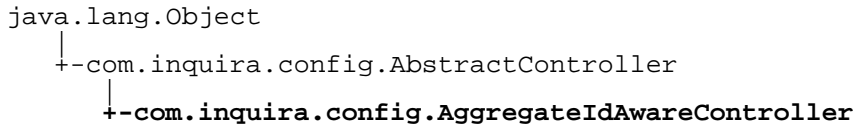

Package
com.inquirar.config

com.inquir.config Class AggregateIdAwareController



All Implemented Interfaces:
[Eqptqngt](#), [Eqptqngt](#)

Direct Known Subclasses:
[Ewugo Etcy rgtEqphi Eqptqngt](#)

r wdike"cdutcev'ercuu"AggregateIdAwareController
gz vgpf u"CdutcevEqptqngt
ko r ngo gpw"Eqptqngt, [Eqptqngt](#)

Cm'controllers'vj cv'y cpv'q'npqy 'y j cv'y g'pco g'qt'lpf gz 'hqt'vj ku'rgo gpw'ku'lp'c'o cr 'qt'hku'tgur gekkxgn' 'pggf "q"gz vgpf 'ht qo
vj ku'ercuu'cpf"ko r ngo gpv'y g'[get\(String, Object\)](#)'o gj qf 0

Eqputwevqt"Uwo o ct {	
public	AggregateIdAwareController()

O gj qf "Uwo o ct {	
Object	get(Object value) K'c'Ci i tgi cvgK Cy ctgEqptqngt'i gv'ecmgf 'y kj 'vj ku'o gj qf 'uqo gj kpi 'y j gp'y tqpi dgecwug'y g'pggf 'vj g'ci i tgi cvg'k' "q'dg'l cuugf "q'vj g' get(String, Object) 'o gj qf "qh vj g'eqptqngt0
abstract Object	get(String name, Object value) K'o r ngo gpv'y ku'o gj qf "lp'c'ci i tgi cvg'k' "cy ctg'eqptqngt."uwej 'cu'vj g com.inquir.config.controllers.NamedMapController0

Methods inherited from class com.inquir.config.AbstractController
get

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

Methods inherited from interface com.inquir.config.Controller
get

Methods inherited from interface com.inquir.config.Controller
get

(continued from last page)

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.inquiria.config.controllers.NamedMapController`.

com.inquir.config Class ConfigControllerException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.inquir.infra.InquirException
        |-- com.inquir.config.ConfigException
          |-- com.inquir.config.ConfigControllerException

```

All Implemented Interfaces:

Serializable, com.inquir.log.Loggable

```

public class ConfigControllerException
extends ConfigException

```

Fields inherited from class [com.inquir.infra.InquirException](#)

[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.inquir.infra.InquirException](#)

[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.inquiria.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.inquiria.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.inquiria.content

Content Acquisition Framework.

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

com.inquiria.content Class CollectionConfig

java.lang.Object

└─com.inquiria.content.CollectionConfig

All Implemented Interfaces:

ILogConstants, 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.inquiria.content.ILogConstants

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, COMMITTED, 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_COMPARISON_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.inquiria.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) Identifies 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 set 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 conversion step and be omitted.

CollectionInfo	getCollection() Retrieve {link Collection collection information} for this collection.
String	getCollectionName() Returns the collection name.
Collection	getContent(com.inquiria.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.inquiria.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 id.
List	getGlobalCrawlRules() Returns a List of the RegexpRule objects which are the global crawl rules for this collection.
PreprocessingFilter	getPreprocessingFilter() Returns collection based customization logic for document conversion.
int	getRankingIterations() Returns internal counter used for document ranking calculation.
com.inquiria.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.inquiria.scheduler.job.TaskStatus status, Document doc, int count, Integer size) Performs document conversion 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.inquiria.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.inquiria.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.

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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 crawl} object with the appropriate configuration set.

getContent

```
public Collection getContent(com.inquiria.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

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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.

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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 sets 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)
```

Identifies 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.inquiria.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.inquiria.util.i18n.Language getDefaultLanguage()
```

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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 conversion 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.inquiria.scheduler.job.TaskStatus status,  
    Document doc,  
    int count,  
    Integer size)  
    throws ContentStoreException
```

Performs document conversion 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 conversion of all documents has completed whne document conversion 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 IllegalArgumentException
```

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 conversion should occur during content acquisition.

shouldPrepAtCrawltime

```
public boolean shouldPrepAtCrawltime()
```

Returns flag whether document conversion should occur during content acquisition.

setPreprocessingFilter

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

Sets collection based [customization logic](#) for document conversion.

getPreprocessingFilter

```
public PreprocessingFilter getPreprocessingFilter()
```

Returns collection based [customization logic](#) for document conversion.

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.inquiria.scheduler.job.TaskStatus taskStatus)
```

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

getTaskStatus

```
public com.inquiria.scheduler.job.TaskStatus getTaskStatus()
```

Returns the currently active task status object.

getCSType

```
public abstract ContentSourceType getCSType()
```

com.inquiria.content Class CollectionUtils

java.lang.Object

└─com.inquiria.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.inquiria.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, COMMITTED, 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_COMPARISON_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.inquiria.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 **important** 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 **important** 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.

com.inquiria.content Class ContentSourceType

java.lang.Object

└-com.inquiria.util.IQEnum

└-com.inquiria.content.ContentSourceType

All Implemented Interfaces:

Serializable

public class **ContentSourceType**
extends com.inquiria.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.inquiria.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.inquiria.content.ContentSourceType HTTP
```

Content source type for web crawler.

FILE

```
public static transient com.inquiria.content.ContentSourceType FILE
```

Content source type for file system crawler.

DB

```
public static transient com.inquiria.content.ContentSourceType DB
```

Content source type for database crawler.

SIEBEL

```
public static transient com.inquiria.content.ContentSourceType SIEBEL
```

Content source type for Siebel crawler.

IM

```
public static transient com.inquiria.content.ContentSourceType IM
```

(continued from last page)

Content source type for Information Manager crawler.

VIGNETTE

```
public static transient com.inquiria.content.ContentSourceType VIGNETTE
```

Content source type for Vignette crawler.

INTERWOVEN

```
public static transient com.inquiria.content.ContentSourceType INTERWOVEN
```

Content source type for Interwoven crawler.

CUSTOM

```
public static transient com.inquiria.content.ContentSourceType CUSTOM
```

Content source type for custom crawler.

IM_DISCUSSION

```
public static transient com.inquiria.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()
```

(continued from last page)

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)
```

com.inquiria.content Class Crawler

java.lang.Object

└─com.inquiria.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.inquiria.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, COMMITTED, 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_COMPARISON_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.inquiria.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 <code>connect(CrawlerConfig)</code> .
abstract boolean	findComplete () returns if the crawl is complete or not
abstract Collection	findContent (Collection priorContent, CrawlerConfig conf, CrawlerState state, com.inquiria.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.inquiria.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.inquiria.scheduler.job.TaskStatus taskStatus) this methods calls the <code>getContent</code> method on more than one document while the size of the data does not exceed the limit set in <code>transferSizeLimit</code> .
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

(continued from last page)

findContent

```
public abstract Collection findContent(Collection priorContent,  
    CrawlerConfig conf,  
    CrawlerState state,  
    com.inquiria.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 available. 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 `connect(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

(continued from last page)

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.inquiria.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.

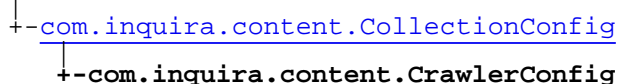
findUpdatedContent

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

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

com.inquiria.content Class CrawlerConfig

java.lang.Object



All Implemented Interfaces:

ILogConstants, 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.inquiria.content.ILogConstants

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, COMMITTED, 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_COMPARISON_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.inquiria.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.inquiria.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.inquiria.content Class CrawlerException

```

java.lang.Object
  |
  +- java.lang.Throwable
    |
    +- java.lang.Exception
      |
      +- com.inquiria.infra.InquiriaException
        |
        +- com.inquiria.content.CrawlerException
  
```

All Implemented Interfaces:

ILogConstants, Serializable, com.inquiria.log.Loggable

```

public class CrawlerException
extends InquiriaException
implements com.inquiria.log.Loggable, Serializable, IContentLogConstants
  
```

This [Inquiria exception](#) signals a problem during crawler operation.

Fields inherited from class [com.inquiria.infra.InquiriaException](#)

[APPLICATION_FATAL](#), [TRANSACTION_PERMANENT](#), [TRANSACTION_RETRY](#), [UNKNOWN](#)

Fields inherited from interface com.inquiria.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, COMMITTED, 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_COMPARISON_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.inquiria.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.inquiria.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.inquiria.infra.InquiriaException](#)

[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.inquiria.log.Loggable](#)

[printLogString](#)

Constructors

CrawlerException

```
public CrawlerException(com.inquiria.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.inquiria.content Class CrawlerState

java.lang.Object

└-com.inquiria.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.

(continued from last page)

get

```
public Serializable get()
```

This method gets the state of this crawler.

com.inquiria.content Class Document

java.lang.Object

↳ **com.inquiria.content.Document**

All Implemented Interfaces:

ILogConstants, 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 information 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.inquiria.content.ILogConstants

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, COMMITTED, 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_COMPARISON_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.inquiria.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 document 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.inquiria.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 <code>type</code> , 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 <code>DocumentType</code> 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 <code>type</code> .
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.inquiria.util.il8n. .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 instantiated.
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 associated with this document.
boolean	hasSupertitle(String superTitle) Returns if superTitle is associated 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 attribute but 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 unnecessary 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 crawler.
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.inquirea.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.inquiria.content.CharacterEncoding DEFAULT_ENCODING
```

Defines the default character encoding.

DEFAULT_LANGUAGE

```
public static final com.inquiria.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
```

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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.

(continued from last page)

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 InquiriaException
```

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.

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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.inquiria.util.xml.Node n)
```

(continued from last page)

setLanguage

```
public void setLanguage(com.inquiria.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.inquiria.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)
```

(continued from last page)

Stores the ETag for optional modification detection in HTTP crawler.

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.

(continued from last page)

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 from its starting point.

setDirectIQXML

```
public void setDirectIQXML(boolean flag)
```

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

(continued from last page)

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 document 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()
```

(continued from last page)

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()
```

(continued from last page)

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 `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 `type`.

getLastInputStreamLength

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

Returns the length of the last accessed data type.

(continued from last page)

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 instantiated.

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)
```

(continued from last page)

Adds a document attribute but 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 associated with this document.

hasAttribute

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

Returns if `attribute` is associated with this document.

shouldCrawl

```
public boolean shouldCrawl()
```

Returns whether the content of this document should be crawled.

(continued from last page)

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()
```

(continued from last page)

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

toString

```
public String toString()
```

Returns identity information about this document.

dump

```
public void dump()  
    throws ContentStoreException
```

Logs document details.

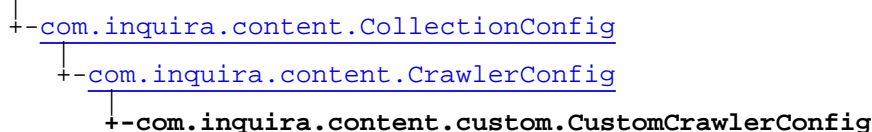
Package

com.inquiria.content.custom

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

com.inquiria.content.custom Class CustomCrawlerConfig

java.lang.Object



All Implemented Interfaces:

ILogConstants, Cloneable

public abstract class **CustomCrawlerConfig**

extends [CrawlerConfig](#)

Base class for all custom [crawler configuration](#) implementations. Instances of subclasses of this class are created by the configuration service using the [CustomCrawlerConfigController](#).

Fields inherited from interface com.inquiria.content.ILogConstants

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, COMMITTED, 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_COMPARISON_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.inquiria.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.inquiria.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

(continued from last page)

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.inquiria.content.custom Class CustomCrawlerConfigController

```

java.lang.Object
  |
  +-com.inquiria.config.AbstractController
    |
    +-com.inquiria.config.AggregateIdAwareController
      |
      +-com.inquiria.content.custom.CustomCrawlerConfigController
  
```

All Implemented Interfaces:

IConfigConstants, ILogConstants, [Controller](#), [Controller](#), [Controller](#)

```

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

This controller instantiates 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 language 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 conversion process.</td> </tr> </table>
  
```

Fields inherited from interface com.inquiria.content.custom.ILogConstants

NO_CLASS

Fields inherited from interface com.inquiria.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, COMMITTED, 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_COMPARISON_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.inquiria.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.inquiria.content.custom.IConfigConstants

CONFIG

Fields inherited from interface com.inquiria.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.inquiria.config.AggregateIdAwareController](#)

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

Methods inherited from class [com.inquiria.config.AbstractController](#)

[get](#)

Methods inherited from class [java.lang.Object](#)

[equals](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [toString](#), [wait](#), [wait](#), [wait](#)

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

[get](#)

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

[get](#)

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

[get](#)

Constructors

CustomCrawlerConfigController

public [CustomCrawlerConfigController](#)()

Methods

(continued from last page)

get

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

Create a new custom collection configuration object.

com.inquiria.content.custom Class CustomCrawlerState

java.lang.Object

└-com.inquiria.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.

Package
com.inquirator.evaluator

com.inquiria.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.inquiria.dictionary.rules.userdata.AnswerPart part, com.inquiria.nlp.Sentence sent, com.inquiria.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.inquiria.dictionary.rules.userdata.AnswerPart part,  
    com.inquiria.nlp.Sentence sent,  
    com.inquiria.match.VariableInstantiation vars,  
    Map map,  
    double score)  
throws InquiriaException
```

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:

[InquiriaException](#)

Package

com.inquiria.infra

This package and its subpackages implement the InQuira application infrastructure.

Features

-

- **Remote invocation of service**

-

-

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

-

-

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

-

Limitations

Implementation Details

com.inquirainfra Class Execution

java.lang.Object

└-com.inquirainfra.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.inquiria.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.inquiria.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 newName) 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.inquiria.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.inquirainfra.userdata.domain.DomainDataService	domainDataService() Returns the domain data service.
void	endThreadEvent()
Execution	enterApplicationCode() Acquires read lock for the application so that it is safe to proceed accessing application services.
Execution	enterApplicationCode(boolean cloneOrSynchronize) Acquires read lock for the application so that it is safe to proceed accessing application services.
com.inquirainfra.event.EventManager	eventManager() Returns the event manager.
com.inquirainfra.excerpt.ExcerptService	excerpt() Returns the excerpt service.
com.inquirainfra.excerpt.security.IExcerptSecurity	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.inquirainfra.util.IReadWriteLock	getAppLock() Returns a lock to prevent redeploying an application while it is still in use 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.inquiria.util.uuid .UUID	getJvmId () Returns the UUID for this JVM.
String	getName () Returns the getRawName () prefixed by "Application: "".
com.inquiria.analytics .Ods	getOds () Returns the ODS interface
java.security.Permission	getPermission (String permissionKey) Return the permission object represented by the key permissionKey.
File	getProductFile (String name) Returns the file object that represents the product file specified by name.
String	getProductPath (String name) Returns the absolute path that represents 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.inquiria.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.inquiria.util.uuid .UUID	getTransactionId () Returns the transaction UUID for the current request.

com.inquiria.retrieve.newIndex.UnstructuredDataService	getUDS() Returns the unstructured data service.
IUser	getUser() Returns the authenticated user object.
com.inquiria.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.inquiria.retrieve.index.IndexService	index() Returns the index service.
com.inquiria.util.io.FileBasedLock	initLockInfo (File file) Create the internal structures required for locking this file.
com.inquiria.dictionary.intents.IntentService	intents()
com.inquiria.userdata.user.InternalUserService	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.inquiria.util.il8n.Language	language() Returns the language for this application.
com.inquiria.nlp.LanguageAnalysis	languageanalysis() Returns the language analysis module.
void	leaveApplicationCode() Releases read lock for the application after the current thread will no longer access services.
Object	locate (String name) Locates the service with the given name.
com.inquiria.util.io.FileBasedLock	lock (com.inquiria.util.io.FileBasedLock lock, String operation) Locks the specified file and writes a lock message to that file
com.inquiria.util.io.FileBasedLock	lock (File file, String operation) Locks the specified file and writes a lock message to that file

com.inquiria.log.LogWriter	log() Returns the log writer.
NavigationService	navigation() Returns the navigation service.
NavigationStore	navigationStore() Returns the navigation store.
com.inquiria.dictionary.ontology.OntologyService	ontology()
com.inquiria.userdata.domain.DomainDataService	ontologyDomainDataService() Returns the domain data service.
PreferenceService	preferences() Returns the preference service.
com.inquiria.workbench.dialog.ProcessWizardService	processWizards() Returns the process wizard service.
com.inquiria.query.QueryService	queryService() Returns the query service.
void	release(com.inquiria.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.inquiria.dictionary.ontology.OntologyService	reloadOntology() Reloads the UDS.
com.inquiria.revision.RevisionManager	reloadRevisionManager() Forces a rundown of the existing com.inquiria.revision.RevisionManager, thus storing all outstanding changes to the revision store.
com.inquiria.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.inquiria.revision.RevisionManager	revisionManager() Returns the revision manager.
com.inquiria.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.inquiria.dictionar y.rules.RuleService	rules() Returns the rules data service.
void	rundown() Releases services that manage request-specific data.
com.inquiria.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.inquiria.util.i18n.Language lang)
void	setUser(IUser user) Stores the authenticated user in the execution context.
com.inquiria.spellchec k.SpellCheck	spellcheck() Returns the spellcheck service.
com.inquiria.stringtab le.StringTableService	stringtable() Returns the stringtable service.
com.inquiria.stringtab le.StringTable	stringTable() Returns the application internal stringtable.
com.inquiria.retrieve. structured.Structured DataService	structuredData() Returns the structured data services.
Execution	synchronizeApplication() This method needs to be called to make new application configuration available Note: This method should only be called from the Inquiria infrastructure.
static ThreadInfo	threadInfo() Returns the thread information object that maintains immutable 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.inquirainfra.userdata. UserDataTransfer	userDataTransfer()
com.inquirainfra.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.inquirainfra.Context

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

Fields

MODIFY_STRING_TABLE

public static final com.inquirainfra.ExecutionOperation **MODIFY_STRING_TABLE**

Operation that allows modifications to the string table.

MODIFY_REVISION_MANAGER

public static final com.inquirainfra.ExecutionOperation **MODIFY_REVISION_MANAGER**

Operation that allows modifications to the revision manager.

USE_USER_DICTIONARY

public static final com.inquirainfra.ExecutionOperation **USE_USER_DICTIONARY**

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

INDEXING

public static final com.inquirainfra.ExecutionOperation **INDEXING**

Operation that allows indexing.

MAINTAINING_INDEX

public static final com.inquirainfra.ExecutionOperation **MAINTAINING_INDEX**

Operation that allows index maintenance.

DEBUG_SCORING_RESULT

public static final com.inquirainfra.ExecutionOperation **DEBUG_SCORING_RESULT**

Operation that allows generation of debug information for search.

(continued from last page)

UDS_NO_EXCERPTS

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

Operation that directs the UDS not to handle excerpts.

TEST_DRIVE_LISTENER

```
public static final com.inquiria.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 immutable information that is thread specific.

Note: This method should only be called from the Inquiria 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 be called by the Inquiria infrastructure.

Parameters:

exec - the execution context to associate with this thread.

See Also:

[resetContext\(\)](#)

(continued from last page)

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 be called by the Inquiria infrastructure.

See Also:

[setContext\(Execution\)](#)

reloadRevisionManager

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

Forces a rundown of the existing `com.inquiria.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.inquiria.retrieve.newIndex.UnstructuredDataService reloadUDS()  
    throws TransportException,  
           com.inquiria.retrieve.newIndex.UnstructuredDataException
```

Reloads the UDS.

reloadOntology

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

Reloads the UDS.

rexContext

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

rexDetectorContext

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

setRuntimeLanguage

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

(continued from last page)

getRuntimeLanguage

```
public com.inquiria.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 Inquiria personnel!

rundown

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

Releases services that manage request-specific data. This method should be called after every completion of the `handle` method and before any main method completes.

Note: This method should only be called from the Inquiria 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.inquiria.infra.Context`. Internally the locate operation is delegated to the underlying application object.

Note: This method should only be called from the Inquiria infrastructure.

setRequestContext

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

Stores the [RequestContext](#).

See Also:

[**Note:** This method should only be called from the Inquiria 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 Inquiria infrastructure.

log

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

Returns the log writer.

eventManager

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

Returns the excerpt service.

getUDS

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

Returns the unstructured data service.

stringtable

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

Returns the stringtable service.

(continued from last page)

navigation

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

Returns the navigation service.

intents

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

structuredData

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

Returns the structured data services.

domainDataService

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

Returns the domain data service.

ontologyDomainDataService

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

Returns the domain data service.

internalUserService

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

Returns the internal user service.

rules

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

Returns the rules data service.

ontology

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

(continued from last page)

languageanalysis

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

Returns the language analysis module.

navigationStore

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

Returns the navigation store.

content

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

Returns the content store.

index

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

Returns the index service.

scheduler

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

Returns the scheduler service.

spellcheck

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

Returns the spellcheck service.

excerptSecurity

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

Returns the excerpt-level security service.

uuids

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

Returns the UUID service.

revisionManager

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

(continued from last page)

Returns the revision manager.

revisionManager

```
public com.inquiria.revision.RevisionManager revisionManager(ExecutionMode inMode)  
    throws com.inquiria.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 from the revision store.

processWizards

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

Returns the process wizard service.

getJvmId

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

Returns the query service.

userDataTransfer

```
public com.inquiria.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 InquiriaSecurityException
```

Stores the authenticated user in the execution context.

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

resetUser

```
public void resetUser()
```

Removes the user object from the execution context.

Note: This method should only be called from the Inquiria infrastructure.

language

```
public final com.inquiria.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)
```

(continued from last page)

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 represents the product file specified by name. If the file does not exist, a `InquiriaRuntimeException` is thrown.

getProductPath

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

Returns the absolute path that represents the product file specified by name. If the file does not exist, a `InquiriaRuntimeException` 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 Inquiria infrastructure.

(continued from last page)

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 Inquiria infrastructure.

synchronizeApplication

```
public Execution synchronizeApplication()
```

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

stringTable

```
public com.inquiria.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 Inquiria infrastructure.

getName

```
public String getName()
```

Returns the [getRawName\(\)](#) prefixed by "Application: "".

getRawName

```
public String getRawName()
```

Returns the name of the application only.

getUUID

```
public com.inquiria.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.

(continued from last page)

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
```

(continued from last page)

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 Inquiria 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 thread. It's usually good practice 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.

(continued from last page)

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 its key permissionKey.

unloadAsMuchAsPossible

```
public void unloadAsMuchAsPossible()
```

Releases all services that can be safely cleared.

Note: This method should only be called from the Inqira infrastructure.

lock

```
public com.inqira.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.inqira.util.io.FileBasedLock lock(com.inqira.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.inqira.util.io.FileBasedLock lock)  
    throws IOException
```

Releases the file lock created by a prior call to [lock\(File, String\)](#).

initLockInfo

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

Create the internal structures required for locking this file.

getOds

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

(continued from last page)

Returns the ODS interface

reloadExternallyMaintainedServices

```
public void reloadExternallyMaintainedServices()  
    throws TransportException,  
           com.inquiria.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.inquiria.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.inquiria.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 access services. Once no context/thread holds a read lock for the application it is then safe to redeploy the application.

com.inqira.infra Class InqiraException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.inqira.infra.InqiraException
  
```

All Implemented Interfaces:

com.inqira.log.Loggable, Serializable

Direct Known Subclasses:

[HandlerException](#), [NavigationException](#), [TransportException](#), [InqiraSecurityException](#), [CrawlerException](#)

```

public abstract class InqiraException
extends Exception
implements Serializable, com.inqira.log.Loggable
  
```

Base of all Exceptions that are created within InQira. 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	InqiraException.Test InqiraException.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	InqiraException (Throwable cause) Creates a new exception with the cause being being set.
public	InqiraException (String id) Creates a new exception with the message id being set.

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

Method Summary

Object[]	getArguments () Returns the arguments for this exception.
int	getDisposition () Returns the disposition for this exception.
com.inquirainfra.event.EventInstance	getEventInstance () Returns the com.inquirainfra.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.inquire.log.Loggable

printLogString

Fields

(continued from last page)

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

InqiraException

```
public InqiraException(Throwable cause)
```

Creates a new exception with the cause being being set.

InqiraException

```
public InqiraException(String id)
```

Creates a new exception with the message id being set.

InqiraException

```
public InqiraException(String id,  
                        Object[] args)
```

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

InqiraException

```
public InqiraException(String id,  
                        Throwable cause)
```

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

(continued from last page)

InqiraException

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

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

InqiraException

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

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

InqiraException

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

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

InqiraException

```
public InqiraException(com.inqira.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.inquirainfra.event.EventInstance getEventInstance()
```

Returns the `com.inquirainfra.event.EventInstance` that was used to create this exception.

Note: This method can return null if no event instance was used to create 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 their 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, then 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.inquirainfra

Class InquiryException.Test

java.lang.Object

└─com.inquirainfra.InquiryException.Test

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

Test class

Constructor Summary

public	InquiryException.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

InquiryException.Test

public **InquiryException.Test**()

Methods

main

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

com.inqira.infra

Class InqiraSecurityException

```

java.lang.Object
  |
  +- java.lang.Throwable
    |
    +- java.lang.Exception
      |
      +- com.inqira.infra.InqiraException
        |
        +- com.inqira.infra.InqiraSecurityException
  
```

All Implemented Interfaces:

[INameConstants](#), [Serializable](#), [com.inqira.log.Loggable](#)

Direct Known Subclasses:

[InqiraAuthenticationException](#)

public class **InqiraSecurityException**

extends [InqiraException](#)

implements [com.inqira.log.Loggable](#), [Serializable](#), [INameConstants](#)

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

Fields inherited from class [com.inqira.infra.InqiraException](#)

[APPLICATION_FATAL](#), [TRANSACTION_PERMANENT](#), [TRANSACTION_RETRY](#), [UNKNOWN](#)

Fields inherited from interface [com.inqira.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.inqira.util.xml.INameConstants](#)

BINARY, TRUE

Constructor Summary

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

Methods inherited from class [com.inquirainfra.InquiriaException](#)

[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.inquirainfra.log.Loggable](#)

[printLogString](#)

Constructors

InquiriaSecurityException

```
public InquiriaSecurityException(String id,
                                Object[] args)
```

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

InquiriaSecurityException

```
public InquiriaSecurityException(String id)
```

(continued from last page)

Creates a new exception with the message id being set.

InqiraSecurityException

```
public InqiraSecurityException(Throwable t)
```

Creates a new exception with the cause being set.

InqiraSecurityException

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

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

InqiraSecurityException

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

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

InqiraSecurityException

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

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

com.inquiria.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.inquiria.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.inquiria.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()
```

(continued from last page)

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.inquiria.infra.client

This package contains common classes and interfaces for the [client](#) abstraction.

com.inquiria.infra.client Class ClientException

```

java.lang.Object
  |
  +- java.lang.Throwable
      |
      +- java.lang.Exception
          |
          +- com.inquiria.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)
```


com.inquirainfra.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` objects, set the configuration and connect them in it's constructor. It is the preferred 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\(\)](#).

(continued from last page)

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.inquiria.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.inquirainfra.client.soap13

Class Client

java.lang.Object

└─com.inquirainfra.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:inquirainfra".

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.inquiria.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
```

(continued from last page)

processToHTML

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

connect

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

disconnect

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

getProcessorAddress

```
public String getProcessorAddress()
```

Package

com.inquirainfra.gateway

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

com.inquiria.infra.gateway Class AgentException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.inquiria.infra.client.ClientException
        |-- com.inquiria.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.inquiria.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)
```

com.inquiria.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.inquirainfra.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.inquiria.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.inquiria.infra.gateway.html

Class AbstractAgent

```

java.lang.Object
  |
  +--com.inquiria.infra.gateway.AbstractAgent
       |
       +--com.inquiria.infra.gateway.html.AbstractAgent
  
```

All Implemented Interfaces:

com.inquiria.log.ILogConstants, IRequestNames, INameConstants, com.inquiria.log.ILogConstants

Direct Known Subclasses:

[Agent](#), [Agent](#)

public abstract class AbstractAgent

extends AbstractAgent

implements com.inquiria.log.ILogConstants, INameConstants, IRequestNames, com.inquiria.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.inquiria.session
public static final	HTTP_SESSION_LANGUAGE_KEY key where the language of the session is stored Value: com.inquiria.language
public static final	REQUEST_BASE_URL Request parameter name for the baseURL for all relative URLs. Value: baseURL

Fields inherited from class com.inquiria.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.inquiria.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.inquiria.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.inquiria.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquiria.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.inquiria.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 HttpServletRequest to the first non-null value detected by the steps below:
String	getBaseURL () Returns the base url parameter to add to the Inquire 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 customized 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() Reloads the XSL templates.
void	setConfiguredBaseURL(String baseUrl, boolean fullBaseUrl) Establishes the base URL that is used for the Inqira 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.inqira.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

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Constant value: **com.inquiria.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.inquiria.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**

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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
```

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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 segment 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**

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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 internal 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
```

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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**

(continued from last page)

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
```

(continued from last page)

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 response 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 response to respond to
context - JSP page context to gain access to web application initialization parameters
httpSession - active http session
out - unused

(continued from last page)

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 response 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 `HttpServletRequest` 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 `HttpServletRequest`! 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()**

(continued from last page)

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.inquiria.request.Response` for java 1.4+ clients and `com.inquiria.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/inquiria/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 Inqira request.

See Also:

[getBaseURL\(\)](#)

getBaseURL

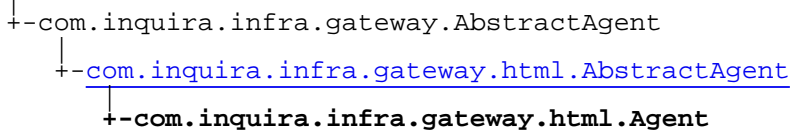
```
public String getBaseURL()
```

Returns the base url parameter to add to the Inqira 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 HTTP 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.inquiria.infra.gateway.html

Class Agent

java.lang.Object



All Implemented Interfaces:

com.inquiria.log.ILogConstants, IRequestNames, INameConstants, com.inquiria.log.ILogConstants, com.inquiria.log.ILogConstants, IRequestNames, INameConstants

public class **Agent**

extends [AbstractAgent](#)

implements [INameConstants](#), [IRequestNames](#), [com.inquiria.log.ILogConstants](#),

[com.inquiria.log.ILogConstants](#), [INameConstants](#), [IRequestNames](#), [com.inquiria.log.ILogConstants](#)

Java based web agent, using an internal [client](#) to access the backend search functionality.

Fields inherited from class [com.inquiria.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.inquiria.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.inquire.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.inquire.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.inquire.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquire.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.inquire.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.inquire.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.inquire.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquire.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.inquire.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	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>Agent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession)</p> <p>Constructor for servlet and JSP based integration.</p>
public	<p>Agent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding)</p> <p>Constructor for servlet and JSP based integration, specifying the request and response character encoding.</p>

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.inquiria.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.inquiria.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.

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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

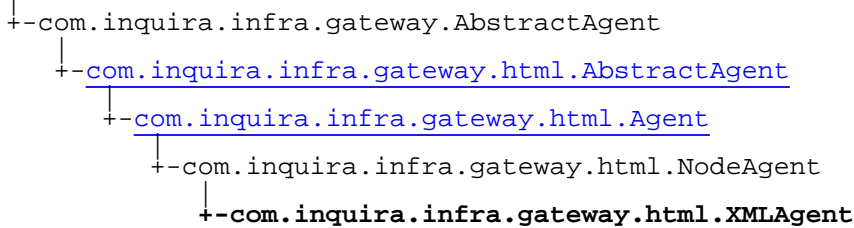
```
public Object handleException(Throwable t,
                               AgentRequest arq,
                               AgentResponse ars)
```

Handles exceptions that occur during processing of the request in the Agent.

com.inquiria.infra.gateway.html

Class XMLAgent

java.lang.Object



All Implemented Interfaces:

com.inquiria.log.ILogConstants, com.inquiria.log.ILogConstants, IRequestNames, INameConstants, com.inquiria.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.inquiria.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.inquiria.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.inquire.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.inquire.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.inquire.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquire.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.inquire.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.inquire.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.inquire.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquiria.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.inquiria.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	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>XMLAgent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession)</p> <p>Constructor for servlet and JSP based integration.</p>
public	<p>XMLAgent(javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding)</p> <p>Constructor for servlet and JSP based integration, specifying the request and response character encoding.</p>

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.inquiria.infra.gateway.html.NodeAgent](#)

[handleException](#), [transformResponse](#)

Methods inherited from class [com.inquiria.infra.gateway.html.Agent](#)

[handleException](#), [transformResponse](#)

Methods inherited from class [com.inquiria.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.inquiria.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.

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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.inquiria.infra.gateway.html13

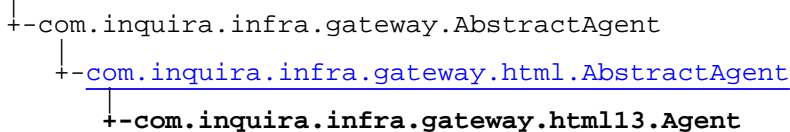
This package contains client HTTP gateway, where the request execution occurs in a remote server instance that is accessed through a [client object](#). The most common usage case is using [SOAP](#) to connect to be backend.

Note: This gateway requires J2SE 1.3 or higher and the container must support servlet spec 2.3 or higher.

com.inquiria.infra.gateway.html13

Class Agent

java.lang.Object



All Implemented Interfaces:

com.inquiria.log.ILogConstants, com.inquiria.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.inquiria.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.inquiria.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.inquire.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.inquire.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.inquire.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquire.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.inquire.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	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>Agent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession)</p> <p>Constructor for servlet and JSP based integration.</p>
public	<p>Agent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding)</p> <p>Constructor for servlet and JSP based integration, specifying the request and response character encoding.</p>

Method Summary

Object	<p>handleException(Throwable t, AgentRequest arq, AgentResponse ars)</p> <p>Handles exceptions that occur during processing of the request in the Agent.</p>
--------	--

static void	log (String msg)
static void	log (String msg, Throwable t)
Object	transformResponse (javax.xml.transform.Templates template, AgentRequest arg, AgentResponse ars) Transforms the response XML to HTML and writes it to the HTTP response.

Methods inherited from class [com.inquire.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.inquire.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)
```

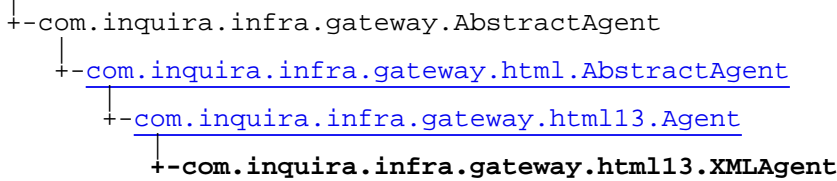
log

```
public static void log(String msg,
                      Throwable t)
```

com.inquiria.infra.gateway.html13

Class XMLAgent

java.lang.Object



All Implemented Interfaces:

com.inquiria.log.ILogConstants, com.inquiria.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.inquiria.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.inquiria.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.inqira.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.inqira.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.inqira.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inqira.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.inquire.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	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>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)</p> <p>Constructor for JSP based integration.</p>
public	<p>XMLAgent(IClient client, javax.servlet.http.HttpServletRequest request, javax.servlet.http.HttpServletResponse response, javax.servlet.ServletConfig config, javax.servlet.http.HttpSession httpSession, String charEncoding)</p> <p>Constructor for servlet and JSP based integration.</p>

Method Summary

Object	<p>handleException(Throwable t, AgentRequest arq, AgentResponse ars)</p>
Object	<p>transformResponse(javax.xml.transform.Templates template, AgentRequest arq, AgentResponse ars)</p> <p>Returns W3C Node object of the response.</p>

Methods inherited from class [com.inquire.infra.gateway.html13.Agent](#)

[handleException](#), [log](#), [log](#), [transformResponse](#)

Methods inherited from class [com.inquiria.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.inquiria.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.

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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.inquirainfra.security

This package contains common classes interfaces that are used throughout the security service implementations.

com.inquiria.infra.security Class ConstantField

```

java.lang.Object
  |
  +- com.inquiria.infra.security.FieldValue
      |
      +- com.inquiria.infra.security.Field
          |
          +- com.inquiria.infra.security.DisplayField
              |
              +- com.inquiria.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.inquiria.infra.security.FieldValue](#)

[instantiator](#)

Fields inherited from interface [com.inquiria.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.inquiria.util.xml.INameConstants](#)

BINARY, TRUE

Fields inherited from interface [com.inquiria.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.inquiria.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.inquiria.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquiria.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.inquire.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.inquire.util.xml. Node	toNode ()
String	toString ()

Methods inherited from class [com.inquire.infra.security.DisplayField](#)

[main](#), [setValue](#), [toNode](#), [toString](#)

Methods inherited from class [com.inquire.infra.security.Field](#)

[clone](#)

Methods inherited from class [com.inquire.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.inquire.util.xml.Node toNode()
```

Serializes itself to XML that can be parsed by [FieldValue.instantiator](#).

com.inquirainfra.security Class ContentPermission

```

java.lang.Object
  |-- java.security.Permission
      |-- java.security.BasicPermission
          |-- com.inquirainfra.security.StandardPermission
              |-- com.inquirainfra.security.SecurityPermission
                  |-- com.inquirainfra.security.ContentPermission

```

All Implemented Interfaces:

Serializable, java.security.Guard, Serializable, [InquiriPermission](#)

```

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.inquirainfra.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.inquirainfra.security.InquiriPermission](#)

[getKey](#)

Constructors

(continued from last page)

ContentPermission

```
public ContentPermission(String name)
```

Constructor that creates a new security permission with the given name.

com.inquiria.infra.security Class DisplayField

```

java.lang.Object
  |
  +- com.inquiria.infra.security.FieldValue
      |
      +- com.inquiria.infra.security.Field
          |
          +- com.inquiria.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.inquiria.infra.security.FieldValue](#)

[instantiator](#)

Fields inherited from interface [com.inquiria.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.inquiria.util.xml.INameConstants](#)

BINARY, TRUE

Fields inherited from interface [com.inquire.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.inquire.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.inquire.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface com.inquire.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.inquiria.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.inquiria.util.xml. Node	toNode ()
String	toString ()

Methods inherited from class [com.inquiria.infra.security.Field](#)

[clone](#)

Methods inherited from class [com.inquiria.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.inquiria.util.xml.Node toNode()
```

Serializes itself to XML that can be parsed by [FieldValue.instantiator](#).

setValue

```
public void setValue(String value)
```

Sets the value.

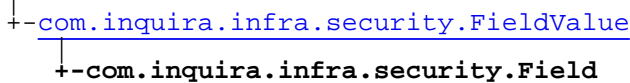
main

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

A simple main method.

com.inquirainfra.security Class Field

java.lang.Object



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.inquirainfra.security.FieldValue](#)

[instantiator](#)

Fields inherited from interface com.inquirainfra.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.inquirainfra.util.xml.INameConstants

BINARY, TRUE

Fields inherited from interface [com.inquirainfra.security.IFieldNames](#)

[FIELD_DISPLAY_NAME](#), [FIELD_DOMAIN](#), [FIELD_ERROR](#), [FIELD_PASSWORD](#), [FIELD_REALM](#), [FIELD_USER_DN](#), [FIELD_USER_ID](#)

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

BINARY, TRUE

Method Summary

Object	clone() Clones the Field object.
--------	---

Methods inherited from class [com.inquiria.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.inquirainfra.security

Class FieldValue

java.lang.Object

↳ **com.inquirainfra.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.inquirainfra.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.inquirainfra.util.xml.INameConstants](#)

BINARY, TRUE

Fields inherited from interface [com.inquirainfra.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.inquiria.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.inquiria.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.inquiria.util.xml.Node toNode()
```

Serializes itself to XML that can be parsed by [instantiator](#).

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.inquiria.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 <code>fieldName</code> with text id <code>fieldValue</code> .
com.inquiria.util.xml. Node	getLoginSpec () Returns an XML { @link com.inquiria.util.xml.Node) that contains the field information for all fields that must be presented to the user for authentication.
com.inquiria.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 <code>fieldName</code> with text id <code>fieldValue</code> .
java.security.Permiss ion	getPermission (String permissionKey) Returns the permission names <code>permissionKey</code> .
Map	getRole2PermissionsMap () Return a map is keyed by the role name and contains <code>java.security.Permissions</code> 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 <code>permissionKey</code> .
IUser	login (FieldValue[] userInfo) Attempts to validate user credentials and returns a fully configured IUser object.
IUser	login (com.inquiria.util.xml.Node userInfo) Attempts to validate user credentials and returns a fully configured IUser object.

```
java.security.Permissions
```

```
refreshUser(IUser user, long timestamp)
```

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 until the user logs out and back in.

Methods

login

```
public IUser login(com.inquiria.util.xml.Node userInfo)
    throws InquiriaSecurityException
```

Attempts to validate user credentials and returns a fully configured [IUser](#) object. If the user cannot be authenticated a [InquiriaSecurityException](#) is thrown.

login

```
public IUser login(FieldValue[] userInfo)
    throws InquiriaSecurityException
```

Attempts to validate user credentials and returns a fully configured [IUser](#) object. If the user cannot be authenticated a [InquiriaSecurityException](#) is thrown.

delegate

```
public IUser delegate(Request request)
    throws InquiriaSecurityException
```

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 InquiriaSecurityException
```

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 InquiriaSecurityException
```

Returns an array of [Field](#) objects that must be presented to the user for authentication.

getLoginSpec

```
public com.inquiria.util.xml.Node getLoginSpec(String fieldName,
    String fieldValue)
    throws InquiriaSecurityException
```

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`.

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getLoginSpec

```
public com.inquiria.util.xml.Node getLoginSpec()  
    throws InquiriaSecurityException
```

Returns an XML {[@link com.inquiria.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 InquiriaSecurityException
```

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 until the user logs out and back in.

com.inquirainfra.security Interface IAuthenticator

All Subinterfaces:

[IDelegationAuthenticator](#)

public interface **IAuthenticator**

Defines all methods required for all authentication modules.

Method Summary

IUser	authenticate (FieldValue[] userInfo, Map roles2PermissionsMap, long timestamp) Returns a User object if the authentication is successful, otherwise throws InquiriaAuthnticationException.
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 authenticator can handle.

Methods

authenticate

```
public IUser authenticate(FieldValue\[\] userInfo,
    Map roles2PermissionsMap,
    long timestamp)
    throws InquiriaAuthenticationException
```

Returns a User object if the authentication is successful, otherwise throws InquiriaAuthnticationException.

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 [InquiriaAuthenticationException](#) must be throw.
Note: `null` is not a valid return value.

getAuthenticationFields

```
public Field\[\] getAuthenticationFields()
    throws InquiriaAuthenticationException
```

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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 InquiriaAuthenticationException
{
    return authenticationFields;
}
```

getDomain

```
public String getDomain()
```

Returns the domain name this authenticator can handle.

com.inquirainfra.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	<p>delegate(FieldValue[] userInfo, java.security.Principal principal, Map roles2PermissionsMap, long timestamp)</p> <p>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.</p>
Field[]	<p>getAuthenticationFields()</p> <p>If a delegation authenticator returns an empty array of Field objects, then it will not be available for authentication.</p>

Methods inherited from interface [com.inquirainfra.security.IAuthenticator](#)

[authenticate](#), [getAuthenticationFields](#), [getDomain](#)

Methods

getAuthenticationFields

```
public Field\[\] getAuthenticationFields()
    throws InquiriaAuthenticationException
```

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 InquiriaAuthenticationException
```

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 principl 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.

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`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.inquiria.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.inquiria.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
```

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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.inquiria.infra.security Class InputField

```

java.lang.Object
  |
  +- com.inquiria.infra.security.FieldValue
      |
      +- com.inquiria.infra.security.Field
          |
          +- com.inquiria.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.inquiria.infra.security.FieldValue](#)

[instantiator](#)

Fields inherited from interface [com.inquiria.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.inquiria.util.xml.INameConstants](#)

BINARY, TRUE

Fields inherited from interface [com.inquiria.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.inquiria.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.inquiria.util.xml.INameConstants`

BINARY, TRUE

Fields inherited from interface `com.inquiria.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.inquire.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.inquiria.util.xml. Node	toNode()
String	toString()

Methods inherited from class [com.inquiria.infra.security.Field](#)

[clone](#)

Methods inherited from class [com.inquiria.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.inquiria.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.inquiria.infra.security

Class InquiriaAuthenticationException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.inquiria.infra.InquiriaException
        |-- com.inquiria.infra.InquiriaSecurityException
          |-- com.inquiria.infra.security.InquiriaAuthenticationException

```

All Implemented Interfaces:

[INameConstants](#), [Serializable](#), [com.inquiria.log.Loggable](#), [INameConstants](#)

```

public class InquiriaAuthenticationException
extends InquiriaSecurityException
implements INameConstants, com.inquiria.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.inquiria.infra.InquiriaException](#)

[APPLICATION_FATAL](#), [TRANSACTION_PERMANENT](#), [TRANSACTION_RETRY](#), [UNKNOWN](#)

Fields inherited from interface [com.inquiria.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.inquiria.util.xml.INameConstants](#)

BINARY, TRUE

Fields inherited from interface com.inquiria.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.inquiria.util.xml.INameConstants

BINARY, TRUE

Constructor Summary

public	InquiriaAuthenticationException (String id, Object[] args) Creates a new exception with the message id and arguments set.
public	InquiriaAuthenticationException (String id) Creates a new exception with the message id set.
public	InquiriaAuthenticationException (Throwable t) Creates a new exception with the cause being set.
public	InquiriaAuthenticationException (String msg, Throwable t) Creates a new exception with the message id and cause set.
public	InquiriaAuthenticationException (Object[] args, Throwable t) Creates a new exception with the arguments and cause set.
public	InquiriaAuthenticationException (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.inquire.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.inquire.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.inquire.infra.InquireException](#)

[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.inquire.log.Loggable](#)

[printLogString](#)

Constructors

InquireAuthenticationException

```
public InquireAuthenticationException(String id,
                                     Object[] args)
```

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

InquireAuthenticationException

```
public InquireAuthenticationException(String id)
```

Creates a new exception with the message id set.

InquireAuthenticationException

```
public InquireAuthenticationException(Throwable t)
```

Creates a new exception with the cause being set.

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InquiriaAuthenticationException

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

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

InquiriaAuthenticationException

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

Creates a new exception with the arguments and cause set.

InquiriaAuthenticationException

```
public InquiriaAuthenticationException(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.inquiria.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.inquiria.util.xml.Node getLoginSpec(Field[] fields)
```

Utility methods to create the XML login specs for for the array of login fields.

com.inquiria.infra.security Interface InquiriaPermission

All Known Implementing Classes:
[StandardPermission](#)

public interface **InquiriaPermission**

This interface must be implemented by all Inquiria-specific permission classes.

Method Summary

String	getKey() Returns the key for a given permission.
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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.inquirainfra.security Class SecurityPermission

```

java.lang.Object
  |
  +- java.security.Permission
      |
      +- java.security.BasicPermission
          |
          +- com.inquirainfra.security.StandardPermission
              |
              +- com.inquirainfra.security.SecurityPermission
  
```

All Implemented Interfaces:

Serializable, java.security.Guard, Serializable, [InquiriPermission](#)

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 that makes this class name undesirable, thus it is now an abstract class and we introduced the [ContentPermission](#) class instead.

Methods inherited from class [com.inquirainfra.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.inquirainfra.security.InquiriPermission](#)

[getKey](#)

com.inquirainfra.security Class StandardPermission

```

java.lang.Object
  |-- java.security.Permission
        |-- java.security.BasicPermission
              |-- com.inquirainfra.security.StandardPermission
  
```

All Implemented Interfaces:

[InquiriPermission](#), Serializable, java.security.Guard, Serializable

Direct Known Subclasses:

[SecurityPermission](#)

```

public class StandardPermission
extends java.security.BasicPermission
implements Serializable, java.security.Guard, Serializable, InquiriPermission
  
```

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.inquirainfra.security.InquiriPermission](#)

[getKey](#)

Constructors

StandardPermission

```
public StandardPermission(String name)
```

Constructor that creates a new security permission with the given name.

Methods

getKey

```
public String getKey()
```

com.inquiria.infra.security Class UserAttribute

java.lang.Object

└-com.inquiria.util.IQEnum

└-com.inquiria.infra.security.UserAttribute

All Implemented Interfaces:

Serializable

public class **UserAttribute**
extends com.inquiria.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.inquiria.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.inquirainfra.security.UserAttribute FIRST_NAME
```

User attribute for the user's first name.

LAST_NAME

```
public static transient com.inquirainfra.security.UserAttribute LAST_NAME
```

User attribute for the user's last name.

MIDDLE_INITIAL

```
public static transient com.inquirainfra.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.inquirainfra.trnsp

This package contains common classes interfaces that are used throughout the transport implementations.

com.inquirainfra.trnsp Class TransportException

```

java.lang.Object
  |
  +- java.lang.Throwable
    |
    +- java.lang.Exception
      |
      +- com.inquirainfra.InquireException
        |
        +- com.inquirainfra.trnsp.TransportException
  
```

All Implemented Interfaces:

Serializable, com.inquirainfra.log.Loggable

```

public class TransportException
extends InquireException
  
```

This class and its subclasses are thrown while trying to locate and access services.

Fields inherited from class [com.inquirainfra.InquireException](#)

[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.inquirainfra.InquireException](#)

[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.inquiria.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.inquiranavigate

com.inquiranavigate Class NavigationException

```

java.lang.Object
  |
  +- java.lang.Throwable
    |
    +- java.lang.Exception
      |
      +- com.inquirainfra.InquireaException
        |
        +- com.inquiranavigate.NavigationException
  
```

All Implemented Interfaces:

Serializable, com.inquiralog.Loggable

```

public class NavigationException
extends InquireaException
  
```

NavigationException

Fields inherited from class [com.inquirainfra.InquireaException](#)

[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.inquirainfra.InquireaException](#)

[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.inquiranavigate.log.LoggableprintLogString

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.inquiranavigate.classify

com.inquiranavigate.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.inquiranavigate.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

(continued from last page)

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.inquiranavigate.index.MatchLite classify(String type)
    throws InquireException
```

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:

[InquireException](#)

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

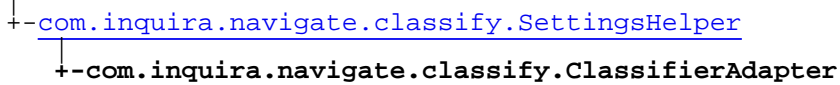
Returns:

a boolean

com.inquire.navigate.classify

Class ClassifierAdapter

java.lang.Object



All Implemented Interfaces:

Cloneable, [Classifier](#), com.inquire.util.PublicCloneable, com.inquire.util.SettingUser

Direct Known Subclasses:

[UnstructuredClassifierAdapter](#), [StructuredClassifierAdapter](#)

public abstract class **ClassifierAdapter**

extends [SettingsHelper](#)

implements com.inquire.util.SettingUser, com.inquire.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.inquiranavigate.util.Setting	getCollectionSetting() Returns a setting for selecting a collection.
static com.inquiranavigate.util.Setting	getCollectionsSetting() Returns a setting for selecting multiple collections.
static com.inquiranavigate.util.Setting	getCollectionsSetting(boolean multi) Returns a setting for selecting one or multiple collections.
static com.inquiranavigate.util.Setting	getConfigSetting(String id, Object defaultValue, String configKey, boolean advanced) Returns a setting based on a configuration item.
String	getDescription()
Facet	getFacet()
static com.inquiranavigate.util.Setting	getFormatterSetting() Returns a setting for choosing a facet formatter.
static com.inquiranavigate.util.Setting	getFormattersSetting() Returns a setting for choosing multiple facet formatters.
String	getName()
static com.inquiranavigate.util.Setting	getParasiteSetting() Returns a setting for choosing a parasitic classifier
static com.inquiranavigate.util.Setting	getSorterSetting() Returns a setting for choosing facet sorter.
static com.inquiranavigate.util.Setting	getSortersSetting() Returns a setting for choosing multiple facet sorters.
static com.inquiranavigate.util.Setting	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.inquiranavigate.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.inquiranavigate.util.SettingUser

[getSettings](#), [setSetting](#), [setSettings](#)

Methods inherited from interface com.inquiranavigate.util.PublicCloneable

[clone](#)

Methods inherited from interface [com.inquiranavigate.classify.Classifier](#)

[classify](#), [clone](#), [getClassifiedCollections](#), [getDescription](#), [getFacet](#), [getName](#), [inEffect](#), [isAdHoc](#), [isAdvanced](#), [rangeBased](#), [setFacet](#), [toString](#)

Methods inherited from interface com.inquiranavigate.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**

(continued from last page)

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()
```

(continued from last page)

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.inquiranavigate.util.Setting getParasiteSetting()  
    throws NavigationException
```

Returns a setting for choosing a parasitic classifier

Returns:

a Setting

Throws:

[NavigationException](#)

(continued from last page)

getTaxonomyBuilderSetting

```
public static com.inquire.util.Setting getTaxonomyBuilderSetting()  
    throws NavigationException
```

Returns a setting for choosing a taxonomy builder

Returns:

a Setting

Throws:

[NavigationException](#)

getSorterSetting

```
public static com.inquire.util.Setting getSorterSetting()  
    throws NavigationException
```

Returns a setting for choosing facet sorter.

Returns:

a Setting

Throws:

[NavigationException](#)

getSortersSetting

```
public static com.inquire.util.Setting getSortersSetting()  
    throws NavigationException
```

Returns a setting for choosing multiple facet sorters.

Returns:

a Setting

Throws:

[NavigationException](#)

getFormattersSetting

```
public static com.inquire.util.Setting getFormattersSetting()  
    throws NavigationException
```

Returns a setting for choosing multiple facet formatters.

Returns:

a Setting

Throws:

[NavigationException](#)

getFormatterSetting

```
public static com.inquire.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.inquiria.util.Setting getCollectionSetting()  
    throws NavigationException
```

Returns a setting for selecting a collection.

Returns:

a Setting

Throws:[NavigationException](#)

getCollectionsSetting

```
public static com.inquiria.util.Setting getCollectionsSetting()  
    throws NavigationException
```

Returns a setting for selecting multiple collections.

Returns:

a Setting

Throws:[NavigationException](#)

getCollectionsSetting

```
public static com.inquiria.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.inquiria.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

(continued from last page)

defaultValue - an Object
configKey - a String
advanced - a boolean

Returns:

a Setting

Throws:

[NavigationException](#)

com.inquiranavigate.classify

Class SettingsHelper

java.lang.Object

↳ com.inquiranavigate.classify.SettingsHelper

All Implemented Interfaces:

com.inquiranavigate.util.PublicCloneable, com.inquiranavigate.util.SettingUser

Direct Known Subclasses:

[StringTaxonomyBuilder](#), [ClassifierAdapter](#)

public abstract class **SettingsHelper**

extends Object

implements com.inquiranavigate.util.SettingUser, com.inquiranavigate.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.inquiranavigate.util.Setting[]	getSettings() Returns all settings.

com.inquiranavigate.util.SettingsHelper	getSettings (boolean convertIdDescriptions) Returns all settings.
com.inquiranavigate.util.SettingsHelper	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 of a setting.
void	setSettings (com.inquiranavigate.util.SettingsHelper 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.inquiranavigate.util.SettingUser

getSettings, setSetting, setSettings

Methods inherited from interface com.inquiranavigate.util.PublicCloneable

clone

Constructors

SettingsHelper

public SettingsHelper()

Methods

hasSetting

public boolean hasSetting(String id)

Returns true if the setting exists.

(continued from last page)

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.inquiranavigate.util.Setting[] getSettings()
```

Returns all settings.

Returns:

a Setting[]

getSettings

```
public com.inquiranavigate.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.inquiranavigate.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

(continued from last page)

Returns:

an Object

setSettings

```
public void setSettings(com.inquiranavigate.util.Setting[] settings)
```

Sets the settings.

Parameters:

settings - a Setting[]

setSetting

```
public void setSetting(String id,  
    Object value)
```

Sets the value of a 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.

(continued from last page)

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:

(continued from last page)

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

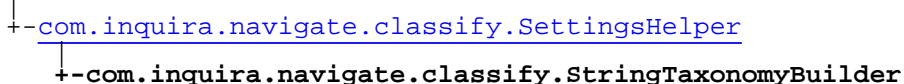
```
public boolean equals(Object o)
```

hashCode

```
public int hashCode()
```

com.inquiranavigate.classify Class StringTaxonomyBuilder

java.lang.Object



All Implemented Interfaces:

[TaxonomyBuilder](#), com.inquiranavigate.util.PublicCloneable, com.inquiranavigate.util.SettingUser

public class **StringTaxonomyBuilder**

extends [SettingsHelper](#)

implements com.inquiranavigate.util.SettingUser, com.inquiranavigate.util.PublicCloneable, [TaxonomyBuilder](#)

StringTaxonomyBuilder is the most basic of taxonomy builders. It constructs 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.inquiranavigate.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.inquiranavigate.util.SettingUser

[getSettings](#), [setSetting](#), [setSettings](#)

Methods inherited from interface [com.inquiranavigate.util.PublicCloneable](#)

clone

Methods inherited from interface [com.inquiranavigate.classify.TaxonomyBuilder](#)[createTaxonomy](#)**Methods inherited from interface** [com.inquiranavigate.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
```

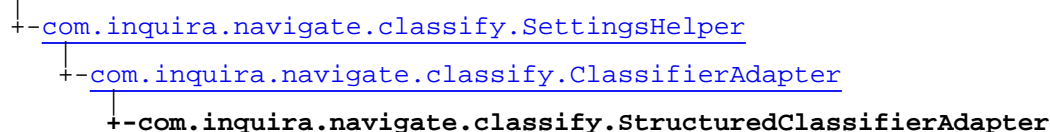
(continued from last page)

toString

```
public String toString()
```

com.inquiranavigate.classify Class StructuredClassifierAdapter

java.lang.Object



All Implemented Interfaces:

StructuredClassifier, com.inquiranavigate.util.PublicCloneable, com.inquiranavigate.util.SettingUser, Cloneable, [Classifier](#)

public abstract class **StructuredClassifierAdapter**

extends [ClassifierAdapter](#)

implements [Classifier](#), Cloneable, com.inquiranavigate.util.SettingUser, com.inquiranavigate.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.inquiranavigate.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.inquiranavigate.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.inquiranavigate.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.inquiranavigate.util.SettingUser

getSettings, setSetting, setSettings

Methods inherited from interface com.inquiranavigate.util.PublicCloneable

clone

Methods inherited from interface [com.inquiranavigate.classify.Classifier](#)

[classify](#), [clone](#), [getClassifiedCollections](#), [getDescription](#), [getFacet](#), [getName](#), [inEffect](#), [isAdHoc](#), [isAdvanced](#), [rangeBased](#), [setFacet](#), [toString](#)

Methods inherited from interface com.inquiranavigate.util.SettingUser

getSettings, setSetting, setSettings

Methods inherited from interface com.inquiranavigate.classify.StructuredClassifier

getUsedFields

Methods inherited from interface [com.inquiranavigate.classify.Classifier](#)

[classify](#), [clone](#), [getClassifiedCollections](#), [getDescription](#), [getFacet](#), [getName](#), [inEffect](#), [isAdHoc](#), [isAdvanced](#), [rangeBased](#), [setFacet](#), [toString](#)

Methods inherited from interface com.inquiranavigate.util.SettingUser

getSettings, setSetting, setSettings

Fields

TABLE_LABEL

```
public static final java.lang.String TABLE_LABEL
```

Constant value: **TABLE**

Constructors

StructuredClassifierAdapter

```
public StructuredClassifierAdapter()
```

Methods

(continued from last page)

getClassifiedCollections

```
public Set getClassifiedCollections()
```

com.inquiranavigate.classify Interface TaxonomyBuilder

All Known Implementing Classes:

[StringTaxonomyBuilder](#)

public interface **TaxonomyBuilder**
extends com.inquiranavigate.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.inquiranavigate.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`.

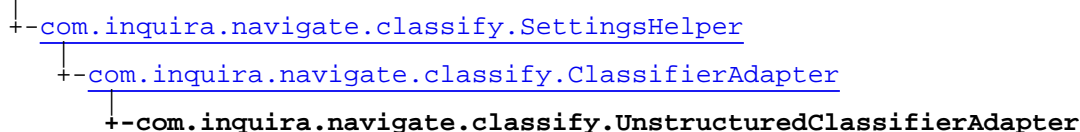
Throws:

[NavigationException](#)

com.inquiranavigate.classify

Class UnstructuredClassifierAdapter

java.lang.Object



All Implemented Interfaces:

com.inquiranavigate.util.PublicCloneable, com.inquiranavigate.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.inquiranavigate.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.inquiranavigate.index.MatchLite	executeIML (String iml) Executes the given iml on all collections.
com.inquiranavigate.index.MatchLite	executeIML (String iml, List collections) Returns the results of an IML query
com.inquiranavigate.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.inquire.util.StringSet	getSearchableCollections() find just the collections that are unstructured searchable.
boolean	isAdHoc()

Methods inherited from class [com.inquire.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.inquire.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.inquire.util.SettingUser

[getSettings](#), [setSetting](#), [setSettings](#)

Methods inherited from interface com.inquire.util.PublicCloneable

[clone](#)

Methods inherited from interface [com.inquire.navigate.classify.Classifier](#)

[classify](#), [clone](#), [getClassifiedCollections](#), [getDescription](#), [getFacet](#), [getName](#), [inEffect](#), [isAdHoc](#), [isAdvanced](#), [rangeBased](#), [setFacet](#), [toString](#)

Methods inherited from interface com.inquire.util.SettingUser

[getSettings](#), [setSetting](#), [setSettings](#)

Constructors

UnstructuredClassifierAdapter

```
public UnstructuredClassifierAdapter()
```

Methods

isAdHoc

```
public boolean isAdHoc()
```


(continued from last page)

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.inquiria.util.StringSet getSearchableCollections()  
throws InquiriaException
```

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.inquiria.retrieve.index.MatchLite executeIML(String iml,  
    List collections)  
throws InquiriaException
```

Returns the results of an IML query

Parameters:

(continued from last page)

iml - a String

Returns:

a MatchLite

Throws:

[InquireException](#)

executeIML

```
public com.inquiranavigate.index.MatchLite executeIML(String iml,  
String collection)  
throws InquireException
```

Executes the given iml on a single collection

Parameters:

iml - a String

collection - a String

Returns:

a MatchLite

Throws:

[InquireException](#)

executeIML

```
public com.inquiranavigate.index.MatchLite executeIML(String iml)  
throws InquireException
```

Executes the given iml on all collections.

Parameters:

iml - a String

Returns:

a MatchLite

Throws:

[InquireException](#)

com.inquiranavigate.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.inquiranavigate.retrieve.newIndex.ExtraDocData edd)
------	---

Methods

execute

```
public void execute(int docID,  
                    com.inquiranavigate.retrieve.newIndex.ExtraDocData edd)  
    throws NavigationException
```

Package **com.inquirapreference**

This package contains the implementation for the [preference service](#) implementation.

com.inquirapreference Class AbstractProvider

java.lang.Object

└─com.inquirapreference.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

(continued from last page)

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 specifying 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.inquiria.preference

Class Preference

java.lang.Object

└─com.inquiria.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 preference.
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 provided 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
```

(continued from last page)

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:

(continued from last page)

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.

(continued from last page)

Returns:

the traversal type.

getCacheLevel

```
public int getCacheLevel()
```

Returns the cache level that is defined for this preference.

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 representation 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 object.

setPurpose

```
public void setPurpose(String purpose)
```

Set the purpose for this preference.

Parameters:

purpose - This argument specifies the purpose of this preference.

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.inquiria.bizrules.Symbol

getDataTypeClass

```
public String getDataTypeClass()
```

Returns the type name of the value for this preference.

Returns:

the data type name.

com.inquirapreference 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. One 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 <i>code</i> argument and the string value to <i>code.toString()</i> 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 established.

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:

(continued from last page)

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.

(continued from last page)

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
```

(continued from last page)

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.inquirapreference

Class PreferenceValue

java.lang.Object

└─com.inquirapreference.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()
```

(continued from last page)

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.

(continued from last page)

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.inquiraprep

com.inquiraprep Interface PreprocessingFilter

All Known Implementing Classes:
[PreprocessingFilterAdapter](#)

public interface **PreprocessingFilter**

Defines methods to customize document conversion (preprocessing).

Method Summary

String	postprocessDocument (Document document, CollectionConfig collection, com.inquiraprep.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 based 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.inquiraprep.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.inquiraprep Class PreprocessingFilterAdapter

java.lang.Object

↳ com.inquiraprep.PreprocessingFilterAdapter

All Implemented Interfaces:

[PreprocessingFilter](#)

public class **PreprocessingFilterAdapter**

extends Object

implements [PreprocessingFilter](#)

Adapter 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.inquiraprep.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.inquiraprep.PreprocessingFilter](#)

[postprocessDocument](#), [preprocessDocument](#)

Methods

preprocessDocument

```
public void preprocessDocument(Document document,
    CollectionConfig collection)
    throws PreprocessingException
```

postprocessDocument

```
public String postprocessDocument(Document document,
    CollectionConfig collection,
    com.inquiraprep.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.

Package **com.inquirar.request**

This package contains classes used during request handling.

com.inquirarequest 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.inquirarequest Class HandlerException

```

java.lang.Object
  |-- java.lang.Throwable
    |-- java.lang.Exception
      |-- com.inquirainfra.InquiraException
        |-- com.inquirarequest.HandlerException
  
```

All Implemented Interfaces:

Serializable, com.inquiralog.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.inquirainfra.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 response that is to be sent to the user agent for display to the user.
----------	--

Methods inherited from class [com.inquirainfra.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.inquirarequest.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 response that is to be sent to the user agent for display to the user.

com.inquirarequest 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.inquirarequest.Handler](#)

[handle](#)

Methods

getHandlerName

public String **getHandlerName()**

Returns the name of this handler.

com.inquirarequest Class RequestContext

java.lang.Object

↳ com.inquirarequest.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.inquirarequest.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.inquirarequest.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 <code>cookie</code> .
------	---

void	addDeferredAction (Action action) Add a new deferred action.
void	addFollowupSentenceInformation (com.inquirarequest.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.inquirarequest.util.xml.Node node) Adds the given node so that it will included in the response generated from this RequestContext.
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 <code>getActionCode</code> .
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 <code>getAnswerId</code> .
int[]	getAnswerRelatedIds () Returns the answer id for this request by calling <code>getAnswerId</code> .
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.inquirarequest.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 transaction id for navigation requests by calling <code>getFacetPriorTransactionId()</code> .
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.inquirarequest.analysis.followup.FollowupSentenceInformation	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 discussion boards/forums, as a comma separates list of discussion 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.inquirarequest.util.il8n.Language	getLanguage() Returns the language for the system as specified in the UI.
QuestionEntry	getLastestQuestionEntry() Returns the question entry for the latest question.
com.inquirarequest.util.xml.Node	getLoginValues() Returns the authentication values provided by the user.
int	getMaxSimilarResults() Returns the maximum similar results for this request by calling <code>getMaxSimilarResults</code> .
NavigationHistory	getNavigationHistory() Retrieves an existing <code>com.inquirarequest.navigate.impl.NavigationHistory</code> or creates a new one if it does not exist.
String	getNextRequestParameter() Returns the name of the next request to be executed after succesful authentication.
Object	getObject(String key) Returns the object represented by the child node named <code>key</code> .
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.inquirarequest.util.xml.Node	getParameters() Returns the values node from the underlying request by calling <code>values()</code> .

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 <code>getPriorTransactionId</code> .
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 <code>QuestionHistory</code> 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.inquirarequest.retrieve.index.RelativeWeights	getRelativeWeights () Returns the <code>com.inquirarequest.retrieve.index.RelativeWeights</code> 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 response 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 <code>Collection</code> of restricted attribute used in unstructured search
Collection	getRestrictedCollections () Returns the <code>Collection</code> of restricted collections used in unstructured search

String	getRestrictedFacets() Returns the restricted facets used in unstructured search
com.inquiraretrieve.index.ScopeWeights	getScopeWeights() Sets the com.inquiraretrieve.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.inquiranlp.Sentence	getSentence() Returns the com.inquiranlp.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.inquirarequest.util.i18n.Language lang) Establishes the original user question for an answer question request.
void	setOriginalQuestion(int priorTransactionId, int transactionId, String oldQuestion, com.inquirarequest.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	<u>setPrincipal</u> (java.security.Principal principal) Sets the security principal on the underlying request by calling <code>setPrincipal(Principal)</code> .
void	<u>setPriorTransactionId</u> (int newPriorTransactionId) Sets the prior transaction id on the underlying request by calling <code>setPriorTransactionId(int)</code> .
void	<u>setPurposeAttributes</u> (String purpose, HashMap attrs) Sets the attributes on a per-purpose basis.
void	<u>setQuestion</u> (String question) Sets the question to be used for further processing.
void	<u>setQuestionType</u> (String type) Sets the question type for the last <code>QuestionEntry</code> in the <code>QuestionHistory</code> .
void	<u>setRelativeWeights</u> (com.inquiraretrieve.index.RelativeWeights weights) Sets the <code>com.inquiraretrieve.index.RelativeWeights</code> for an answer question request.
void	<u>setResponseNode</u> (com.inquirarequest.util.xml.Node node) Appends the node or replaces the first existing node with the same name.
void	<u>setRestart</u> (String newRequestType) Sets the request type to be restarted.
void	<u>setRestartCount</u> (Integer count) Sets the number of times the answer question process was restarted due to changes made to the processing parameters.
void	<u>setRestrictedAttributes</u> (Collection attributes) Sets the collection of attributes used to restrict unstructured search.
void	<u>setRestrictedCollections</u> (Collection collection) Sets the collection of collections used to restrict unstructured search.
void	<u>setRestrictedFacets</u> (String facets) Sets the facets used to restrict search.
void	<u>setScopeWeights</u> (com.inquiraretrieve.index.ScopeWeights weights) Sets the <code>com.inquiraretrieve.index.ScopeWeights</code> for an answer question request.
void	<u>setSearchResults</u> (Collection results) Sets the search results for an answer question request.
void	<u>setSentence</u> (com.inquiranlp.Sentence sentence) Sets the sentence for an answer question request.
void	<u>setType</u> (String requestType) Sets the request type on the underlying request.
void	<u>setUserAgentRequestAttribute</u> (String name, String value) Sets the user agent request attribute.
void	<u>setUserAgentRequestParameter</u> (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
```

(continued from last page)

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 superseded 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**

(continued from last page)

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.

(continued from last page)

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.inquirarequest.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`.

(continued from last page)

getSession

```
public Session getSession()  
    throws com.inquirarequest.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 `getQuestionType` 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()
```

(continued from last page)

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.inquirarequest.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.inquirarequest.nlp.Sentence **getSentence()**

Returns the com.inquirarequest.nlp.Sentence object for an answer question request.

getScopeWeights

public com.inquirarequest.retrieve.index.ScopeWeights **getScopeWeights()**

Sets the com.inquirarequest.retrieve.index.RelativeWeights for an answer question request.

getRelativeWeights

public com.inquirarequest.retrieve.index.RelativeWeights **getRelativeWeights()**

Returns the com.inquirarequest.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.inquirarequest.util.i18n.Language **getLanguage()**

Returns the language for the system as specified in the UI.

(continued from last page)

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 transaction id for navigation requests by calling `getFacetPriorTransactionId()`.

getAnswerTransactionId

```
public int getAnswerTransactionId()
```

(continued from last page)

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)
```

(continued from last page)

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.inquirarequest.analysis.followup.FollowupSentenceInformation sentence)
```

Establishes the information so that we can do follow up type logic on the next request.

getFollowupSentenceInformation

```
public com.inquirarequest.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 transaction id so that we can log the original transaction id for the user's original answer question request.

setOriginalQuestion

```
public void setOriginalQuestion(int priorTransactionId,  
int transactionId,  
String oldQuestion,  
com.inquirarequest.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.inquirarequest.response.ResultState` in this `RequestContext`.

setOriginalQuestion

```
public void setOriginalQuestion(int priorTransactionId,  
int transactionId,  
String oldQuestion,  
com.inquirarequest.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.inquirarequest.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.inquirarequest.nlp.Sentence sentence)
```

Sets the sentence for an answer question request.

setRelativeWeights

```
public void setRelativeWeights(com.inquirarequest.retrieve.index.RelativeWeights weights)
```

Sets the `com.inquirarequest.retrieve.index.RelativeWeights` for an answer question request.

setScopeWeights

```
public void setScopeWeights(com.inquirarequest.retrieve.index.ScopeWeights weights)
```

Sets the `com.inquirarequest.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)
```

(continued from last page)

Sets the facets used to restrict search.

addResponseNode

```
public void addResponseNode(com.inquirarequest.util.xml.Node node)
```

Adds the given node so that it will included in the response generated from this RequestContext.

See Also:

[setResponseNode\(Node\)](#)

setResponseNode

```
public void setResponseNode(com.inquirarequest.util.xml.Node node)
```

Appends the node or replaces the first existing node with the same name.

See Also:

[addResponseNode\(Node\)](#)

getResponseNodes

```
public List getResponseNodes()
```

Retrieves a list of all response 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:

(continued from last page)

[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 InquirarequestSecurityException
```

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.inquirarequest.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.

(continued from last page)

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()
```

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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.inquirarequest.util.xml.BinaryNode getDistributedQueryInput()
```

Returns the data needed by a query worker to process a distributed search request.

getLoginValues

```
public com.inquirarequest.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 successful 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.

(continued from last page)

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 discussion boards/forums, as a comma separates list of discussion 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()
```

(continued from last page)

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()
```

(continued from last page)

getExtIds

```
public String getExtIds()
```

Package
com.inquirator.util.security

This package contains utility classes for security related areas.

com.inquiria.util.security Class SimplePrincipal

java.lang.Object

└─com.inquiria.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

(continued from last page)

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.