

processToHTML

```
public FormattedResponse processToHTML(String inXML)
  throws ClientException
```

connect

```
public void connect()
  throws ClientException
```

disconnect

```
public void disconnect()
  throws ClientException
```

getProcessorAddress

```
public String getProcessorAddress()
```

```
public FormattedResponse processToHTML(String inXML)
  throws ClientException
```

Package
com.inquira.infra.gateway

This package contains the implementation of the `gateway service`.

com.inquira.infra.gateway
Class AgentException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.client.ClientException
                │
                +-com.inquira.infra.gateway.AgentException
```

All Implemented Interfaces:
Serializable

---

public class **AgentException**
extends ClientException

Exceptions thrown by the agents, since `ClientException` is JDK 1.3 compatible, so is this class!

Field Summary

public static	UNKNOWN_ERROR

Constructor Summary

public	AgentException(String msg)
public	AgentException(String type, String msg)
public	AgentException(String msg, Throwable t)
public	AgentException(String type, String msg, Throwable t)
public	AgentException(Throwable t)

Method Summary

String	getMessageCode()
static void	main(String[] args)

Methods inherited from class com.inquira.infra.client.ClientException

getCause, getMessage, initCause, main, printStackTrace, printStackTrace, printStackTrace, toString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

---

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Fields

UNKNOWN_ERROR

```
public static java.lang.String UNKNOWN_ERROR
```

Constructors

AgentException

```
public AgentException(String msg)
```

AgentException

```
public AgentException(String type,
                      String msg)
```

AgentException

```
public AgentException(String msg,
                      Throwable t)
```

AgentException

```
public AgentException(String type,
                      String msg,
                      Throwable t)
```

AgentException

```
public AgentException(Throwable t)
```

Methods

getMessageCode

```
public String getMessageCode()
```

main

```
public static void main(String[] args)
```

main

```
public static void main(String[] args)
```

com.inquira.infra.gateway
Interface AgentRequest

public interface **AgentRequest**
extends Serializable

This interface must be implemented by all "request classes" that are processed by agents.
See Also:
> AgentResponse, Agent, Agent

Method Summary

void	addArgument(String name, String value) Adds name-value pair for `name` and `value`.
void	addUserAgentRequestAttribute(String name, String value) Adds name-value pair for user request attributes `name` and `value`.
void	addUserAgentRequestHeader(String name, String value) Adds name-value pair for user request headers `name` and `value`.
void	addUserAgentRequestParameter(String name, String value) Adds name-value pair for user request parameters `name` and `value`.

Methods

addArgument

public void **addArgument**(String name,
        String value)

> Adds name-value pair for `name` and `value`.

addUserAgentRequestParameter

public void **addUserAgentRequestParameter**(String name,
        String value)

> Adds name-value pair for user request parameters `name` and `value`.

addUserAgentRequestHeader

public void **addUserAgentRequestHeader**(String name,
        String value)

> Adds name-value pair for user request headers `name` and `value`.

addUserAgentRequestAttribute

public void **addUserAgentRequestAttribute**(String name,
        String value)

> Adds name-value pair for user request attributes `name` and `value`.

com.inquira.infra.gateway
Interface AgentResponse

public interface **AgentResponse**
extends Serializable

This interface must be implemented by all "response classes" that are used by agents.
See Also:
> AgentRequest, Agent, Agent

Method Summary

String	getLanguage() Returns the language for this request.

Methods

getLanguage

public String **getLanguage**()

> Returns the language for this request.

Package
com.inquira.infra.gateway.html

This package contains the server HTTP gateway, that can execute request directly through the instance's gateway service.
 Note: This gateway requires J2SE 1.4 or higher and the container must support servlet spec 2.3 or higher.

com.inquira.infra.gateway.html
Class AbstractAgent

```
java.lang.Object
    │
    +-com.inquira.infra.gateway.AbstractAgent
        │
        +-com.inquira.infra.gateway.html.AbstractAgent
```

All Implemented Interfaces:
>   com.inquira.log.ILogConstants, IRequestNames, INameConstants, com.inquira.log.ILogConstants

Direct Known Subclasses:
>   Agent, Agent

---

public abstract class **AbstractAgent**

extends AbstractAgent

implements com.inquira.log.ILogConstants, INameConstants, IRequestNames, com.inquira.log.ILogConstants

Builds the base for Java web based agents and defines all common functionality for XSL based agents.

The flow of all method (processXYZ) is the same and consists of the following steps:

1. Create a request with the correct request type calling createRequest(String)
2. Populate the request with all required parameters
3. Invoke the operation on the client by calling processRequest(AgentRequest)
4. On successful completion of the client operation the response is created and send to the browser by calling transformResponse(Templates, AgentRequest, AgentResponse)
5. If an exception was encountered the method handleException(Throwable, AgentRequest, AgentResponse) is called

---

Field Summary

public static final	**HTTP_PARAM_ACTION**
	    HTTP request parameter name for action to be performed.
	     Value: **iq_action**

public static final	**HTTP_PARAM_AGENT_ADDRESS**
	    HTTP request parameter name for agent address that received HTTP request.
	     Value: **agentAddress**

public static final	**HTTP_PARAM_ANSWER_ID**
	    HTTP request parameter name for answer id.
	     Value: **answer_id**

public static final	**HTTP_PARAM_ANSWER_RELATED_IDS**
	    HTTP request parameter name for related answer ids for the processed answer.
	     Value: **related_ids**

public static final	**HTTP_PARAM_ANSWER_START**
	    HTTP request parameter name for tracked url for starting answer index for current page.
	     Value: **page_start**

---

public static final	HTTP_PARAM_ANSWER_URL
	    HTTP request parameter name for answer url.
	     Value: **answer_url**

public static final	HTTP_PARAM_APPLICATION
	    HTTP request parameter name for specify application name.
	     Value: **application**

public static final	HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST
	    HTTP request parameter name for CCA list of interal solution that are associated with the given service request.
	     Value: **solutions**

public static final	HTTP_PARAM_CCA_CASE_DESC
	    HTTP request parameter name for cca case description.
	     Value: **cca_case_desc**

public static final	HTTP_PARAM_CCA_CONNECTED_FLAG
	    HTTP request parameter name for CCA flag indicating if session is maintained within the integrating system.
	     Value: **cca_connected**

public static final	HTTP_PARAM_CCA_CONTENT_ID
	    HTTP request parameter name for cca content id.
	     Value: **cca_content_id**

public static final	HTTP_PARAM_CCA_EXT_SOL_LIST
	    HTTP request parameter name for CCA list of external solution that are associated with the given service request.
	     Value: **ext_sol**

public static final	HTTP_PARAM_CCA_SR_KEY
	    HTTP request parameter name for CCA service request key.
	     Value: **sr_key**

public static final	HTTP_PARAM_CCA_SYSTEM
	    HTTP request parameter name for CCA system.
	     Value: **cca_system**

public static final	HTTP_PARAM_CCA_TYPES
	    HTTP request parameter name for CCA object types.
	     Value: **cca_types**

public static final	HTTP_PARAM_CONTACT_RESPONSE
	    HTTP request parameter name for contact deflection response.
	     Value: **response**

public static final	HTTP_PARAM_DIRECTION
	    HTTP request parameter name for paging direction (prior, next, or current).
	     Value: **direction**

public static final	HTTP_PARAM_DIRECTION_CURRENT
	    Value for HTTP request parameter HTTP_PARAM_DIRECTION that resends the current page.
	     Value: **current**

public static final	**HTTP_PARAM_DIRECTION_NEXT**	
	Value for HTTP request parameter HTTP_PARAM_DIRECTION that paging to the next page. Value: **next**	
public static final	**HTTP_PARAM_DIRECTION_PREVIOUS**	
	Value for HTTP request parameter HTTP_PARAM_DIRECTION that paging to the previous page. Value: **previous**	
public static final	**HTTP_PARAM_DOMAIN_GROUP**	
	HTTP request parameter name for specify domain group for this request. Value: **domaingroup**	
public static final	**HTTP_PARAM_FACET**	
	HTTP request parameter name for facet Id. Value: **facet**	
public static final	**HTTP_PARAM_FACET_COLLECTION_ID**	
	HTTP request parameter name for facet collection id. Value: **facetCollectionID**	
public static final	**HTTP_PARAM_FACET_RESET**	
	HTTP request parameter name for flag indicating that all facet restrictions should be reset. Value: **facetReset**	
public static final	**HTTP_PARAM_FACET_SHOW_ALL**	
	HTTP request parameter name for flag indicating if all facets should be shown. Value: **facetShowAll**	
public static final	**HTTP_PARAM_HIGHLIGHT_INFO**	
	HTTP request parameter name for highlighting information. Value: **highlight_info**	
public static final	**HTTP_PARAM_LANGUAGE**	
	HTTP request parameter name for specify language for this request. Value: **language**	
public static final	**HTTP_PARAM_MODE**	
	HTTP request parameter name for ui mode. Value: **ui_mode**	
public static final	**HTTP_PARAM_MODE_ADD_SOLUTION**	
	Value for HTTP request parameter HTTP_PARAM_MODE that triggers adding of solutions to a service request in CCA. Value: **add_solution**	
public static final	**HTTP_PARAM_MODE_ADMIN**	
	Value for HTTP request parameter HTTP_PARAM_MODE that handles application configuration. Value: **admin**	
public static final	**HTTP_PARAM_MODE_ANSWER**	
	Value for HTTP request parameter HTTP_PARAM_MODE that operates on a single answer (highlighting, click-through, etc.). Value: **answer**	

public static final	**HTTP_PARAM_MODE_ANSWER_CONTACT** Value for HTTP request parameter HTTP_PARAM_MODE that operates on a single answer during contact deflection. Value: **answer_contact**
public static final	**HTTP_PARAM_MODE_CCA_REFRESH** Value for HTTP request parameter HTTP_PARAM_MODE that triggers CCA refresh. Value: **refresh**
public static final	**HTTP_PARAM_MODE_CHECK_RESOURCE** Value for HTTP request parameter HTTP_PARAM_MODE that class information lookup. Value: **check_resource**
public static final	**HTTP_PARAM_MODE_DUMMY** Value for HTTP request parameter HTTP_PARAM_MODE that handles the dummy request. Value: **dummy**
public static final	**HTTP_PARAM_MODE_FEEDBACK** Value for HTTP request parameter HTTP_PARAM_MODE that handles user feedback. Value: **feedback**
public static final	**HTTP_PARAM_MODE_FINISH_WIZARD** Value for HTTP request parameter HTTP_PARAM_MODE that signals the completion of a process wizard. Value: **wizard_finish**
public static final	**HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS** Value for HTTP request parameter HTTP_PARAM_MODE that retrieves workclient status. Value: **getstatus**
public static final	**HTTP_PARAM_MODE_GET_SESSION_STATE** Value for HTTP request parameter HTTP_PARAM_MODE that retrieves state information during contact deflection. Value: **get_session_state**
public static final	**HTTP_PARAM_MODE_GETPAGE** Value for HTTP request parameter HTTP_PARAM_MODE that retrieves a static page, such as help screens. Value: **get_page**
public static final	**HTTP_PARAM_MODE_GETPAGE_CONTACT** Value for HTTP request parameter HTTP_PARAM_MODE that retrieves static pages during contact deflection. Value: **get_page_contact**
public static final	**HTTP_PARAM_MODE_INITIAL_CONTACT** Value for HTTP request parameter HTTP_PARAM_MODE that shows the initial contact deflection screen. Value: **initial_contact**
public static final	**HTTP_PARAM_MODE_INITIAL_SCREEN** Value for HTTP request parameter HTTP_PARAM_MODE that triggers the initial screen to be displayed. Value: **initial_screen**

public static final	HTTP_PARAM_MODE_LOGIN
	Value for HTTP request parameter HTTP_PARAM_MODE that triggeres a login page to be displayed. Value: **login**
public static final	HTTP_PARAM_MODE_NAVIGATE
	Value for HTTP request parameter HTTP_PARAM_MODE that handles personal navigation. Value: **navigate**
public static final	HTTP_PARAM_MODE_PAGING
	Value for HTTP request parameter HTTP_PARAM_MODE that handles paging. Value: **paging**
public static final	HTTP_PARAM_MODE_PAGING_CONTACT
	Value for HTTP request parameter HTTP_PARAM_MODE that paging during contact deflection. Value: **paging_contact**
public static final	HTTP_PARAM_MODE_QUESTION
	Value for HTTP request parameter HTTP_PARAM_MODE that answers a question. Value: **question**
public static final	HTTP_PARAM_MODE_QUESTION_CONTACT
	Value for HTTP request parameter HTTP_PARAM_MODE that shows the contact question screen. Value: **question_contact**
public static final	HTTP_PARAM_MODE_REMOVE_SOLUTION
	Value for HTTP request parameter HTTP_PARAM_MODE that triggers removing of solutions to a service request in CCA. Value: **remove_solution**
public static final	HTTP_PARAM_MODE_RESPOND_CONTACT
	Value for HTTP request parameter HTTP_PARAM_MODE that shows the contact response screen. Value: **response_contact**
public static final	HTTP_PARAM_MODE_SEARCH_WITHIN
	Value for HTTP request parameter HTTP_PARAM_MODE that triggers search within. Value: **search_within**
public static final	HTTP_PARAM_MODE_UTILITY
	Value for HTTP request parameter HTTP_PARAM_MODE that handles trouble shooting utility. Value: **utility**
public static final	HTTP_PARAM_MODE_WORKCLIENT
	Value for HTTP request parameter HTTP_PARAM_MODE that on/off workclient. Value: **workclient**
public static final	HTTP_PARAM_NAVIGATION_PURPOSE
	HTTP request parameter name for navigation purpose. Value: **navigation_purpose**
public static final	HTTP_PARAM_NEW_PAGE_SIZE
	HTTP request parameter name for tracked url for current page size. Value: **answers_shown**

public static final	HTTP_PARAM_OPERATION HTTP request parameter name for trouble shooting utility operation. Value: **operation**
public static final	HTTP_PARAM_PAGE_NUMBER HTTP request parameter name for tracked url for current page number. Value: **page_number**
public static final	HTTP_PARAM_PAGE_SIZE HTTP request parameter name for tracked url for current page size. Value: **page_size**
public static final	HTTP_PARAM_PRIOR_TRANSACTION_ID HTTP request parameter name for prior transaction id (transaction id that triggered a question). Value: **prior_transaction_id**
public static final	HTTP_PARAM_PROCESSOR_ADDRESS HTTP request parameter name for processor address that received InQuira request. Value: **processorAddress**
public static final	HTTP_PARAM_QUESTION HTTP request parameter name for question to be answered. Value: **question_box**
public static final	HTTP_PARAM_REQUEST_TYPE HTTP request parameter name for request type. Value: **request**
public static final	HTTP_PARAM_RESULT_LANGUAGE HTTP request parameter name for specify result language for this request. Value: **result_language**
public static final	HTTP_PARAM_SCREEN HTTP request parameter name for specify admin screen name. Value: **screen**
public static final	HTTP_PARAM_SEARCH_WITHIN HTTP request parameter name for flag indicating that a search with in a document should be performed. Value: **searchWithin**
public static final	HTTP_PARAM_SEARCH_WITHIN_ENCODING HTTP request parameter name for search within information. Value: **search_within_encoding**
public static final	HTTP_PARAM_SEARCH_WITHIN_URL HTTP request parameter name for search within document url. Value: **search_within_url**
public static final	HTTP_PARAM_SEGMENT HTTP request parameter name for specify user segement for this request. Value: **segment**
public static final	HTTP_PARAM_STRUCTURED_CHART HTTP request parameter name for structured result handling. Value: **structured_chart**

public static final	HTTP_PARAM_SUB_ACTION	
	HTTP request parameter name for sub action id.	
	Value: **id**	
public static final	HTTP_PARAM_SUBJECT	
	HTTP request parameter name for specify subject for this request.	
	Value: **QuestionType**	
public static final	HTTP_PARAM_TRACKED_URL	
	HTTP request parameter name for tracked url for highlighting and click-through tracking.	
	Value: **turl**	
public static final	HTTP_PARAM_USER_FEEDBACK	
	HTTP request parameter name for user textual feedback.	
	Value: **feedback**	
public static final	HTTP_PARAM_USER_RATING	
	HTTP request parameter name for user numerical rating.	
	Value: **rating**	
public static final	HTTP_PARAM_WIZARD_ID	
	Value: **wizard_id**	
public static final	HTTP_SESSION_KEY	
	key where we store our session in the http session	
	Value: **com.inquira.session**	
public static final	HTTP_SESSION_LANGUAGE_KEY	
	key where the language of the session is stored	
	Value: **com.inquira.language**	
public static final	REQUEST_BASE_URL	
	Request parameter name for the baseURL for all relative URLs.	
	Value: **baseURL**	

Fields inherited from class `com.inquira.infra.gateway.AbstractAgent`

ADMIN_TEMPLATE, CCA_TEMPLATE, CONTACT_TEMPLATE, INFO_TEMPLATE, infoNoStyleTemplate,
INITIAL_SCREEN_TEMPLATE, processAnswerStyleTemplate, QUESTION_ANSWER_TEMPLATE,
questionAnswerStyleTemplate

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

public	**AbstractAgent**(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding, boolean loadTemplates) Constructor for HTTP servlet and JSP based integration.
public	**AbstractAgent**(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out, boolean loadTemplates) Constructor for JSP based integration only.
public	**AbstractAgent**(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out, String charEncoding, boolean loadTemplates) Constructor for JSP based integration only, that also specifies the character encoding for this request.

Method Summary

void	**disableDebugMode**() Disables entering debug mode, in this mode the request and response XML are sent to the browser.
static String	**establishCharEncoding**(javax.servlet.ServletConfig config, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response) Sets the character encoding for the `HttpServeltRequest` to the first non-null value detected by the steps below:
String	**getBaseURL**() Returns the base url parameter to add to the Inquira request.
static boolean	**getBoolean**(String input) Returns the `boolean` value of `input`.
AgentResponse	**getSessionState**(int prior) This message should be called during the escalation process of contact deflection.
abstract Object	**handleException**(Throwable t, AgentRequest rq, AgentResponse rs) Handles exceptions that occur during processing of the request in the Agent.
Object	**processAddSolutionCCAMode**() Handles request to add solution(s) to a service request in CCA.
Object	**processAdminMode**() Handles system configuration tool requests.
Object	**processAnswerCCAMode**() Handles answer based request, such as click-through tracking and highlighting, during CCA processing.
Object	**processAnswerContactMode**() Handles answer based request, such as click-through tracking and highlighting, during contact deflection.
Object	**processAnswerMode**() Handles answer based request, such as click-through tracking and highlighting.

Object	`processCCAFinishWizard()`	
	Handles request at the completion of a process wizard in CCA mode, which will display the question box again.	
void	`processCheckLocation()`	
	Handles request for debug utility to verify class loading and versioning problems.	
void	`processDummyMode()`	
	Handles simple verification request.	
Object	`processFeedbackCCAMode()`	
	Handles user feedback request during CCA processing.	
Object	`processFeedbackMode()`	
	Handles user feedback request.	
Object	`processFinishWizard()`	
	Handles request at the completion of a process wizard, which will display the question box again.	
Object	`processGetInfo()`	
	Handles content investigation tool requests.	
Object	`processGetPage()`	
	Handles request to return static pages.	
Object	`processGetPageCCA()`	
	Handles request to return static pages during CCA operation.	
Object	`processGetPageContactMode()`	
	Handles request to return static pages during contact deflection.	
Object	`processGetSessionState()`	
	This method should be called if the escalation page should be generated by a customed XSL template.	
Object	`processGetStatus()`	
Object	`processInitialCCAScreen()`	
	Handles request to display the initial CCA screen.	
Object	`processInitialContact()`	
	Handles request to display the initial contact deflection screen.	
Object	`processInitialScreen()`	
	Handles request to display the initial question answering screen.	
Object	`processInvalidMode(String mode)`	
	Processes case where no matching mode can be found.	
Object	`processLoginMode()`	
	Handles login requests if InQuira is used to authenticate users.	
Object	`processNavigateCCAMode()`	
	Handles personalized navigation requests, during CCA processing.	
Object	`processNavigateMode()`	
	Handles personalized navigation requests.	

Object	processPagingCCAMode() Handles answer paging requests during CCA processing.
Object	processPagingContactMode() Handles answer paging requests during contact deflection.
Object	processPagingMode() Handles answer paging requests.
Object	processQuestionCCAMode() Handles answer question requests during CCA processing.
Object	processQuestionContactMode() Handles answer question requests, during content deflection.
Object	processQuestionMode() Handles answer question requests.
Object	processRefreshCCAMode() Handles request to refresh the state of the CCA session.
Object	processRemoveSolutionCCAMode()
Object	processRespondContactMode() Handles request for the contact deflection response stage.
Object	processSearchWithin() Handles search-within a specific document requests.
Object	processUtilRequest() Processes debug utility requests.
void	reloadTemplates() Reloades the XSL templates.
void	setConfiguredBaseURL(String baseURL, boolean fullBaseURL) Establishes the base URL that is used for the Inquira request.
abstract Object	transformResponse(javax.xml.transform.Templates templates, AgentRequest rq, AgentResponse rs) Handles generating HTML from the XML based response.

Methods inherited from class `com.inquira.infra.gateway.AbstractAgent`

assureTemplates, assureTemplates, getTemplate

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

HTTP_SESSION_KEY

public static final java.lang.String **HTTP_SESSION_KEY**

key where we store our session in the http session

Constant value: `com.inquira.session`

HTTP_SESSION_LANGUAGE_KEY

public static final java.lang.String **HTTP_SESSION_LANGUAGE_KEY**

key where the language of the session is stored
Constant value: `com.inquira.language`

HTTP_PARAM_ACTION

public static final java.lang.String **HTTP_PARAM_ACTION**

HTTP request parameter name for action to be performed.
Constant value: `iq_action`

HTTP_PARAM_SUB_ACTION

public static final java.lang.String **HTTP_PARAM_SUB_ACTION**

HTTP request parameter name for sub action id.
Constant value: `id`

HTTP_PARAM_ANSWER_ID

public static final java.lang.String **HTTP_PARAM_ANSWER_ID**

HTTP request parameter name for answer id.
Constant value: `answer_id`

HTTP_PARAM_ANSWER_URL

public static final java.lang.String **HTTP_PARAM_ANSWER_URL**

HTTP request parameter name for answer url.
Constant value: `answer_url`

HTTP_PARAM_ANSWER_RELATED_IDS

public static final java.lang.String **HTTP_PARAM_ANSWER_RELATED_IDS**

HTTP request parameter name for related answer ids for the processed answer.
Constant value: `related_ids`

HTTP_PARAM_QUESTION

public static final java.lang.String **HTTP_PARAM_QUESTION**

HTTP request parameter name for question to be answered.
Constant value: `question_box`

HTTP_PARAM_HIGHLIGHT_INFO

public static final java.lang.String **HTTP_PARAM_HIGHLIGHT_INFO**

HTTP request parameter name for highlighting information.
Constant value: `highlight_info`

HTTP_PARAM_MODE

public static final java.lang.String **HTTP_PARAM_MODE**

> HTTP request parameter name for ui mode.
> Constant value: **ui_mode**

HTTP_PARAM_REQUEST_TYPE

public static final java.lang.String **HTTP_PARAM_REQUEST_TYPE**

> HTTP request parameter name for request type.
> Constant value: **request**

HTTP_PARAM_PRIOR_TRANSACTION_ID

public static final java.lang.String **HTTP_PARAM_PRIOR_TRANSACTION_ID**

> HTTP request parameter name for prior transaction id (transaction id that triggered a question).
> Constant value: **prior_transaction_id**

HTTP_PARAM_DIRECTION

public static final java.lang.String **HTTP_PARAM_DIRECTION**

> HTTP request parameter name for paging direction (prior, next, or current).
> Constant value: **direction**

HTTP_PARAM_USER_FEEDBACK

public static final java.lang.String **HTTP_PARAM_USER_FEEDBACK**

> HTTP request parameter name for user textual feedback.
> Constant value: **feedback**

HTTP_PARAM_USER_RATING

public static final java.lang.String **HTTP_PARAM_USER_RATING**

> HTTP request parameter name for user numerical rating.
> Constant value: **rating**

HTTP_PARAM_NAVIGATION_PURPOSE

public static final java.lang.String **HTTP_PARAM_NAVIGATION_PURPOSE**

> HTTP request parameter name for navigation purpose.
> Constant value: **navigation_purpose**

HTTP_PARAM_TRACKED_URL

public static final java.lang.String **HTTP_PARAM_TRACKED_URL**

> HTTP request parameter name for tracked url for highlighting and click-through tracking.
> Constant value: **turl**

HTTP_PARAM_ANSWER_START

public static final java.lang.String **HTTP_PARAM_ANSWER_START**

HTTP request parameter name for tracked url for starting answer index for current page.
Constant value: **page_start**

HTTP_PARAM_PAGE_NUMBER

public static final java.lang.String **HTTP_PARAM_PAGE_NUMBER**

HTTP request parameter name for tracked url for current page number.
Constant value: **page_number**

HTTP_PARAM_PAGE_SIZE

public static final java.lang.String **HTTP_PARAM_PAGE_SIZE**

HTTP request parameter name for tracked url for current page size.
Constant value: **page_size**

HTTP_PARAM_NEW_PAGE_SIZE

public static final java.lang.String **HTTP_PARAM_NEW_PAGE_SIZE**

HTTP request parameter name for tracked url for current page size.
Constant value: **answers_shown**

HTTP_PARAM_OPERATION

public static final java.lang.String **HTTP_PARAM_OPERATION**

HTTP request parameter name for trouble shooting utility operation.
Constant value: **operation**

HTTP_PARAM_APPLICATION

public static final java.lang.String **HTTP_PARAM_APPLICATION**

HTTP request parameter name for specify application name.
Constant value: **application**

HTTP_PARAM_LANGUAGE

public static final java.lang.String **HTTP_PARAM_LANGUAGE**

HTTP request parameter name for specify language for this request.
Constant value: **language**

HTTP_PARAM_RESULT_LANGUAGE

public static final java.lang.String **HTTP_PARAM_RESULT_LANGUAGE**

HTTP request parameter name for specify result language for this request.
Constant value: **result_language**

HTTP_PARAM_DOMAIN_GROUP

public static final java.lang.String **HTTP_PARAM_DOMAIN_GROUP**

HTTP request parameter name for specify domain group for this request.
Constant value: **domaingroup**

HTTP_PARAM_SUBJECT

```
public static final java.lang.String HTTP_PARAM_SUBJECT
```

HTTP request parameter name for specify subject for this request. "subject" is "QuestionType" . do we need to change that? what is the consequence?
Constant value: `QuestionType`

HTTP_PARAM_SEGMENT

```
public static final java.lang.String HTTP_PARAM_SEGMENT
```

HTTP request parameter name for specify user segement for this request.
Constant value: `segment`

HTTP_PARAM_SCREEN

```
public static final java.lang.String HTTP_PARAM_SCREEN
```

HTTP request parameter name for specify admin screen name.
Constant value: `screen`

HTTP_PARAM_CONTACT_RESPONSE

```
public static final java.lang.String HTTP_PARAM_CONTACT_RESPONSE
```

HTTP request parameter name for contact deflection response.
Constant value: `response`

HTTP_PARAM_STRUCTURED_CHART

```
public static final java.lang.String HTTP_PARAM_STRUCTURED_CHART
```

HTTP request parameter name for structured result handling.
Constant value: `structured_chart`

HTTP_PARAM_CCA_CONNECTED_FLAG

```
public static final java.lang.String HTTP_PARAM_CCA_CONNECTED_FLAG
```

HTTP request parameter name for CCA flag indicating if session is maintained within the integrating system.
Constant value: `cca_connected`

HTTP_PARAM_CCA_SR_KEY

```
public static final java.lang.String HTTP_PARAM_CCA_SR_KEY
```

HTTP request parameter name for CCA service request key.
Constant value: `sr_key`

HTTP_PARAM_CCA_SYSTEM

```
public static final java.lang.String HTTP_PARAM_CCA_SYSTEM
```

HTTP request parameter name for CCA system.
Constant value: `cca_system`

HTTP_PARAM_CCA_CASE_DESC

public static final java.lang.String **HTTP_PARAM_CCA_CASE_DESC**

HTTP request parameter name for cca case description.
Constant value: **cca_case_desc**

HTTP_PARAM_CCA_CONTENT_ID

public static final java.lang.String **HTTP_PARAM_CCA_CONTENT_ID**

HTTP request parameter name for cca content id.
Constant value: **cca_content_id**

HTTP_PARAM_CCA_TYPES

public static final java.lang.String **HTTP_PARAM_CCA_TYPES**

HTTP request parameter name for CCA object types.
Constant value: **cca_types**

HTTP_PARAM_CCA_EXT_SOL_LIST

public static final java.lang.String **HTTP_PARAM_CCA_EXT_SOL_LIST**

HTTP request parameter name for CCA list of external solution that are associated with the given service request.
Constant value: **ext_sol**

HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST

public static final java.lang.String **HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST**

HTTP request parameter name for CCA list of interal solution that are associated with the given service request.
Constant value: **solutions**

HTTP_PARAM_AGENT_ADDRESS

public static final java.lang.String **HTTP_PARAM_AGENT_ADDRESS**

HTTP request parameter name for agent address that received HTTP request.
Constant value: **agentAddress**

HTTP_PARAM_PROCESSOR_ADDRESS

public static final java.lang.String **HTTP_PARAM_PROCESSOR_ADDRESS**

HTTP request parameter name for processor address that received InQuira request.
Constant value: **processorAddress**

HTTP_PARAM_WIZARD_ID

public static final java.lang.String **HTTP_PARAM_WIZARD_ID**

Constant value: **wizard_id**

HTTP_PARAM_FACET

public static final java.lang.String **HTTP_PARAM_FACET**

HTTP request parameter name for facet Id.
Constant value: **facet**

HTTP_PARAM_FACET_SHOW_ALL

public static final java.lang.String **HTTP_PARAM_FACET_SHOW_ALL**

HTTP request parameter name for flag indicating if all facets should be shown.
Constant value: **facetShowAll**

HTTP_PARAM_FACET_COLLECTION_ID

public static final java.lang.String **HTTP_PARAM_FACET_COLLECTION_ID**

HTTP request parameter name for facet collection id.
Constant value: **facetCollectionID**

HTTP_PARAM_FACET_RESET

public static final java.lang.String **HTTP_PARAM_FACET_RESET**

HTTP request parameter name for flag indicating that all facet restrictions should be reset.
Constant value: **facetReset**

HTTP_PARAM_SEARCH_WITHIN

public static final java.lang.String **HTTP_PARAM_SEARCH_WITHIN**

HTTP request parameter name for flag indicating that a search with in a document should be performed.
Constant value: **searchWithin**

HTTP_PARAM_SEARCH_WITHIN_ENCODING

public static final java.lang.String **HTTP_PARAM_SEARCH_WITHIN_ENCODING**

HTTP request parameter name for search within information.
Constant value: **search_within_encoding**

HTTP_PARAM_SEARCH_WITHIN_URL

public static final java.lang.String **HTTP_PARAM_SEARCH_WITHIN_URL**

HTTP request parameter name for search within document url.
Constant value: **search_within_url**

HTTP_PARAM_MODE_INITIAL_SCREEN

public static final java.lang.String **HTTP_PARAM_MODE_INITIAL_SCREEN**

Value for HTTP request parameter HTTP_PARAM_MODE that triggers the initial screen to be displayed.
Constant value: **initial_screen**

HTTP_PARAM_MODE_QUESTION

public static final java.lang.String **HTTP_PARAM_MODE_QUESTION**

Value for HTTP request parameter HTTP_PARAM_MODE that answers a question.
Constant value: **question**

HTTP_PARAM_MODE_NAVIGATE

public static final java.lang.String **HTTP_PARAM_MODE_NAVIGATE**

Value for HTTP request parameter HTTP_PARAM_MODE that handles personal navigation.
Constant value: **navigate**

HTTP_PARAM_MODE_ANSWER

public static final java.lang.String **HTTP_PARAM_MODE_ANSWER**

Value for HTTP request parameter HTTP_PARAM_MODE that operates on a single answer (highlighting, click-through, etc.).
Constant value: **answer**

HTTP_PARAM_MODE_FEEDBACK

public static final java.lang.String **HTTP_PARAM_MODE_FEEDBACK**

Value for HTTP request parameter HTTP_PARAM_MODE that handles user feedback.
Constant value: **feedback**

HTTP_PARAM_MODE_PAGING

public static final java.lang.String **HTTP_PARAM_MODE_PAGING**

Value for HTTP request parameter HTTP_PARAM_MODE that handles paging.
Constant value: **paging**

HTTP_PARAM_MODE_DUMMY

public static final java.lang.String **HTTP_PARAM_MODE_DUMMY**

Value for HTTP request parameter HTTP_PARAM_MODE that handles the dummy request.
Constant value: **dummy**

HTTP_PARAM_MODE_GETPAGE

public static final java.lang.String **HTTP_PARAM_MODE_GETPAGE**

Value for HTTP request parameter HTTP_PARAM_MODE that retrieves a static page, such as help screens.
Constant value: **get_page**

HTTP_PARAM_MODE_LOGIN

public static final java.lang.String **HTTP_PARAM_MODE_LOGIN**

Value for HTTP request parameter HTTP_PARAM_MODE that triggeres a login page to be displayed.
Constant value: **login**

HTTP_PARAM_MODE_ADMIN

public static final java.lang.String **HTTP_PARAM_MODE_ADMIN**

Value for HTTP request parameter HTTP_PARAM_MODE that handles application configuration.
Constant value: **admin**

HTTP_PARAM_MODE_CHECK_RESOURCE

public static final java.lang.String **HTTP_PARAM_MODE_CHECK_RESOURCE**

Value for HTTP request parameter HTTP_PARAM_MODE that class information lookup.
Constant value: **check_resource**

HTTP_PARAM_MODE_UTILITY

public static final java.lang.String **HTTP_PARAM_MODE_UTILITY**

Value for HTTP request parameter HTTP_PARAM_MODE that handles trouble shooting utility.
Constant value: **utility**

HTTP_PARAM_MODE_INITIAL_CONTACT

public static final java.lang.String **HTTP_PARAM_MODE_INITIAL_CONTACT**

Value for HTTP request parameter HTTP_PARAM_MODE that shows the initial contact deflection screen.
Constant value: **initial_contact**

HTTP_PARAM_MODE_QUESTION_CONTACT

public static final java.lang.String **HTTP_PARAM_MODE_QUESTION_CONTACT**

Value for HTTP request parameter HTTP_PARAM_MODE that shows the contact question screen.
Constant value: **question_contact**

HTTP_PARAM_MODE_RESPOND_CONTACT

public static final java.lang.String **HTTP_PARAM_MODE_RESPOND_CONTACT**

Value for HTTP request parameter HTTP_PARAM_MODE that shows the contact response screen.
Constant value: **response_contact**

HTTP_PARAM_MODE_ANSWER_CONTACT

public static final java.lang.String **HTTP_PARAM_MODE_ANSWER_CONTACT**

Value for HTTP request parameter HTTP_PARAM_MODE that operates on a single answer during contact deflection.
Constant value: **answer_contact**

HTTP_PARAM_MODE_PAGING_CONTACT

public static final java.lang.String **HTTP_PARAM_MODE_PAGING_CONTACT**

Value for HTTP request parameter HTTP_PARAM_MODE that paging during contact deflection.
Constant value: **paging_contact**

HTTP_PARAM_MODE_GETPAGE_CONTACT

public static final java.lang.String **HTTP_PARAM_MODE_GETPAGE_CONTACT**

Value for HTTP request parameter HTTP_PARAM_MODE that retrieves static pages during contact deflection.
Constant value: **get_page_contact**

HTTP_PARAM_MODE_GET_SESSION_STATE

public static final java.lang.String **HTTP_PARAM_MODE_GET_SESSION_STATE**

Value for HTTP request parameter HTTP_PARAM_MODE that retrieves state information during contact deflection.
Constant value: `get_session_state`

HTTP_PARAM_MODE_CCA_REFRESH

public static final java.lang.String **HTTP_PARAM_MODE_CCA_REFRESH**

Value for HTTP request parameter HTTP_PARAM_MODE that triggers CCA refresh.
Constant value: `refresh`

HTTP_PARAM_MODE_ADD_SOLUTION

public static final java.lang.String **HTTP_PARAM_MODE_ADD_SOLUTION**

Value for HTTP request parameter HTTP_PARAM_MODE that triggers adding of solutions to a service request in CCA.
Constant value: `add_solution`

HTTP_PARAM_MODE_REMOVE_SOLUTION

public static final java.lang.String **HTTP_PARAM_MODE_REMOVE_SOLUTION**

Value for HTTP request parameter HTTP_PARAM_MODE that triggers removing of solutions to a service request in CCA.
Constant value: `remove_solution`

HTTP_PARAM_MODE_SEARCH_WITHIN

public static final java.lang.String **HTTP_PARAM_MODE_SEARCH_WITHIN**

Value for HTTP request parameter HTTP_PARAM_MODE that triggers search within.
Constant value: `search_within`

HTTP_PARAM_MODE_FINISH_WIZARD

public static final java.lang.String **HTTP_PARAM_MODE_FINISH_WIZARD**

Value for HTTP request parameter HTTP_PARAM_MODE that signals the completion of a process wizard.
Constant value: `wizard_finish`

HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS

public static final java.lang.String **HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS**

Value for HTTP request parameter HTTP_PARAM_MODE that retrieves workclient status.
Constant value: `getstatus`

HTTP_PARAM_MODE_WORKCLIENT

public static final java.lang.String **HTTP_PARAM_MODE_WORKCLIENT**

Value for HTTP request parameter HTTP_PARAM_MODE that on/off workclient.
Constant value: `workclient`

HTTP_PARAM_DIRECTION_NEXT

public static final java.lang.String **HTTP_PARAM_DIRECTION_NEXT**

Value for HTTP request parameter HTTP_PARAM_DIRECTION that paging to the next page.
Constant value: `next`

HTTP_PARAM_DIRECTION_PREVIOUS

`public static final java.lang.String` **`HTTP_PARAM_DIRECTION_PREVIOUS`**

Value for HTTP request parameter `HTTP_PARAM_DIRECTION` that paging to the previous page.
Constant value: **`previous`**

HTTP_PARAM_DIRECTION_CURRENT

`public static final java.lang.String` **`HTTP_PARAM_DIRECTION_CURRENT`**

Value for HTTP request parameter `HTTP_PARAM_DIRECTION` that resends the current page.
Constant value: **`current`**

REQUEST_BASE_URL

`public static final java.lang.String` **`REQUEST_BASE_URL`**

Request parameter name for the baseURL for all relative URLs.
Constant value: **`baseURL`**

Constructors

AbstractAgent

```
public AbstractAgent(javax.servlet.http.HttpServletRequest request,
                     javax.servlet.http.HttpServletResponse response,
                     javax.servlet.ServletConfig config,
                     javax.servlet.http.HttpSession httpSession,
                     String charEncoding,
                     boolean loadTemplates)
```

Constructor for HTTP servlet and JSP based integration.

Parameters:
> `request` - http servlet request to process
> `response` - http servlet resposne to respond to
> `config` - servlet config to gain access to web application initialization parameters
> `httpSession` - active http session
> `charEncoding` - encoding for this request
> `loadTemplates` - flag indicating if XSL templates should be loaded

AbstractAgent

```
public AbstractAgent(javax.servlet.http.HttpServletRequest request,
                     javax.servlet.http.HttpServletResponse response,
                     javax.servlet.jsp.PageContext context,
                     javax.servlet.http.HttpSession httpSession,
                     javax.servlet.jsp.JspWriter out,
                     boolean loadTemplates)
```

Constructor for JSP based integration only.

Parameters:
> `request` - http servlet request to process
> `response` - http servlet resposne to respond to
> `context` - JSP page context to gain access to web application initialization parameters
> `httpSession` - active http session
> `out` - unused

`loadTemplates` - flag indicating if XSL templates should be loaded

AbstractAgent

```
public AbstractAgent(javax.servlet.http.HttpServletRequest request,
                     javax.servlet.http.HttpServletResponse response,
                     javax.servlet.jsp.PageContext context,
                     javax.servlet.http.HttpSession httpSession,
                     javax.servlet.jsp.JspWriter out,
                     String charEncoding,
                     boolean loadTemplates)
```

Constructor for JSP based integration only, that also specifies the character encoding for this request.

Parameters:

`request` - http servlet request to process

`response` - http servlet resposne to respond to

`context` - JSP page context to gain access to web application initialization parameters

`httpSession` - active http session

`out` - unused

`charEncoding` - encoding for this request

`loadTemplates` - flag indicating if XSL templates should be loaded

Methods

disableDebugMode

```
public void disableDebugMode()
```

Disables entering debug mode, in this mode the request and response XML are sent to the browser. Once this method is called the debug mode handling is disabled even though the HTTP request contains the debug=true request parameter. This method should be called for all production installation to avoid leaking information about the internal workings of the website.

establishCharEncoding

```
public static String establishCharEncoding(javax.servlet.ServletConfig config,
        javax.servlet.http.HttpServletRequest request,
        javax.servlet.http.HttpServletResponse response)
  throws AgentException
```

Sets the character encoding for the `HttpServeltRequest` to the first non-null value detected by the steps below:

- query if the browser sent the encoding as a header, by calling `getCharacterEncoding`
- check the web.xml for `INIT_CHAR_ENCODING` servlet initialization parameter
- use default character encoding UTF-8

Note: This method must be called prior to any access of the `HttpServeltRequest`! That is why it is called in the Agent constructor if no character encoding has been passed in.

processInitialScreen

```
public Object processInitialScreen()
```

Handles request to display the initial question answering screen.

processInitialCCAScreen

```
public Object processInitialCCAScreen()
```

Handles request to display the initial CCA screen.

processInitialContact

`public Object` **`processInitialContact`**`()`

> Handles request to display the initial contact deflection screen.

processFinishWizard

`public Object` **`processFinishWizard`**`()`

> Handles request at the completion of a process wizard, which will display the question box again.

processCCAFinishWizard

`public Object` **`processCCAFinishWizard`**`()`

> Handles request at the completion of a process wizard in CCA mode, which will display the question box again.

processGetPage

`public Object` **`processGetPage`**`()`

> Handles request to return static pages.

processGetPageContactMode

`public Object` **`processGetPageContactMode`**`()`

> Handles request to return static pages during contact deflection.

processGetPageCCA

`public Object` **`processGetPageCCA`**`()`

> Handles request to return static pages during CCA operation.

processAnswerMode

`public Object` **`processAnswerMode`**`()`

> Handles answer based request, such as click-through tracking and highlighting.

processAnswerContactMode

`public Object` **`processAnswerContactMode`**`()`

> Handles answer based request, such as click-through tracking and highlighting, during contact deflection.

processAnswerCCAMode

`public Object` **`processAnswerCCAMode`**`()`

> Handles answer based request, such as click-through tracking and highlighting, during CCA processing.

processQuestionMode

`public Object` **`processQuestionMode`**`()`

Handles answer question requests.

processQuestionContactMode

```
public Object processQuestionContactMode()
```

Handles answer question requests, during content deflection.

processQuestionCCAMode

```
public Object processQuestionCCAMode()
```

Handles answer question requests during CCA processing.

processSearchWithin

```
public Object processSearchWithin()
```

Handles search-within a specific document requests.

processNavigateMode

```
public Object processNavigateMode()
```

Handles personalized navigation requests. These requests are triggered by the user selecting or deselection of facets or requests to start over.

processNavigateCCAMode

```
public Object processNavigateCCAMode()
```

Handles personalized navigation requests, during CCA processing. These requests are triggered by the user selecting or deselection of facets or requests to start over.

processRefreshCCAMode

```
public Object processRefreshCCAMode()
```

Handles request to refresh the state of the CCA session.

processAddSolutionCCAMode

```
public Object processAddSolutionCCAMode()
```

Handles request to add solution(s) to a service request in CCA.

processRemoveSolutionCCAMode

```
public Object processRemoveSolutionCCAMode()
```

processFeedbackMode

```
public Object processFeedbackMode()
```

Handles user feedback request. The user must at least provide a rating but can also provide textual feedback.

processFeedbackCCAMode

```
public Object processFeedbackCCAMode()
```

Handles user feedback request during CCA processing. The user must at least provide a rating but can also provide textual feedback.

processPagingMode

```
public Object processPagingMode()
```

Handles answer paging requests.

processPagingCCAMode

```
public Object processPagingCCAMode()
```

Handles answer paging requests during CCA processing.

processPagingContactMode

```
public Object processPagingContactMode()
```

Handles answer paging requests during contact deflection.

processAdminMode

```
public Object processAdminMode()
```

Handles system configuration tool requests.

processGetInfo

```
public Object processGetInfo()
```

Handles content investigation tool requests.

processLoginMode

```
public Object processLoginMode()
```

Handles login requests if InQuira is used to authenticate users. if the user/authentication is maintained in a cookie, we can either insert a new handler into the question answering request that can set the Principal using the cookie value or we have to add code in Agent to read the cookie and set the Principal in the AgentRequest.

processGetStatus

```
public Object processGetStatus()
```

processDummyMode

```
public void processDummyMode()
```

Handles simple verification request.

processUtilRequest

public Object **processUtilRequest**()

Processes debug utility requests.

processInvalidMode

public Object **processInvalidMode**(String mode)

Processes case where no matching mode can be found.

processRespondContactMode

public Object **processRespondContactMode**()

Handles request for the contact deflection response stage.

getSessionState

public AgentResponse **getSessionState**(int prior)

This message should be called during the escalation process of contact deflection. The returned AgentResponse object should be cast to the proper implementing class com.inquira.request.Response for java 1.4+ clients and com.inquira.infra.gateway.html13.AgentResponse13 for java 1.3 clients.
Note: This method needs to be kept in synch with processGetSessionState().

processGetSessionState

public Object **processGetSessionState**()

This method should be called if the escalation page should be generated by a customed XSL template.
Note: This method needs to be kept in synch with getSessionState(int).

processCheckLocation

public void **processCheckLocation**()

Handles request for debug utility to verify class loading and versioning problems.
Note: The url required follows this pattern ?ui_mode=check_resource&resource={XYZ}&tag=true, where {XYZ} must be replaced by the class or resource name to test, e.g. com/inquira/infra/Instance.class.

reloadTemplates

public void **reloadTemplates**()

Reloades the XSL templates.

transformResponse

public abstract Object **transformResponse**(javax.xml.transform.Templates templates,
        AgentRequest rq,
        AgentResponse rs)
  throws AgentException

Handles generating HTML from the XML based response.

(continued from last page)

handleException

```
public abstract Object handleException(Throwable t,
        AgentRequest rq,
        AgentResponse rs)
```

   Handles exceptions that occur during processing of the request in the Agent.

---

getBoolean

```
public static boolean getBoolean(String input)
```

   Returns the boolean value of input.
   Note: In order to retrain JDK 1.3 compatibility the method Boolean.valueOf(String) cannot safely be called, this method should be called instead.

---

setConfiguredBaseURL

```
public void setConfiguredBaseURL(String baseURL,
        boolean fullBaseURL)
```

   Establishes the base URL that is used for the Inquira request.

   See Also:
       getBaseURL()

---

getBaseURL

```
public String getBaseURL()
```

   Returns the base url parameter to add to the Inquira request. If a base URL has been configured in a prior call to setConfiguredBaseURL(String, boolean) we check if the base considered fully qualified then we don't add the HTTTP request URI else we append it. In the case where no base URL was configured, we rebuild the HTTP request base URL from the HTTP request scheme, server name, server port and URI.

com.inquira.infra.gateway.html
Class Agent

```
java.lang.Object
    │
    +-com.inquira.infra.gateway.AbstractAgent
        │
        +-com.inquira.infra.gateway.html.AbstractAgent
            │
            +-com.inquira.infra.gateway.html.Agent
```
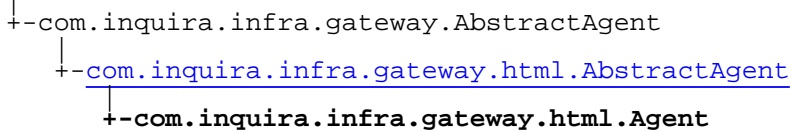
All Implemented Interfaces:
>com.inquira.log.ILogConstants, IRequestNames, INameConstants, com.inquira.log.ILogConstants, com.inquira.log.ILogConstants, IRequestNames, INameConstants

---

public class **Agent**

extends AbstractAgent

implements INameConstants, IRequestNames, com.inquira.log.ILogConstants, com.inquira.log.ILogConstants, INameConstants, IRequestNames, com.inquira.log.ILogConstants

Java based web agent, using an internal client to access the backend search functionality.

Fields inherited from class com.inquira.infra.gateway.html.AbstractAgent
HTTP_PARAM_ACTION, HTTP_PARAM_AGENT_ADDRESS, HTTP_PARAM_ANSWER_ID, HTTP_PARAM_ANSWER_RELATED_IDS, HTTP_PARAM_ANSWER_START, HTTP_PARAM_ANSWER_URL, HTTP_PARAM_APPLICATION, HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST, HTTP_PARAM_CCA_CASE_DESC, HTTP_PARAM_CCA_CONNECTED_FLAG, HTTP_PARAM_CCA_CONTENT_ID, HTTP_PARAM_CCA_EXT_SOL_LIST, HTTP_PARAM_CCA_SR_KEY, HTTP_PARAM_CCA_SYSTEM, HTTP_PARAM_CCA_TYPES, HTTP_PARAM_CONTACT_RESPONSE, HTTP_PARAM_DIRECTION, HTTP_PARAM_DIRECTION_CURRENT, HTTP_PARAM_DIRECTION_NEXT, HTTP_PARAM_DIRECTION_PREVIOUS, HTTP_PARAM_DOMAIN_GROUP, HTTP_PARAM_FACET, HTTP_PARAM_FACET_COLLECTION_ID, HTTP_PARAM_FACET_RESET, HTTP_PARAM_FACET_SHOW_ALL, HTTP_PARAM_HIGHLIGHT_INFO, HTTP_PARAM_LANGUAGE, HTTP_PARAM_MODE, HTTP_PARAM_MODE_ADD_SOLUTION, HTTP_PARAM_MODE_ADMIN, HTTP_PARAM_MODE_ANSWER, HTTP_PARAM_MODE_ANSWER_CONTACT, HTTP_PARAM_MODE_CCA_REFRESH, HTTP_PARAM_MODE_CHECK_RESOURCE, HTTP_PARAM_MODE_DUMMY, HTTP_PARAM_MODE_FEEDBACK, HTTP_PARAM_MODE_FINISH_WIZARD, HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS, HTTP_PARAM_MODE_GET_SESSION_STATE, HTTP_PARAM_MODE_GETPAGE, HTTP_PARAM_MODE_GETPAGE_CONTACT, HTTP_PARAM_MODE_INITIAL_CONTACT, HTTP_PARAM_MODE_INITIAL_SCREEN, HTTP_PARAM_MODE_LOGIN, HTTP_PARAM_MODE_NAVIGATE, HTTP_PARAM_MODE_PAGING, HTTP_PARAM_MODE_PAGING_CONTACT, HTTP_PARAM_MODE_QUESTION, HTTP_PARAM_MODE_QUESTION_CONTACT, HTTP_PARAM_MODE_REMOVE_SOLUTION, HTTP_PARAM_MODE_RESPOND_CONTACT, HTTP_PARAM_MODE_SEARCH_WITHIN, HTTP_PARAM_MODE_UTILITY, HTTP_PARAM_MODE_WORKCLIENT, HTTP_PARAM_NAVIGATION_PURPOSE, HTTP_PARAM_NEW_PAGE_SIZE, HTTP_PARAM_OPERATION, HTTP_PARAM_PAGE_NUMBER, HTTP_PARAM_PAGE_SIZE, HTTP_PARAM_PRIOR_TRANSACTION_ID, HTTP_PARAM_PROCESSOR_ADDRESS, HTTP_PARAM_QUESTION, HTTP_PARAM_REQUEST_TYPE, HTTP_PARAM_RESULT_LANGUAGE, HTTP_PARAM_SCREEN, HTTP_PARAM_SEARCH_WITHIN, HTTP_PARAM_SEARCH_WITHIN_ENCODING, HTTP_PARAM_SEARCH_WITHIN_URL, HTTP_PARAM_SEGMENT, HTTP_PARAM_STRUCTURED_CHART, HTTP_PARAM_SUB_ACTION, HTTP_PARAM_SUBJECT, HTTP_PARAM_TRACKED_URL, HTTP_PARAM_USER_FEEDBACK, HTTP_PARAM_USER_RATING, HTTP_PARAM_WIZARD_ID, HTTP_SESSION_KEY, HTTP_SESSION_LANGUAGE_KEY, REQUEST_BASE_URL

Fields inherited from class com.inquira.infra.gateway.AbstractAgent

---

```
ADMIN_TEMPLATE, CCA_TEMPLATE, CONTACT_TEMPLATE, INFO_TEMPLATE, infoNoStyleTemplate,
INITIAL_SCREEN_TEMPLATE, processAnswerStyleTemplate, QUESTION_ANSWER_TEMPLATE,
questionAnswerStyleTemplate
```

Fields inherited from interface `com.inquira.log.ILogConstants`

```
BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG
```

Fields inherited from interface `com.inquira.request.INameConstants`

```
AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID
```

Fields inherited from interface `com.inquira.util.xml.INameConstants`

```
BINARY, TRUE
```

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

|	
public	Agent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out) Constructor for JSP based integration.
public	Agent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out, String charEncoding) Constructor for JSP based integration.
public	Agent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession) Constructor for servlet and JSP based integration.
public	Agent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding) Constructor for servlet and JSP based integration, specifying the request and response character encoding.

Method Summary

Object	handleException(Throwable t, AgentRequest arq, AgentResponse ars) Handles exceptions that occur during processing of the request in the Agent.
Object	transformResponse(javax.xml.transform.Templates template, AgentRequest arq, AgentResponse ars) Transforms the response XML to HTML and writes it to the HTTP response.

Methods inherited from class com.inquira.infra.gateway.html.AbstractAgent

disableDebugMode, establishCharEncoding, getBaseURL, getBoolean, getSessionState, handleException, processAddSolutionCCAMode, processAdminMode, processAnswerCCAMode, processAnswerContactMode, processAnswerMode, processCCAFinishWizard, processCheckLocation, processDummyMode, processFeedbackCCAMode, processFeedbackMode, processFinishWizard, processGetInfo, processGetPage, processGetPageCCA, processGetPageContactMode, processGetSessionState, processGetStatus, processInitialCCAScreen, processInitialContact, processInitialScreen, processInvalidMode, processLoginMode, processNavigateCCAMode, processNavigateMode, processPagingCCAMode, processPagingContactMode, processPagingMode, processQuestionCCAMode, processQuestionContactMode, processQuestionMode, processRefreshCCAMode, processRemoveSolutionCCAMode, processRespondContactMode, processSearchWithin, processUtilRequest, reloadTemplates, setConfiguredBaseURL, transformResponse

Methods inherited from class com.inquira.infra.gateway.AbstractAgent

assureTemplates, assureTemplates, getTemplate

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

Agent

```
public Agent(javax.servlet.http.HttpServletRequest request,
            javax.servlet.http.HttpServletResponse response,
            javax.servlet.jsp.PageContext context,
            javax.servlet.http.HttpSession httpSession,
            javax.servlet.jsp.JspWriter out)
```

Constructor for JSP based integration.

Agent

```
public Agent(javax.servlet.http.HttpServletRequest request,
            javax.servlet.http.HttpServletResponse response,
            javax.servlet.jsp.PageContext context,
            javax.servlet.http.HttpSession httpSession,
            javax.servlet.jsp.JspWriter out,
            String charEncoding)
```

Constructor for JSP based integration.

Agent

```
public Agent(javax.servlet.http.HttpServletRequest request,
             javax.servlet.http.HttpServletResponse response,
             javax.servlet.ServletConfig config,
             javax.servlet.http.HttpSession httpSession)
```

Constructor for servlet and JSP based integration.

Agent

```
public Agent(javax.servlet.http.HttpServletRequest request,
             javax.servlet.http.HttpServletResponse response,
             javax.servlet.ServletConfig config,
             javax.servlet.http.HttpSession httpSession,
             String charEncoding)
```

Constructor for servlet and JSP based integration, specifying the request and response character encoding.

Methods

transformResponse

```
public Object transformResponse(javax.xml.transform.Templates template,
        AgentRequest arq,
        AgentResponse ars)
  throws AgentException
```

Transforms the response XML to HTML and writes it to the HTTP response.

handleException

```
public Object handleException(Throwable t,
        AgentRequest arq,
        AgentResponse ars)
```

Handles exceptions that occur during processing of the request in the Agent.

com.inquira.infra.gateway.html
Class XMLAgent

```
java.lang.Object
    |
    +-com.inquira.infra.gateway.AbstractAgent
        |
        +-com.inquira.infra.gateway.html.AbstractAgent
            |
            +-com.inquira.infra.gateway.html.Agent
                |
                +-com.inquira.infra.gateway.html.NodeAgent
                    |
                    +-com.inquira.infra.gateway.html.XMLAgent
```
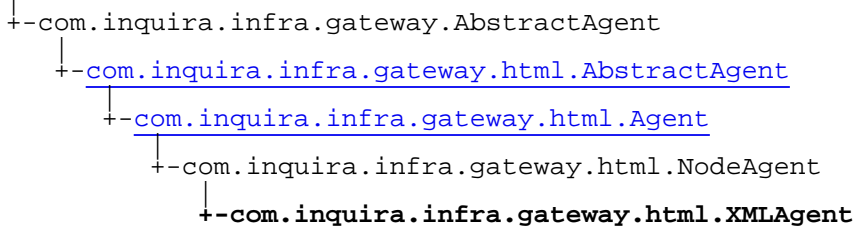
All Implemented Interfaces:
> com.inquira.log.ILogConstants, com.inquira.log.ILogConstants, IRequestNames, INameConstants, com.inquira.log.ILogConstants, IRequestNames, INameConstants

---

public class **XMLAgent**
extends NodeAgent

This `agent` returns W3C nodes rather than generating HTML directly, using an internal `client` to access the backend search functionality.

Fields inherited from class com.inquira.infra.gateway.html.AbstractAgent
HTTP_PARAM_ACTION, HTTP_PARAM_AGENT_ADDRESS, HTTP_PARAM_ANSWER_ID, HTTP_PARAM_ANSWER_RELATED_IDS, HTTP_PARAM_ANSWER_START, HTTP_PARAM_ANSWER_URL, HTTP_PARAM_APPLICATION, HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST, HTTP_PARAM_CCA_CASE_DESC, HTTP_PARAM_CCA_CONNECTED_FLAG, HTTP_PARAM_CCA_CONTENT_ID, HTTP_PARAM_CCA_EXT_SOL_LIST, HTTP_PARAM_CCA_SR_KEY, HTTP_PARAM_CCA_SYSTEM, HTTP_PARAM_CCA_TYPES, HTTP_PARAM_CONTACT_RESPONSE, HTTP_PARAM_DIRECTION, HTTP_PARAM_DIRECTION_CURRENT, HTTP_PARAM_DIRECTION_NEXT, HTTP_PARAM_DIRECTION_PREVIOUS, HTTP_PARAM_DOMAIN_GROUP, HTTP_PARAM_FACET, HTTP_PARAM_FACET_COLLECTION_ID, HTTP_PARAM_FACET_RESET, HTTP_PARAM_FACET_SHOW_ALL, HTTP_PARAM_HIGHLIGHT_INFO, HTTP_PARAM_LANGUAGE, HTTP_PARAM_MODE, HTTP_PARAM_MODE_ADD_SOLUTION, HTTP_PARAM_MODE_ADMIN, HTTP_PARAM_MODE_ANSWER, HTTP_PARAM_MODE_ANSWER_CONTACT, HTTP_PARAM_MODE_CCA_REFRESH, HTTP_PARAM_MODE_CHECK_RESOURCE, HTTP_PARAM_MODE_DUMMY, HTTP_PARAM_MODE_FEEDBACK, HTTP_PARAM_MODE_FINISH_WIZARD, HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS, HTTP_PARAM_MODE_GET_SESSION_STATE, HTTP_PARAM_MODE_GETPAGE, HTTP_PARAM_MODE_GETPAGE_CONTACT, HTTP_PARAM_MODE_INITIAL_CONTACT, HTTP_PARAM_MODE_INITIAL_SCREEN, HTTP_PARAM_MODE_LOGIN, HTTP_PARAM_MODE_NAVIGATE, HTTP_PARAM_MODE_PAGING, HTTP_PARAM_MODE_PAGING_CONTACT, HTTP_PARAM_MODE_QUESTION, HTTP_PARAM_MODE_QUESTION_CONTACT, HTTP_PARAM_MODE_REMOVE_SOLUTION, HTTP_PARAM_MODE_RESPOND_CONTACT, HTTP_PARAM_MODE_SEARCH_WITHIN, HTTP_PARAM_MODE_UTILITY, HTTP_PARAM_MODE_WORKCLIENT, HTTP_PARAM_NAVIGATION_PURPOSE, HTTP_PARAM_NEW_PAGE_SIZE, HTTP_PARAM_OPERATION, HTTP_PARAM_PAGE_NUMBER, HTTP_PARAM_PAGE_SIZE, HTTP_PARAM_PRIOR_TRANSACTION_ID, HTTP_PARAM_PROCESSOR_ADDRESS, HTTP_PARAM_QUESTION, HTTP_PARAM_REQUEST_TYPE, HTTP_PARAM_RESULT_LANGUAGE, HTTP_PARAM_SCREEN, HTTP_PARAM_SEARCH_WITHIN, HTTP_PARAM_SEARCH_WITHIN_ENCODING, HTTP_PARAM_SEARCH_WITHIN_URL, HTTP_PARAM_SEGMENT, HTTP_PARAM_STRUCTURED_CHART, HTTP_PARAM_SUB_ACTION, HTTP_PARAM_SUBJECT, HTTP_PARAM_TRACKED_URL, HTTP_PARAM_USER_FEEDBACK, HTTP_PARAM_USER_RATING, HTTP_PARAM_WIZARD_ID, HTTP_SESSION_KEY, HTTP_SESSION_LANGUAGE_KEY, REQUEST_BASE_URL

Fields inherited from class com.inquira.infra.gateway.AbstractAgent

---

ADMIN_TEMPLATE, CCA_TEMPLATE, CONTACT_TEMPLATE, INFO_TEMPLATE, infoNoStyleTemplate,
INITIAL_SCREEN_TEMPLATE, processAnswerStyleTemplate, QUESTION_ANSWER_TEMPLATE,
questionAnswerStyleTemplate

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

public	`XMLAgent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out)` Constructor for JSP based integration.
public	`XMLAgent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out, String charEncoding)` Constructor for JSP based integration.
public	`XMLAgent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession)` Constructor for servlet and JSP based integration.
public	`XMLAgent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding)` Constructor for servlet and JSP based integration, specifying the request and response character encoding.

Method Summary

Object	handleException(Throwable t, AgentRequest arq, AgentResponse ars)
Object	transformResponse(javax.xml.transform.Templates template, AgentRequest arq, AgentResponse ars) Returns W3C Node object of the response.

Methods inherited from class `com.inquira.infra.gateway.html.NodeAgent`

handleException, transformResponse

Methods inherited from class com.inquira.infra.gateway.html.Agent

handleException, transformResponse

Methods inherited from class com.inquira.infra.gateway.html.AbstractAgent

disableDebugMode, establishCharEncoding, getBaseURL, getBoolean, getSessionState, handleException, processAddSolutionCCAMode, processAdminMode, processAnswerCCAMode, processAnswerContactMode, processAnswerMode, processCCAFinishWizard, processCheckLocation, processDummyMode, processFeedbackCCAMode, processFeedbackMode, processFinishWizard, processGetInfo, processGetPage, processGetPageCCA, processGetPageContactMode, processGetSessionState, processGetStatus, processInitialCCAScreen, processInitialContact, processInitialScreen, processInvalidMode, processLoginMode, processNavigateCCAMode, processNavigateMode, processPagingCCAMode, processPagingContactMode, processPagingMode, processQuestionCCAMode, processQuestionContactMode, processQuestionMode, processRefreshCCAMode, processRemoveSolutionCCAMode, processRespondContactMode, processSearchWithin, processUtilRequest, reloadTemplates, setConfiguredBaseURL, transformResponse

Methods inherited from class com.inquira.infra.gateway.AbstractAgent

assureTemplates, assureTemplates, getTemplate

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

XMLAgent

```
public XMLAgent(javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.jsp.PageContext context,
                javax.servlet.http.HttpSession httpSession,
                javax.servlet.jsp.JspWriter out)
```

Constructor for JSP based integration.

XMLAgent

```
public XMLAgent(javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.jsp.PageContext context,
                javax.servlet.http.HttpSession httpSession,
                javax.servlet.jsp.JspWriter out,
                String charEncoding)
```

Constructor for JSP based integration.

XMLAgent

```
public XMLAgent(javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.ServletConfig config,
                javax.servlet.http.HttpSession httpSession)
```

Constructor for servlet and JSP based integration.

XMLAgent

```
public XMLAgent(javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.ServletConfig config,
                javax.servlet.http.HttpSession httpSession,
                String charEncoding)
```

Constructor for servlet and JSP based integration, specifying the request and response character encoding.

Methods

transformResponse

```
public Object transformResponse(javax.xml.transform.Templates template,
        AgentRequest arq,
        AgentResponse ars)
  throws AgentException
```

Returns W3C Node object of the response.

handleException

```
public Object handleException(Throwable t,
        AgentRequest arq,
        AgentResponse ars)
```

Handles exceptions that occur during processing of the request in the Agent.

Package
com.inquira.infra.gateway.html13

This package contains client HTTP gateway, where the request execution occurs in a remote server instance that is accessed through a `client object`. The most common usage case is using <u>SOAP</u> to connect to be backend.
 Note: This gateway requires J2SE 1.3 or higher and the container must support servlet spec 2.3 or higher.

com.inquira.infra.gateway.html13
Class Agent

```
java.lang.Object
    |
    +-com.inquira.infra.gateway.AbstractAgent
        |
        +-com.inquira.infra.gateway.html.AbstractAgent
            |
            +-com.inquira.infra.gateway.html13.Agent
```
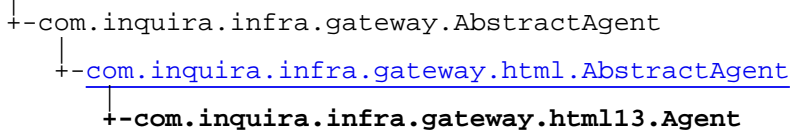
All Implemented Interfaces:
com.inquira.log.ILogConstants, com.inquira.log.ILogConstants, IRequestNames, INameConstants

Direct Known Subclasses:
XMLAgent

---

public class **Agent**
extends AbstractAgent

Java based web agent, using an externally established `client` to access the backend search functionality. This is normally done using a SOAP/WS capable client.

Fields inherited from class com.inquira.infra.gateway.html.AbstractAgent

HTTP_PARAM_ACTION, HTTP_PARAM_AGENT_ADDRESS, HTTP_PARAM_ANSWER_ID, HTTP_PARAM_ANSWER_RELATED_IDS, HTTP_PARAM_ANSWER_START, HTTP_PARAM_ANSWER_URL, HTTP_PARAM_APPLICATION, HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST, HTTP_PARAM_CCA_CASE_DESC, HTTP_PARAM_CCA_CONNECTED_FLAG, HTTP_PARAM_CCA_CONTENT_ID, HTTP_PARAM_CCA_EXT_SOL_LIST, HTTP_PARAM_CCA_SR_KEY, HTTP_PARAM_CCA_SYSTEM, HTTP_PARAM_CCA_TYPES, HTTP_PARAM_CONTACT_RESPONSE, HTTP_PARAM_DIRECTION, HTTP_PARAM_DIRECTION_CURRENT, HTTP_PARAM_DIRECTION_NEXT, HTTP_PARAM_DIRECTION_PREVIOUS, HTTP_PARAM_DOMAIN_GROUP, HTTP_PARAM_FACET, HTTP_PARAM_FACET_COLLECTION_ID, HTTP_PARAM_FACET_RESET, HTTP_PARAM_FACET_SHOW_ALL, HTTP_PARAM_HIGHLIGHT_INFO, HTTP_PARAM_LANGUAGE, HTTP_PARAM_MODE, HTTP_PARAM_MODE_ADD_SOLUTION, HTTP_PARAM_MODE_ADMIN, HTTP_PARAM_MODE_ANSWER, HTTP_PARAM_MODE_ANSWER_CONTACT, HTTP_PARAM_MODE_CCA_REFRESH, HTTP_PARAM_MODE_CHECK_RESOURCE, HTTP_PARAM_MODE_DUMMY, HTTP_PARAM_MODE_FEEDBACK, HTTP_PARAM_MODE_FINISH_WIZARD, HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS, HTTP_PARAM_MODE_GET_SESSION_STATE, HTTP_PARAM_MODE_GETPAGE, HTTP_PARAM_MODE_GETPAGE_CONTACT, HTTP_PARAM_MODE_INITIAL_CONTACT, HTTP_PARAM_MODE_INITIAL_SCREEN, HTTP_PARAM_MODE_LOGIN, HTTP_PARAM_MODE_NAVIGATE, HTTP_PARAM_MODE_PAGING, HTTP_PARAM_MODE_PAGING_CONTACT, HTTP_PARAM_MODE_QUESTION, HTTP_PARAM_MODE_QUESTION_CONTACT, HTTP_PARAM_MODE_REMOVE_SOLUTION, HTTP_PARAM_MODE_RESPOND_CONTACT, HTTP_PARAM_MODE_SEARCH_WITHIN, HTTP_PARAM_MODE_UTILITY, HTTP_PARAM_MODE_WORKCLIENT, HTTP_PARAM_NAVIGATION_PURPOSE, HTTP_PARAM_NEW_PAGE_SIZE, HTTP_PARAM_OPERATION, HTTP_PARAM_PAGE_NUMBER, HTTP_PARAM_PAGE_SIZE, HTTP_PARAM_PRIOR_TRANSACTION_ID, HTTP_PARAM_PROCESSOR_ADDRESS, HTTP_PARAM_QUESTION, HTTP_PARAM_REQUEST_TYPE, HTTP_PARAM_RESULT_LANGUAGE, HTTP_PARAM_SCREEN, HTTP_PARAM_SEARCH_WITHIN, HTTP_PARAM_SEARCH_WITHIN_ENCODING, HTTP_PARAM_SEARCH_WITHIN_URL, HTTP_PARAM_SEGMENT, HTTP_PARAM_STRUCTURED_CHART, HTTP_PARAM_SUB_ACTION, HTTP_PARAM_SUBJECT, HTTP_PARAM_TRACKED_URL, HTTP_PARAM_USER_FEEDBACK, HTTP_PARAM_USER_RATING, HTTP_PARAM_WIZARD_ID, HTTP_SESSION_KEY, HTTP_SESSION_LANGUAGE_KEY, REQUEST_BASE_URL

Fields inherited from class com.inquira.infra.gateway.AbstractAgent

---

```
ADMIN_TEMPLATE, CCA_TEMPLATE, CONTACT_TEMPLATE, INFO_TEMPLATE, infoNoStyleTemplate,
INITIAL_SCREEN_TEMPLATE, processAnswerStyleTemplate, QUESTION_ANSWER_TEMPLATE,
questionAnswerStyleTemplate
```

Fields inherited from interface `com.inquira.log.ILogConstants`

```
BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG
```

Fields inherited from interface `com.inquira.request.INameConstants`

```
AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID
```

Fields inherited from interface `com.inquira.util.xml.INameConstants`

```
BINARY, TRUE
```

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

public	Agent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out) Constructor for JSP based integration.
public	Agent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out, String charEncoding) Constructor for JSP based integration.
public	Agent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession) Constructor for servlet and JSP based integration.
public	Agent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding) Constructor for servlet and JSP based integration, specifying the request and response character encoding.

Method Summary

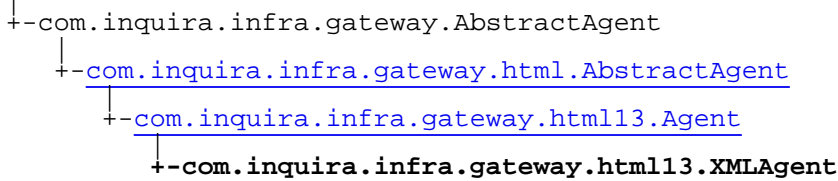|	
Object	handleException(Throwable t, AgentRequest arq, AgentResponse ars) Handles exceptions that occur during processing of the request in the Agent.

static void	log(String msg)
static void	log(String msg, Throwable t)
Object	transformResponse(javax.xml.transform.Templates template, AgentRequest arq, AgentResponse ars) Transforms the response XML to HTML and writes it to the HTTP response.

Methods inherited from class com.inquira.infra.gateway.html.AbstractAgent

disableDebugMode, establishCharEncoding, getBaseURL, getBoolean, getSessionState, handleException, processAddSolutionCCAMode, processAdminMode, processAnswerCCAMode, processAnswerContactMode, processAnswerMode, processCCAFinishWizard, processCheckLocation, processDummyMode, processFeedbackCCAMode, processFeedbackMode, processFinishWizard, processGetInfo, processGetPage, processGetPageCCA, processGetPageContactMode, processGetSessionState, processGetStatus, processInitialCCAScreen, processInitialContact, processInitialScreen, processInvalidMode, processLoginMode, processNavigateCCAMode, processNavigateMode, processPagingCCAMode, processPagingContactMode, processPagingMode, processQuestionCCAMode, processQuestionContactMode, processQuestionMode, processRefreshCCAMode, processRemoveSolutionCCAMode, processRespondContactMode, processSearchWithin, processUtilRequest, reloadTemplates, setConfiguredBaseURL, transformResponse

Methods inherited from class com.inquira.infra.gateway.AbstractAgent

assureTemplates, assureTemplates, getTemplate

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

Agent

```
public Agent(IClient client,
             javax.servlet.http.HttpServletRequest request,
             javax.servlet.http.HttpServletResponse response,
             javax.servlet.jsp.PageContext context,
             javax.servlet.http.HttpSession httpSession,
             javax.servlet.jsp.JspWriter out)
```

Constructor for JSP based integration.

Agent

```
public Agent(IClient client,
             javax.servlet.http.HttpServletRequest request,
             javax.servlet.http.HttpServletResponse response,
             javax.servlet.jsp.PageContext context,
             javax.servlet.http.HttpSession httpSession,
             javax.servlet.jsp.JspWriter out,
             String charEncoding)
```

Constructor for JSP based integration.

Agent

```
public Agent(IClient client,
             javax.servlet.http.HttpServletRequest request,
             javax.servlet.http.HttpServletResponse response,
             javax.servlet.ServletConfig config,
             javax.servlet.http.HttpSession httpSession)
```

Constructor for servlet and JSP based integration.

Agent

```
public Agent(IClient client,
             javax.servlet.http.HttpServletRequest request,
             javax.servlet.http.HttpServletResponse response,
             javax.servlet.ServletConfig config,
             javax.servlet.http.HttpSession httpSession,
             String charEncoding)
```

Constructor for servlet and JSP based integration, specifying the request and response character encoding.

Methods

transformResponse

```
public Object transformResponse(javax.xml.transform.Templates template,
        AgentRequest arq,
        AgentResponse ars)
  throws AgentException
```

Transforms the response XML to HTML and writes it to the HTTP response.

handleException

```
public Object handleException(Throwable t,
        AgentRequest arq,
        AgentResponse ars)
```

Handles exceptions that occur during processing of the request in the Agent.

log

```
public static void log(String msg)
```

log

```
public static void log(String msg,
        Throwable t)
```

com.inquira.infra.gateway.html13
Class XMLAgent

```
java.lang.Object
    |
    +-com.inquira.infra.gateway.AbstractAgent
        |
        +-com.inquira.infra.gateway.html.AbstractAgent
            |
            +-com.inquira.infra.gateway.html13.Agent
                |
                +-com.inquira.infra.gateway.html13.XMLAgent
```

All Implemented Interfaces:
> com.inquira.log.ILogConstants, com.inquira.log.ILogConstants, IRequestNames, INameConstants

---

public class **XMLAgent**
extends Agent

This agent returns W3C nodes rather than generating HTML directly, using an externally established client to access the backend search functionality. This is normally done using a SOAP/WS capable client.

Fields inherited from class com.inquira.infra.gateway.html.AbstractAgent

HTTP_PARAM_ACTION, HTTP_PARAM_AGENT_ADDRESS, HTTP_PARAM_ANSWER_ID,
HTTP_PARAM_ANSWER_RELATED_IDS, HTTP_PARAM_ANSWER_START, HTTP_PARAM_ANSWER_URL,
HTTP_PARAM_APPLICATION, HTTP_PARAM_CCA_ANSWER_SOLUTIONS_LIST, HTTP_PARAM_CCA_CASE_DESC,
HTTP_PARAM_CCA_CONNECTED_FLAG, HTTP_PARAM_CCA_CONTENT_ID, HTTP_PARAM_CCA_EXT_SOL_LIST,
HTTP_PARAM_CCA_SR_KEY, HTTP_PARAM_CCA_SYSTEM, HTTP_PARAM_CCA_TYPES,
HTTP_PARAM_CONTACT_RESPONSE, HTTP_PARAM_DIRECTION, HTTP_PARAM_DIRECTION_CURRENT,
HTTP_PARAM_DIRECTION_NEXT, HTTP_PARAM_DIRECTION_PREVIOUS, HTTP_PARAM_DOMAIN_GROUP,
HTTP_PARAM_FACET, HTTP_PARAM_FACET_COLLECTION_ID, HTTP_PARAM_FACET_RESET,
HTTP_PARAM_FACET_SHOW_ALL, HTTP_PARAM_HIGHLIGHT_INFO, HTTP_PARAM_LANGUAGE,
HTTP_PARAM_MODE, HTTP_PARAM_MODE_ADD_SOLUTION, HTTP_PARAM_MODE_ADMIN,
HTTP_PARAM_MODE_ANSWER, HTTP_PARAM_MODE_ANSWER_CONTACT, HTTP_PARAM_MODE_CCA_REFRESH,
HTTP_PARAM_MODE_CHECK_RESOURCE, HTTP_PARAM_MODE_DUMMY, HTTP_PARAM_MODE_FEEDBACK,
HTTP_PARAM_MODE_FINISH_WIZARD, HTTP_PARAM_MODE_GAT_WORKCLIENT_STATUS,
HTTP_PARAM_MODE_GET_SESSION_STATE, HTTP_PARAM_MODE_GETPAGE,
HTTP_PARAM_MODE_GETPAGE_CONTACT, HTTP_PARAM_MODE_INITIAL_CONTACT,
HTTP_PARAM_MODE_INITIAL_SCREEN, HTTP_PARAM_MODE_LOGIN, HTTP_PARAM_MODE_NAVIGATE,
HTTP_PARAM_MODE_PAGING, HTTP_PARAM_MODE_PAGING_CONTACT, HTTP_PARAM_MODE_QUESTION,
HTTP_PARAM_MODE_QUESTION_CONTACT, HTTP_PARAM_MODE_REMOVE_SOLUTION,
HTTP_PARAM_MODE_RESPOND_CONTACT, HTTP_PARAM_MODE_SEARCH_WITHIN, HTTP_PARAM_MODE_UTILITY,
HTTP_PARAM_MODE_WORKCLIENT, HTTP_PARAM_NAVIGATION_PURPOSE, HTTP_PARAM_NEW_PAGE_SIZE,
HTTP_PARAM_OPERATION, HTTP_PARAM_PAGE_NUMBER, HTTP_PARAM_PAGE_SIZE,
HTTP_PARAM_PRIOR_TRANSACTION_ID, HTTP_PARAM_PROCESSOR_ADDRESS, HTTP_PARAM_QUESTION,
HTTP_PARAM_REQUEST_TYPE, HTTP_PARAM_RESULT_LANGUAGE, HTTP_PARAM_SCREEN,
HTTP_PARAM_SEARCH_WITHIN, HTTP_PARAM_SEARCH_WITHIN_ENCODING,
HTTP_PARAM_SEARCH_WITHIN_URL, HTTP_PARAM_SEGMENT, HTTP_PARAM_STRUCTURED_CHART,
HTTP_PARAM_SUB_ACTION, HTTP_PARAM_SUBJECT, HTTP_PARAM_TRACKED_URL,
HTTP_PARAM_USER_FEEDBACK, HTTP_PARAM_USER_RATING, HTTP_PARAM_WIZARD_ID, HTTP_SESSION_KEY,
HTTP_SESSION_LANGUAGE_KEY, REQUEST_BASE_URL

Fields inherited from class com.inquira.infra.gateway.AbstractAgent

---

ADMIN_TEMPLATE, CCA_TEMPLATE, CONTACT_TEMPLATE, INFO_TEMPLATE, infoNoStyleTemplate,
INITIAL_SCREEN_TEMPLATE, processAnswerStyleTemplate, QUESTION_ANSWER_TEMPLATE,
questionAnswerStyleTemplate

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.infra.requestprocessor.IRequestNames`

CLEANUP_DATA_REQUEST, DEV_CLEANUP_DATA_REQUEST, GENERATE_DATA_REQUEST,
PUBLISH_DATA_REQUEST, REQUEST_ADMIN, REQUEST_ANSWER_CONTACT, REQUEST_ANSWER_QUESTION,
REQUEST_CCA_ADD_SOLUTION, REQUEST_CCA_ANSWER_QUESTION, REQUEST_CCA_GETPAGE,
REQUEST_CCA_NAVIGATE, REQUEST_CCA_PAGING_CURRENT, REQUEST_CCA_PAGING_NEXT,
REQUEST_CCA_PAGING_PREVIOUS, REQUEST_CCA_PROCESS_ANSWER, REQUEST_CCA_RATE_QUESTION,
REQUEST_CCA_REFRESH, REQUEST_CCA_REMOVE_SOLUTION, REQUEST_DISTRIBUTED_DIRECT_QUERY,
REQUEST_DISTRIBUTED_QUERY, REQUEST_FIND_DOCUMENTS, REQUEST_FINISH_WIZARD,
REQUEST_GET_INFO, REQUEST_GET_SESSION_STATE, REQUEST_GET_STATUS, REQUEST_GETPAGE,
REQUEST_GETSTATUS, REQUEST_IM_SEARCH, REQUEST_INITIAL, REQUEST_INITIAL_CONTACT,
REQUEST_LIST_DOCUMENTS, REQUEST_LOGIN, REQUEST_NAVIGATE, REQUEST_PAGING_CURRENT,
REQUEST_PAGING_NEXT, REQUEST_PAGING_PREVIOUS, REQUEST_PROCESS_ANSWER,
REQUEST_RATE_QUESTION, REQUEST_RESET_STATUS, REQUEST_RESPOND_CONTACT,
REQUEST_SC_CACHE_CREATION, REQUEST_SEARCH_WITHIN, REQUEST_START_WORK, REQUEST_STOP_WORK,
REQUEST_UTILITY, REQUEST_WORKCLIENT, REQUEST_WORKFLOW

Fields inherited from interface `com.inquira.log.ILogConstants`

BAD_CUSTOM_RESOURCE_BUNDLE, BASE_FILE_NAME, BASE_SUB_DIRECTORY_NAME, BASEURL,
CONFIG_BASEURL, COUNTRY, DEBUG_MSG, DEFAULT_SEVERITY, DIRECTORY, ERROR_MSG,
EXCEPTION_CONSEQUENCE, FILE_EXTENSION, INDEX_FILE_NAME, INFO_MSG, LANGUAGE, LISTENERS,
LOCALE, LOG_SERVICE_START, LOGFILE_CLOSETIME_ID, LOGFILE_CREATETIME_ID,
LOGFILE_VERSION_INFO, LOGFILE_VERSION_INFO_ID, MAX_FILE_SIZE, MAX_FILES_PER_DIRECTORY,
MAX_LOG_MESSAGE_LENGTH, MAX_ROTATIONS, NULL_VALUE, PLAYBACK_LISTENERS, QUEUE_SIZE,
TRANSACTION_ASSIGNED_JVM, TRANSACTION_CREATED_JVM, TRANSACTION_ENDED_JVM,
TRANSACTION_ENTERED_JVM, TRANSACTION_EXCEPTION_JVM, TRANSACTION_FAILED_JVM,
TRANSACTION_LEFT_JVM, TRANSACTION_RETURNED_IN_ERROR_JVM, TRANSACTION_RETURNED_JVM,
TRANSACTION_SENT_JVM, UNKNOWN_ID, UNKNOWN_ID_CALLED_WITH, USER_LOCALE, VERBOSE_MSG,
VERBOSITY, WARN_MSG

Constructor Summary

public	**XMLAgent**(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out) Constructor for JSP based integration.
public	**XMLAgent**(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.jsp.PageContext context, javax.servlet.http.HttpSession httpSession, javax.servlet.jsp.JspWriter out, String charEncoding) Constructor for JSP based integration.
public	**XMLAgent**(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding) Constructor for servlet and JSP based integration.

Method Summary

Object	**handleException**(Throwable t, AgentRequest arq, AgentResponse ars)
Object	**transformResponse**(javax.xml.transform.Templates template, AgentRequest arq, AgentResponse ars) Returns W3C Node object of the response.

Methods inherited from class `com.inquira.infra.gateway.html13.Agent`

handleException, log, log, transformResponse

Methods inherited from class com.inquira.infra.gateway.html.AbstractAgent

disableDebugMode, establishCharEncoding, getBaseURL, getBoolean, getSessionState, handleException, processAddSolutionCCAMode, processAdminMode, processAnswerCCAMode, processAnswerContactMode, processAnswerMode, processCCAFinishWizard, processCheckLocation, processDummyMode, processFeedbackCCAMode, processFeedbackMode, processFinishWizard, processGetInfo, processGetPage, processGetPageCCA, processGetPageContactMode, processGetSessionState, processGetStatus, processInitialCCAScreen, processInitialContact, processInitialScreen, processInvalidMode, processLoginMode, processNavigateCCAMode, processNavigateMode, processPagingCCAMode, processPagingContactMode, processPagingMode, processQuestionCCAMode, processQuestionContactMode, processQuestionMode, processRefreshCCAMode, processRemoveSolutionCCAMode, processRespondContactMode, processSearchWithin, processUtilRequest, reloadTemplates, setConfiguredBaseURL, transformResponse

---

Methods inherited from class com.inquira.infra.gateway.AbstractAgent

assureTemplates, assureTemplates, getTemplate

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

---

Constructors

XMLAgent

```
public XMLAgent(IClient client,
                javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.jsp.PageContext context,
                javax.servlet.http.HttpSession httpSession,
                javax.servlet.jsp.JspWriter out)
```

Constructor for JSP based integration.

XMLAgent

```
public XMLAgent(IClient client,
                javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.jsp.PageContext context,
                javax.servlet.http.HttpSession httpSession,
                javax.servlet.jsp.JspWriter out,
                String charEncoding)
```

Constructor for JSP based integration.

XMLAgent

```
public XMLAgent(IClient client,
                javax.servlet.http.HttpServletRequest request,
                javax.servlet.http.HttpServletResponse response,
                javax.servlet.ServletConfig config,
                javax.servlet.http.HttpSession httpSession,
                String charEncoding)
```

Constructor for servlet and JSP based integration.

Methods

transformResponse

```
public Object transformResponse(javax.xml.transform.Templates template,
        AgentRequest arq,
        AgentResponse ars)
   throws AgentException
```

Returns W3C Node object of the response.

handleException

```
public Object handleException(Throwable t,
        AgentRequest arq,
        AgentResponse ars)
```

Handles exceptions that occur during processing of the request in the Agent.

Package
com.inquira.infra.security

This package contains common classes interfaces that are used throughout the security service implementations.

Package
com.inquira.infra.security

com.inquira.infra.security
Class ConstantField

```
java.lang.Object
    │
    +-com.inquira.infra.security.FieldValue
         │
         +-com.inquira.infra.security.Field
              │
              +-com.inquira.infra.security.DisplayField
                   │
                   +-com.inquira.infra.security.ConstantField
```

All Implemented Interfaces:
> IFieldNames, INameConstants, Cloneable, INameConstants, Cloneable, INameConstants, Cloneable

---

public class **ConstantField**
extends DisplayField

Represents a display only field, whose data must be returned to the backend.

Fields inherited from class `com.inquira.infra.security.FieldValue`

`instantiator`

Fields inherited from interface `com.inquira.request.INameConstants`

```
AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID
```

Fields inherited from interface `com.inquira.util.xml.INameConstants`

```
BINARY, TRUE
```

Fields inherited from interface `com.inquira.infra.security.IFieldNames`

FIELD_DISPLAY_NAME, FIELD_DOMAIN, FIELD_ERROR, FIELD_PASSWORD, FIELD_REALM, FIELD_USER_DN, FIELD_USER_ID

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.request.INameConstants`

Fields inherited from interface `com.inquira.util.xml.INameConstants`

`BINARY,TRUE`

Constructor Summary

public	[ConstantField](String name, String value) Creates a new ConstantField, setting its name and value.

Method Summary

com.inquira.util.xml. Node	[toNode]()
String	[toString]()

Methods inherited from class [com.inquira.infra.security.DisplayField]

[main], [setValue], [toNode], [toString]

Methods inherited from class [com.inquira.infra.security.Field]

[clone]

Methods inherited from class [com.inquira.infra.security.FieldValue]

[getName], [getValue], [main], [toNode], [toString]

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

ConstantField

public **ConstantField**(String name,
                        String value)

Creates a new ConstantField, setting its name and value.

Methods

toString

public String **toString**()

Returns a string representation of this object.

toNode

public com.inquira.util.xml.Node **toNode**()

Serializes itself to XML that can be parsed by [FieldValue.instantiator].

com.inquira.infra.security
Class ContentPermission

```
java.lang.Object
    │
    +-java.security.Permission
        │
        +-java.security.BasicPermission
            │
            +-com.inquira.infra.security.StandardPermission
                │
                +-com.inquira.infra.security.SecurityPermission
                    │
                    +-com.inquira.infra.security.ContentPermission
```

All Implemented Interfaces:
> Serializable, java.security.Guard, Serializable, InquiraPermission

---

public class **ContentPermission**
extends SecurityPermission

Represents permissions used for content restriction in search.

Constructor Summary

public	ContentPermission(String name) Constructor that creates a new security permission with the given name.

Methods inherited from class com.inquira.infra.security.StandardPermission

getKey

Methods inherited from class java.security.BasicPermission

equals, getActions, hashCode, implies, newPermissionCollection

Methods inherited from class java.security.Permission

checkGuard, equals, getActions, getName, hashCode, implies, newPermissionCollection, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface java.security.Guard

checkGuard

Methods inherited from interface com.inquira.infra.security.InquiraPermission

getKey

Constructors

ContentPermission

public **ContentPermission**(String name)

>   Constructor that creates a new security permission with the given name.

ContentPermission

public **ContentPermission**(String name)

com.inquira.infra.security
Class DisplayField

```
java.lang.Object
    │
    +-com.inquira.infra.security.FieldValue
        │
        +-com.inquira.infra.security.Field
            │
            +-com.inquira.infra.security.DisplayField
```

All Implemented Interfaces:
INameConstants**,** Cloneable**,** IFieldNames**,** INameConstants**,** Cloneable**,** INameConstants**,** Cloneable

Direct Known Subclasses:
ConstantField

---

public class **DisplayField**
extends Field
implements Cloneable **,** INameConstants **,** Cloneable **,** INameConstants **,** IFieldNames **,** Cloneable **,**
INameConstants

Represents a display-only field. Its data will not be available to the backend.

Fields inherited from class com.inquira.infra.security.FieldValue

instantiator

Fields inherited from interface com.inquira.request.INameConstants

```
AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID
```

Fields inherited from interface com.inquira.util.xml.INameConstants

```
BINARY, TRUE
```

Fields inherited from interface `com.inquira.infra.security.IFieldNames`

`FIELD_DISPLAY_NAME`, `FIELD_DOMAIN`, `FIELD_ERROR`, `FIELD_PASSWORD`, `FIELD_REALM`, `FIELD_USER_DN`, `FIELD_USER_ID`

Fields inherited from interface `com.inquira.request.INameConstants`

`AAS_FIELD`, `AAS_FIELD_VALUE`, `ACTION_CODE`, `ADDRESS`, `ANSWER_ID`, `ANSWER_NOT_FOUND`, `ANSWER_RELATED_IDS`, `ANSWER_START`, `APPLICATION`, `BASE_URL`, `BINARY_CONTENT_NOT_SUPPORTED`, `CCA_ANSWER_SOLUTIONS_LIST`, `CCA_CASE_DESC`, `CCA_CONNECTED`, `CCA_CONTENT_ID`, `CCA_EXT_SOL_LIST`, `CCA_SR_KEY`, `CCA_SYSTEM`, `CCA_TYPES`, `CHARACTER_ENCODING`, `CHARSET`, `CHOICES`, `CONSTANT`, `CONSTRAINT`, `CONSTRAINT_DOMAIN_GROUP`, `CONSTRAINT_LANGUAGE`, `CONSTRAINT_RESULT_LANGUAGE`, `CONSTRAINT_SEGMENT`, `CONSTRAINT_SUBJECT`, `CONTENT_TYPE`, `COOKIE`, `COOKIES`, `DOMAIN`, `EDIT`, `ENTRY`, `ERROR`, `ERROR_MESSAGE`, `EXT_SESSION_ID`, `FACET`, `FACET_COLLECTION_ID`, `FACET_PRIOR_TRANSACTION_ID`, `FACET_RESET`, `FACET_SHOW_ALL`, `FIELD`, `FIELD_PREFIX`, `GIML_CONFIG`, `GIML_FACET`, `GIML_FACETS`, `HOST`, `HTTP_PASS_THROUGH`, `IM_INTERNAL_ERROR`, `INFO`, `INFO_MESSAGE`, `INFO_NO_LONGER_AVAILABLE`, `INSTANCE_ID`, `KEY`, `LABEL`, `LANGUAGE`, `LOCATING_APPLICATION`, `LOCATING_SYNCH_POINT`, `LOGIN_SPEC`, `LOGIN_VALUES`, `MAX_SIMILAR_RESULTS`, `MESSAGE`, `MESSAGE_CODE`, `NAME`, `NEW_PAGE_SIZE`, `OPTION`, `OPTIONAL`, `PAGE_NUMBER`, `PAGE_SIZE`, `PAGE_WARP`, `PAGING_ALL`, `PAGING_DIRECTION`, `PAGING_NEXT`, `PAGING_PREVIOUS`, `PATH`, `PRINCIPAL`, `PRIOR_TRANSACTION_ID`, `PROCESSOR_VERSION`, `PURPOSE_NAVIGATION`, `QUERY`, `QUESTION_NO_LONGER_AVAILABLE`, `REDIRECT`, `REQUEST`, `REQUEST_SOURCE`, `RESPONSE`, `RESPONSES`, `RESTART_TYPE`, `SCREEN`, `SEARCH_WITHIN`, `SEARCH_WITHIN_DOC_URL`, `SEARCH_WITHIN_ENCODING`, `SECURE`, `SECURE_FIELD_PREFIX`, `SELECTED`, `SERVER_BUSY`, `SERVER_ERROR`, `SERVER_INITIALIZING`, `SERVER_MAINTENANCE`, `SERVER_SHUTDOWN`, `SERVER_TIMEOUT`, `SERVER_UNAVAILABLE`, `SESSION`, `SESSION_EXPIRATION`, `SESSION_HAS_EXPIRED`, `SIEBEL_CONNECTION_ERROR`, `SIEBEL_INTERNAL_ERROR`, `STACK_TRACE`, `SYNCH_POINT`, `TRACKED_URL`, `TRANSACTION_ID`, `TRANSPORT`, `TYPE`, `USER`, `USER_AGENT_ATTRIBUTE_PREFIX`, `USER_AGENT_HEADER_PREFIX`, `USER_AGENT_PARAMETER_PREFIX`, `USER_FEEDBACK`, `USER_RATING`, `VALUE`, `VALUES`, `VERSION`, `WIZARD_ID`

Fields inherited from interface `com.inquira.util.xml.INameConstants`

`BINARY`, `TRUE`

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Constructor Summary

public	**DisplayField**(String name) Creates a new DisplayField, setting its name only.
public	**DisplayField**(String name, String value) Creates a new DisplayField, setting its name, and value.

Method Summary

static void	**main**(String[] args) A simple main method.
void	**setValue**(String value) Sets the value.
com.inquira.util.xml. Node	**toNode**()
String	**toString**()

Methods inherited from class `com.inquira.infra.security.Field`

clone

Methods inherited from class `com.inquira.infra.security.FieldValue`

getName, getValue, main, toNode, toString

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructors

DisplayField

public **DisplayField**(String name)

Creates a new DisplayField, setting its name only.

DisplayField

public **DisplayField**(String name,
                       String value)

Creates a new DisplayField, setting its name, and value.

Methods

toString

public String **toString**()

Returns a string representation of this object.

toNode

public com.inquira.util.xml.Node **toNode**()

Serializes itself to XML that can be parsed by `FieldValue.instantiator`.

setValue

public void **setValue**(String value)
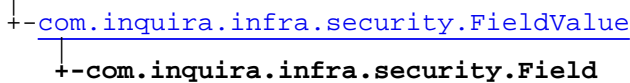
Sets the value.

main

public static void **main**(String[] args)
  throws Exception

A simple main method.

com.inquira.infra.security
Class Field

```
java.lang.Object
    |
    +-com.inquira.infra.security.FieldValue
        |
        +-com.inquira.infra.security.Field
```

All Implemented Interfaces:
      INameConstants, Cloneable, IFieldNames, INameConstants, Cloneable

Direct Known Subclasses:
      InputField, DisplayField

---

public abstract class **Field**
extends FieldValue
implements Cloneable, INameConstants, IFieldNames, Cloneable, INameConstants

Marker class to signal the intention whether this field can contain values or not.

Fields inherited from class `com.inquira.infra.security.FieldValue`

`instantiator`

Fields inherited from interface com.inquira.request.INameConstants

```
AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID
```

Fields inherited from interface com.inquira.util.xml.INameConstants

```
BINARY, TRUE
```

Fields inherited from interface `com.inquira.infra.security.IFieldNames`

FIELD_DISPLAY_NAME, FIELD_DOMAIN, FIELD_ERROR, FIELD_PASSWORD, FIELD_REALM, FIELD_USER_DN, FIELD_USER_ID

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Method Summary

Object	clone() Clones the Field object.

Methods inherited from class `com.inquira.infra.security.FieldValue`

getName, getValue, main, toNode, toString

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods

clone

`public Object` **`clone`**`()`

Clones the Field object.

com.inquira.infra.security
Class FieldValue

```
java.lang.Object
    │
    +-com.inquira.infra.security.FieldValue
```

All Implemented Interfaces:
> IFieldNames, INameConstants, Cloneable

Direct Known Subclasses:
> Field

---

public class **FieldValue**
extends Object
implements Cloneable, INameConstants, IFieldNames

Represents fields and their values used during the authentication process.

Field Summary

public static	instantiator
	XML parser that can create the appropriate FieldValue by parsing an XML node.

Fields inherited from interface `com.inquira.request.INameConstants`

`AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID`

Fields inherited from interface `com.inquira.util.xml.INameConstants`

`BINARY, TRUE`

Fields inherited from interface `com.inquira.infra.security.IFieldNames`

FIELD_DISPLAY_NAME, FIELD_DOMAIN, FIELD_ERROR, FIELD_PASSWORD, FIELD_REALM, FIELD_USER_DN, FIELD_USER_ID

Constructor Summary

public	**FieldValue**(String name, String value) Creates a new FieldValue object, setting its name and value.

Method Summary

String	getName() Returns the name of the FieldValue object.
String	getValue() Returns the current value.
static void	main(String[] args) A simple debug main method.
com.inquira.util.xml. Node	toNode() Serializes itself to XML that can be parsed by instantiator.
String	toString() Returns a string representation of this object.

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

instantiator

public static com.inquira.util.xml.NodeProcessor **instantiator**

> XML parser that can create the appropriate FieldValue by parsing an XML node.

Constructors

FieldValue

public **FieldValue**(String name,
                      String value)

> Creates a new FieldValue object, setting its name and value.

Methods

getName

public String **getName**()

> Returns the name of the FieldValue object.

getValue

```
public String getValue()
```

> Returns the current value.

toNode

```
public com.inquira.util.xml.Node toNode()
```

> Serializes itself to XML that can be parsed by <u>instantiator</u>.

toString

```
public String toString()
```

> Returns a string representation of this object.

main

```
public static void main(String[] args)
  throws Exception
```

> A simple debug main method.

com.inquira.infra.security
Interface IAAS

---

public interface **IAAS**

Defines security service, that provides facilities to authenticate a user and provide permission bases access control.
See Also:
>   IAuthenticator, IDelegationAuthenticator

Method Summary

IUser	delegate(Request request) Attempts to accepts an externally authenticated user.
IAuthenticator	getAuthenticator(String domain) Returns the IAuthenticator for domain.
Field[]	getLoginFields() Returns an array of Field objects that must be presented to the user for authentication.
Field[]	getLoginFields(String name, String value) Returns an array of Field objects that must be presented to the user for authentication, including a message field called fieldName with text id fieldValue.
com.inquira.util.xml. Node	getLoginSpec() Returns an XML {@link com.inquira.util.xml.Node) that contains the field information for all fields that must be presented to the user for authentication.
com.inquira.util.xml. Node	getLoginSpec(String fieldName, String fieldValue) Returns an array of Field objects that must be presented to the user for authentication, while displaying a message field called fieldName with text id fieldValue.
java.security.Permiss ion	getPermission(String permissionKey) Returns the permission names permissionKey.
Map	getRole2PermissionsMap() Return a map is keyed by the role name and contains java.security.Permissions objects.
long	getRolesTimestamp() Returns the timestamp for the last time the role permissions map was updated.
boolean	hasAccess(IUser user, java.security.Permission permission) Checks if the user has access to this permission.
boolean	hasAccess(IUser user, String permissionKey) Checks if the user has access to permission named permissionKey.
IUser	login(FieldValue[] userInfo) Attempts to validate user credentials and returns a fully configured IUser object.
IUser	login(com.inquira.util.xml.Node userInfo) Attempts to validate user credentials and returns a fully configured IUser object.

---

java.security.Permiss ions	[refreshUser](#)([IUser](#) user, long timestamp) Tries to refresh user permission, not all [IAuthenticator](#)s can refresh the user information after authentication, so this method might not actually refresh the user information untill the user logs out and back in.

Methods

login

```
public IUser login(com.inquira.util.xml.Node userInfo)
    throws InquiraSecurityException
```

Attempts to validate user credentials and returns a fully configured `IUser` object. If the user cannot be authenticated a `InquiraSecurityException` is thrown.

login

```
public IUser login(FieldValue[] userInfo)
    throws InquiraSecurityException
```

Attempts to validate user credentials and returns a fully configured `IUser` object. If the user cannot be authenticated a `InquiraSecurityException` is thrown.

delegate

```
public IUser delegate(Request request)
    throws InquiraSecurityException
```

Attempts to accepts an externally authenticated user. If the user cannot be established `null` is returned.

getLoginFields

```
public Field[] getLoginFields(String name,
        String value)
    throws InquiraSecurityException
```

Returns an array of `Field` objects that must be presented to the user for authentication, including a message field called `fieldName` with text id `fieldValue`.

getLoginFields

```
public Field[] getLoginFields()
    throws InquiraSecurityException
```

Returns an array of `Field` objects that must be presented to the user for authentication.

getLoginSpec

```
public com.inquira.util.xml.Node getLoginSpec(String fieldName,
        String fieldValue)
    throws InquiraSecurityException
```

Returns an array of `Field` objects that must be presented to the user for authentication, while displaying a message field called `fieldName` with text id `fieldValue`.

getLoginSpec

```
public com.inquira.util.xml.Node getLoginSpec()
   throws InquiraSecurityException
```

> Returns an XML {@link com.inquira.util.xml.Node) that contains the field information for all fields that must be presented to the user for authentication.

hasAccess

```
public boolean hasAccess(IUser user,
         java.security.Permission permission)
```

> Checks if the user has access to this permission.

hasAccess

```
public boolean hasAccess(IUser user,
         String permissionKey)
```

> Checks if the user has access to permission named permissionKey.

getPermission

```
public java.security.Permission getPermission(String permissionKey)
```

> Returns the permission names permissionKey.

getAuthenticator

```
public IAuthenticator getAuthenticator(String domain)
```

> Returns the IAuthenticator for domain. If no authenticator has been defined for this domain null is returned.

getRole2PermissionsMap

```
public Map getRole2PermissionsMap()
```

> Return a map is keyed by the role name and contains java.security.Permissions objects.

getRolesTimestamp

```
public long getRolesTimestamp()
```

> Returns the timestamp for the last time the role permissions map was updated.

refreshUser

```
public java.security.Permissions refreshUser(IUser user,
         long timestamp)
   throws InquiraSecurityException
```

> Tries to refresh user permission, not all IAuthenticators can refresh the user information after authentication, so this method might not actually refresh the user information untill the user logs out and back in.

com.inquira.infra.security
Interface IAuthenticator

All Subinterfaces:
> IDelegationAuthenticator

---

public interface **IAuthenticator**

Defines all methods required for all authenication modules.

Method Summary

IUser	`authenticate`(`FieldValue[]` userInfo, Map roles2PermissionsMap, long timestamp) Returns a User object if the authentication is successful, otherwise throws InquiraAuthnticationException.
Field[]	`getAuthenticationFields`() Returns an array of `InputField` objects that represent all values the user has to provide for authentication.
String	`getDomain`() Returns the domain name this authenicator can handle.

Methods

authenticate

```
public IUser authenticate(FieldValue[] userInfo,
        Map roles2PermissionsMap,
        long timestamp)
  throws InquiraAuthenticationException
```

> Returns a User object if the authentication is successful, otherwise throws InquiraAuthnticationException.

> **Parameters:**
>> userInfo - Contains the values provided by the user to authenticate himself.
>> roles2PermissionsMap - Contains a java.util.List of java.security.Permission objects for each role.
>> timestamp - Contains the timestamp this method was called. This values must be passed to all IUser objects when they are instantiated.

> **Returns:**
>> This method must return a valid IUser object if the authentication was successful, in all other case a InquiraAuthenticationException must be throw.
>> **Note: null** is not a valid return value.

---

getAuthenticationFields

```
public Field[] getAuthenticationFields()
  throws InquiraAuthenticationException
```

Returns an array of InputField objects that represent all values the user has to provide for authentication.
Example: If only user id and password fields are required.

```
protected Field[] authenticationFields = new Field[] {
                                new InputField( FIELD_USER_ID ),
                                new InputField( FIELD_PASSWORD, true ) };
public Field[] getAuthenticationFields( )
    throws InquiraAuthenticationException
{
    return authenticationFields;
}
```

getDomain

```
public String getDomain()
```

Returns the domain name this authenicator can handle.

com.inquira.infra.security
Interface IDelegationAuthenticator

All Superinterfaces:
>   IAuthenticator

---

public interface **IDelegationAuthenticator**
extends IAuthenticator

This class extends regular authenticating modules that integrate with single-sign-on solutions. Authentication modules of this type work in tandem with `delegation detector` classes.

Method Summary

IUser	`delegate`(`FieldValue[]` userInfo, java.security.Principal principal, Map roles2PermissionsMap, long timestamp) This method is called with the known information about the user that was authenticated by an external security solution, such as a sign-sign-on system.
`Field[]`	`getAuthenticationFields`() If a delegation authenticator returns an empty array of Field objects, then it will not be available for authentication.

Methods inherited from interface `com.inquira.infra.security.IAuthenticator`
`authenticate`, `getAuthenticationFields`, `getDomain`

Methods

getAuthenticationFields

```
public Field[] getAuthenticationFields()
  throws InquiraAuthenticationException
```

If a delegation authenticator returns an empty array of Field objects, then it will not be available for authentication. This means that the domain selection list will not contain the doamin for this authenticator, this seems useful for cases where the delegation authenticator cannot authenticate but only delegate.

---

delegate

```
public IUser delegate(FieldValue[] userInfo,
        java.security.Principal principal,
        Map roles2PermissionsMap,
        long timestamp)
  throws InquiraAuthenticationException
```

This method is called with the known information about the user that was authenticated by an external security solution, such as a sign-sign-on system.

Parameters:
>   userInfo - This variable contains the values extracted by the `delegation detector` class.
>   principal - If the single-sign-on solution provides a prinicapl object then it should be passed in this variable. This value can be null. `java.security.Permission` objects.
>   roles2PermissionsMap - This variable contains a `java.util.List` of `java.security.Permission` objects.

---

timestamp - This variable contains the timestamp this method was called. This values must be passed to all `IUser` objects whne they are instanciated.

Returns:

This method must return a value `IUser` object if the authentication was successful, else **null** should be returned.

com.inquira.infra.security
Interface IDelegationDetector

public interface **IDelegationDetector**

This interface is used by the `request processor` to extract the user information from external security solutions, such as single-sign-on systems. This works in conjunction with `IDelegationAuthenticator` implementation.

Method Summary

`FieldValue[]`	`detectDelegation`(Request request) This method is called by the `request processor` if a request requires authentication, no user has been established and an instance of interface is configured in the `security service`.

Methods

detectDelegation

public `FieldValue[]` **detectDelegation**(Request request)

This method is called by the `request processor` if a request requires authentication, no user has been established and an instance of interface is configured in the `security service`.

Parameters:
> `request` - The request that contains the delegation information.

Returns:
> The return value contains all the information about the user that was extracted. At a minimum the array should contain the user id and domain.

com.inquira.infra.security
Interface IFieldNames

All Known Implementing Classes:
> FieldValue

---

public interface **IFieldNames**

Defines common fields used by the `security service`.

Field Summary

public static final	FIELD_DISPLAY_NAME Defines a field to enter the user name. Value: **DISPLAY_NAME**
public static final	FIELD_DOMAIN Defines a field to enter the security domain. Value: **DOMAIN**
public static final	FIELD_ERROR Defines a field to display an error message. Value: **ERROR**
public static final	FIELD_PASSWORD Defines a field to enter the password. Value: **PASSWORD**
public static final	FIELD_REALM Defines a field to enter the security realm. Value: **REALM**
public static final	FIELD_USER_DN Defines a field to enter the user DN for direct LDAP integration. Value: **USER_DN**
public static final	FIELD_USER_ID Defines a field to enter the user id. Value: **USER_ID**

Fields

FIELD_USER_ID

public static final java.lang.String **FIELD_USER_ID**

> Defines a field to enter the user id.
> Constant value: **USER_ID**

FIELD_USER_DN

public static final java.lang.String **FIELD_USER_DN**

Defines a field to enter the user DN for direct LDAP integration.
Constant value: **USER_DN**

FIELD_DISPLAY_NAME

public static final java.lang.String **FIELD_DISPLAY_NAME**

Defines a field to enter the user name.
Constant value: **DISPLAY_NAME**

FIELD_PASSWORD

public static final java.lang.String **FIELD_PASSWORD**

Defines a field to enter the password.
Constant value: **PASSWORD**

FIELD_REALM

public static final java.lang.String **FIELD_REALM**

Defines a field to enter the security realm.
Constant value: **REALM**

FIELD_DOMAIN

public static final java.lang.String **FIELD_DOMAIN**

Defines a field to enter the security domain.
Constant value: **DOMAIN**

FIELD_ERROR

public static final java.lang.String **FIELD_ERROR**

Defines a field to display an error message.
Constant value: **ERROR**

com.inquira.infra.security
Class InputField

```
java.lang.Object
    │
    +-com.inquira.infra.security.FieldValue
        │
        +-com.inquira.infra.security.Field
            │
            +-com.inquira.infra.security.InputField
```

All Implemented Interfaces:

INameConstants**,** Cloneable**,** IFieldNames**,** INameConstants**,** Cloneable**,** INameConstants**,** Cloneable

---

public class **InputField**
extends Field
implements Cloneable, INameConstants, Cloneable, INameConstants, IFieldNames, Cloneable, INameConstants

Represents a user-modifiable field. This field type supports selecting the value from a list of valid values. Fields of this type are normally displayed as a drop-down listbox, or text boxes.
 If the field is marked as secure, its value is not logged or printed in any of the debug messages, and the UI is instructed to handle it as a password field.

Fields inherited from class com.inquira.infra.security.FieldValue

instantiator

Fields inherited from interface com.inquira.request.INameConstants

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID

Fields inherited from interface com.inquira.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface `com.inquira.infra.security.IFieldNames`

`FIELD_DISPLAY_NAME`, `FIELD_DOMAIN`, `FIELD_ERROR`, `FIELD_PASSWORD`, `FIELD_REALM`, `FIELD_USER_DN`, `FIELD_USER_ID`

Fields inherited from interface `com.inquira.request.INameConstants`

`AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID`

Fields inherited from interface `com.inquira.util.xml.INameConstants`

`BINARY, TRUE`

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Constructor Summary

public	[InputField](String name) Creates a new InputField object, setting only the name.
public	[InputField](String name, String value) Creates a new InputField object, setting its name and value.
public	[InputField](String name, boolean secure) Creates a new InputField object, setting its name and security status.
public	[InputField](String name, boolean secure, boolean optional) Creates a new InputField object, setting its name, security status, and optional flag.

Method Summary

void	[addChoice](String display, String value) Adds a choice to the list of choices offered to the user.
List	[getChoices]() Returns the list of choices to present to the user for this InputField.
boolean	[isSecure]() Returns whether the content of this field should be treated as secure.
static void	[main](String[] args) A simple main method.
void	[setValue](String value) Sets the value.

com.inquira.util.xml. Node	[toNode](#)()
String	[toString](#)()

Methods inherited from class [com.inquira.infra.security.Field](#)

[clone](#)

Methods inherited from class [com.inquira.infra.security.FieldValue](#)

[getName](#), [getValue](#), [main](#), [toNode](#), [toString](#)

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructors

InputField

public **InputField**(String name)

Creates a new InputField object, setting only the name.

InputField

public **InputField**(String name,
                     String value)

Creates a new InputField object, setting its name and value.

InputField

public **InputField**(String name,
                     boolean secure)

Creates a new InputField object, setting its name and security status.

InputField

public **InputField**(String name,
                     boolean secure,
                     boolean optional)

Creates a new InputField object, setting its name, security status, and optional flag.

Methods

isSecure

public boolean **isSecure**()

Returns whether the content of this field should be treated as secure. This flag determines if the value of this InputField can be logged or printed to stdout/stderr.

setValue

```
public void setValue(String value)
```

> Sets the value.

toString

```
public String toString()
```

> Returns a string representation of this object.

addChoice

```
public void addChoice(String display,
        String value)
```

> Adds a choice to the list of choices offered to the user. This is to provide the data for a drop-down list box.

getChoices

```
public List getChoices()
```

> Returns the list of choices to present to the user for this InputField.

toNode

```
public com.inquira.util.xml.Node toNode()
```

> Serializes itself to XML that can be parsed by `FieldValue.instantiator`.

main

```
public static void main(String[] args)
  throws Exception
```

> A simple main method.

com.inquira.infra.security
Class InquiraAuthenticationException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.InquiraException
                │
                +-com.inquira.infra.InquiraSecurityException
                    │
                    +-com.inquira.infra.security.InquiraAuthenticationException
```

All Implemented Interfaces:
> INameConstants, Serializable, com.inquira.log.Loggable, INameConstants

---

public class **InquiraAuthenticationException**
extends [InquiraSecurityException](#)
implements INameConstants, com.inquira.log.Loggable, Serializable, INameConstants

Thrown when an authentication operation failed. The `getLoginFields()` and `getLoginSpec()` methods are used by the framework to determine which fields must be displayed to the user to complete the authentication process. If the login fields are not initialized by a call to `setLoginFields(Field[])`, then the framework will call `IAuthenticator.getAuthenticationFields()` to determine the fields to present to the user for authentication.

Fields inherited from class `com.inquira.infra.InquiraException`

`APPLICATION_FATAL`, `TRANSACTION_PERMANENT`, `TRANSACTION_RETRY`, `UNKNOWN`

Fields inherited from interface `com.inquira.request.INameConstants`

`AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID`

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND, ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED, CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST, CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT, CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE, CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY, ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID, FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG, GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE, INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION, LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE, NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL, PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID, PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT, REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN, SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED, SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN, SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED, SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL, TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX, USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE, VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Constructor Summary

public	**InquiraAuthenticationException**(String id, Object[] args) Creates a new exception with the message id and arguments set.
public	**InquiraAuthenticationException**(String id) Creates a new exception with the message id set.
public	**InquiraAuthenticationException**(Throwable t) Creates a new exception with the cause being set.
public	**InquiraAuthenticationException**(String msg, Throwable t) Creates a new exception with the message id and cause set.
public	**InquiraAuthenticationException**(Object[] args, Throwable t) Creates a new exception with the arguments and cause set.
public	**InquiraAuthenticationException**(String id, Object[] args, Throwable t) Creates a new exception with the message id, arguments and cause set.

Method Summary

Field[]	**getLoginFields**() Returns the login fields that have been set by a prior call to setLoginFields(Field[]).

com.inquira.util.xml.Node	getLoginSpec() Returns the XML login spec for the login fields that haven been set by a prior call to setLoginFields(Field[]).
static com.inquira.util.xml.Node	getLoginSpec(Field[] fields) Utility methods to create the XML login specs for for the array of login fields.
void	setLoginFields(Field[] loginFields) Sets the login fields that are returned in getLoginFields() and used to create XML login specs in getLoginSpec().

Methods inherited from class com.inquira.infra.InquiraException

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage, getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace, getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID, getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf, printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString, toFirstAndLastString, toFullString, toFullString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface com.inquira.log.Loggable

printLogString

Constructors

InquiraAuthenticationException

public **InquiraAuthenticationException**(String id,
                                          Object[] args)

Creates a new exception with the message id and arguments set.

InquiraAuthenticationException

public **InquiraAuthenticationException**(String id)

Creates a new exception with the message id set.

InquiraAuthenticationException

public **InquiraAuthenticationException**(Throwable t)

Creates a new exception with the cause being set.

InquiraAuthenticationException

```
public InquiraAuthenticationException(String msg,
                                      Throwable t)
```

Creates a new exception with the message id and cause set.

InquiraAuthenticationException

```
public InquiraAuthenticationException(Object[] args,
                                      Throwable t)
```

Creates a new exception with the arguments and cause set.

InquiraAuthenticationException

```
public InquiraAuthenticationException(String id,
                                      Object[] args,
                                      Throwable t)
```

Creates a new exception with the message id, arguments and cause set.

Methods

setLoginFields

```
public void setLoginFields(Field[] loginFields)
```

Sets the login fields that are returned in getLoginFields() and used to create XML login specs in getLoginSpec().

getLoginFields

```
public Field[] getLoginFields()
```

Returns the login fields that have been set by a prior call to setLoginFields(Field[]).

See Also:
getLoginSpec()

getLoginSpec

```
public com.inquira.util.xml.Node getLoginSpec()
```

Returns the XML login spec for the login fields that haven been set by a prior call to setLoginFields(Field[]).

See Also:
getLoginFields()

getLoginSpec

```
public static com.inquira.util.xml.Node getLoginSpec(Field[] fields)
```

Utility methods to create the XML login specs for for the array of login fields.

com.inquira.infra.security
Interface InquiraPermission

All Known Implementing Classes:
> [StandardPermission](#)

---

public interface **InquiraPermission**

This interface must be implemented by all Inquira-specific permission classes.

Method Summary

String	[getKey](#)() Returns the key for a given permission.

Methods

getKey

`public String **getKey**()`

> Returns the key for a given permission. The key represents an addition to the standard Java permission object in that it provides a string representation that uniquely identifies a permission. For this class and all other permission objects that use only the name to identify its identity, this method returns the name of the permission. More complex permission objects must return a string that identifies the permission unambiguously.
>
> **Returns:**
> > the key for this permission.

---

com.inquira.infra.security
Class SecurityPermission

```
java.lang.Object
    │
    +-java.security.Permission
        │
        +-java.security.BasicPermission
            │
            +-com.inquira.infra.security.StandardPermission
                │
                +-com.inquira.infra.security.SecurityPermission
```

All Implemented Interfaces:
> Serializable, java.security.Guard, Serializable, InquiraPermission

Direct Known Subclasses:
> ContentPermission

---

public abstract class **SecurityPermission**
extends StandardPermission

Abstract class representing permissions used for content restriction in search.
 Note: There is a naming conflict with java.security.SecurityPermission taat makes this class name undesirable, thus it is now an abstract class and we introduced the `ContentPermission` class instead.

Methods inherited from class `com.inquira.infra.security.StandardPermission`
`getKey`

Methods inherited from class `java.security.BasicPermission`
`equals, getActions, hashCode, implies, newPermissionCollection`

Methods inherited from class `java.security.Permission`
`checkGuard, equals, getActions, getName, hashCode, implies, newPermissionCollection, toString`

Methods inherited from class `java.lang.Object`
`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface `java.security.Guard`
`checkGuard`

Methods inherited from interface `com.inquira.infra.security.InquiraPermission`
`getKey`

---

com.inquira.infra.security
Class StandardPermission

```
java.lang.Object
    │
    +-java.security.Permission
        │
        +-java.security.BasicPermission
            │
            +-com.inquira.infra.security.StandardPermission
```

All Implemented Interfaces:
> InquiraPermission, Serializable, java.security.Guard, Serializable

Direct Known Subclasses:
> SecurityPermission

---

public class **StandardPermission**
extends java.security.BasicPermission
implements Serializable, java.security.Guard, Serializable, InquiraPermission

Represents a simple hierarchical permission.
 Note: Please check the J2SE documentation for details on the behavior of this class, since it reuses the java.security.BasicPermission object's functionality.

Constructor Summary

public	**StandardPermission**(String name) Constructor that creates a new security permission with the given name.

Method Summary

String	**getKey**()

Methods inherited from class java.security.BasicPermission
equals, getActions, hashCode, implies, newPermissionCollection

Methods inherited from class java.security.Permission
checkGuard, equals, getActions, getName, hashCode, implies, newPermissionCollection, toString

Methods inherited from class java.lang.Object
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface java.security.Guard
checkGuard

Methods inherited from interface com.inquira.infra.security.InquiraPermission
getKey

Constructors

StandardPermission

public **StandardPermission**(String name)

> Constructor that creates a new security permission with the given name.

Methods

getKey

public String **getKey**()

com.inquira.infra.security
Class UserAttribute

```
java.lang.Object
    |
    +-com.inquira.util.IQEnum
          |
          +-com.inquira.infra.security.UserAttribute
```

All Implemented Interfaces:
Serializable

---

public class **UserAttribute**
extends com.inquira.util.IQEnum

Defines custom user attributes.
 Note: The statically-defined instances defined in this class are only examples; more can be added by calling `add(String)` during initialization of the application.

Field Summary

public static transient	`FIRST_NAME` User attribute for the user's first name.
public static transient	`LAST_NAME` User attribute for the user's last name.
public static transient	`MIDDLE_INITIAL` User attribute for the user's middle initial.

Constructor Summary

public	`UserAttribute()`

Method Summary

static `UserAttribute`	`add(String name)` Adds another user attribute.
static `UserAttribute`	`decode(int id)` Decodes the id into the corresponding user attribute.
static `UserAttribute`	`decode(String id)` Decodes the id into the corresponding user attribute.

Methods inherited from class `com.inquira.util.IQEnum`

`equals, equals, getAliases, getId, getInstances, getInstances, getName, hashCode, toString`

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Fields

FIRST_NAME

`public static transient com.inquira.infra.security.UserAttribute **FIRST_NAME**`

> User attribute for the user's first name.

LAST_NAME

`public static transient com.inquira.infra.security.UserAttribute **LAST_NAME**`

> User attribute for the user's last name.

MIDDLE_INITIAL

`public static transient com.inquira.infra.security.UserAttribute **MIDDLE_INITIAL**`

> User attribute for the user's middle initial.

Constructors

UserAttribute

`public **UserAttribute**()`

Methods

add

`public static UserAttribute **add**(String name)`

> Adds another user attribute.

decode

`public static UserAttribute **decode**(int id)`

> Decodes the id into the corresponding user attribute.

decode

`public static UserAttribute **decode**(String id)`

> Decodes the id into the corresponding user attribute.

Package
com.inquira.infra.trnsp

This package contains common classes interfaces that are used throughout the transport implementations.

com.inquira.infra.trnsp
Class TransportException

```
java.lang.Object
    |
    +-java.lang.Throwable
        |
        +-java.lang.Exception
            |
            +-com.inquira.infra.InquiraException
                |
                +-com.inquira.infra.trnsp.TransportException
```

All Implemented Interfaces:
      Serializable, com.inquira.log.Loggable

---

public class **TransportException**
extends InquiraException

This class and its subclasses are thrown while trying to locate and access services.

Fields inherited from class com.inquira.infra.InquiraException

APPLICATION_FATAL, TRANSACTION_PERMANENT, TRANSACTION_RETRY, UNKNOWN

Constructor Summary

public	**TransportException**(String id, Object[] args, Throwable t) Creates a new exception with the message id, arguments, and cause being set.
public	**TransportException**(String id, Object[] args) Creates a new exception with the message id and arguments being set.
public	**TransportException**(String id, Throwable t) Creates a new exception with the message id and cause being set.
public	**TransportException**(Throwable t) Creates a new exception with the cause being set.
public	**TransportException**(String id) Creates a new exception with the message id being set.

Methods inherited from class com.inquira.infra.InquiraException

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage, getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace, getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID, getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf, printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString, toFirstAndLastString, toFullString, toFullString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Methods inherited from interface `com.inquira.log.Loggable`

```
printLogString
```

Constructors

TransportException

```
public TransportException(String id,
                          Object[] args,
                          Throwable t)
```

Creates a new exception with the message id, arguments, and cause being set.

TransportException

```
public TransportException(String id,
                          Object[] args)
```

Creates a new exception with the message id and arguments being set.

TransportException

```
public TransportException(String id,
                          Throwable t)
```

Creates a new exception with the message id and cause being set.

TransportException

```
public TransportException(Throwable t)
```

Creates a new exception with the cause being set.

TransportException

```
public TransportException(String id)
```

Creates a new exception with the message id being set.

Package
com.inquira.navigate

com.inquira.navigate
Class NavigationException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.InquiraException
                │
                +-com.inquira.navigate.NavigationException
```

All Implemented Interfaces:
Serializable, com.inquira.log.Loggable

---

public class **NavigationException**
extends InquiraException

NavigationException

Fields inherited from class com.inquira.infra.InquiraException

APPLICATION_FATAL, TRANSACTION_PERMANENT, TRANSACTION_RETRY, UNKNOWN

Constructor Summary

public	NavigationException(String id)
public	NavigationException(Throwable t)
public	NavigationException(String id, Throwable t)
public	NavigationException(String id, Object[] args)
public	NavigationException(String id, Object[] args, Throwable t)

Methods inherited from class com.inquira.infra.InquiraException

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage, getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace, getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID, getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf, printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString, toFirstAndLastString, toFullString, toFullString

Methods inherited from class java.lang.Throwable

fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace, initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

---

Methods inherited from interface `com.inquira.log.Loggable`
`printLogString`

Constructors

NavigationException

public **NavigationException**(String id)

NavigationException

public **NavigationException**(Throwable t)

NavigationException

public **NavigationException**(String id,
                              Throwable t)

NavigationException

public **NavigationException**(String id,
                              Object[] args)

NavigationException

public **NavigationException**(String id,
                              Object[] args,
                              Throwable t)

Package
com.inquira.navigate.classify

com.inquira.navigate.classify
Interface Classifier

All Known Implementing Classes:
> ClassifierAdapter

---

public interface **Classifier**
extends Cloneable

Classifier is an interface for defining document, excerpt, and structured record classification techniques. Implementations of Classifier will be made available through configuration. Created: Fri Dec 5 09:50:00 2003

Method Summary

com.inquira.retrieve. index.MatchLite	**classify**(String type) Compute all data objects of the appropriate type that match this classifier.
Object	**clone**() Makes a deep copy of the classifier
Set	**getClassifiedCollections**() Returns the set of collections this classifier might classify.
String	**getDescription**() Returns a detailed description of this classifier.
Facet	**getFacet**() Gets the facet containing this classifier.
String	**getName**() Returns a descriptive name for this classifier
void	**inEffect**() Perform any bookkeeping necessary if this classifier is "turned on".
boolean	**isAdHoc**() Returns whether this classifier is ad-hoc, that is, it must be evaluated on the fly at runtime.
boolean	**isAdvanced**() Returns whether or not this classifier is advanced, for the purposes of display in the facet builder gui.
boolean	**rangeBased**() Returns true if this classifier can match range level results
void	**setFacet**(Facet f) Sets the facet containing this classifier.
String	**toString**() (Used as name when Classifier is used as a tree node of item in a ComboBox, etc.)

Methods

---

getName

`public String` **`getName`**`()`

Returns a descriptive name for this classifier

Returns:
a `String`

getDescription

`public String` **`getDescription`**`()`

Returns a detailed description of this classifier.

Returns:
a `String`

getClassifiedCollections

`public Set` **`getClassifiedCollections`**`()`

Returns the set of collections this classifier might classify.

Returns:
a `Set`

isAdHoc

`public boolean` **`isAdHoc`**`()`

Returns whether this classifier is ad-hoc, that is, it must be evaluated on the fly at runtime. This might be true, for example, for structured classifiers references rapidly changing fields.

Returns:
a `boolean`

isAdvanced

`public boolean` **`isAdvanced`**`()`

Returns whether or not this classifier is advanced, for the purposes of display in the facet builder gui.

Returns:
a `boolean`

setFacet

`public void` **`setFacet`**`(Facet f)`

Sets the facet containing this classifier. This is used by dynamic classifiers to add sub-facets on the fly.

getFacet

`public Facet` **`getFacet`**`()`

Gets the facet containing this classifier. This is used by dynamic classifiers to add sub-facets on the fly.

classify

```
public com.inquira.retrieve.index.MatchLite classify(String type)
   throws InquiraException
```

Compute all data objects of the appropriate type that match this classifier. The document ids for the `Match` object must be unique (not collection specific) ids for unstructured and either keys (if integers) or key mappings (if not) for structured tables.

Parameters:

type - a `String` representing the collection being classified. Null means all collections.

Returns:

a `Match`

Throws:

InquiraException

inEffect

```
public void inEffect()
   throws NavigationException
```

Perform any bookkeeping necessary if this classifier is "turned on". This might include expanding dynamic facets.

clone

```
public Object clone()
```

Makes a deep copy of the classifier

Returns:

an `Object`

toString

```
public String toString()
```

(Used as name when Classifier is used as a tree node of item in a ComboBox, etc.) Returns a descriptive name for this classifier

Returns:
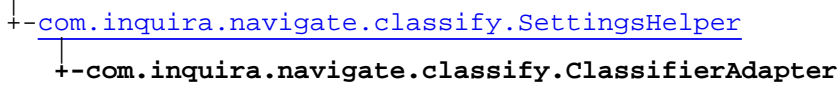
a `String`

rangeBased

```
public boolean rangeBased()
```

Returns true if this classifier can match range level results

Returns:

a `boolean`

com.inquira.navigate.classify
Class ClassifierAdapter

```
java.lang.Object
    │
    +-com.inquira.navigate.classify.SettingsHelper
          │
          +-com.inquira.navigate.classify.ClassifierAdapter
```

All Implemented Interfaces:
Cloneable, Classifier, com.inquira.util.PublicCloneable, com.inquira.util.SettingUser

Direct Known Subclasses:
UnstructuredClassifierAdapter, StructuredClassifierAdapter

---

public abstract class **ClassifierAdapter**
extends SettingsHelper
implements com.inquira.util.SettingUser, com.inquira.util.PublicCloneable, Classifier, Cloneable

A useful class to get started on creating a classifier. Among other things, it extends SettingsHelper to implement the settings requirement and has some methods to create some useful settings. Created: Fri Dec 12 11:46:37 2003

Field Summary

public static final	COLLECTION_LABEL Value: **COLLECTION**
public static final	COLLECTIONS_LABEL Value: **COLLECTIONS**
public static final	FORMATTER_LABEL Value: **FORMATTER**
public static final	FORMATTERS_LABEL Value: **FORMATTERS**
public static final	PARASITE_LABEL Value: **PARASITE**
public static final	SORTER_LABEL Value: **SORTER**
public static final	SORTERS_LABEL Value: **SORTERS**
public static final	TAXONOMY_BUILDER_LABEL Value: **TAXONOMY_BUILDER**

Constructor Summary

public	[ClassifierAdapter](#)()

Method Summary

Object	[clone](#)()
static com.inquira.util.Sett ing	[getCollectionSetting](#)() Returns a setting for selecting a collection.
static com.inquira.util.Sett ing	[getCollectionsSetting](#)() Returns a setting for selecting multiple collections.
static com.inquira.util.Sett ing	[getCollectionsSetting](#)(boolean multi) Returns a setting for selecting one or multiple collections.
static com.inquira.util.Sett ing	[getConfigSetting](#)(String id, Object defaultValue, String configKey, boolean advanced) Returns a setting based on a configuration item.
String	[getDescription](#)()
Facet	[getFacet](#)()
static com.inquira.util.Sett ing	[getFormatterSetting](#)() Returns a setting for choosing a facet formatter.
static com.inquira.util.Sett ing	[getFormattersSetting](#)() Returns a setting for choosing multiple facet formatters.
String	[getName](#)()
static com.inquira.util.Sett ing	[getParasiteSetting](#)() Returns a setting for choosing a parasitic classifier
static com.inquira.util.Sett ing	[getSorterSetting](#)() Returns a setting for choosing facet sorter.
static com.inquira.util.Sett ing	[getSortersSetting](#)() Returns a setting for choosing multiple facet sorters.
static com.inquira.util.Sett ing	[getTaxonomyBuilderSetting](#)() Returns a setting for choosing a taxonomy builder
void	[inEffect](#)()
boolean	[isAdvanced](#)()
boolean	[rangeBased](#)()
void	[setFacet](#)(Facet f)

String	toString()

Methods inherited from class com.inquira.navigate.classify.SettingsHelper

clone, equals, getBooleanSetting, getDoubleSetting, getIntegerSetting, getLabel, getListSetting, getSetSetting, getSetting, getSettings, getSettings, getSettingsCopy, getStringSetting, hashCode, hasSetting, removeSetting, removeSettings, setSetting, setSettings, settingIsSet

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface com.inquira.util.SettingUser

getSettings, setSetting, setSettings

Methods inherited from interface com.inquira.util.PublicCloneable

clone

Methods inherited from interface com.inquira.navigate.classify.Classifier

classify, clone, getClassifiedCollections, getDescription, getFacet, getName, inEffect, isAdHoc, isAdvanced, rangeBased, setFacet, toString

Methods inherited from interface com.inquira.util.SettingUser

getSettings, setSetting, setSettings

Fields

TAXONOMY_BUILDER_LABEL

public static final java.lang.String **TAXONOMY_BUILDER_LABEL**

Constant value: **TAXONOMY_BUILDER**

SORTERS_LABEL

public static final java.lang.String **SORTERS_LABEL**

Constant value: **SORTERS**

SORTER_LABEL

public static final java.lang.String **SORTER_LABEL**

Constant value: **SORTER**

FORMATTERS_LABEL

public static final java.lang.String **FORMATTERS_LABEL**

Constant value: **FORMATTERS**

FORMATTER_LABEL

public static final java.lang.String **FORMATTER_LABEL**

Constant value: **FORMATTER**

COLLECTIONS_LABEL

public static final java.lang.String **COLLECTIONS_LABEL**

Constant value: **COLLECTIONS**

COLLECTION_LABEL

public static final java.lang.String **COLLECTION_LABEL**

Constant value: **COLLECTION**

PARASITE_LABEL

public static final java.lang.String **PARASITE_LABEL**

Constant value: **PARASITE**

Constructors

ClassifierAdapter

public **ClassifierAdapter**()

Methods

getName

public String **getName**()

getDescription

public String **getDescription**()

setFacet

```
public void setFacet(Facet f)
```

getFacet

```
public Facet getFacet()
```

clone

```
public Object clone()
```

> Returns a deep copy of this object.

inEffect

```
public void inEffect()
  throws NavigationException
```

rangeBased

```
public boolean rangeBased()
```

isAdvanced

```
public boolean isAdvanced()
```

toString

```
public String toString()
```

getParasiteSetting

```
public static com.inquira.util.Setting getParasiteSetting()
  throws NavigationException
```

> Returns a setting for choosing a parasitic classifier

> **Returns:**
> > a Setting

> **Throws:**
> > NavigationException

getTaxonomyBuilderSetting

public static com.inquira.util.Setting **getTaxonomyBuilderSetting**()
  throws [NavigationException](#)

Returns a setting for choosing a taxonomy builder

Returns:
a Setting

Throws:
[NavigationException](#)

getSorterSetting

public static com.inquira.util.Setting **getSorterSetting**()
  throws [NavigationException](#)

Returns a setting for choosing facet sorter.

Returns:
a Setting

Throws:
[NavigationException](#)

getSortersSetting

public static com.inquira.util.Setting **getSortersSetting**()
  throws [NavigationException](#)

Returns a setting for choosing multiple facet sorters.

Returns:
a Setting

Throws:
[NavigationException](#)

getFormattersSetting

public static com.inquira.util.Setting **getFormattersSetting**()
  throws [NavigationException](#)

Returns a setting for choosing multiple facet formatters.

Returns:
a Setting

Throws:
[NavigationException](#)

getFormatterSetting

public static com.inquira.util.Setting **getFormatterSetting**()
  throws [NavigationException](#)

Returns a setting for choosing a facet formatter.

(continued from last page)

Returns:
a Setting

Throws:
NavigationException

getCollectionSetting

public static com.inquira.util.Setting **getCollectionSetting**()
  throws NavigationException

Returns a setting for selecting a collection.

Returns:
a Setting

Throws:
NavigationException

getCollectionsSetting

public static com.inquira.util.Setting **getCollectionsSetting**()
  throws NavigationException

Returns a setting for selecting multiple collections.

Returns:
a Setting

Throws:
NavigationException

getCollectionsSetting

public static com.inquira.util.Setting **getCollectionsSetting**(boolean multi)
  throws NavigationException

Returns a setting for selecting one or multiple collections.

Parameters:
multi - a boolean

Returns:
a Setting

Throws:
NavigationException

getConfigSetting

public static com.inquira.util.Setting **getConfigSetting**(String id,
        Object defaultValue,
        String configKey,
        boolean advanced)
  throws NavigationException

Returns a setting based on a configuration item.

Parameters:
id - a String

defaultValue - an `Object`
configKey - a `String`
advanced - a `boolean`

Returns:

a `Setting`

Throws:

`NavigationException`

com.inquira.navigate.classify
Class SettingsHelper

```
java.lang.Object
    |
    +-com.inquira.navigate.classify.SettingsHelper
```

All Implemented Interfaces:
> com.inquira.util.PublicCloneable, com.inquira.util.SettingUser

Direct Known Subclasses:
> StringTaxonomyBuilder, ClassifierAdapter

---

public abstract class **SettingsHelper**
extends Object
implements com.inquira.util.SettingUser, com.inquira.util.PublicCloneable

SettingsHelper provides an implementation of SettingUser which attempts to be easy to use and use as little memory as possible.

Constructor Summary

public	SettingsHelper()

Method Summary

Object	clone() Returns a deep copy of this object.
boolean	equals(Object o)
boolean	getBooleanSetting(String param) Selects a boolean from the parameters using the static default if it doesn't exist.
double	getDoubleSetting(String param) Selects a double from the parameters using the static default if it doesn't exist.
int	getIntegerSetting(String param) Selects an int from the parameters using the static default if it doesn't exist.
static String	getLabel(String key) Returns the localized label for this requested key from the properties file.
List	getListSetting(String param) Selects a list from the parameters using the static default if it doesn't exist.
Set	getSetSetting(String param) Selects a set from the parameters using the static default if it doesn't exist.
Object	getSetting(String id) Returns the value of a setting
com.inquira.util.Setting[]	getSettings() Returns all settings.

com.inquira.util.Sett ing[]	[getSettings](boolean convertIdDescriptions) Returns all settings.
com.inquira.util.Sett ing[]	[getSettingsCopy]() Returns a copy of the settings
String	[getStringSetting](String param) Selects a string from the parameters using the static default if it doesn't exist.
int	[hashCode]()
boolean	[hasSetting](String id) Returns true if the setting exists.
void	[removeSetting](String id) Removes a setting.
void	[removeSettings](Set ids) Removes requested settings.
void	[setSetting](String id, Object value) Sets the value ofa setting.
void	[setSettings](com.inquira.util.Setting[] settings) Sets the settings.
boolean	[settingIsSet](String id) Returns true if the setting has been set to a value.

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface `com.inquira.util.SettingUser`

`getSettings, setSetting, setSettings`

Methods inherited from interface `com.inquira.util.PublicCloneable`

`clone`

Constructors

SettingsHelper

`public` **`SettingsHelper`**`()`

Methods

hasSetting

`public boolean` **`hasSetting`**`(String id)`

Returns true if the setting exists.

Parameters:
    `id` - a `String`

Returns:
    a `boolean`

settingIsSet

```
public boolean settingIsSet(String id)
```

Returns true if the setting has been set to a value.

Parameters:
    `id` - a `String`

Returns:
    a `boolean`

getSettings

```
public com.inquira.util.Setting[] getSettings()
```

Returns all settings.

Returns:
    a `Setting[]`

getSettings

```
public com.inquira.util.Setting[] getSettings(boolean convertIdDescriptions)
```

Returns all settings.

Parameters:
    `convertIdDescriptions` - a `boolean` which, if true, causes certain special display based values to be converted to their real values.

Returns:
    a `Setting[]`

getSettingsCopy

```
public com.inquira.util.Setting[] getSettingsCopy()
```

Returns a copy of the settings

Returns:
    a `Setting[]`

getSetting

```
public Object getSetting(String id)
```

Returns the value of a setting

Parameters:
    `id` - a `String`

Returns:
>   an `Object`

setSettings

```
public void setSettings(com.inquira.util.Setting[] settings)
```

Sets the settings.

Parameters:
>   settings - a `Setting[]`

setSetting

```
public void setSetting(String id,
        Object value)
```

Sets the value ofa setting.

Parameters:
>   id - a `String`
>   value - an `Object`

removeSetting

```
public void removeSetting(String id)
```

Removes a setting.

Parameters:
>   id - a `String`

removeSettings

```
public void removeSettings(Set ids)
```

Removes requested settings.

Parameters:
>   ids - a `Set`

getLabel

```
public static String getLabel(String key)
```

Returns the localized label for this requested key from the properties file.

Parameters:
>   key - a `String`

Returns:
>   a `String`

clone

```
public Object clone()
```

Returns a deep copy of this object.

Returns:
    an `Object`

getBooleanSetting

`public boolean` **`getBooleanSetting`**`(String param)`

Selects a boolean from the parameters using the static default if it doesn't exist.

Parameters:
    param - a `String`

Returns:
    an `boolean`

getIntegerSetting

`public int` **`getIntegerSetting`**`(String param)`

Selects an int from the parameters using the static default if it doesn't exist.

Parameters:
    param - a `String`

Returns:
    an `int`

getDoubleSetting

`public double` **`getDoubleSetting`**`(String param)`

Selects a double from the parameters using the static default if it doesn't exist.

Parameters:
    param - a `String`

Returns:
    an `double`

getSetSetting

`public Set` **`getSetSetting`**`(String param)`

Selects a set from the parameters using the static default if it doesn't exist.

Parameters:
    param - a `String`

Returns:
    an `Object`

getListSetting

`public List` **`getListSetting`**`(String param)`

Selects a list from the parameters using the static default if it doesn't exist.

Parameters:

       `param` - a `String`

    Returns:
       an `Object`

getStringSetting

`public String `**`getStringSetting`**`(String param)`

  Selects a string from the parameters using the static default if it doesn't exist.

    Parameters:
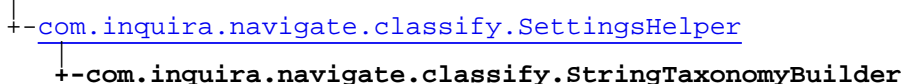   `param` - a `String`

    Returns:
       an `Object`

equals

`public boolean `**`equals`**`(Object o)`

hashCode

`public int `**`hashCode`**`()`

com.inquira.navigate.classify
Class StringTaxonomyBuilder

```
java.lang.Object
    |
    +-com.inquira.navigate.classify.SettingsHelper
          |
          +-com.inquira.navigate.classify.StringTaxonomyBuilder
```

All Implemented Interfaces:
> TaxonomyBuilder, com.inquira.util.PublicCloneable, com.inquira.util.SettingUser

---

public class **StringTaxonomyBuilder**
extends SettingsHelper
implements com.inquira.util.SettingUser, com.inquira.util.PublicCloneable, TaxonomyBuilder

`StringTaxonomyBuilder` is the most basic of taxonomy builders. It contructs the taxonomy solely out of the string values of the values it is provided-- no interpretation of the values is done. The works great for things like categories, names, etc. Other taxonomy builders can subclass this one for convenience. For example, the `DateTaxonomyBuilder` deconstructs dates into separate values which it then passes on to this.

Constructor Summary

public	StringTaxonomyBuilder()

Method Summary

void	createTaxonomy(gnu.trove.TIntArrayList ids, List[] values, Set types, Facet facet, List structuredColumns)
void	createTaxonomyFacets(Map map, Facet facet, Set types, List columns)
Map	getDefaultSettings()
static Map	getLocalDefaultSettings()
String	toString()

Methods inherited from class `com.inquira.navigate.classify.SettingsHelper`

clone, equals, getBooleanSetting, getDoubleSetting, getIntegerSetting, getLabel, getListSetting, getSetSetting, getSetting, getSettings, getSettings, getSettingsCopy, getStringSetting, hashCode, hasSetting, removeSetting, removeSettings, setSetting, setSettings, settingIsSet

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface `com.inquira.util.SettingUser`

getSettings, setSetting, setSettings

Methods inherited from interface `com.inquira.util.PublicCloneable`

`clone`

Methods inherited from interface <u>com.inquira.navigate.classify.TaxonomyBuilder</u>

<u>createTaxonomy</u>

Methods inherited from interface `com.inquira.util.PublicCloneable`

`clone`

Constructors

StringTaxonomyBuilder

public **StringTaxonomyBuilder**()

Methods

getLocalDefaultSettings

public static Map **getLocalDefaultSettings**()

getDefaultSettings

public Map **getDefaultSettings**()

     Returns a map from setting ids to settings. `createDefaultSettings` is a utility method which can be used to create this map.

createTaxonomy

```
public void createTaxonomy(gnu.trove.TIntArrayList ids,
        List[] values,
        Set types,
        Facet facet,
        List structuredColumns)
  throws NavigationException
```

createTaxonomyFacets

```
public void createTaxonomyFacets(Map map,
        Facet facet,
        Set types,
        List columns)
  throws NavigationException
```
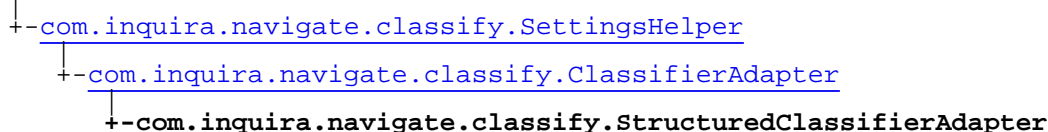
toString

```
public String toString()
```

toString

```
public String toString()
```

com.inquira.navigate.classify
Class StructuredClassifierAdapter

```
java.lang.Object
   │
   +-com.inquira.navigate.classify.SettingsHelper
       │
       +-com.inquira.navigate.classify.ClassifierAdapter
           │
           +-com.inquira.navigate.classify.StructuredClassifierAdapter
```

All Implemented Interfaces:
StructuredClassifier, com.inquira.util.PublicCloneable, com.inquira.util.SettingUser, Cloneable, Classifier

---

public abstract class **StructuredClassifierAdapter**
extends ClassifierAdapter
implements Classifier, Cloneable, com.inquira.util.SettingUser, com.inquira.util.PublicCloneable,
StructuredClassifier

StructuredClassifierAdapter partially implements a classifier for structured data.

Field Summary

public static final	TABLE_LABEL
	Value: **TABLE**

Fields inherited from class com.inquira.navigate.classify.ClassifierAdapter
COLLECTION_LABEL, COLLECTIONS_LABEL, FORMATTER_LABEL, FORMATTERS_LABEL, PARASITE_LABEL, SORTER_LABEL, SORTERS_LABEL, TAXONOMY_BUILDER_LABEL

Constructor Summary

public	StructuredClassifierAdapter()

Method Summary

Set	getClassifiedCollections()

Methods inherited from class com.inquira.navigate.classify.ClassifierAdapter
clone, getCollectionSetting, getCollectionsSetting, getCollectionsSetting, getConfigSetting, getDescription, getFacet, getFormatterSetting, getFormattersSetting, getName, getParasiteSetting, getSorterSetting, getSortersSetting, getTaxonomyBuilderSetting, inEffect, isAdvanced, rangeBased, setFacet, toString

Methods inherited from class com.inquira.navigate.classify.SettingsHelper
clone, equals, getBooleanSetting, getDoubleSetting, getIntegerSetting, getLabel, getListSetting, getSetSetting, getSetting, getSettings, getSettings, getSettingsCopy, getStringSetting, hashCode, hasSetting, removeSetting, removeSettings, setSetting, setSettings, settingIsSet

---

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface `com.inquira.util.SettingUser`

`getSettings, setSetting, setSettings`

Methods inherited from interface `com.inquira.util.PublicCloneable`

`clone`

Methods inherited from interface [com.inquira.navigate.classify.Classifier](#)

[classify](#), [clone](#), [getClassifiedCollections](#), [getDescription](#), [getFacet](#), [getName](#), [inEffect](#), [isAdHoc](#), [isAdvanced](#), [rangeBased](#), [setFacet](#), [toString](#)

Methods inherited from interface `com.inquira.util.SettingUser`

`getSettings, setSetting, setSettings`

Methods inherited from interface `com.inquira.navigate.classify.StructuredClassifier`

`getUsedFields`

Methods inherited from interface [com.inquira.navigate.classify.Classifier](#)

[classify](#), [clone](#), [getClassifiedCollections](#), [getDescription](#), [getFacet](#), [getName](#), [inEffect](#), [isAdHoc](#), [isAdvanced](#), [rangeBased](#), [setFacet](#), [toString](#)

Methods inherited from interface `com.inquira.util.SettingUser`

`getSettings, setSetting, setSettings`

Fields

TABLE_LABEL

`public static final java.lang.String `**`TABLE_LABEL`**

Constant value: **TABLE**

Constructors

StructuredClassifierAdapter

`public `**`StructuredClassifierAdapter`**`()`

Methods

getClassifiedCollections

```
public Set getClassifiedCollections()
```

getClassifiedCollections

```
public Set getClassifiedCollections()
```

com.inquira.navigate.classify
Interface TaxonomyBuilder

All Known Implementing Classes:
> StringTaxonomyBuilder

---

public interface **TaxonomyBuilder**
extends com.inquira.util.PublicCloneable

A `TaxonomyBuilder` creates a taxonomy out of data provided by, most likely, a classifier.

Method Summary

void	createTaxonomy(gnu.trove.TIntArrayList ids, List[] values, Set types, Facet facet, List structuredColumns) Creates a taxonomy below `facet` based on the ids and its corresponding values.

Methods inherited from interface `com.inquira.util.PublicCloneable`
clone

Methods

createTaxonomy

```
public void createTaxonomy(gnu.trove.TIntArrayList ids,
        List[] values,
        Set types,
        Facet facet,
        List structuredColumns)
  throws NavigationException
```

> Creates a taxonomy below `facet` based on the ids and its corresponding values. This is a destructive operation for the `facet` parameter.

> **Parameters:**
> > ids - a `TIntArrayList`
> > values - a `List[]` of values lists associated with the ids. They go from the most general to the most specific. A value may be null, and, if it is, all more specific values for that id are also null.
> > types - The types (collections) of entries being classified in this taxonomy.
> > facet - The `Facet` under which the taxonomy is to be created
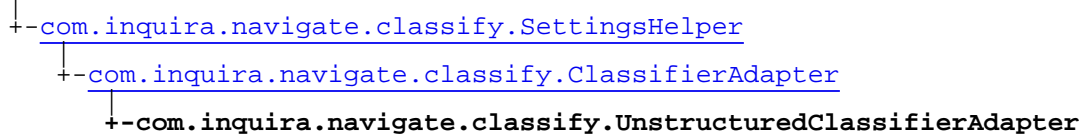> > structuredColumns - a `List` of structured columns that should be used when creating NoOpClassifiers.

> **Throws:**
> > NavigationException

---

com.inquira.navigate.classify
Class UnstructuredClassifierAdapter

```
java.lang.Object
    |
    +-com.inquira.navigate.classify.SettingsHelper
        |
        +-com.inquira.navigate.classify.ClassifierAdapter
            |
            +-com.inquira.navigate.classify.UnstructuredClassifierAdapter
```

All Implemented Interfaces:
com.inquira.util.PublicCloneable, com.inquira.util.SettingUser, Cloneable, Classifier

---

public abstract class **UnstructuredClassifierAdapter**
extends ClassifierAdapter

UnstructuredClassifierAdapter partially implements a classifier for unstructured data.

Nested Class Summary

class	UnstructuredClassifierAdapter.DocumentProcedure UnstructuredClassifierAdapter.DocumentProcedure

Fields inherited from class com.inquira.navigate.classify.ClassifierAdapter	

COLLECTION_LABEL, COLLECTIONS_LABEL, FORMATTER_LABEL, FORMATTERS_LABEL, PARASITE_LABEL, SORTER_LABEL, SORTERS_LABEL, TAXONOMY_BUILDER_LABEL

Constructor Summary

public	UnstructuredClassifierAdapter()

Method Summary

com.inquira.retrieve. index.MatchLite	executeIML(String iml) Excecutes the given iml on all collections.
com.inquira.retrieve. index.MatchLite	executeIML(String iml, List collections) Returns the results of an IML query
com.inquira.retrieve. index.MatchLite	executeIML(String iml, String collection) Executes the given iml on a single collection
static void	forEachDocument(UnstructuredClassifierAdapter.DocumentProcedure p, List collections) Iterates the DocumentProcedure over all documents in the given collections.
Set	getClassifiedCollections() A default implementation that returns all collections.
List	getConfiguredCollections(String type) Return the collections configured for this classifier restricted to the type if it is specified.

static com.inquira.util.StringSet	getSearchableCollections() find just the collections that are unstructured searchable.
boolean	isAdHoc()

Methods inherited from class com.inquira.navigate.classify.ClassifierAdapter

clone, getCollectionSetting, getCollectionsSetting, getCollectionsSetting, getConfigSetting, getDescription, getFacet, getFormatterSetting, getFormattersSetting, getName, getParasiteSetting, getSorterSetting, getSortersSetting, getTaxonomyBuilderSetting, inEffect, isAdvanced, rangeBased, setFacet, toString

Methods inherited from class com.inquira.navigate.classify.SettingsHelper

clone, equals, getBooleanSetting, getDoubleSetting, getIntegerSetting, getLabel, getListSetting, getSetSetting, getSetting, getSettings, getSettings, getSettingsCopy, getStringSetting, hashCode, hasSetting, removeSetting, removeSettings, setSetting, setSettings, settingIsSet

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface com.inquira.util.SettingUser

getSettings, setSetting, setSettings

Methods inherited from interface com.inquira.util.PublicCloneable

clone

Methods inherited from interface com.inquira.navigate.classify.Classifier

classify, clone, getClassifiedCollections, getDescription, getFacet, getName, inEffect, isAdHoc, isAdvanced, rangeBased, setFacet, toString

Methods inherited from interface com.inquira.util.SettingUser

getSettings, setSetting, setSettings

Constructors

UnstructuredClassifierAdapter

public **UnstructuredClassifierAdapter**()

Methods

isAdHoc

public boolean **isAdHoc**()

getClassifiedCollections

public Set **getClassifiedCollections**()

A default implementation that returns all collections. Implementing classes should override this to provide only those collections that they will truly classify if different.

Returns:
a Set

forEachDocument

public static void **forEachDocument**([UnstructuredClassifierAdapter.DocumentProcedure](#) p,
        List collections)
  throws [NavigationException](#)

Iterates the DocumentProcedure over all documents in the given collections.

Parameters:
p - a DocumentProcedure
collections - a List

Throws:
[NavigationException](#)

getSearchableCollections

public static com.inquira.util.StringSet **getSearchableCollections**()
  throws [InquiraException](#)

find just the collections that are unstructured searchable. This won't include navigation's collection as well as, probably, hybrid collections.

Returns:
a StringSet

getConfiguredCollections

public List **getConfiguredCollections**(String type)

Return the collections configured for this classifier restricted to the type if it is specified.

Parameters:
type - a String

Returns:
a List

executeIML

public com.inquira.retrieve.index.MatchLite **executeIML**(String iml,
        List collections)
  throws [InquiraException](#)

Returns the results of an IML query

Parameters:

   `iml` - a `String`

  Returns:
   a `MatchLite`

  Throws:
   [InquiraException]

executeIML

```
public com.inquira.retrieve.index.MatchLite executeIML(String iml,
        String collection)
  throws InquiraException
```

  Executes the given iml on a single collection

  Parameters:
   `iml` - a `String`
   `collection` - a `String`

  Returns:
   a `MatchLite`

  Throws:
   [InquiraException]

executeIML

```
public com.inquira.retrieve.index.MatchLite executeIML(String iml)
  throws InquiraException
```

  Exececutes the given iml on all collections.

  Parameters:
   `iml` - a `String`

  Returns:
   a `MatchLite`

  Throws:
   [InquiraException]

com.inquira.navigate.classify
Interface UnstructuredClassifierAdapter.DocumentProcedure

public interface **UnstructuredClassifierAdapter.DocumentProcedure**

`DocumentProcedure` can be used in conjunction with `forEachDocument` to iterate over documents in a group of collections.

Method Summary

void	[execute](int docID, com.inquira.retrieve.newIndex.ExtraDocData edd)

Methods

execute

```
public void execute(int docID,
        com.inquira.retrieve.newIndex.ExtraDocData edd)
  throws NavigationException
```

Package
com.inquira.preference

This package contains the implementation for the <u>preference service</u> implementation.

com.inquira.preference
Class AbstractProvider

```
java.lang.Object
    │
    +-com.inquira.preference.AbstractProvider
```

All Implemented Interfaces:
>   Serializable

---

public abstract class **AbstractProvider**
extends Object
implements Serializable

This abstract class defines functionality that is common to all preference providers. A preference provider can interface with InQuira internal data stores (session) or external 3rd party products, such as personalization engines, CRM packages and campaign management systems.

Constructor Summary

public	[AbstractProvider](#)() Default constructor so that the class can be loaded dynamically

Method Summary

[PreferenceValue](#)	[get](#)([Preference](#) p, String key, byte depth, byte traversalDepth) Attempts to retrieve the value that corresponds to the **key** argument within this provider.
abstract String	[getType](#)() Returns the provider type as a string.
abstract void	[rundown](#)() Called when changes to the preference values should be persisted to external data stores.
String	[toString](#)() Returns useful information about the provider, that is useful for debugging purposes.

Methods inherited from class java.lang.Object
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

---

Constructors

AbstractProvider

public **AbstractProvider**()

>   Default constructor so that the class can be loaded dynamically

Methods

---

getType

```
public abstract String getType()
```

Returns the provider type as a string.

Returns:
the provider type

get

```
public PreferenceValue get(Preference p,
        String key,
        byte depth,
        byte traversalDepth)
```

Attempts to retrieve the value that corresponds to the **key** argument within this provider. This function first tries to find a value with the full key; if it cannot resolve it, the function will try all subkeys. Subkeys are created by removing the first key element from the left.
Example: *color.car.ext -> color.car -> color*
It is possible to limit the name space traversal by specifing a traversal depth argument that is not equal 0. This value marks the minimum number of key elements that must be present in the subkey to be searched.
Example for **key** = *color.car.ext* (**depth** must be 3) and **traversalDepth** = 1 the only valid keys are *color.car.ext* and *color.car*.
The real work is done in `get(String)` which must be implemented by all subclasses.

Parameters:
`key` - the key name
`depth` - number of elements in the key name
`traversalDepth` - limit how far to traverse the key name space

Returns:
a `PreferenceValue` object with the appropriate values set, or null if no match was found.

See Also:
```
get( String )
```

toString

```
public String toString()
```

Returns useful information about the provider, that is useful for debugging purposes.

Returns:
info about the provider

rundown

```
public abstract void rundown()
```

Called when changes to the preference values should be persisted to external data stores.

com.inquira.preference
Class Preference

```
java.lang.Object
    │
    +-com.inquira.preference.Preference
```

All Implemented Interfaces:
        Cloneable, Serializable

public class **Preference**
extends Object
implements Serializable, Cloneable

Objects of this class define preference items that are used by the preference service.

Field Summary

public static final	BUSINESS_CONDITION_PURPOSE	
	Constant that defines the business condition purpose.	
	Value: **BusinessCondition**	
public static final	CONTENT_RESTRICTION_PURPOSE	
	Constant that defines the content restriction purpose.	
	Value: **ContentRestriction**	
public static final	NAMES_FIRST	
	Constant that defines the preference resolution mechanism in which the provider is asked to search the entire namespace (including partial names) before returning.	
	Value: **0**	
public static final	NO_CACHE	
	Constant that defines whether resolved preference should not be cached.	
	Value: **0**	
public static final	PROVIDERS_FIRST	
	Constant that defines the preference resolution mechanism for calling the providers with the same complete name first.	
	Value: **1**	
public static final	SESSION_CACHE	
	Constant that defines the session-level caching of the resolved preference.	
	Value: **1**	

Constructor Summary

public	Preference(String name, AbstractProvider[] providers)	
	Constructor that sets the name and providers members.	
public	Preference(String name, AbstractProvider[] providers, byte traversalType, byte cacheLevel, boolean modifiable)	
	Constructor that sets the names, providers, traversalType, cacheLevel, and modifiable members.	

public	Preference(String name, AbstractProvider[] providers, byte traversalType, byte cacheLevel)
	Constructor that sets the name, providers, traversalType, and cacheLevel members.

Method Summary

static byte	calculateDepth(String name)
	Calculates the elements in **name**, separated by '.'.
boolean	equals(Object comp)
	Compares the preference name to determine if the two objects are equal.
void	forceExactMatch(boolean flag)
	Determines whether this preference can only be returned as a direct match and not as a higher level grouping.
int	getCacheLevel()
	Returns the cache level that is defined for this prference.
String	getDataTypeClass()
	Returns the type name of the value for this preference.
byte	getDepth()
	Returns the number of elements in the name, separated by periods ('.').
String	getLabel()
	Returns the display label for this preference.
String	getName()
	Returns the name of this preference.
AbstractProvider[]	getProviders()
	Returns the list of providers that manage this preference.
String	getPurpose()
	Returns the purpose for this preference.
String	getReverseName()
	Returns the name of this preference with the name elements in reverse order.
int	getTraversalType()
	Returns the traversal type that is defined for this preference.
boolean	isDynamic()
	Returns flag is the preference was created dynamically and was not pre-configured.
boolean	isModifiable()
	Returns whether this preference can be modified through the language workbench.
boolean	requiresExactMatch()
	Returns whether this preference requires an exact match to be found.
void	setDataTypeClass(String dataTypeClass)
	Sets the type name of the value for this preference.
void	setLabel(String label)
	Sets the display label for this preference.

void	setPurpose(String purpose)	
	Set the purpose for this preference.	
String	toString()	
	Returns useful information about this preference object.	

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

NAMES_FIRST

`public static final byte` **`NAMES_FIRST`**

Constant that defines the preference resolution mechanism in which the provider is asked to search the entire namespace (including partial names) before returning. If no value is found, the next providered is called.
Constant value: **0**

PROVIDERS_FIRST

`public static final byte` **`PROVIDERS_FIRST`**

Constant that defines the preference resolution mechanism for calling the providers with the same complete name first. If no value is found, then the first sub key is used.
Constant value: **1**

SESSION_CACHE

`public static final byte` **`SESSION_CACHE`**

Constant that defines the session-level caching of the resolved preference.
Constant value: **1**

NO_CACHE

`public static final byte` **`NO_CACHE`**

Constant that defines whether resolved preference should not be cached.
Constant value: **0**

BUSINESS_CONDITION_PURPOSE

`public static final java.lang.String` **`BUSINESS_CONDITION_PURPOSE`**

Constant that defines the business condition purpose.
Note: Only preferences that have a purpose of BUSINESS_CONDITION_PURPOSE or CONTENT_RESTRICTION_PURPOSE are available to use in business conditions in the rules engine.
Constant value: **BusinessCondition**

CONTENT_RESTRICTION_PURPOSE

`public static final java.lang.String` **`CONTENT_RESTRICTION_PURPOSE`**

Constant that defines the content restriction purpose.
 Note: Only preferences that have a purpose of `BUSINESS_CONDITION_PURPOSE` or `CONTENT_RESTRICTION_PURPOSE`
are available to use in business conditions in the rules engine. Furthermore, preferences with purpose of
`BUSINESS_CONDITION_PURPOSE` are automatically used in setting up content restrictions in the content restriction plugin.
Constant value: **ContentRestriction**

Constructors

Preference

```
public Preference(String name,
                  AbstractProvider[] providers)
```

Constructor that sets the `name` and `providers` members.

Parameters:
　　　name - the preference name
　　　providers - the list of preference provider to use to resolve this preference

Preference

```
public Preference(String name,
                  AbstractProvider[] providers,
                  byte traversalType,
                  byte cacheLevel,
                  boolean modifiable)
```

Constructor that sets the `names`, `providers`, `traversalType`, `cacheLevel`, and `modifiable` members. Internally it
first calls `Preference(String, AbstractProvider[], byte, byte, boolean)`.

Parameters:
　　　name - the preference name
　　　providers - the list of preference provider names to use to resolve this preference
　　　traversalType - the traversal type to use for this preference
　　　cacheLevel - the cache level to use for thi preference

Preference

```
public Preference(String name,
                  AbstractProvider[] providers,
                  byte traversalType,
                  byte cacheLevel)
```

Constructor that sets the `name`, `providers`, `traversalType`, and `cacheLevel` members. Internally it first calls
`Preference(String, AbstractProvider[])`.

Parameters:
　　　name - the preference name
　　　providers - the list of preference provider names to use to resolve this preference
　　　traversalType - the traversal type to use for this preference
　　　cacheLevel - the cache level to use for thi preference

Methods

calculateDepth

```
public static byte calculateDepth(String name)
```

Calculates the elements in **name**, separated by '.'.

Parameters:

`name` - the name to inspect

Returns:
number of name elements

isModifiable

public boolean **isModifiable**()

Returns whether this preference can be modified through the language workbench.

getProviders

public [AbstractProvider[]](#) **getProviders**()

Returns the list of providers that manage this preference.

Returns:
the array of provides that manage this preference.

setLabel

public void **setLabel**(String label)

Sets the display label for this preference.

getLabel

public String **getLabel**()

Returns the display label for this preference.

Returns:
the display label.

forceExactMatch

public void **forceExactMatch**(boolean flag)

Determines whether this preference can only be returned as a direct match and not as a higher level grouping.

Parameters:
`flag` - If this argument is true, then this preference can only be used as a direct match.

requiresExactMatch

public boolean **requiresExactMatch**()

Returns whether this preference requires an exact match to be found.

Returns:
the state of the "requires exact match" property.

getTraversalType

public int **getTraversalType**()

Returns the traversal type that is defined for this preference.

1

Returns:
the traversal type.

getCacheLevel

public int **getCacheLevel**()

Returns the cache level that is defined for this prference.

Returns:
the cache level.

getName

public String **getName**()

Returns the name of this preference.

Returns:
the `name` of this preference

getReverseName

public String **getReverseName**()

Returns the `name` of this preference with the name elements in reverse order. This seems to be helpful for systems that traverse the name space from left-to-right rather than right-to-left as is the case for InQuira.

Returns:
the reversed preference name

toString

public String **toString**()

Returns useful information about this preference object.

Returns:
string represention of object info

getDepth

public byte **getDepth**()

Returns the number of elements in the name, separated by periods ('.').

Returns:
the number elements in `name`

isDynamic

public boolean **isDynamic**()

Returns flag is the preference was created dynamically and was not pre-configured.

(continued from last page)

equals

```
public boolean equals(Object comp)
```

Compares the preference name to determine if the two objects are equal.

Parameters:
comp - The object to compare to this preference obhect.

setPurpose

```
public void setPurpose(String purpose)
```

Set the purpose for this preference.

Parameters:
purpose - Thsi argument specifies the purpose of this repference.

getPurpose

```
public String getPurpose()
```

Returns the purpose for this preference.

Returns:
the purpose.

setDataTypeClass

```
public void setDataTypeClass(String dataTypeClass)
```

Sets the type name of the value for this preference.

Parameters:
dataTypeClass - The logical name for the data type class.
Note: Business rules use treats null and "string" as string values, and all other values are interpreted as numeric values.

See Also:
com.inquira.bizrules.Symbol

getDataTypeClass

```
public String getDataTypeClass()
```

Returns the type name of the value for this preference.

Returns:
the data type name.

com.inquira.preference
Interface PreferenceService

public interface **PreferenceService**

Defines the preference service. It provides means to resolve preferences by name and allows several ways to set and get preference values. Once of the most common uses of preferences and their values is their use in business conditions in the rules engine; depending of the value of a preference value (a.k.a. content variable) in a business condition the behavior of the engine can be changed.

Method Summary

Serializable	**getExternalCode**(String key) Returns the native form of the preference value as defined by the provider.
String	**getExternalString**(String key) Returns the string representation of the preference value as defined by the external system (provider).
Preference	**getPreference**(String key) Retrieves the preference definition for **key** from the configuration service.
Preference	**getPreferenceByLabel**(String label) Retrieves the preference definition with the label value of label.
Collection	**getPreferenceKeys**() Retrieves a list of all defined preference keys.
Collection	**getPreferences**() Retrieves a list of all defined preferences.
ArrayList	**getPreferencesByPurpose**(String purpose) Retrieves the preference definitions of all preferences that are defined for this purpose.
PreferenceValue	**getPreferenceValue**(Preference preference) Returns the PreferenceValue object that corresponds to this key.
PreferenceValue	**getPreferenceValue**(String key) Returns the PreferenceValue object that corresponds to this preference.
void	**rundown**() Called after every request completes from the Execution.rundown() method.
PreferenceValue	**setPreferenceValue**(Preference preference, String value) Sets the value for the preference with the given key and returns the updated PreferenceValue object.
PreferenceValue	**setPreferenceValue**(Preference preference, String value, Serializable code) Sets the value and code for the preference with the given preference and returns the updated PreferenceValue object.
PreferenceValue	**setPreferenceValue**(PreferenceValue value) Sets the value for the preference with the given key and returns the passed PreferenceValue object.

PreferenceValue	setPreferenceValue(String key, Serializable code)
	Sets the code for the preference to the *code* argument and the string value to *code.toString( )* with the given key and returns the updated PreferenceValue object.
PreferenceValue	setPreferenceValue(String key, String value)
	Sets the value for the preference with the given key and returns the updated PreferenceValue object.
PreferenceValue	setPreferenceValue(String key, String value, Serializable code)
	Sets the value and code for the preference with the given key and returns the updated PreferenceValue object.

Methods

getPreference

public Preference **getPreference**(String key)

Retrieves the preference definition for **key** from the configuration service. If the preference has not been defined, a dynamic preference object is created and returned.

Parameters:
key - the preference name

Returns:
corresponding Preference object
Note: Do not store the returned object for later use outside this request, since it is configuration-dependent.

getPreferenceByLabel

public Preference **getPreferenceByLabel**(String label)

Retrieves the preference definition with the label value of label. If no preference is defined with that label than null is returned.

getPreferencesByPurpose

public ArrayList **getPreferencesByPurpose**(String purpose)

Retrieves the preference definitions of all preferences that are defined for this purpose. If no preference are defined null might be returned.

getExternalString

public String **getExternalString**(String key)

Returns the string representation of the preference value as defined by the external system (provider).

Parameters:
key - preference name

Returns:
returns string value for specified preference

See Also:
getExternalCode(String)
getPreferenceValue(Preference)

getExternalCode

public Serializable **getExternalCode**(String key)

Returns the native form of the preference value as defined by the provider. This value can be null if external code has been establised.

Parameters:
key - preference name

Returns:
returns code value for specified preference

See Also:
getExternalString(String)
getPreferenceValue(Preference)

getPreferenceValue

public PreferenceValue **getPreferenceValue**(Preference preference)

Returns the PreferenceValue object that corresponds to this key.

Parameters:
preference - preference

Returns:
returns preference value

See Also:
getExternalString(String)
getExternalCode(String)

getPreferenceValue

public PreferenceValue **getPreferenceValue**(String key)

Returns the PreferenceValue object that corresponds to this preference.

Parameters:
key - preference name

Returns:
returns preference value

See Also:
getExternalString(String)
getExternalCode(String)

setPreferenceValue

public PreferenceValue **setPreferenceValue**(String key,
        String value)

Sets the value for the preference with the given key and returns the updated PreferenceValue object. If no preference with this key exists, a new preference using only the session preferences is created.

Parameters:

> key - preference name
> value - string value

Returns:
> the newly update PreferenceValue object

See Also:
> setPreferenceValue(Preference, String)
> setPreferenceValue(Preference, String, Serializable)
> setPreferenceValue(PreferenceValue)

setPreferenceValue

public PreferenceValue **setPreferenceValue**(String key,
        Serializable code)

Sets the code for the preference to the *code* argument and the string value to *code.toString( )* with the given key and returns the updated PreferenceValue object. If no preference with this key exists, a new preference using only the session preferences is created.

Parameters:
> key - preference name
> code - serializable value

Returns:
> the newly update PreferenceValue object

See Also:
> setPreferenceValue(Preference, String)
> setPreferenceValue(Preference, String, Serializable)
> setPreferenceValue(PreferenceValue)

setPreferenceValue

public PreferenceValue **setPreferenceValue**(Preference preference,
        String value)

Sets the value for the preference with the given key and returns the updated PreferenceValue object. If no preference with this key exists, a new preference using only the session preferences is created.

Parameters:
> preference - preference
> value - string value

Returns:
> the newly update PreferenceValue object

See Also:
> setPreferenceValue(String, String)
> setPreferenceValue(Preference, String, Serializable)
> setPreferenceValue(PreferenceValue)

setPreferenceValue

public PreferenceValue **setPreferenceValue**(Preference preference,
        String value,
        Serializable code)

Sets the value and code for the preference with the given preference and returns the updated PreferenceValue object. If no preference with this key exists, a new preference using only the session preferences is created.

Parameters:
>   preference - preference
>   value - string value
>   code - code value

Returns:
> the newly update PreferenceValue object

See Also:
> setPreferenceValue(String, String)
> setPreferenceValue(Preference, String)
> setPreferenceValue(PreferenceValue)

setPreferenceValue

```
public PreferenceValue setPreferenceValue(String key,
        String value,
        Serializable code)
```

Sets the value and code for the preference with the given key and returns the updated PreferenceValue object. If no preference with this key exists, a new preference using only the session preferences is created.

Parameters:
>   key - preference name
>   value - string value
>   code - code value

Returns:
> the newly update PreferenceValue object

See Also:
> setPreferenceValue(String, String)
> setPreferenceValue(Preference, String)
> setPreferenceValue(PreferenceValue)

setPreferenceValue

```
public PreferenceValue setPreferenceValue(PreferenceValue value)
```

Sets the value for the preference with the given key and returns the passed PreferenceValue object. If no preference with this key exists, a new preference using only the session preferences is created.

Parameters:
>   value - preference value

Returns:
> the newly update PreferenceValue object

See Also:
> setPreferenceValue(String, String)
> setPreferenceValue(Preference, String)
> setPreferenceValue(Preference, String, Serializable)

rundown

```
public void rundown()
  throws TransportException
```

Called after every request completes from the `Execution.rundown()` method.

getPreferences

public Collection **getPreferences**()

> Retrieves a list of all defined preferences. The returned list contains `Preference` objects.

getPreferenceKeys

public Collection **getPreferenceKeys**()

> Retrieves a list of all defined preference keys. The returned list contains `java.lang.String` objects.

com.inquira.preference
Class PreferenceValue

```
java.lang.Object
   │
   +-com.inquira.preference.PreferenceValue
```

All Implemented Interfaces:
      Cloneable, Externalizable

---

public class **PreferenceValue**
extends Object
implements Externalizable, Cloneable

Represents the value of a Preference. It contains information about the provider that was last used to access the value of this preference, as well as various "value" fields.

Constructor Summary

public	**PreferenceValue**(Preference preference, String value) Constructor that sets the `preference` and `value` fields.
public	**PreferenceValue**(Preference preference, String value, Serializable code) Constructor that sets the `preference`, `value`, and `code` fields.
public	**PreferenceValue**() Constructor that should only be called by the Externalizable framework.

Method Summary

Object	**clone**() Clones this PreferenceValue object.
Serializable	**getCode**() Returns the code value of this preference value.
Preference	**getPreference**() Returns the Preference object for this preference.
String	**getPreferenceName**() Returns the preference name that this PreferenceValue is defined for.
AbstractProvider	**getProvider**() Returns the preference provider that last updated this value
Preference	**getRealPreference**() Returns the name of the preference that was used to resolve this preference value.
String	**getRealPreferenceName**() Returns the preference name that was last used to access this PreferenceValue.
String	**getString**() Returns the string value of this preference value.

---

boolean	isExactMatch()	
	Determines whether this preference value was found through a direct match or whether a the value for a less specific preference was returned.	
static PreferenceValue	readDirectExternal(ObjectInput in)	
	This method is part of the custom serialization framework to reduce overhead.	
void	readExternal(ObjectInput in)	
	This method is part of the Externalizable interface required by Java.	
String	toString()	
	Returns useful information about this PreferenceValue object.	
void	writeDirectExternal(ObjectOutput out)	
	This method is part of the custom serialization framework to reduce overhead.	
void	writeExternal(ObjectOutput out)	
	This method is part of the Externalizable interface required by Java.	

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface `java.io.Externalizable`

readExternal, writeExternal

Constructors

PreferenceValue

public **PreferenceValue**(Preference preference,
                          String value)

Constructor that sets the `preference` and `value` fields.

Parameters:
    preference - the preference this PreferenceValue object represents
    value - the string value for this Preference

PreferenceValue

public **PreferenceValue**(Preference preference,
                          String value,
                          Serializable code)

Constructor that sets the `preference`, `value`, and `code` fields.

Parameters:
    preference - the preference this PreferenceValue object represents
    value - the string value for this Preference
    code - the code value for this Preference

PreferenceValue

public **PreferenceValue**()

Constructor that should only be called by the Externalizable framework.

Methods

getPreference

public [Preference](#) **getPreference**()

Returns the [Preference](#) object for this preference.

Returns:
[Preference](#) object
Note: Do not store the returned object for later use outside this request, since it is configuration-dependent.

See Also:
[getPreferenceName()](#)
[getRealPreference()](#)

getPreferenceName

public String **getPreferenceName**()

Returns the preference name that this PreferenceValue is defined for.

Returns:
preference name

See Also:
[getPreference()](#)
[getRealPreferenceName()](#)

getRealPreferenceName

public String **getRealPreferenceName**()

Returns the preference name that was last used to access this PreferenceValue.

Returns:
preference name

See Also:
[getPreferenceName()](#)
[getRealPreference()](#)

getRealPreference

public [Preference](#) **getRealPreference**()

Returns the name of the preference that was used to resolve this preference value. The call to [getPreferenceName()](#) and this method will return different results if the preference used to get the value is not the same as the preference that established the value, due to the name space processing that occurs in the preference service.
 Example:
 Consider that the following call is made to establish the value for "abc.def" Execution.context( ).preferences.setPreference("abc.def", "value");
 The call to Execution.context( ).preferences().getPreferenceValue("abc").getRealPreferenceName( ); will return "abc.def", since this was the preference that established the value.

Returns:
preference name that established value

(continued from last page)

See Also:
getRealPreferenceName()
getPreference()

getString

public String **getString**()

Returns the string value of this preference value.

Returns:
string value

getCode

public Serializable **getCode**()

Returns the code value of this preference value.

Returns:
code value

toString

public String **toString**()

Returns useful information about this PreferenceValue object.

Returns:
useful object info in string format

getProvider

public AbstractProvider **getProvider**()

Returns the preference provider that last updated this value

See Also:

Note: Do not store the returned object for later use outside this request, since it is configuration-dependent.

clone

public Object **clone**()
throws CloneNotSupportedException

Clones this PreferenceValue object.

Returns:
the clone object.

isExactMatch

public boolean **isExactMatch**()

Determines whether this preference value was found through a direct match or whether a the value for a less specific preference was returned.

Returns:

if the value is from an exact match.

writeDirectExternal

```
public void writeDirectExternal(ObjectOutput out)
  throws IOException
```

This method is part of the custom serialization framework to reduce overhead.

writeExternal

```
public void writeExternal(ObjectOutput out)
  throws IOException
```

This method is part of the Externalizable interface required by Java.

readDirectExternal

```
public static PreferenceValue readDirectExternal(ObjectInput in)
  throws IOException,
        ClassNotFoundException
```

This method is part of the custom serialization framework to reduce overhead.

readExternal

```
public void readExternal(ObjectInput in)
  throws IOException,
        ClassNotFoundException
```

This method is part of the Externalizable interface required by Java.

Package
com.inquira.prep

com.inquira.prep
Interface PreprocessingFilter

All Known Implementing Classes:
> PreprocessingFilterAdapter

---

public interface **PreprocessingFilter**

Defines methods to customize document convertion (preprocessing).

Method Summary

String	postprocessDocument(Document document, CollectionConfig collection, com.inquira.util.xml.Node iqxmlNode) Allows modifying the IQXML node after the last preprocessing converter has been called.
void	preprocessDocument(Document document, CollectionConfig collection) Allows modifying the raw content for input to the first preprocessing converter.

Methods

preprocessDocument

```
public void preprocessDocument(Document document,
        CollectionConfig collection)
  throws PreprocessingException
```

> Allows modifying the raw content for input to the first preprocessing converter.
> **Note:** This method is called for all document types, this means that this method is called event for binary content types such as PDF, etc. It is the duty of this method to deal with the data properly depending on the document type. The document object defines the method Document.getRawContentReader() to obtain a Reader for text basedc content types, for binary content type use Document.getInputStream(DataComponent) passing in DataComponent.RAW.
>
> **Parameters:**
> > document - the document to preprocess
> > collection - the collection configuration this document belongs to

---

postprocessDocument

```
public String postprocessDocument(Document document,
        CollectionConfig collection,
        com.inquira.util.xml.Node iqxmlNode)
  throws PreprocessingException
```

> Allows modifying the IQXML node after the last preprocessing converter has been called.
>
> **Parameters:**
> > document - the document to preprocess
> > collection - the collection configuration this document belongs to
> > iqxmlName - the IQXML node as returned by the last preprocessing converter
>
> **Returns:**
> > the string representation of the IQXML, or null if no changes have been made.

---

com.inquira.prep
Class PreprocessingFilterAdapter

```
java.lang.Object
  │
  +-com.inquira.prep.PreprocessingFilterAdapter
```

All Implemented Interfaces:
> PreprocessingFilter

---

public class **PreprocessingFilterAdapter**
extends Object
implements PreprocessingFilter

Adpater class for `PreprocessingFilter`.

Method Summary

static StringBuffer	getStringContent(Document document) Utility method to retrieve the raw content as a String.
String	postprocessDocument(Document document, CollectionConfig collection, com.inquira.util.xml.Node iqxmlNode)
void	preprocessDocument(Document document, CollectionConfig collection)

Methods inherited from class `java.lang.Object`

`equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Methods inherited from interface `com.inquira.prep.PreprocessingFilter`

`postprocessDocument, preprocessDocument`

Methods

preprocessDocument

```
public void preprocessDocument(Document document,
        CollectionConfig collection)
  throws PreprocessingException
```

postprocessDocument

```
public String postprocessDocument(Document document,
        CollectionConfig collection,
        com.inquira.util.xml.Node iqxmlNode)
  throws PreprocessingException
```

---

getStringContent

```
public static StringBuffer getStringContent(Document document)
  throws PreprocessingException
```

Utility method to retrieve the raw content as a String.

```
public static StringBuffer getStringContent(Document document)
```

Package
com.inquira.request

This package contains classes used during request handling.

com.inquira.request
Interface Handler

All Subinterfaces:
   NamedHandler

---

public interface **Handler**

This interface must be implemented by all handlers that can be called by the `request processor`.
 Note:</> It is recommended that all handlers implement `NamedHandler` and this interface has not changed purely for backward compatibility.

Method Summary

RequestContext	handle(RequestContext rc) Performs desired operation and modifies the `request context` to communicate the results to the next processing step.

Methods

handle

public RequestContext **handle**(RequestContext rc)
  throws HandlerException

   Performs desired operation and modifies the `request context` to communicate the results to the next processing step.

---

com.inquira.request
Class HandlerException

```
java.lang.Object
    │
    +-java.lang.Throwable
        │
        +-java.lang.Exception
            │
            +-com.inquira.infra.InquiraException
                │
                +-com.inquira.request.HandlerException
```

All Implemented Interfaces:
Serializable, com.inquira.log.Loggable

---

public class **HandlerException**
extends InquiraException

This exception and its subclasses are used by handlers to communicate failures to the request processor.
 This exception allows the handlers to specify a response to be sent to the user agent when the execution for the current request cannot continue. This is helpful for error conditions, such as session timeout, and to enforce authentication.

Fields inherited from class com.inquira.infra.InquiraException
APPLICATION_FATAL, TRANSACTION_PERMANENT, TRANSACTION_RETRY, UNKNOWN

Constructor Summary

public	HandlerException(String id) Creates a new exception with the message id being set.
public	HandlerException(String id, Throwable t) Creates a new exception with the message id and cause being set.
public	HandlerException(String id, Object[] args) Creates a new exception with the message id and arguments being set.
public	HandlerException(String id, Object[] args, Throwable t) Creates a new exception with the message id, arguments and cause being set.
public	HandlerException(String id, Response response) Creates a new exception with the message id, arguments, cause and response being set.
public	HandlerException(String id, Object[] args, Throwable t, Response response) Creates a new exception with the message id, arguments, cause and response being set.
public	HandlerException(Throwable t) Creates a new exception with the cause being set.

Method Summary

Response	getResponse() Returns the resonse that is to be sent to the user agent for display to the user.

Methods inherited from class com.inquira.infra.InquiraException

---

getArguments, getDisposition, getEventInstance, getFirstAndLastMessage, getFirstAndLastMessage, getFirstAndLastStackTrace, getFirstAndLastStackTrace, getFullMessage, getFullMessage, getFullStackTrace, getFullStackTrace, getID, getLogStackTrace, getLogStackTrace, getPortableCause, instanceOf, instanceOf, printLogString, printLogString, setArguments, setDisposition, toFirstAndLastString, toFirstAndLastString, toFullString, toFullString

Methods inherited from class `java.lang.Throwable`

```
fillInStackTrace, getCause, getLocalizedMessage, getMessage, getStackTrace,
initCause, printStackTrace, printStackTrace, printStackTrace, setStackTrace, toString
```

Methods inherited from class `java.lang.Object`

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Methods inherited from interface `com.inquira.log.Loggable`

```
printLogString
```

Constructors

HandlerException

public **HandlerException**(String id)

Creates a new exception with the message id being set.

HandlerException

public **HandlerException**(String id,
                          Throwable t)

Creates a new exception with the message id and cause being set.

HandlerException

public **HandlerException**(String id,
                          Object[] args)

Creates a new exception with the message id and arguments being set.

HandlerException

public **HandlerException**(String id,
                          Object[] args,
                          Throwable t)

Creates a new exception with the message id, arguments and cause being set.

HandlerException

public **HandlerException**(String id,
                          Response response)

Creates a new exception with the message id, arguments, cause and response being set.

HandlerException

```
public HandlerException(String id,
                        Object[] args,
                        Throwable t,
                        Response response)
```

Creates a new exception with the message id, arguments, cause and response being set.

HandlerException

```
public HandlerException(Throwable t)
```

Creates a new exception with the cause being set.

Methods

getResponse

```
public Response getResponse()
```

Returns the resonse that is to be sent to the user agent for display to the user.

com.inquira.request
Interface NamedHandler

All Superinterfaces:
> Handler

---

public interface **NamedHandler**
extends Handler

All product handlers should implement this interface rather than `Handler` so that we can use a nicer name in the logs.

Method Summary

String	`getHandlerName`() Returns the name of this handler.

Methods inherited from interface `com.inquira.request.Handler`
`handle`

Methods

getHandlerName

`public String` **`getHandlerName`**`()`

> Returns the name of this handler.

---

com.inquira.request
Class RequestContext

```
java.lang.Object
    |
    +-com.inquira.request.RequestContext
```

All Implemented Interfaces:
>   INameConstants

---

public class **RequestContext**
extends Object
implements INameConstants

This class accumulates all information about a request while it is being processed by the handlers in the request processor.

Field Summary

public static final	DISTRIBUTED_QUERY_INPUT
	    Entry name to store the input for a distributed query request.
	    Value: **distributedQueryInput**

public static final	DISTRIBUTED_QUERY_RESULT
	    Entry name to store the result for a distributed query request.
	    Value: **distributedQueryOutput**

public static final	FIND_DETAIL_OBJECTS Value: **DetailObjects**
public static final	FIND_EXCERPT_SENTENCE_COUNT Value: **ExcerptSentenceCount**
public static final	FIND_IML Value: **FindIML**
public static final	FIND_LOWER_TIME Value: **LowerTime**
public static final	FIND_OUTPUT_FORMAT Value: **OutputFormat**
public static final	FIND_PAGE_SIZE Value: **PageSize**
public static final	FIND_PAGE_START Value: **PageStart**
public static final	FIND_SORT_DIRECTION Value: **SortDirection**

public static final	**FIND_SORT_OBJECT** Value: **SortObject**	
public static final	**FIND_UPPER_TIME** Value: **UpperTime**	
public static final	**IM_RESTRICT_CATEGORY** Parameter name to trigger content restriction by IM categories. Value: **IM.Restrict.Category**	
public static final	**IM_RESTRICT_CHANNEL** Parameter name to trigger content restriction by IM channels. Value: **IM.Restrict.Channel**	
public static final	**IM_RESTRICT_CONTENT** Parameter name to trigger content restriction to IM content only. Value: **IM.DocumentsOnly**	
public static final	**IM_RESTRICT_CONTENT_ALL** Value for paramete **IM_RESTRICT_TYPE** to restrict to all IM content. Value: **IM**	
public static final	**IM_RESTRICT_CONTENT_CHANNEL** Value for paramete **IM_RESTRICT_TYPE** to restrict to content in IM channels. Value: **IM_CHANNEL**	
public static final	**IM_RESTRICT_CONTENT_DISCUSSION** Value for paramete **IM_RESTRICT_TYPE** to restrict to content in IM discussion boards. Value: **IM_DISCUSSION**	
public static final	**IM_RESTRICT_DISCUSSION** Parameter name to trigger content restriction by IM discussion board/forum. Value: **IM.Restrict.Discussion**	
public static final	**IM_RESTRICT_EDITOR_GROUP** Parameter name to trigger content restriction by IM editor groups. Value: **IM.Restrict.EditorGroup**	
public static final	**IM_RESTRICT_STATUS** Parameter name to trigger content restriction by IM publishing status. Value: **IM.Restrict.Status**	
public static final	**IM_RESTRICT_TYPE** Parameter name to trigger content restriction by IM content type. Value: **IM.Restrict.Type**	
public static final	**IM_RESTRICT_USER_GROUP** Parameter name to trigger content restriction by IM user groups. Value: **IM.Restrict.UserGroup**	
public static final	**IM_RESTRICT_VIEW** Parameter name to trigger content restriction by IM views. Value: **IM.Restrict.View**	

public static final	LIST_DOCUMENT_IDS	
	Value: **DocumentIds**	
public static final	LIST_EXT_IDS	
	Value: **ExtIds**	
public static final	LIST_GUIDS	
	Value: **GUIDs**	
public static final	QUESTION	
	Value: **Question**	
public static final	RESET_QUESTION_TYPE	
	Value: **<Default>**	

Fields inherited from interface `com.inquira.request.INameConstants`

AAS_FIELD, AAS_FIELD_VALUE, ACTION_CODE, ADDRESS, ANSWER_ID, ANSWER_NOT_FOUND,
ANSWER_RELATED_IDS, ANSWER_START, APPLICATION, BASE_URL, BINARY_CONTENT_NOT_SUPPORTED,
CCA_ANSWER_SOLUTIONS_LIST, CCA_CASE_DESC, CCA_CONNECTED, CCA_CONTENT_ID, CCA_EXT_SOL_LIST,
CCA_SR_KEY, CCA_SYSTEM, CCA_TYPES, CHARACTER_ENCODING, CHARSET, CHOICES, CONSTANT, CONSTRAINT,
CONSTRAINT_DOMAIN_GROUP, CONSTRAINT_LANGUAGE, CONSTRAINT_RESULT_LANGUAGE,
CONSTRAINT_SEGMENT, CONSTRAINT_SUBJECT, CONTENT_TYPE, COOKIE, COOKIES, DOMAIN, EDIT, ENTRY,
ERROR, ERROR_MESSAGE, EXT_SESSION_ID, FACET, FACET_COLLECTION_ID,
FACET_PRIOR_TRANSACTION_ID, FACET_RESET, FACET_SHOW_ALL, FIELD, FIELD_PREFIX, GIML_CONFIG,
GIML_FACET, GIML_FACETS, HOST, HTTP_PASS_THROUGH, IM_INTERNAL_ERROR, INFO, INFO_MESSAGE,
INFO_NO_LONGER_AVAILABLE, INSTANCE_ID, KEY, LABEL, LANGUAGE, LOCATING_APPLICATION,
LOCATING_SYNCH_POINT, LOGIN_SPEC, LOGIN_VALUES, MAX_SIMILAR_RESULTS, MESSAGE, MESSAGE_CODE,
NAME, NEW_PAGE_SIZE, OPTION, OPTIONAL, PAGE_NUMBER, PAGE_SIZE, PAGE_WARP, PAGING_ALL,
PAGING_DIRECTION, PAGING_NEXT, PAGING_PREVIOUS, PATH, PRINCIPAL, PRIOR_TRANSACTION_ID,
PROCESSOR_VERSION, PURPOSE_NAVIGATION, QUERY, QUESTION_NO_LONGER_AVAILABLE, REDIRECT,
REQUEST, REQUEST_SOURCE, RESPONSE, RESPONSES, RESTART_TYPE, SCREEN, SEARCH_WITHIN,
SEARCH_WITHIN_DOC_URL, SEARCH_WITHIN_ENCODING, SECURE, SECURE_FIELD_PREFIX, SELECTED,
SERVER_BUSY, SERVER_ERROR, SERVER_INITIALIZING, SERVER_MAINTENANCE, SERVER_SHUTDOWN,
SERVER_TIMEOUT, SERVER_UNAVAILABLE, SESSION, SESSION_EXPIRATION, SESSION_HAS_EXPIRED,
SIEBEL_CONNECTION_ERROR, SIEBEL_INTERNAL_ERROR, STACK_TRACE, SYNCH_POINT, TRACKED_URL,
TRANSACTION_ID, TRANSPORT, TYPE, USER, USER_AGENT_ATTRIBUTE_PREFIX,
USER_AGENT_HEADER_PREFIX, USER_AGENT_PARAMETER_PREFIX, USER_FEEDBACK, USER_RATING, VALUE,
VALUES, VERSION, WIZARD_ID

Fields inherited from interface `com.inquira.util.xml.INameConstants`

BINARY, TRUE

Constructor Summary

public	RequestContext(Request request)
	Creates a new RequestContext for the given `request`.

Method Summary

void	addCookie(CookieWrapper cookie)
	Instructs the user agent to add a cookie specified by `cookie`.

void	**addDeferredAction**(Action action) Add a new deferred action.
void	**addFollowupSentenceInformation**(com.inquira.analysis.followup.FollowupSentenceInformation sentence) Establishes the information so that we can do follow up type logic on the next request.
void	**addResponse**(Object responseObject) Adds a new response object.
void	**addResponseNode**(com.inquira.util.xml.Node node) Adds the given `node` so that it will included in the `response` generated from this ReuqestContext.
void	**addSearchResults**(Collection newresults) Adds the search results to the internal data structures.
HashMap	**assurePurposeAttributes**(String purpose) Ensures that there is a place to store the purpose attributes.
List	**assureResponseNodes**() Ensures that a response node in place.
boolean	**contains**(String key) Checks if the give key is known.
Object	**get**(String key) Gets the value associated with the given key.
int	**getActionCode**() Returns the action code for this request by calling getActionCode.
List	**getActions**() Returns the list of `actions` for an answer question request.
Collection	**getAllResponses**() Returns all response objects.
int	**getAnswerId**() Returns the answer id for this request by calling getAnswerId.
int[]	**getAnswerRelatedIds**() Returns the answer id for this request by calling getAnswerId.
int	**getAnswerTransactionId**() Returns the transaction id to use for building answer action urls.
String	**getBaseURL**() Gets the base URL, used to build fully qualified URLs in the backend.
boolean	**getBoolean**(String key) Returns the boolean representation of a value.
List	**getDeferredActions**() Gets the list of deferred actions.
com.inquira.util.xml. BinaryNode	**getDistributedQueryInput**() Returns the data needed by a query worker to process a distributed search request.

String	`getDocumentIds()`
String	`getDomainList()` Returns the domainlist ("domaingroup") for an answer question request.
String	`getDomainListForLoadRules()`
String	`getExtIds()`
String	`getFacet()` Returns the facet for which a navigation operation has been issued.
int	`getFacetPriorTransactionId()` Returns the prior transcation id for navigation requests by calling `getFacetPriorTransactionId( )`.
boolean	`getFacetReset()` Returns whether the facets restrictions have been reset.
boolean	`getFacetShowAll()` Returns whether all facets should be shown in the UI.
String	`getFacetsID()` Returns the collection id for which a navigation operation has been issued.
String	`getFindDetailObjects()`
int	`getFindExcerptSentenceCount(int defaultExcerptSentenceCount)`
String	`getFindIML()`
String	`getFindLowerTimeLimit()`
String	`getFindOutputFormat()`
int	`getFindPageSize(int defaultPageSize)`
int	`getFindPageStart()`
String	`getFindSortDirection()`
String	`getFindSortObject()`
String	`getFindUpperTimeLimit()`
com.inquira.analysis. followup.FollowupSent enceInformation	`getFollowupSentenceInformation()` Gets the follow up information.
String	`getGUIDs()`
String	`getIMRestrictCategory()` Returns content restriction by IM category, as a comma separates list of category reference keys.

String	**getIMRestrictChannel**()	
	Returns content restriction by IM channels, as a comma separates list of channel reference keys.	
String	**getIMRestrictDiscussion**()	
	Returns content restriction by IM discusssion boards/forums, as a comma separates list of discusssion board/forum reference keys.	
String	**getIMRestrictEditorGroup**()	
	Returns content restriction by IM editor groups, as a comma separates list of editor group reference keys.	
String	**getIMRestrictStatus**()	
	Returns content restriction by IM publishing status.	
Set	**getIMRestrictTypes**()	
	Returns set of im content types to restrict to.	
String	**getIMRestrictUserGroup**()	
	Returns content restriction by IM user groups, as a comma separates list of user group reference keys.	
String	**getIMRestrictView**()	
	Returns content restriction by IM views, as a comma separates list of view reference keys.	
com.inquira.util.i18n.Language	**getLanguage**()	
	Returns the language for the system as specified in the UI.	
QuestionEntry	**getLastestQuestionEntry**()	
	Returns the `question entry` for the latest question.	
com.inquira.util.xml.Node	**getLoginValues**()	
	Returns the authentication values provided by the user.	
int	**getMaxSimilarResults**()	
	Returns the maximum similar results for this request by calling `getMaxSimilarResults`.	
NavigationHistory	**getNavigationHistory**()	
	Retrieves an existing `com.inquira.navigate.impl.NavigationHistory` or creates a new one if it does not exist.	
String	**getNextRequestParameter**()	
	Returns the name of the next request to be executed after succeful authentication.	
Object	**getObject**(String key)	
	Returns the object represented by the child node named `key`.	
String	**getOriginalQuestion**()	
	Returns the question the user has entered for an answer question request.	
String	**getPagingDirection**()	
	Returns how to page (forwards, or backwards).	
String	**getParam**(String key)	
	Similar to **get(String)**, except that it only checks the underlying `request` and not the internally cached values.	
com.inquira.util.xml.Node	**getParameters**()	
	Returns the values node from the underlying request by calling `values( )`.	

Properties	**getParameters**(Pattern pattern) Returns all request parameters that match the passed in `pattern`.
int	**getPriorTransactionId**() Returns the transaction id for the prior request that generated answers by calling `getPriorTransactionId`.
HashMap	**getPurposeAttributes**() Returns all purpose attributes.
HashMap	**getPurposeAttributes**(String purpose) Returns the attributes for a given `purpose`.
String	**getPurposeNavigation**() Returns the purpose for which a navigation operation has been issued.
String	**getQuestion**() Returns the question in case of an answer question request.
QuestionHistory	**getQuestionHistory**() Retrieves an existing `QuestionHistory` or creates a new one if it does not exist.
String	**getQuestionType**() Returns the question type for an answer question request.
String	**getRawQuestionType**() Returns the value for the question type that was sent in the request.
com.inquira.retrieve. index.RelativeWeights	**getRelativeWeights**() Returns the `com.inquira.retrieve.index.RelativeWeights` for an answer question request.
Request	**getRequest**() Returns the underlying `request` object.
Properties	**getRequestArguments**() Returns all user agent parameters, including individual parameters, all request headers, all request parameters, and all request attributes.
String	**getRequestSource**() Returns the source that created the request.
Boolean	**getResponseContact**() Returns the response the user selected for contact deflection.
List	**getResponseNodes**() Retrieves a list of all reponse `nodes` that have been added before.
ResponseObject	**getResponseObject**(String name) Returns a response object identified by `name`.
Integer	**getRestartCount**() Returns the number of time the answer question process was restarted due to changes made during processing.
Collection	**getRestrictedAttributes**() Returns the `Collection` of restricted attribute used in unstructured search
Collection	**getRestrictedCollections**() Returns the `Collection` of restricted collections used in unstructured search

String	**getRestrictedFacets**()	
	Returns the restricted facets used in unstructured search	
com.inquira.retrieve. index.ScopeWeights	**getScopeWeights**()	
	Sets the `com.inquira.retrieve.index.RelativeWeights` for an answer question request.	
List	**getSearchResults**()	
	Returns the search result for an answer question request.	
int	**getSearchWithinDocument**()	
	Returns the document id to be used for the search within document functionality.	
com.inquira.nlp.Sente nce	**getSentence**()	
	Returns the `com.inquira.nlp.Sentence` object for an answer question request.	
Session	**getSession**()	
	Retrieves the session that is associated with this request.	
String	**getTrackedURL**()	
	Returns the tracked url for this request by calling `getTrackedURL`.	
int	**getTransactionId**()	
	Returns the transaction id for this request by calling `getTransactionId`.	
String	**getType**()	
	Returns the `request type` for the underlying request.	
String	**getUserAgentRequestAttribute**(String name)	
	Returns the user agent request attribute called `name`.	
Properties	**getUserAgentRequestAttributes**()	
	Returns all request attributes the user agent has added to the request.	
String	**getUserAgentRequestHeader**(String name)	
	Returns the user agent request header called `name`.	
Properties	**getUserAgentRequestHeaders**()	
	Returns all request headers the user agent has added to the request.	
String	**getUserAgentRequestParameter**(String name)	
	Returns the user agent request parameter called `name`.	
Properties	**getUserAgentRequestParameters**()	
	Returns all request parameters the user agent has added to the request.	
String	**getUserFeedback**()	
	Return the user feedback for this request by calling `getUserFeedback`.	
int	**getUserRating**()	
	Returns the user's rating for this request by calling `getUserRating`.	
String	**getUserSegment**()	
boolean	**hasSessionExpired**()	
	Returns the flag whether the user agent detected that a prior session has expired.	
boolean	**isDeferredEvaluation**()	
	Returns a flag to the rules engine if we are evaluating deferred actions.	

boolean	**isLargeQuestion**() Checks whether we are dealing with a long question.	
boolean	**isRestart**() Checks if there is a restart pending.	
boolean	**isSearchWithin**() Checks whether this is a request to search within a document.	
boolean	**mustRedoMoreResultsHandler**() Checks whether to reexecute the more results handler.	
void	**put**(String key, Object value) Sets a value in the `map` for this RequestContext.	
void	**putBoolean**(String key, boolean val) Sets a boolean value.	

void	**removeAllResponses**()
	    Removes all response objects that have been formerly added by calls to
	    addResponse(Object).	

String	**removeParam**(String name) Removes a parameter entry in the underlying `Request`.	
void	**resetRestart**() Clears the restart information.	
void	**setActions**(List actions) Sets the action triggered for an answer question request.	
void	**setDeferredActions**(List actions) Sets the deferred actions that are triggered by the rules engine.	
void	**setDeferredEvaluation**(boolean val) Sets the flag if we are evaluating deferred actions.	
void	**setLanguage**(String language) Sets the language of the system.	
void	**setMustRedoMoreResultsHandler**(boolean val) Sets the flag that triggers rerunning of the more results handler.	
void	**setOriginalQuestion**(int priorTransactionId, int transactionId, String oldQuestion, com.inquira.util.i18n.Language lang) Establishes the original user question for an answer question request.	
void	**setOriginalQuestion**(int priorTransactionId, int transactionId, String oldQuestion, com.inquira.util.i18n.Language lang, boolean forcedEntryAllowed) Establishes the original user question for an answer question request.	
QuestionEntry	**setOriginalQuestion**(String oldQuestion) Sets the question the user entered for this request.	
void	**setOriginalQuestion**(String oldQuestion, int referenceId) Sets the question that is used in place of the original question for a navigation request.	
void	**setParam**(String name, String value) Sets the value for a parameter entry in the underlying `request`.	

void	**setPrincipal**(java.security.Principal principal) Sets the security principal on the underlying request by calling setPrincipal(Principal).	
void	**setPriorTransactionId**(int newPriorTransactionId) Sets the prior transaction id on the underlying request by calling setPriorTransactionId(int).	
void	**setPurposeAttributes**(String purpose, HashMap attrs) Sets the attributes on a per-purpose basis.	
void	**setQuestion**(String question) Sets the question to be used for further processing.	
void	**setQuestionType**(String type) Sets the question type for the last QuestionEntry in the QuestionHistory.	
void	**setRelativeWeights**(com.inquira.retrieve.index.RelativeWeights weights) Sets the com.inquira.retrieve.index.RelativeWeights for an answer question request.	
void	**setResponseNode**(com.inquira.util.xml.Node node) Appends the node or replaces the first exisiting node with the same name.	
void	**setRestart**(String newRequestType) Sets the request type to be restarted.	
void	**setRestartCount**(Integer count) Sets the number of times the answer question process was restarted due to changed made to the processing parameters.	
void	**setRestrictedAttributes**(Collection attributes) Sets the collection of attributes used to restrict unstructured search.	
void	**setRestrictedCollections**(Collection collection) Sets the collection of collections used to restrict unstructured search.	
void	**setRestrictedFacets**(String facets) Sets the facets used to restrict search.	
void	**setScopeWeights**(com.inquira.retrieve.index.ScopeWeights weights) Sets the com.inquira.retrieve.index.ScopeWeights for an answer question request.	
void	**setSearchResults**(Collection results) Sets the search results for an answer question request.	
void	**setSentence**(com.inquira.nlp.Sentence sentence) Sets the sentence for an answer question request.	
void	**setType**(String requestType) Sets the request type on the underlying request.	
void	**setUserAgentRequestAttribute**(String name, String value) Sets the user agent request attribute.	
void	**setUserAgentRequestParameter**(String name, String value) Sets the user agent request parameter.	

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Fields

QUESTION

public static final java.lang.String **QUESTION**

Constant value: **Question**

IM_RESTRICT_USER_GROUP

public static final java.lang.String **IM_RESTRICT_USER_GROUP**

Parameter name to trigger content restriction by IM user groups.
Constant value: **IM.Restrict.UserGroup**

IM_RESTRICT_EDITOR_GROUP

public static final java.lang.String **IM_RESTRICT_EDITOR_GROUP**

Parameter name to trigger content restriction by IM editor groups.
Constant value: **IM.Restrict.EditorGroup**

IM_RESTRICT_CHANNEL

public static final java.lang.String **IM_RESTRICT_CHANNEL**

Parameter name to trigger content restriction by IM channels.
Constant value: **IM.Restrict.Channel**

IM_RESTRICT_VIEW

public static final java.lang.String **IM_RESTRICT_VIEW**

Parameter name to trigger content restriction by IM views.
Constant value: **IM.Restrict.View**

IM_RESTRICT_CATEGORY

public static final java.lang.String **IM_RESTRICT_CATEGORY**

Parameter name to trigger content restriction by IM categories.
Constant value: **IM.Restrict.Category**

IM_RESTRICT_DISCUSSION

public static final java.lang.String **IM_RESTRICT_DISCUSSION**

Parameter name to trigger content restriction by IM discussion board/forum.
Constant value: **IM.Restrict.Discussion**

IM_RESTRICT_STATUS

public static final java.lang.String **IM_RESTRICT_STATUS**

Parameter name to trigger content restriction by IM publishing status. The valid values are
`CMS_DOCUMENT_STATUS_DRAFT` and `CMS_DOCUMENT_STATUS_PUBLISHED` ./
Constant value: **IM.Restrict.Status**

IM_RESTRICT_CONTENT

public static final java.lang.String **IM_RESTRICT_CONTENT**

Parameter name to trigger content restriction to IM content only. This will restrict to all IM content types and is
superseeded by IM_RESTRICT_TYPE but is retained for backward compatibility.
Constant value: **IM.DocumentsOnly**

IM_RESTRICT_TYPE

public static final java.lang.String **IM_RESTRICT_TYPE**

Parameter name to trigger content restriction by IM content type.
Constant value: **IM.Restrict.Type**

IM_RESTRICT_CONTENT_CHANNEL

public static final java.lang.String **IM_RESTRICT_CONTENT_CHANNEL**

Value for paramete IM_RESTRICT_TYPE to restrict to content in IM channels.
Constant value: **IM_CHANNEL**

IM_RESTRICT_CONTENT_DISCUSSION

public static final java.lang.String **IM_RESTRICT_CONTENT_DISCUSSION**

Value for paramete IM_RESTRICT_TYPE to restrict to content in IM discussion boards.
Constant value: **IM_DISCUSSION**

IM_RESTRICT_CONTENT_ALL

public static final java.lang.String **IM_RESTRICT_CONTENT_ALL**

Value for paramete IM_RESTRICT_TYPE to restrict to all IM content.
Constant value: **IM**

FIND_IML

public static final java.lang.String **FIND_IML**

Constant value: **FindIML**

FIND_DETAIL_OBJECTS

public static final java.lang.String **FIND_DETAIL_OBJECTS**

Constant value: **DetailObjects**

FIND_PAGE_SIZE

public static final java.lang.String **FIND_PAGE_SIZE**

Constant value: **PageSize**

FIND_PAGE_START

public static final java.lang.String **FIND_PAGE_START**

Constant value: **PageStart**

FIND_SORT_OBJECT

public static final java.lang.String **FIND_SORT_OBJECT**

Constant value: **SortObject**

FIND_SORT_DIRECTION

public static final java.lang.String **FIND_SORT_DIRECTION**

Constant value: **SortDirection**

FIND_EXCERPT_SENTENCE_COUNT

public static final java.lang.String **FIND_EXCERPT_SENTENCE_COUNT**

Constant value: **ExcerptSentenceCount**

FIND_LOWER_TIME

public static final java.lang.String **FIND_LOWER_TIME**

Constant value: **LowerTime**

FIND_UPPER_TIME

public static final java.lang.String **FIND_UPPER_TIME**

Constant value: **UpperTime**

FIND_OUTPUT_FORMAT

public static final java.lang.String **FIND_OUTPUT_FORMAT**

Constant value: **OutputFormat**

LIST_DOCUMENT_IDS

public static final java.lang.String **LIST_DOCUMENT_IDS**

Constant value: **DocumentIds**

LIST_GUIDS

public static final java.lang.String **LIST_GUIDS**

Constant value: **GUIDs**

LIST_EXT_IDS

public static final java.lang.String **LIST_EXT_IDS**

Constant value: **ExtIds**

DISTRIBUTED_QUERY_INPUT

public static final java.lang.String **DISTRIBUTED_QUERY_INPUT**

Entry name to store the input for a distributed query request.
Constant value: **distributedQueryInput**

DISTRIBUTED_QUERY_RESULT

public static final java.lang.String **DISTRIBUTED_QUERY_RESULT**

Entry name to store the result for a distributed query request.
Constant value: **distributedQueryOutput**

RESET_QUESTION_TYPE

public static final java.lang.String **RESET_QUESTION_TYPE**

Constant value: **<Default>**

Constructors

RequestContext

public **RequestContext**(Request request)

Creates a new RequestContext for the given request.

Methods

setRestart

public void **setRestart**(String newRequestType)

Sets the request type to be restarted.

resetRestart

public void **resetRestart**()

Clears the restart information.

isRestart

```
public boolean isRestart()
```

Checks if there is a restart pending.

get

```
public Object get(String key)
```

Gets the value associated with the given key. First we check the `map` for a value in the RequestContext. If the value is not found, we check the underlying `request`.

See Also:
    getParam

contains

```
public boolean contains(String key)
```

Checks if the give key is known.

getObject

```
public Object getObject(String key)
  throws com.inquira.util.xml.NodeDecodingException
```

Returns the object represented by the child node named `key`.

put

```
public void put(String key,
        Object value)
```

Sets a value in the `map` for this RequestContext.

getParam

```
public String getParam(String key)
```

Similar to get(String), except that it only checks the underlying `request` and not the internally cached values.

setParam

```
public void setParam(String name,
        String value)
```

Sets the value for a parameter entry in the underlying `request`. This will result in an entry in the `response` that will be generated from this RequestObject.

removeParam

```
public String removeParam(String name)
```

Removes a parameter entry in the underlying `Request`. This will result in the parameter entry no longer being generated in the `response` from this RequestContext.

getSession

```
public Session getSession()
   throws com.inquira.util.xml.NodeDecodingException,
         SessionException
```

Retrieves the session that is associated with this request.

getType

```
public String getType()
```

Returns the `request type` for the underlying request.

setType

```
public void setType(String requestType)
```

Sets the request type on the underlying request.

getQuestion

```
public String getQuestion()
```

Returns the question in case of an answer question request. Initially this is the question the user has entered; it can be changed during processing, e.g. by automatic spellchecking or anaphora.

See Also:
   getOriginalQuestion()

getPurposeNavigation

```
public String getPurposeNavigation()
```

Returns the purpose for which a navigation operation has been issued.

getFacet

```
public String getFacet()
```

Returns the facet for which a navigation operation has been issued.

getFacetsID

```
public String getFacetsID()
```

Returns the collection id for which a navigation operation has been issued.

getFacetShowAll

```
public boolean getFacetShowAll()
```

Returns whether all facets should be shown in the UI.

getFacetReset

```
public boolean getFacetReset()
```

Returns whether the facets restrictions have been reset.

getPagingDirection

public String **getPagingDirection**()

Returns how to page (forwards, or backwards).

getSearchWithinDocument

public int **getSearchWithinDocument**()

Returns the document id to be used for the search within document functionality.

isSearchWithin

public boolean **isSearchWithin**()

Checks whether this is a request to search within a document.

getOriginalQuestion

public String **getOriginalQuestion**()

Returns the question the user has entered for an answer question request.

See Also:
getQuestion()

getQuestionType

public String **getQuestionType**()

Returns the question type for an answer question request. If the passed in value equals <Default>, then the value is ignored.

getRawQuestionType

public String **getRawQuestionType**()

Returns the value for the question type that was sent in the request. This might differ from the returned value of getQustionType if the value is <Default>, which indicate that the default domain group should be used.

getDomainList

public String **getDomainList**()

Returns the domainlist ("domaingroup") for an answer question request. If the passed in value equals <Default>, then the value is ignored.

getDomainListForLoadRules

public String **getDomainListForLoadRules**()

isLargeQuestion

public boolean **isLargeQuestion**()

Checks whether we are dealing with a long question.

getQuestionHistory

public QuestionHistory **getQuestionHistory**()

> Retrieves an existing `QuestionHistory` or creates a new one if it does not exist.

getNavigationHistory

public NavigationHistory **getNavigationHistory**()

> Retrieves an existing `com.inquira.navigate.impl.NavigationHistory` or creates a new one if it does not exist.

getLastestQuestionEntry

public QuestionEntry **getLastestQuestionEntry**()

> Returns the `question entry` for the latest question.

getSearchResults

public List **getSearchResults**()

> Returns the search result for an answer question request.

getSentence

public com.inquira.nlp.Sentence **getSentence**()

> Returns the `com.inquira.nlp.Sentence` object for an answer question request.

getScopeWeights

public com.inquira.retrieve.index.ScopeWeights **getScopeWeights**()

> Sets the `com.inquira.retrieve.index.RelativeWeights` for an answer question request.

getRelativeWeights

public com.inquira.retrieve.index.RelativeWeights **getRelativeWeights**()

> Returns the `com.inquira.retrieve.index.RelativeWeights` for an answer question request.

getActions

public List **getActions**()

> Returns the list of `actions` for an answer question request.

getLanguage

public com.inquira.util.i18n.Language **getLanguage**()

> Returns the language for the system as specified in the UI.

getRestrictedCollections

public Collection **getRestrictedCollections**()

> Returns the `Collection` of restricted collections used in unstructured search

getRestrictedAttributes

public Collection **getRestrictedAttributes**()

> Returns the `Collection` of restricted attribute used in unstructured search

getRestrictedFacets

public String **getRestrictedFacets**()

> Returns the restricted facets used in unstructured search

getRestartCount

public Integer **getRestartCount**()

> Returns the number of time the answer question process was restarted due to changes made during processing.

getTransactionId

public int **getTransactionId**()

> Returns the transaction id for this request by calling getTransactionId.

> **See Also:**
> getPriorTransactionId()

getPriorTransactionId

public int **getPriorTransactionId**()

> Returns the transaction id for the prior request that generated answers by calling getPriorTransactionId.

> **See Also:**
> getTransactionId()
> setTransactionId(int)

setPriorTransactionId

public void **setPriorTransactionId**(int newPriorTransactionId)

> Sets the prior transaction id on the underlying request by calling setPriorTransactionId(int).

getFacetPriorTransactionId

public int **getFacetPriorTransactionId**()

> Returns the prior transcation id for navigation requests by calling getFacetPriorTransactionId( ).

getAnswerTransactionId

public int **getAnswerTransactionId**()

Returns the transaction id to use for building answer action urls. THis method takes into account the transaction id, prior transaction id and if a new QuestionEntry was created to determine which id to use. If a new QuestionEntry was created, by calling setOriginalQuestion(int, int, String, Language, boolean), then we need to use the transaction id passed to this method as the correct id. If no new QuestionEntry was created than we first check for a valid prior transaction id, if this does not exists then we use the transaction id.

getActionCode

public int **getActionCode**()

> Returns the action code for this request by calling getActionCode.

getAnswerId

public int **getAnswerId**()

> Returns the answer id for this request by calling getAnswerId.

getAnswerRelatedIds

public int[] **getAnswerRelatedIds**()

> Returns the answer id for this request by calling getAnswerId.

getTrackedURL

public String **getTrackedURL**()

> Returns the tracked url for this request by calling getTrackedURL.

getMaxSimilarResults

public int **getMaxSimilarResults**()

> Returns the maximum similar results for this request by calling getMaxSimilarResults.

getUserFeedback

public String **getUserFeedback**()

> Return the user feedback for this request by calling getUserFeedback.

getUserRating

public int **getUserRating**()

> Returns the user's rating for this request by calling getUserRating.

getRequest

public Request **getRequest**()

> Returns the underlying request object.

setQuestion

public void **setQuestion**(String question)

Sets the question to be used for further processing. This can be the original user question or a question that was modified by a `handler`, such as spellchecking or anaphora.

addFollowupSentenceInformation

```
public void
addFollowupSentenceInformation(com.inquira.analysis.followup.FollowupSentenceInformati
on sentence)
```

Establishes the information so that we can do follow up type logic on the next request.

getFollowupSentenceInformation

```
public com.inquira.analysis.followup.FollowupSentenceInformation
getFollowupSentenceInformation()
```

Gets the follow up information.

setOriginalQuestion

```
public QuestionEntry setOriginalQuestion(String oldQuestion)
```

Sets the question the user entered for this request.

setOriginalQuestion

```
public void setOriginalQuestion(String oldQuestion,
        int referenceId)
```

Sets the question that is used in place of the original question for a navigation request. In the navigation request case we also need to set the `reference transcation id` so that we can log the orignal transaction id for the user's orignal answer question request.

setOriginalQuestion

```
public void setOriginalQuestion(int priorTransactionId,
        int transactionId,
        String oldQuestion,
        com.inquira.util.i18n.Language lang)
```

Establishes the original user question for an answer question request. It also creates a new `QuestionEntry` in the `QuestionHistory`. This method also establishes the `com.inquira.response.ResultState` in this RequestContext.

setOriginalQuestion

```
public void setOriginalQuestion(int priorTransactionId,
        int transactionId,
        String oldQuestion,
        com.inquira.util.i18n.Language lang,
        boolean forcedEntryAllowed)
```

Establishes the original user question for an answer question request. It also creates a new `QuestionEntry` in the `QuestionHistory`. This method also establishes the `com.inquira.response.ResultState` in this RequestContext.
NOTE: The forcedEntryAllowed is a mechanism required for the search-within document functionality. It allows us to maintain an extra question entry even if the question history maximum size is exceeded.

setQuestionType

```
public void setQuestionType(String type)
```

Sets the question type for the last `QuestionEntry` in the `QuestionHistory`.

setSearchResults

public void **setSearchResults**(Collection results)

> Sets the search results for an answer question request.

setSentence

public void **setSentence**(com.inquira.nlp.Sentence sentence)

> Sets the `sentence` for an answer question request.

setRelativeWeights

public void **setRelativeWeights**(com.inquira.retrieve.index.RelativeWeights weights)

> Sets the `com.inquira.retrieve.index.RelativeWeights` for an answer question request.

setScopeWeights

public void **setScopeWeights**(com.inquira.retrieve.index.ScopeWeights weights)

> Sets the `com.inquira.retrieve.index.ScopeWeights` for an answer question request.

setActions

public void **setActions**(List actions)

> Sets the action triggered for an answer question request.

setLanguage

public void **setLanguage**(String language)

> Sets the language of the system.

setRestartCount

public void **setRestartCount**(Integer count)

> Sets the number of times the answer question process was restarted due to changed made to the processing parameters.

setRestrictedCollections

public void **setRestrictedCollections**(Collection collection)

> Sets the collection of collections used to restrict unstructured search.

setRestrictedAttributes

public void **setRestrictedAttributes**(Collection attributes)

> Sets the collection of attributes used to restrict unstructured search.

setRestrictedFacets

public void **setRestrictedFacets**(String facets)

Sets the facets used to restrict search.

addResponseNode

public void **addResponseNode**(com.inquira.util.xml.Node node)

Adds the given `node` so that it will included in the `response` generated from this ReuqestContext.

See Also:
> setResponseNode(Node)

setResponseNode

public void **setResponseNode**(com.inquira.util.xml.Node node)

Appends the node or replaces the first exisiting node with the same name.

See Also:
> addResponseNode(Node)

getResponseNodes

public List **getResponseNodes**()

Retrieves a list of all reponse `nodes` that have been added before.

See Also:
> addResponseNode(Node)

assureResponseNodes

public List **assureResponseNodes**()

Ensures that a response node in place.

addSearchResults

public void **addSearchResults**(Collection newresults)

Adds the search results to the internal data structures.

addResponse

public void **addResponse**(Object responseObject)

Adds a new response object.

See Also:
> getAllResponses()
> removeAllResponses()

getAllResponses

public Collection **getAllResponses**()

Returns all response objects.

See Also:

addResponse(Object)
getResponseObject(String)

getResponseObject

public ResponseObject **getResponseObject**(String name)

Returns a response object identified by name.

removeAllResponses

public void **removeAllResponses**()

Removes all response objects that have been formerly added by calls to addResponse(Object).

getParameters

public Properties **getParameters**(Pattern pattern)

Returns all request parameters that match the passed in pattern.

getUserAgentRequestParameters

public Properties **getUserAgentRequestParameters**()

Returns all request parameters the user agent has added to the request.

getUserAgentRequestHeaders

public Properties **getUserAgentRequestHeaders**()

Returns all request headers the user agent has added to the request.

getUserAgentRequestAttributes

public Properties **getUserAgentRequestAttributes**()

Returns all request attributes the user agent has added to the request.

setUserAgentRequestParameter

public void **setUserAgentRequestParameter**(String name,
        String value)

Sets the user agent request parameter.

setUserAgentRequestAttribute

public void **setUserAgentRequestAttribute**(String name,
        String value)

Sets the user agent request attribute.

getRequestArguments

public Properties **getRequestArguments**()

Returns all user agent parameters, including individual parameters, all request headers, all request parameters, and all request attributes.

getUserAgentRequestParameter

```
public String getUserAgentRequestParameter(String name)
```

Returns the user agent request parameter called name.

getUserAgentRequestHeader

```
public String getUserAgentRequestHeader(String name)
```

Returns the user agent request header called name. The name lookup is case-insensitive.

getUserAgentRequestAttribute

```
public String getUserAgentRequestAttribute(String name)
```

Returns the user agent request attribute called name.

setPrincipal

```
public void setPrincipal(java.security.Principal principal)
  throws InquiraSecurityException
```

Sets the security principal on the underlying request by calling setPrincipal(Principal).

getBaseURL

```
public String getBaseURL()
```

Gets the base URL, used to build fully qualified URLs in the backend.

addCookie

```
public void addCookie(CookieWrapper cookie)
```

Instructs the user agent to add a cookie specified by cookie.

getParameters

```
public com.inquira.util.xml.Node getParameters()
```

Returns the values node from the underlying request by calling values( ).

getBoolean

```
public boolean getBoolean(String key)
```

Returns the boolean representation of a value.

putBoolean

```
public void putBoolean(String key,
        boolean val)
```

Sets a boolean value.

getDeferredActions

public List **getDeferredActions**()

Gets the list of deferred actions.

setDeferredActions

public void **setDeferredActions**(List actions)

Sets the deferred actions that are triggered by the rules engine.

addDeferredAction

public void **addDeferredAction**(Action action)

Add a new deferred action.

isDeferredEvaluation

public boolean **isDeferredEvaluation**()

Returns a flag to the rules engine if we are evaluating deferred actions.

mustRedoMoreResultsHandler

public boolean **mustRedoMoreResultsHandler**()

Checks whether to reexecute the more results handler.

setDeferredEvaluation

public void **setDeferredEvaluation**(boolean val)

Sets the flag if we are evaluating deferred actions.

setMustRedoMoreResultsHandler

public void **setMustRedoMoreResultsHandler**(boolean val)

Sets the flag that triggers rerunning of the more results handler.

hasSessionExpired

public boolean **hasSessionExpired**()

Returns the flag whether the user agent detected that a prior session has expired.

setPurposeAttributes

public void **setPurposeAttributes**(String purpose,
        HashMap attrs)

Sets the attributes on a per-purpose basis.

getPurposeAttributes

public HashMap **getPurposeAttributes**()

Returns all purpose attributes.

assurePurposeAttributes

`public HashMap **assurePurposeAttributes**(String purpose)`

Ensures that there is a place to store the purpose attributes.

getPurposeAttributes

`public HashMap **getPurposeAttributes**(String purpose)`

Returns the attributes for a given `purpose`.

getResponseContact

`public Boolean **getResponseContact**()`

Returns the response the user selected for contact deflection.

getDistributedQueryInput

`public com.inquira.util.xml.BinaryNode **getDistributedQueryInput**()`

Returns the data needed by a query worker to process a distributed search request.

getLoginValues

`public com.inquira.util.xml.Node **getLoginValues**()`

Returns the authentication values provided by the user.

getNextRequestParameter

`public String **getNextRequestParameter**()`

Returns the name of the next request to be executed after succesful authentication.

getRequestSource

`public String **getRequestSource**()`

Returns the source that created the request. This is useful to indicate usages that are outside of the straight search integration, such as IM.

getIMRestrictUserGroup

`public String **getIMRestrictUserGroup**()`

Returns content restriction by IM user groups, as a comma separates list of user group reference keys.

getIMRestrictEditorGroup

`public String **getIMRestrictEditorGroup**()`

Returns content restriction by IM editor groups, as a comma separates list of editor group reference keys.

getIMRestrictChannel

`public String getIMRestrictChannel()`

> Returns content restriction by IM channels, as a comma separates list of channel reference keys.

getIMRestrictView

`public String getIMRestrictView()`

> Returns content restriction by IM views, as a comma separates list of view reference keys.

getIMRestrictCategory

`public String getIMRestrictCategory()`

> Returns content restriction by IM category, as a comma separates list of category reference keys.

getIMRestrictDiscussion

`public String getIMRestrictDiscussion()`

> Returns content restriction by IM discusssion boards/forums, as a comma separates list of discusssion board/forum reference keys. The restriction can either be at the board level or at the forum (in a specific board level) since the value of the facet that we restrict contains the board followed by the forum reference key.

getIMRestrictStatus

`public String getIMRestrictStatus()`

> Returns content restriction by IM publishing status. The expected values are `CMS_DOCUMENT_STATUS_DRAFT` and `CMS_DOCUMENT_STATUS_PUBLISHED`. If other values are defined the search will not return any answers ./

getIMRestrictTypes

`public Set getIMRestrictTypes()`

> Returns set of im content types to restrict to.

getUserSegment

`public String getUserSegment()`

getFindIML

`public String getFindIML()`

getFindDetailObjects

`public String getFindDetailObjects()`

getFindPageSize

```
public int getFindPageSize(int defaultPageSize)
```

getFindPageStart

```
public int getFindPageStart()
```

getFindSortObject

```
public String getFindSortObject()
```

getFindSortDirection

```
public String getFindSortDirection()
```

getFindExcerptSentenceCount

```
public int getFindExcerptSentenceCount(int defaultExcerptSentenceCount)
```

getFindLowerTimeLimit

```
public String getFindLowerTimeLimit()
```

getFindUpperTimeLimit

```
public String getFindUpperTimeLimit()
```

getFindOutputFormat

```
public String getFindOutputFormat()
```

getDocumentIds

```
public String getDocumentIds()
```

getGUIDs

```
public String getGUIDs()
```

getExtIds

public String **getExtIds**()

getExtIds

public String **getExtIds**()

Package
com.inquira.util.security

This package contains utility classes for security related areas.

com.inquira.util.security
Class SimplePrincipal

```
java.lang.Object
    |
    +-com.inquira.util.security.SimplePrincipal
```

All Implemented Interfaces:
> Serializable **,** java.security.Principal

---

public class **SimplePrincipal**
extends Object
implements java.security.Principal **,** Serializable

This class implements the `java security principal` so that we can unify user handling in the runtime.

Constructor Summary

public	[SimplePrincipal](String name) Creates a new principal for the given `name`.

Method Summary

boolean	[equals](Object comp) Implements the equality comparison.
String	[getName]() Returns the name of the principal.
String	[toString]() Returns the identity string for this principal object.

Methods inherited from class `java.lang.Object`

equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Methods inherited from interface `java.security.Principal`

equals, getName, hashCode, toString

Constructors

SimplePrincipal

public **SimplePrincipal**(String name)

> Creates a new principal for the given `name`.

Methods

---

getName

```
public String getName()
```

> Returns the name of the principal.

toString

```
public String toString()
```

> Returns the identity string for this principal object.

equals

```
public boolean equals(Object comp)
```

> Implements the equality comparison.

```
public String getName()
```