



Cisco Collaboration Server Dynamic Content Adapter

Version 2.01

Parser API Specification

Provides the specification for the Cisco Dynamic Content Adapter
2.01 parser API.

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About this Document

This document provides the specification for the Cisco Dynamic Content Adapter 2.01 parser API. It contains the sections described below. For more information on the DCA parser, see the *DCA 2.01 Administration and Configuration Guide*.

Class/Interface

Each class, interface, inner class and inner interface has its own separate section. Each of these has three sub-sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- Class inheritance diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class/interface declaration
- Class/interface description

- Inner Class Summary
- Field Summary
- Constructor Summary
- Method Summary

- Field Detail
- Constructor Detail
- Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Tree (Class Hierarchy)

There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with `java.lang.Object`. The interfaces do not inherit from `java.lang.Object`.

Deprecated API

The Deprecated API page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

Index

The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API.

Class JSTagURL

`com.cisco.proxy.rules.JSTagURL`

public class **JSTagURL**

Class providing URL formatting functions for use in the Rhino JavaScript environment. To use the functions provided by this object, it must first be added to the script environment. Functions exposed to JavaScript conform to the following naming convention: `jsFunction_<JavaScript function name>`. For more information, see the Rhino documentation.

Constructor Summary

[JSTagURL](#)()

Constructor for the JSTagURL object

[JSTagURL](#)(java.lang.String tagURLString, java.lang.Object documentURL)

Constructor for the JSTagURL object

Method Summary

java.lang.String	getClassName ()
	Gets the className attribute of the JSTagURL object
java.lang.String	jsFunction buildCacheLink (java.lang.Object requestData)
	Builds a link that will point to the cache on the DCA.

java.lang.String	jsFunction buildCompleteLink (java.lang.Object requestData) Builds a complete, DCA-referencing link based on this object and the request data supplied.
java.lang.String	jsFunction getAnchor () Returns the anchor/ref of the URL, if there is one.
java.lang.String	jsFunction getFullTagURL (boolean usesBaseHref) Recreates the original URL, based on the document URL if necessary.
java.lang.String	jsFunction getPath () Returns the path of the URL, including the file name.
java.lang.String	jsFunction getQuery () Returns the URL's query string.
java.lang.String	jsFunction toString () Description of the Method

Constructor Detail

JSTagURL

```
public JSTagURL()
```

Constructor for the JSTagURL object

Since:

2.0

JSTagURL

```
public JSTagURL(java.lang.String tagURLString,  
                java.lang.Object documentURL)
```

Constructor for the JSTagURL object

Parameters:

tagURLString - Description of Parameter

documentURL - Description of Parameter

Since:

2.0

Method Detail

getClassName

```
public java.lang.String getClassName()
```

Gets the className attribute of the JSTagURL object

Returns:

The className value

Since:

2.0

jsFunction_getFullTagURL

```
public java.lang.String jsFunction_getFullTagURL(boolean usesBaseHref)
```

Recreates the original URL, based on the document URL if necessary.

Parameters:

`usesBaseHref` - If this parameter is true, the returned URL will be relative to the document URL supplied during construction. If false, a fully qualified URL is returned.

Returns:

Returns a reformatted URL

Since:

2.0

jsFunction_buildCacheLink

```
public java.lang.String  
jsFunction_buildCacheLink(java.lang.Object requestData)
```

Builds a link that will point to the cache on the DCA. The cache should be used to hold static objects like images that do not require any parsing.

Parameters:

`requestData` - Description of Parameter

Returns:

Description of the Returned Value

Since:

2.0

jsFunction_buildCompleteLink

```
public java.lang.String  
jsFunction_buildCompleteLink(java.lang.Object requestData)
```

Builds a complete, DCA-referencing link based on this object and the request data supplied. The returned URL will include any required DCA parameters, such as the serial number. It will also provide the correct protocol and port numbers. This function should only be used for links that are intended to go back through the DCA when they are accessed.

Parameters:

`requestData` - Request parameters used to format the returned link, determining which port is used based on request protocol, for example.

Returns:

Returns a fully qualified DCA referencing URL.

Since:

2.0

jsFunction_getAnchor

```
public java.lang.String jsFunction_getAnchor()
```

Returns the anchor/ref of the URL, if there is one. If there is not one, an empty string is returned.

Returns:

Returns the URL's anchor

Since:

2.0

jsFunction_getPath

```
public java.lang.String jsFunction_getPath()
```

Returns the path of the URL, including the file name.

Returns:

Returns the URL path

Since:

2.0

jsFunction_getQuery

```
public java.lang.String jsFunction_getQuery()
```

Returns the URL's query string. If there is no query string, an empty string is returned.

Returns:

Returns the URL's query string

Since:

2.0

jsFunction_toString

```
public java.lang.String jsFunction_toString()
```

Description of the Method

Returns:

Description of the Returned Value

Since:

2.0

Class JSTextSearch

`com.cisco.proxy.rules.JSTextSearch`

public class **JSTextSearch**

JavaScript host object providing a fast text search using the Horspool algorithm.

Constructor Summary

JSTextSearch () Constructor for the JSTextSearch object
--

Method Summary

java.lang.String	getClassName () Returns the class name of this object visible in JavaScript.
void	jsConstructor (java.lang.String text, java.lang.String pattern, java.lang.String mode) Constructor for a new text search object.
int	jsFunction find () Returns the next index of the pattern, starting at the end of the last search.

Constructor Detail

JSTextSearch

```
public JSTextSearch()
```

Constructor for the JSTextSearch object

Since:

2.0

Method Detail

jsConstructor

```
public void jsConstructor(java.lang.String text,  
                           java.lang.String pattern,  
                           java.lang.String mode)
```

Constructor for a new text search object.

Parameters:

`text` - Input text to be searched

`pattern` - Pattern for which to search

`mode` - Search mode, "FORWARD" or "BACKWARD"

Since:

2.0

getClassName

```
public java.lang.String getClassName()
```

Returns the class name of this object visible in JavaScript.

Returns:

The className value

Since:

2.0

jsFunction_find

```
public int jsFunction_find()
```

Returns the next index of the pattern, starting at the end of the last search.
Returns -1 if pattern is not found.

Returns:

Next index of pattern, -1 if not found.

Since:

2.0

Class LightweightHtmlDocument

java.lang.Object

|

+ - com.cisco.proxy.rules.LightweightHtmlDocument

All Implemented Interfaces:

java.io.Serializable

public class **LightweightHtmlDocument**

extends java.lang.Object

implements java.io.Serializable

Class representing a parsed HtmlDocument. This class differs from HtmlDocument in that it does not support additional contents types (other than platform default). It is used in a client/browser to represent a document. Server classes should use HtmlDocument since it is more applicable to situations encountered on the server.

See Also:

[Serialized Form](#)

Constructor Summary

[LightweightHtmlDocument](#) ()

Constructor for the LightweightHtmlDocument object

[LightweightHtmlDocument](#) (byte [] html,

com.cisco.proxy.http.NetURL targetURL, boolean isSecure,
[LightweightRequestData](#) requestData)
 Creates and parses an Html document which may or may not be text.

[LightweightHtmlDocument](#)(java.lang.String html,
 com.cisco.proxy.http.NetURL targetURL, boolean isSecure,
 com.cisco.proxy.rules.RuleEngine engine,
[LightweightRequestData](#) requestData)
 Creates and parses an Html document which may or may not be text.

Method Summary	
java.lang.String	getCharset () Returns the document's current charset, which may be null if it is unknown.
byte []	getContent () Returns the document as an unchanged byte array.
java.lang.String	getFullHtml () Converts document object back to an HTML string for output to client, formatting links, etc.
java.lang.String	getFullHtml (LightweightRequestData requestData) Converts document object back to an HTML string for output to client, formatting links, etc.
java.lang.String	getLinkColor () Returns the link color to be used in the current document.
boolean	isSecure () Returns true if this document is secure.
boolean	isTextContent () Returns true if this document is text content (content that can be parsed).
void	setCharset (java.lang.String charset) Sets the document's charset.

void	<u>setIsSecure</u> (boolean isSecure) Sets the document's security context.
void	<u>setLinkColor</u> (java.lang.String linkColor) Sets the link color for the current document.
java.lang.String	<u>toString</u> () Description of the Method

Methods inherited from class java.lang.Object

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

Constructor Detail

LightweightHtmlDocument

```
public LightweightHtmlDocument()
```

Constructor for the LightweightHtmlDocument object

Since:

2.0

LightweightHtmlDocument

```
public LightweightHtmlDocument(byte[] html,  
  
                                com.cisco.proxy.http.NetURL targetURL,  
  
                                boolean isSecure,  
  
                                LightweightRequestData requestData)  
  
    throws com.cisco.proxy.error.ProxyException
```

Creates and parses an Html document which may or may not be text. Non-HTML content will not be parsed and is stored as an unaltered byte array. This object is for use in a client/browser; it does not include output caching or server logging as HtmlDocument does. It also does not support charset changes, since content parsed in the browser should all be in a consistent charset anyway.

Parameters:

html - Description of Parameter

targetURL - Description of Parameter

isSecure - Description of Parameter

requestData - Description of Parameter

Throws:

com.cisco.proxy.error.ProxyException - Description of Exception

Since:

2.0

LightweightHtmlDocument

```
public LightweightHtmlDocument(java.lang.String html,  
  
                                com.cisco.proxy.http.NetURL targetURL,
```

```
        boolean isSecure,  
  
        com.cisco.proxy.rules.RuleEngine engine,  
  
        LightweightRequestData requestData)  
  
    throws com.cisco.proxy.error.ProxyException
```

Creates and parses an Html document which may or may not be text. Non-HTML content will not be parsed and is stored as an unaltered byte array. This object is for use in a client/browser; it does not include output caching for server logging as HtmlDocument does. It also does not support charset changes, since content parsed in the browser should all be in a consistent charset anyway.

Parameters:

html - Description of Parameter

targetURL - Description of Parameter

isSecure - Description of Parameter

engine - Description of Parameter

requestData - Description of Parameter

Throws:

com.cisco.proxy.error.ProxyException - Description of Exception

Since:

2.0

Method Detail

getCharset

```
public java.lang.String getCharset()
```


Returns the document's current charset, which may be null if it is unknown. For client-side use, this value will always return null.

Returns:

The charset value

Since:

2.0

getContent

```
public byte[] getContent()
```

Returns the document as an unchanged byte array. Used only for non-text content.

Returns:

The content value

Since:

2.0

getFullHtml

```
public java.lang.String getFullHtml()
```

throws
com.cisco.proxy.error.ProxyParserException

Converts document object back to an HTML string for output to client, formatting links, etc. appropriately. Formatting will be done according to the parameters in the request data object which was originally supplied during document parsing.

Returns:

The fullHtml value

Throws:

`com.cisco.proxy.error.ProxyParserException` - Description of Exception

Since:

2.0

getFullHtml

```
public java.lang.String getFullHtml(LightweightRequestData requestData)
```

throws

```
com.cisco.proxy.error.ProxyParserException
```

Converts document object back to an HTML string for output to client, formatting links, etc. appropriately. Note that script and participant properties are not set in this method as they are in the equivalent method in `HtmlDocument` -- these properties should already be set in the script environment in which this document is being rendered.

Parameters:

`requestData` - Proxy request information object from which base URL information will be derived

Returns:

The fullHtml value

Throws:

`com.cisco.proxy.error.ProxyParserException` - Description of Exception

Since:

2.0

getLinkColor

```
public java.lang.String getLinkColor()
```

Returns the link color to be used in the current document. This value will be "00000e" by default, unless the link color is set in the parsed document.

Returns:

The linkColor value

Since:

2.0

isSecure

```
public boolean isSecure()
```

Returns true if this document is secure.

Returns:

The secure value

Since:

isTextContent

```
public boolean isTextContent()
```

Returns true if this document is text content (content that can be parsed).

Returns:

The textContent value

Since:

2.0

setCharset

```
public void setCharset(java.lang.String charset)
```

throws
`com.cisco.proxy.error.CharsetChangeParserException`

Sets the document's charset. This method should only be used on the server.

Parameters:

`charset` - The new charset value

Throws:

`com.cisco.proxy.error.CharsetChangeParserException` - Description of Exception

Since:

2.0

setIsSecure

```
public void setIsSecure(boolean isSecure)
```

Sets the document's security context.

Parameters:

`isSecure` - The new `isSecure` value

Since:

2.0

setLinkColor

```
public void setLinkColor(java.lang.String linkColor)
```

Sets the link color for the current document. This may be used to recreate deactivated links so that their appearance is the same as the original active links.

Parameters:

`linkColor` - The new `linkColor` value

Since:

2.0

toString

```
public java.lang.String toString()
```

Description of the Method

Overrides:

toString in class java.lang.Object

Returns:

Description of the Returned Value

Since:

2.0

Class HtmlDocument

java.lang.Object

|

+--com.cisco.proxy.rules.LightweightHtmlDocument

|

+--com.cisco.proxy.rules.HtmlDocument

All Implemented Interfaces:

java.io.Serializable

public class **HtmlDocument**

extends com.cisco.proxy.rules.LightweightHtmlDocument

implements java.io.Serializable

Class representing a parsed HtmlDocument.

See Also:

[Serialized Form](#)

Constructor Summary

[HtmlDocument](#) ()

Constructor for the HtmlDocument object

[HtmlDocument](#) (byte[] html, com.cisco.proxy.http.NetURL targetURL, boolean isTextContent, java.lang.String contentType, boolean isSecure.

```
java.lang.String initialCharset, RequestData requestData)
    Creates and parses an Html document which may or may not be text.
```

Method Summary	
java.lang.String	getCharset () Gets the charset attribute of the HtmlDocument object
byte []	getContent () Returns the document as an unchanged byte array.
java.lang.String	getFullHtml (RequestData requestData) Converts document object back to an HTML string for output to client, formatting links, etc.
static boolean	isContentTypeText (java.lang.String contentType) Returns true if a content type is to be treated as text, according to configuration.
void	setCharset (java.lang.String charset) Sets the charset attribute of the HtmlDocument object
static void	setResponseCacheSize (int cacheSize) Sets the size of the formatted response cache.
static void	setTextContentTypes (com.cisco.util MatchingGroup textTypes) Sets the textContentTypes attribute of the HtmlDocument class
java.lang.String	toString () Description of the Method

**Methods inherited from class
com.cisco.proxy.rules.LightweightHtmlDocument**

```
getFullHtml, setFullHtml, setLinkColor, isSecure, isTextContent.
```



```
setIsSecure, setLinkColor
```

Methods inherited from class java.lang.Object

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

Constructor Detail

HtmlDocument

```
public HtmlDocument()
```

Constructor for the HtmlDocument object

Since:

2.0

HtmlDocument

```
public HtmlDocument(byte[] html,  
  
                    com.cisco.proxy.http.NetURL targetURL,  
  
                    boolean isTextContent,  
  
                    java.lang.String contentType,  
  
                    boolean isSecure,  
  
                    java.lang.String initialCharset,
```

[RequestData](#) requestData)

throws com.cisco.proxy.error.ProxyException

Creates and parses an Html document which may or may not be text. Non-HTML content will not be parsed and is stored as an unaltered byte array.

Parameters:

html - Description of Parameter

targetURL - Description of Parameter

isTextContent - Description of Parameter

contentType - Description of Parameter

isSecure - Description of Parameter

initialCharset - Description of Parameter

requestData - Description of Parameter

Throws:

com.cisco.proxy.error.ProxyException - Description of Exception

Since:

2.0

Method Detail

isContentTypeText

```
public static boolean isContentTypeText(java.lang.String contentType)
```

Returns true if a content type is to be treated as text, according to configuration.

Parameters:

`contentType` - Description of Parameter

Returns:

The `contentTypeText` value

Since:

2.0

setResponseCacheSize

```
public static void setResponseCacheSize(int cacheSize)
```

Sets the size of the formatted response cache.

Parameters:

`cacheSize` - The new `responseCacheSize` value

Since:

2.0

setTextContentTypes

```
public static void setTextContentTypes(com.cisco.util MatchingGroup textTypes)
```

Sets the `textContentTypes` attribute of the `HtmlDocument` class

Parameters:

`textTypes` - The new `textContentTypes` value

Since:

2.0

getCharset

```
public java.lang.String getCharset()
```

Gets the charset attribute of the HtmlDocument object

Overrides:

`getCharset` in class `com.cisco.proxy.rules.LightweightHtmlDocument`

Returns:

The charset value

Since:

2.0

getContent

```
public byte[] getContent()
```

Returns the document as an unchanged byte array. Used for non-text content.

Overrides:

`getContent` in class `com.cisco.proxy.rules.LightweightHtmlDocument`

Returns:

The content value

Since:

2.0

getFullHtml

```
public java.lang.String getFullHtml(RequestData requestData)
```

throws

```
com.cisco.proxy.error.ProxyParserException
```

Converts document object back to an HTML string for output to client, formatting links, etc. appropriately.

Parameters:

requestData - Proxy request information object from which base URL information will be derived

Returns:

The fullHtml value

Throws:

com.cisco.proxy.error.ProxyParserException - Description of Exception

Since:

2.0

setCharset

```
public void setCharset(java.lang.String charset)
```

throws

```
com.cisco.proxy.error.CharsetChangeParserException
```

Sets the charset attribute of the HtmlDocument object

Overrides:

setCharset in class `com.cisco.proxy.rules.LightweightHtmlDocument`

Parameters:

charset - The new charset value

Throws:

`com.cisco.proxy.error.CharsetChangeParserException` - Description of Exception

Since:

2.0

toString

```
public java.lang.String toString()
```

Description of the Method

Overrides:

toString in class `com.cisco.proxy.rules.LightweightHtmlDocument`

Returns:

Description of the Returned Value

Since:

2.0

Class LightweightRequestData

java.lang.Object

|

+ - com.cisco.proxy.rules.LightweightRequestData

All Implemented Interfaces:

java.io.Serializable

public class **LightweightRequestData**

extends java.lang.Object

implements java.io.Serializable

Request data object, used as a container for request information during a proxy request or document parsing. This object differs from RequestData in that it does not use or provide access to the actual ProxySession object associated with a request. This allows the object to be serialized and used in the browser without bringing along a lot of unnecessary or inappropriate classes. RequestData extends this class for use on the server, providing additional methods for interacting with other proxy components. This class's public methods also represent the interface for rule scripts that render a parsed document.

See Also:

[Serialized Form](#)

Constructor Summary

[LightweightRequestData](#)(com.cisco.proxy.http.NetURL targetURL,
java.lang.String pageName, java.lang.String session.

```

java.lang.String serial, java.lang.String participantID,
com.cisco.util.MetaProperties participantProperties,
boolean requiresCredentials, boolean isSecure,
java.lang.String remoteUserAddr, boolean isFirstSessionRequest,
java.lang.String requestHostName)
    Standard constructor.

```

Method Summary	
static java.lang.String	getCacheRoot () Gets the cacheRoot attribute of the LightweightRequestData class
java.lang.String	getCacheRootJS () Non-static version of getCacheRoot for JavaScript usage
java.lang.String	getCorrectPort () Returns the correct port based on the protocol for the target URL of this request.
static java.lang.String	getCorrectPort (java.lang.String protocol) Returns the correct proxy server port for a request to the specified protocol.
java.lang.String	getCorrectPortJS (java.lang.String protocol) * Non-static version of getCorrectPort for JavaScript usage
java.lang.String	getCurrentSerial () Returns the current serial number of the request, as included in a link, form, etc.
java.lang.String	getDocumentCookie () Gets the cookies that a relevant to the current document.
java.lang.String	getHashKey () Gets the hash key for a response using this object.
java.lang.String	getHostName ()

	Returns host name of target URL.
java.lang.String	getHostPort () Returns the port of target URL.
java.lang.String	getLinkColor () Returns the link color for the current request.
java.lang.String	getPageName () Returns the page name of the current request.
java.lang.String	getParticipantID () Returns the participant ID extracted from the current request.
java.lang.String	getProtocol () Returns target protocol
static java.lang.String	getProxyBasePath () Returns the proxy server base URL, to which a query parameter will be added where necessary.
java.lang.String	getProxyBasePathJS () * Non-static version of getProxyBasePath for JavaScript usage
java.lang.String	getProxyBaseURL () Returns the current proxy server base url based on current request parameters (which port, proxy server name and base path).
java.lang.String	getProxyBaseWithoutProtocol (java.lang.String newProtocol) Returns the proxy URL base without an included protocol.
static java.lang.String	getProxyPort () Returns the default proxy port (HTTP)
java.lang.String	getProxyPortJS () * Non-static version of getProxyPort for JavaScript usage

static java.lang.String	<u>getProxySecurePort</u> () Gets the proxy server secure port (HTTPS)
java.lang.String	<u>getProxySecurePortJS</u> () * Non-static version of getProxySecurePort for JavaScript usage
java.lang.String	<u>getRemoteAddr</u> () Returns the address from which the request was made.
java.lang.String	<u>getRequestHostName</u> () Gets the host name used to make this request
java.lang.String	<u>getRequestProtocol</u> () Returns the protocol by which the request was made
java.lang.String	<u>getResponseSerial</u> () Returns the serial number for the current response.
java.lang.String	<u>getSession</u> () Gets the session attribute of the LightweightRequestData object
java.lang.String	<u>getSessionUserAgentAppCodeName</u> () Gets the sessionUserAgentAppCodeName attribute of the LightweightRequestData object.
java.lang.String	<u>getSessionUserAgentAppName</u> () Gets the sessionUserAgentAppName attribute of the LightweightRequestData object.
java.lang.String	<u>getSessionUserAgentAppVersion</u> () Gets the sessionUserAgentAppVersion attribute of the LightweightRequestData object.
java.lang.String	<u>getSessionUserAgentHeader</u> () Gets the sessionUserAgentHeader attribute of the LightweightRequestData object.
com.cisco.proxy.http.NetURL	<u>getTargetURL</u> () Returns the full target URL for this request.

com.cisco.proxy.http.N etURL	getTargetURLDisplay() Returns the full display target URL.
boolean	isFirstSessionRequest() Returns true if this is the first request being made in the associated session.
boolean	isSecure() Returns true if this request is secure (made via SSL/HTTPS).
boolean	isTargetSecure() Returns true if the connection to the target server is secure (SSL/HTTPS).
boolean	requiresCredentials() Returns true if this request requires HTTP authentication credentials to be sent to the target server.
static void	setCacheRoot() (java.lang.String root) Sets the cacheRoot attribute of the LightweightRequestData class
void	setIsSecure() (boolean isSecure) Used to alter the security context of the current request.
void	setLinkColor() (java.lang.String linkColor) Sets the link color for embedded links in the current request.
static void	setProxyBasePath() (java.lang.String proxyBaseURLString) Sets the base URL for the proxy server.
static void	setProxyPort() (java.lang.String newProxyPort) Sets the proxy server port (HTTP)
static void	setProxySecurePort() (java.lang.String newSecureProxyPort) Sets the proxy server secure port (HTTPS)
void	setResponseSerial() (java.lang.String serial)

	Sets the response serial for the current request.
void	setTargetURL (com.cisco.proxy.http.NetURL targetURL) Sets the target URL.
void	setTargetURL (java.lang.String targetURLString) Sets the target URL.
void	setTargetURLString (java.lang.String targetURLString) Sets the target URL.
void	setUsesCopyServer (boolean usesCopyServer) Sets this request to use the copy server.
java.lang.String	toString () Returns a string containing information in this object for the current request.
java.lang.String	toStringOneLine () Returns a string containing an abbreviated list of information in this object for the current request.
boolean	usesCopyServer () Returns true if this request is going to use the copy server (be stored for a period of time).

Methods inherited from class java.lang.Object

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

Constructor Detail

LightweightRequestData

```
public LightweightRequestData(com.cisco.proxy.http.NetURL targetURL,  
  
                               java.lang.String pageName,  
  
                               java.lang.String session,  
  
                               java.lang.String serial,  
  
                               java.lang.String participantID,  
  
com.cisco.util.MetaProperties participantProperties,  
  
                               boolean requiresCredentials,  
  
                               boolean isSecure,  
  
                               java.lang.String remoteUserAddr,  
  
                               boolean isFirstSessionRequest,  
  
                               java.lang.String requestHostName)
```

Standard constructor.

Parameters:

targetURL - URL being requested

pageName - Page name from targetURL

session - Session id of current request

serial - Serial number of given page in given session

participantID - Description of Parameter

requiresCredentials - Description of Parameter

isSecure - Description of Parameter

remoteUserAddr - Description of Parameter

isFirstSessionRequest - Description of Parameter

participantProperties - Description of Parameter

requestHostName - Description of Parameter

Since:

2.0

Method Detail

setProxyBasePath

```
public static void  
setProxyBasePath(java.lang.String proxyBaseURLString)
```

Sets the base URL for the proxy server.

Parameters:

proxyBaseURLString - The new proxyBasePath value

Since:

1.0

setProxyPort

```
public static void setProxyPort(java.lang.String newProxyPort)
```

Sets the proxy server port (HTTP)

Parameters:

`newProxyPort` - The new `proxyPort` value

Since:

1.0

setProxySecurePort

```
public static void  
setProxySecurePort(java.lang.String newSecureProxyPort)
```

Sets the proxy server secure port (HTTPS)

Parameters:

`newSecureProxyPort` - The new `proxySecurePort` value

Since:

1.0

getCorrectPort

```
public static java.lang.String  
getCorrectPort(java.lang.String protocol)
```

Returns the correct proxy server port for a request to the specified protocol. Normally this will return port 80 for http and port 443 for https, although this may be changed through the proxy server property file.

Parameters:

`protocol` - Description of Parameter

Returns:

The correctPort value

Since:

1.0

getProxyBasePath

```
public static java.lang.String getProxyBasePath()
```

Returns the proxy server base URL, to which a query parameter will be added where necessary.

Returns:

Returns the proxy server base URL

Since:

1.0

getProxyPort

```
public static java.lang.String getProxyPort()
```

Returns the default proxy port (HTTP)

Returns:

The proxyPort value

Since:

1.0

getProxySecurePort

```
public static java.lang.String getProxySecurePort()
```

Gets the proxy server secure port (HTTPS)

Returns:

The proxySecurePort value

Since:

1.0

setCacheRoot

```
public static void setCacheRoot(java.lang.String root)
```

Sets the cacheRoot attribute of the LightweightRequestData class

Parameters:

root - The new cacheRoot value

Since:

2.0

getCacheRoot

```
public static java.lang.String getCacheRoot()
```

Gets the cacheRoot attribute of the LightweightRequestData class

Returns:

The cacheRoot value

Since:

2.0

getProxyPortJS

```
public java.lang.String getProxyPortJS()
```

* Non-static version of getProxyPort for JavaScript usage

Returns:

The proxyPortJS value

Since:

2.0

getProxySecurePortJS

```
public java.lang.String getProxySecurePortJS()
```

* Non-static version of getProxySecurePort for JavaScript usage

Returns:

The proxySecurePortJS value

Since:

2.0

getCorrectPortJS

```
public java.lang.String getCorrectPortJS(java.lang.String protocol)
```

* Non-static version of getCorrectPort for JavaScript usage

Parameters:

protocol - Description of Parameter

Returns:

The correctPortJS value

Since:

2.0

getProxyBasePathJS

```
public java.lang.String getProxyBasePathJS()
```

* Non-static version of getProxyBasePath for JavaScript usage

Returns:

The proxyBasePathJS value

Since:

2.0

getCacheRootJS

```
public java.lang.String getCacheRootJS()
```

Non-static version of getCacheRoot for JavaScript usage

Returns:

The cacheRootJS value

Since:

2.0

setIsSecure

```
public void setIsSecure(boolean isSecure)
```

Used to alter the security context of the current request. This is necessary when a document or frameset that is secure contains content that is not secure.

Parameters:

`isSecure` - The new `isSecure` value

Since:

1.0

setLinkColor

```
public void setLinkColor(java.lang.String linkColor)
```

Sets the link color for embedded links in the current request. This method is called during the parsing of a document when a link color property is found.

Parameters:

`linkColor` - The new `linkColor` value

Since:

1.0

setResponseSerial

```
public void setResponseSerial(java.lang.String serial)
```

Sets the response serial for the current request. This serial will appear in each link in the returned HTML. The provided value will come from the response

object that was stored on the copy server. This is necessary to ensure that each response from the proxy server for the same page, whether from original server or copy server, is identical.

Parameters:

`serial` - Response serial number for current request

Since:

1.0

setTargetURLString

```
public void setTargetURLString(java.lang.String targetURLString)
```

Sets the target URL. Same as `setTargetURL`, just a different name for proper use from JavaScript through LiveConnect.

Parameters:

`targetURLString` - The new `targetURLString` value

Since:

1.0

setTargetURL

```
public void setTargetURL(java.lang.String targetURLString)
```

Sets the target URL. JavaScript users of this object should call `setTargetURLString` instead to be sure the correct method is called.

Parameters:

targetURLString - The new targetURL value

Since:

1.0

setTargetURL

```
public void setTargetURL(com.cisco.proxy.http.NetURL targetURL)
```

Sets the target URL.

Parameters:

targetURL - New target URL

Since:

1.0

setUsesCopyServer

```
public void setUsesCopyServer(boolean usesCopyServer)
```

Sets this request to use the copy server.

Parameters:

usesCopyServer - The new usesCopyServer value

Since:1.0

getDocumentCookie

```
public java.lang.String getDocumentCookie()
```

Gets the cookies that are relevant to the current document. Can be used to replace the document.cookie property in the browser. Currently, lightweight version returns an empty string so would not be useful in the client.

Returns:

The documentCookie value

Since:2.0

getCorrectPort

```
public java.lang.String getCorrectPort()
```

Returns the correct port based on the protocol for the target URL of this request.

Returns:

The correctPort value

Since:

1.0

getSessionUserAgentHeader

```
public java.lang.String getSessionUserAgentHeader()
```

Gets the `sessionUserAgentHeader` attribute of the `LightweightRequestData` object. Returns null in this object; value is only useful from `RequestData`.

Returns:

The `sessionUserAgentHeader` value

Since:

2.0

getSessionUserAgentAppName

```
public java.lang.String getSessionUserAgentAppName()
```

Gets the `sessionUserAgentAppName` attribute of the `LightweightRequestData` object. Returns null in this object; value is only useful from `RequestData`.

Returns:

The `sessionUserAgentAppName` value

Since:

2.0

getSessionUserAgentAppVersion

```
public java.lang.String getSessionUserAgentAppVersion()
```

Gets the sessionUserAgentAppVersion attribute of the LightweightRequestData object. Returns null in this object; value is only useful from RequestData.

Returns:

The sessionUserAgentAppVersion value

Since:

2.0

getSessionUserAgentAppCodeName

```
public java.lang.String getSessionUserAgentAppCodeName()
```

Gets the sessionUserAgentAppCodeName attribute of the LightweightRequestData object. Returns null in this object; value is only useful from RequestData.

Returns:

The sessionUserAgentAppCodeName value

Since:

2.0

getCurrentSerial

```
public java.lang.String getCurrentSerial()
```

Returns the current serial number of the request, as included in a link, form, etc. This value is used when accessing the copy server.

Returns:

Returns the request's current serial number

Since:

1.0

getHashKey

```
public java.lang.String getHashKey()
```

Gets the hash key for a response using this object. The key includes page name, session, serial, user attribute(s), and other parameters. Does not include participant ID. Keys returned by this method that are the same will produce identical HTML pages when their associated info objects are used to reformat a given HttpResponse object.

Returns:

The hashKey value

Since:

1.0

getHostName

```
public java.lang.String getHostName()
```

Returns host name of target URL.

Returns:

Returns target host name

Since:

1.0

getHostPort

```
public java.lang.String getHostPort()
```

Returns the port of target URL. If no port is specified, returns an empty string.

Returns:

Returns the target host port

Since:

1.0

getLinkColor

```
public java.lang.String getLinkColor()
```

Returns the link color for the current request. The link color is set when the document is initially parsed.

Returns:

The linkColor value

Since:

1.0

getPageName

```
public java.lang.String getPageName()
```

Returns the page name of the current request. The page name will include the file path as well as the actual file name (path separators are changed to '.' instead of '/').

Returns:

Returns the current page name

Since:

1.0

getParticipantID

```
public java.lang.String getParticipantID()
```

Returns the participant ID extracted from the current request.

Returns:

The participantID value

Since:

1.0

getProtocol

```
public java.lang.String getProtocol()
```

Returns target protocol

Returns:

Returns target protocol

Since:

1.0

getProxyBaseURL

```
public java.lang.String getProxyBaseURL()
```

Returns the corrent proxy server base url based on current request parameters (which port, proxy server name and base path).

Returns:

The proxyBaseURL value

Since:

1.0

getProxyBaseWithoutProtocol

```
public java.lang.String  
getProxyBaseWithoutProtocol(java.lang.String newProtocol)
```

Returns the proxy URL base without an included protocol. The supplied protocol argument is used to determine the port number that will be included in the base string.

Parameters:

`newProtocol` - Protocol used for determining correct port in result

Returns:

Returns proxy URL base string without protocol

Since:

1.0

getRemoteAddr

```
public java.lang.String getRemoteAddr()
```

Returns the address from which the request was made.

Returns:

The remoteAddr value

Since:

1.0

getRequestHostName

```
public java.lang.String getRequestHostName()
```

Gets the host name used to make this request

Returns:

The requestHostName value

Since:

2.0

getRequestProtocol

```
public java.lang.String getRequestProtocol()
```

Returns the protocol by which the request was made

Returns:

The requestProtocol value

Since:

1.0

getResponseSerial

```
public java.lang.String getResponseSerial()
```

Returns the serial number for the current response.

Returns:

Returns the current serial number

Since:

1.0

getSession

```
public java.lang.String getSession()
```

Gets the session attribute of the LightweightRequestData object

Returns:

The session value

Since:

1.0

getTargetURL

```
public com.cisco.proxy.http.NetURL getTargetURL()
```

Returns the full target URL for this request.

Returns:

Returns the target URL

Since:

1.0

getTargetURLDisplay

```
public com.cisco.proxy.http.NetURL getTargetURLDisplay()
```

Returns the full display target URL. This may differ from the actual target when a new target is set during document parsing when a Base Href is encountered.

Returns:

The targetURLDisplay value

Since:

2.0

isFirstSessionRequest

```
public boolean isFirstSessionRequest()
```

Returns true if this is the first request being made in the associated session.

Returns:

The firstSessionRequest value

Since:

1.0

isSecure

```
public boolean isSecure()
```

Returns true if this request is secure (made via SSL/HTTPS).

Returns:

The secure value

Since:

1.0

isTargetSecure

```
public boolean isTargetSecure()
```

Returns true if the connection to the target server is secure (SSL/HTTPS).

Returns:

The targetSecure value

Since:

1.0

requiresCredentials

```
public boolean requiresCredentials()
```

Returns true if this request requires HTTP authentication credentials to be sent to the target server.

Returns:

Description of the Returned Value

Since:

1.0

toString

```
public java.lang.String toString()
```

Returns a string containing information in this object for the current request.

Overrides:

toString in class java.lang.Object

Returns:

Returns this objects state in String form

Since:

1.0

toStringOneLine

```
public java.lang.String toStringOneLine()
```

Returns a string containing an abbreviated list of information in this object for the current request.

Returns:

Returns some of this objects state in String form

Since:

1.0

usesCopyServer

```
public boolean usesCopyServer()
```

Returns true if this request is going to use the copy server (be stored for a period of time).

Returns:

Returns true if this request uses the copy server

Since:

1.0

Class RequestData

java.lang.Object

|

+--com.cisco.proxy.rules.LightweightRequestData

|

+--com.cisco.proxy.rules.RequestData

All Implemented Interfaces:

java.io.Serializable

public class **RequestData**

extends com.cisco.proxy.rules.LightweightRequestData

Description of the Class

See Also:

[Serialized Form](#)

Constructor Summary

[RequestData](#)(com.cisco.proxy.http.NetURL targetURL, com.cisco.proxy.http.NetURL originalURL, java.lang.String pageName, java.lang.String session, java.lang.String serial, java.lang.String participantID, com.cisco.util.MetaProperties participantProperties, boolean requiresCredentials, boolean isSecure, java.lang.String remoteUserAddr, boolean isFirstSessionRequest, java.lang.String requestHostName)

Standard constructor.

Method Summary

<code>java.util.Properties</code>	<code>getAdditionalScriptProperties()</code> Gets any additional script properties that may be attached to this request.
<code>java.lang.String</code>	<code>getDocumentCookie()</code> Gets the cookies that a relevant to the current document.
<code>com.cisco.proxy.ProxySession</code>	<code>getProxySession()</code> Gets the proxySession attribute of the RequestData object
<code>java.lang.String</code>	<code>getResponseSerial()</code> Gets the response serial.
<code>java.lang.String</code>	<code>getSessionUserAgentAppCodeName()</code> Gets the sessionUserAgentAppCodeName attribute of the RequestData object
<code>java.lang.String</code>	<code>getSessionUserAgentAppName()</code> Gets the sessionUserAgentAppName attribute of the RequestData object
<code>java.lang.String</code>	<code>getSessionUserAgentAppVersion()</code> Gets the sessionUserAgentAppVersion attribute of the RequestData object
<code>java.lang.String</code>	<code>getSessionUserAgentHeader()</code> Gets the sessionUserAgentHeader attribute of the RequestData object
<code>static boolean</code>	<code>isDomainProxied(java.lang.String domain)</code> Gets the domainProxied attribute of the RequestData class

static boolean	<u>isNormalProxyRequest</u> (java.lang.String requestURL) Used to determine if the request has accessed the proxy server via a "normal" URL, ie one of the form: http:// / ?url= Parsing parameters in non-normal requests is handled differently than normal requests.
void	<u>setAdditionalScriptProperties</u> (java.util.Properties additionalProperties) Sets additional per-request script properties.
static void	<u>setProxiedDomains</u> (com.cisco.util MatchingGroup proxiedDomains) Sets domain patterns for use in determining which domains will be proxied.
void	<u>setResponseSerial</u> () Sets the response serial of the current request before the HTML returned to the client is translated.
void	<u>setTargetURL</u> (com.cisco.proxy.http.NetURL targetURL) Sets the targetURL attribute of the RequestData object
java.lang.String	<u>toString</u> () Returns a string containing information in this object for the current request.
java.lang.String	<u>toStringOneLine</u> () Returns a string containing an abbreviated list of information in this object for the current request.

Methods inherited from class com.cisco.proxy.rules.LightweightRequestData

```
getCacheRoot, getCacheRootJS, getCorrectPort, getCorrectPort,
getCorrectPortJS, getCurrentSerial, getHashKey, getHostName,
getHostPort, getLinkColor, getOriginalURL, getPageName,
getParticipantID, getProtocol, getProxyBasePath, getProxyBasePathJS,
getProxyBaseURL, getProxyBaseWithoutProtocol, getProxyPort,
getProxyPortJS, getProxySecurePort, getProxySecurePortJS, getRemoteAddr,
getRequestHostName, getRequestProtocol, getSession, getTargetURL,
getTargetURLDisplay, isFirstSessionRequest, isSecure, isTargetSecure,
requiresCredentials. setCacheRoot. setIsSecure. setLinkColor.
```

```
setProxyBasePath, setProxyPort, setProxySecurePort, setResponseSerial,  
setTargetURL, setTargetURLString, setUsesCopyServer, usesCopyServer
```

Methods inherited from class java.lang.Object

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

Constructor Detail

RequestData

```
public RequestData (com.cisco.proxy.http.NetURL targetURL,  
  
                    com.cisco.proxy.http.NetURL originalURL,  
  
                    java.lang.String pageName,  
  
                    java.lang.String session,  
  
                    java.lang.String serial,  
  
                    java.lang.String participantID,  
  
                    com.cisco.util.MetaProperties participantProperties,  
  
                    boolean requiresCredentials,  
  
                    boolean isSecure,  
  
                    java.lang.String remoteUserAddr,  
  
                    boolean isFirstSessionRequest,  
  
                    java.lang.String requestHostName)
```

Standard constructor.

Parameters:

`targetURL` - URL being requested

`pageName` - Page name from `targetURL`

`session` - Session id of current request

`serial` - Serial number of given page in given session

`participantID` - Description of Parameter

`requiresCredentials` - Description of Parameter

`isSecure` - Description of Parameter

`remoteUserAddr` - Description of Parameter

`isFirstSessionRequest` - Description of Parameter

`participantProperties` - Description of Parameter

`requestHostName` - Description of Parameter

`originalURL` - Description of Parameter

Since:

2.0

Method Detail

isDomainProxied

```
public static boolean isDomainProxied(java.lang.String domain)
```

Gets the `domainProxied` attribute of the `RequestData` class

Parameters:

domain - Description of Parameter

Returns:

The domainProxied value

Since:

2.0

isNormalProxyRequest

```
public static boolean isNormalProxyRequest(java.lang.String requestURL)
```

Used to determine if the request has accessed the proxy server via a "normal" URL, ie one of the form: http:// / ?url= Parsing parameters in non-normal requests is handled differently than normal requests.

Parameters:

requestURL - Description of Parameter

Returns:

The normalProxyRequest value

Since:

2.0

setProxiedDomains

```
public static void  
setProxiedDomains(com.cisco.util MatchingGroup proxiedDomains)
```

Sets domain patterns for use in determining which domains will be proxied.

Parameters:

`proxiedDomains` - The new `proxiedDomains` value

Since:

2.0

setAdditionalScriptProperties

```
public void  
setAdditionalScriptProperties(java.util.Properties additionalProperties  
)
```

Sets additional per-request script properties. Used to pass properties to script in request URL.

Parameters:

`additionalProperties` - The new `additionalScriptProperties` value

Since:

2.0

getAdditionalScriptProperties

```
public java.util.Properties getAdditionalScriptProperties()
```

Gets any additional script properties that may be attached to this request. May return null if no additional script properties have been set.

Returns:

The `additionalScriptProperties` value

Since:

2.0

getDocumentCookie

```
public java.lang.String getDocumentCookie()
```

Gets the cookies that are relevant to the current document. Can be used to replace the document.cookie property in the browser.

Overrides:

getDocumentCookie in class
com.cisco.proxy.rules.LightweightRequestData

Returns:

The documentCookie value

Since:

2.0

getProxySession

```
public com.cisco.proxy.ProxySession getProxySession()
```

throws
com.cisco.proxy.error.ProxySessionException

Gets the proxySession attribute of the RequestData object

Returns:

The proxySession value

Throws:

Since:

2.0

getSessionUserAgentHeader

```
public java.lang.String getSessionUserAgentHeader()
```

Gets the sessionUserAgentHeader attribute of the RequestData object

Overrides:

getSessionUserAgentHeader in class
com.cisco.proxy.rules.LightweightRequestData

Returns:

The sessionUserAgentHeader value

Since:

2.0

getSessionUserAgentAppName

```
public java.lang.String getSessionUserAgentAppName()
```

Gets the sessionUserAgentAppName attribute of the RequestData object

Overrides:

getSessionUserAgentAppName in class
com.cisco.proxy.rules.LightweightRequestData

Returns:

The sessionUserAgentAppName value

Since:

2.0

getSessionUserAgentAppVersion

```
public java.lang.String getSessionUserAgentAppVersion()
```

Gets the sessionUserAgentAppVersion attribute of the RequestData object

Overrides:

getSessionUserAgentAppVersion in class
com.cisco.proxy.rules.LightweightRequestData

Returns:

The sessionUserAgentAppVersion value

Since:

2.0

getSessionUserAgentAppCodeName

```
public java.lang.String getSessionUserAgentAppCodeName()
```

Gets the sessionUserAgentAppCodeName attribute of the RequestData object

Overrides:

getSessionUserAgentAppCodeName in class

`com.cisco.proxy.rules.LightweightRequestData`

Returns:

The sessionUserAgentAppCodeName value

Since:

2.0

getResponseSerial

```
public java.lang.String getResponseSerial()
```

Gets the response serial. If the serial is not set, calling this method will cause the serial to be set by going to `setResponseSerial()`.

Overrides:

`getResponseSerial` in class
`com.cisco.proxy.rules.LightweightRequestData`

Returns:

The responseSerial value

Since:

2.0

setResponseSerial

```
public void setResponseSerial()
```

Sets the response serial of the current request before the HTML returned to the client is translated. The response serial is generated by incrementing the last serial in the current session.

Since:

setTargetURL

```
public void setTargetURL(com.cisco.proxy.http.NetURL targetURL)
```

Sets the targetURL attribute of the RequestData object

Overrides:

setTargetURL in class `com.cisco.proxy.rules.LightweightRequestData`

Parameters:

targetURL - The new targetURL value

Since:

2.0

toString

```
public java.lang.String toString()
```

Returns a string containing information in this object for the current request.

Overrides:

toString in class `com.cisco.proxy.rules.LightweightRequestData`

Returns:

Returns this objects state in String form

Since:

2.0

toStringOneLine

```
public java.lang.String toStringOneLine()
```

Returns a string containing an abbreviated list of information in this object for the current request.

Overrides:

toStringOneLine in class
com.cisco.proxy.rules.LightweightRequestData

Returns:

Returns some of this objects state in String form

Since:

2.0

Class `ParsedMatch`

`java.lang.Object`

|

`+ com.cisco.proxy.rules.MatchSubgroup`

|

`+ com.cisco.proxy.rules.ParsedMatch`

All Implemented Interfaces:

`java.lang.Cloneable`, `java.io.Serializable`

public class **`ParsedMatch`**

extends `com.cisco.proxy.rules.MatchSubgroup`

Class representing the results of a regular expression match. The result is made up of 1 or more subgroups. The first group (numbered 0) is always the complete match string. The subgroups of this object may themselves be `ParsedMatch` objects, representing a recursively parsed text string. Changes made to this object by calling `setGroup()` permanently alter the object. Any temporary changes must be made to a cloned copy of this object.

See Also:

[Serialized Form](#)

Inner Class Summary

class	ParsedMatch.MatchCount Description of the Class
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Method Summary	
java.lang.Object	clone () Clones this object.
LightweightHtmlDocument	getDocument () Gets the document attribute of the ParsedMatch object
java.lang.String	getGroup (int groupNum) Get the contents of a given subgroup.
int	getGroupCount () Returns the number of groups in this match.
java.lang.String	getMatchedAcceptName () Returns the name of the accept statement that matched this collection of groups.
java.lang.String	getMatchedRuleName () Returns the name of the rule which was matched to produce this object.
com.cisco.proxy.rules.MetaMatch	getMetaMatch () Gets the metaMatch attribute of the ParsedMatch object
int	getRuleMatchCount (java.lang.String ruleName) Returns the count of the number of times a given rule was matched.
ParsedMatch []	getRuleMatches (java.lang.String ruleName) Returns an array of ParsedMatches that were matched by a given Rule name.

java.lang.String	<u>getString()</u> Returns the this object as a flattened string.
boolean	<u>isGroupValid</u> (int groupNum) Gets the groupValid attribute of the ParsedMatch object
boolean	<u>isRendered</u> () Returns true if the rule has already been rendered, meaning the script has been executed.
boolean	<u>isValid</u> () Returns true if this subgroup's value is valid.
int	<u>length</u> () Returns the length of this object's string.
void	<u>render</u> (<u>LightweightRequestData</u> requestData, <u>com.cisco.proxy.scripting.ScriptEnvironment</u> se) Renders this object according to the parameters provided in requestData.
void	<u>setDoRender</u> (boolean doRender) Set this instance to render or not.
void	<u>setGroup</u> (int groupNum, java.lang.String newGroupString) Sets the value of a subgroup to the provided String.
java.lang.String	<u>setGroupJS</u> (int groupNum, java.lang.String newGroupString) Sets a particular subgroup to a new string.
java.lang.String	<u>toString</u> () Description of the Method
java.lang.String	<u>toString</u> (java.lang.String prepend) Description of the Method
boolean	<u>wasRuleMatched</u> (java.lang.String ruleName) Returns true if a given rule name was matched

anywhere in the document of which the current `ParsedMatch` is a member.

Methods inherited from class `java.lang.Object`

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

Method Detail

`getGroup`

```
public java.lang.String getGroup(int groupNum)
```

Get the contents of a given subgroup. An exception may be thrown if the group does not exist. The requested group may also no longer be valid (or null), which will also throw an exception.

Parameters:

`groupNum` - Requested group number

Returns:

The group value

Throws:

`GroupIndexOutOfBoundsException` - Thrown if the requested group number is greater than the number of groups in this match

`InvalidSubgroupException` - Thrown if the requested group is no longer valid or is null

Since:

2.0

getGroupCount

```
public int getGroupCount()
```

Returns the number of groups in this match.

Returns:

The groupCount value

Since:

2.0

getMatchedRuleName

```
public java.lang.String getMatchedRuleName()
```

Returns the name of the rule which was matched to produce this object. May return null if there is no associated matched rule.

Returns:

The matchedRuleName value

Since:

2.0

setGroupJS

```
public java.lang.String setGroupJS(int groupNum,  
  
                                   java.lang.String newGroupString)
```

Sets a particular subgroup to a new string. This may result in other subgroups in this match or it's ancestors being declared invalid (if the replaced group is sufficiently contained in the group being replaced). An exception may be thrown if the group does not exist. The requested group may also no longer be valid (or null), which will also throw an exception. JavaScript users of this object should call this method rather than the setGroup method, which is overloaded and seems not to call the method with the correct signature.

Parameters:

`groupNum` - Requested group number

`newGroupString` - String with which to replace existing subgroup

Returns:

Description of the Returned Value

Throws:

`GroupIndexOutOfBoundsException` - Thrown if the requested group number is greater than the number of groups in this match

`InvalidSubgroupException` - Thrown if the requested group is no longer valid or is null

Since:

2.0

setGroup

```
public void setGroup(int groupNum,  
  
                    java.lang.String newGroupString)
```

Sets the value of a subgroup to the provided String. This method may have side-effects, such as invalidating other subgroups (or entire sub-matches) so should be used appropriately. If the group being set does not exist, a `GroupIndexOutOfBoundsException` will be thrown.

Parameters:

`groupNum` - The new group value

`newGroupString` - The new group value

Since:

2.0

toString

```
public java.lang.String toString()
```

Description of the Method

Overrides:

`toString` in class `java.lang.Object`

Returns:

Description of the Returned Value

Since:

2.0

toString

```
public java.lang.String toString(java.lang.String prepend)
```

Description of the Method

Overrides:

toString in class `com.cisco.proxy.rules.MatchSubgroup`

Parameters:

prepend - Description of Parameter

Returns:

Description of the Returned Value

Since:

2.0

clone

```
public java.lang.Object clone()
```

throws `java.lang.CloneNotSupportedException`

Clones this object. Will clone all children, etc.

Overrides:

clone in class `com.cisco.proxy.rules.MatchSubgroup`

Returns:

Description of the Returned Value

Throws:

`java.lang.CloneNotSupportedException` - Description of Exception

Since:

2.0

getDocument

```
public LightweightHtmlDocument getDocument()
```

Gets the document attribute of the ParsedMatch object

Returns:

The document value

Since:

2.0

getRuleMatches

```
public ParsedMatch[] getRuleMatches(java.lang.String ruleName)
```

Returns an array of ParsedMatches that were matched by a given Rule name. The returned array provides the matches in the order in which they were found in the original document. Depending on when this method is called, some matches may already be rendered, some not. The match on which this method is initially called will not be in the returned array.

Parameters:

ruleName - Description of Parameter

Returns:

The ruleMatches value

Since:

2.0

getRuleMatchCount

```
public int getRuleMatchCount(java.lang.String ruleName)
```

Returns the count of the number of times a given rule was matched. This is useful for scripts to determine whether a matched instance is unique. This method incurs much less overhead than using `getRuleMatches`, which should only be used when another match will actually be modified. The returned match count will include all rule matches, which may include the current match. This is different than `getRuleMatches`, which excludes the current match.

Parameters:

ruleName - Description of Parameter

Returns:

The ruleMatchCount value

Since:

2.0

isGroupValid

```
public boolean isGroupValid(int groupNum)
```

Gets the groupValid attribute of the ParsedMatch object

Parameters:

groupNum - Description of Parameter

Returns:

The groupValid value

Since:

2.0

isRendered

```
public boolean isRendered()
```

Returns true if the rule has already been rendered, meaning the script has been executed.

Returns:

The rendered value

Since:

2.0

isValid

```
public boolean isValid()
```

Returns true if this subgroup's value is valid.

Overrides:

isValid in class `com.cisco.proxy.rules.MatchSubgroup`

Returns:

The valid value

Since:

2.0

getMatchedAcceptName

```
public java.lang.String getMatchedAcceptName()
```

Returns the name of the accept statement that matched this collection of groups. May be null.

Returns:

The matchedAcceptName value

Since:

2.0

getString

```
public java.lang.String getString()
```

Returns the this object as a flattened string. If any subgroups are dirty, they will be refreshed, as will this object.

Overrides:

getString in class `com.cisco.proxy.rules.MatchSubgroup`

Returns:

The string value

Since:

2.0

getMetaMatch

```
public com.cisco.proxy.rules.MetaMatch getMetaMatch()
```

Gets the metaMatch attribute of the ParsedMatch object

Returns:

The metaMatch value

Since:

2.0

length

```
public int length()
```

Returns the length of this object's string. If any subgroups are dirty, they will be refreshed, as will this object.

Overrides:

length in class `com.cisco.proxy.rules.MatchSubgroup`

Returns:

Description of the Returned Value

Since:

2.0

render

```
public void render(LightweightRequestData requestData,  
  
                  com.cisco.proxy.scripting.ScriptEnvironment se)
```

Renders this object according to the parameters provided in requestData. This makes permanent changes to the object. Any scripts associated with subgroups will be executed. Rendering occurs depth-first.

Overrides:

render in class `com.cisco.proxy.rules.MatchSubgroup`

Parameters:

requestData - Request parameters

se - Description of Parameter

Since:

2.0

setDoRender

```
public void setDoRender(boolean doRender)
```

Set this instance to render or not. If the rule has already been rendered, this method will have no effect.

Parameters:

doRender - The new doRender value

Since:

2.0

wasRuleMatched

```
public boolean wasRuleMatched(java.lang.String ruleName)
```

Returns true if a given rule name was matched anywhere in the document of which the current ParsedMatch is a member. Useful for rules that wish to determine whether they or another rule have already executed.

Parameters:

ruleName - Description of Parameter

Returns:

Description of the Returned Value

Since:

2.0

Class `ParsedMatch.MatchCount`

`java.lang.Object`

|

`+ - com.cisco.proxy.rules.ParsedMatch.MatchCount`

All Implemented Interfaces:

`java.io.Serializable`

Enclosing class:

[ParsedMatch](#)

public class **`ParsedMatch.MatchCount`**

extends `java.lang.Object`

implements `java.io.Serializable`

Description of the Class

See Also:

[Serialized Form](#)

Methods inherited from class `java.lang.Object`

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

Class [Tree](#) [Deprecated](#) [Index](#) [Help](#)

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Serialized Form

Class [com.cisco.proxy.rules.LightweightHtmlDocument](#) implements `Serializable`

Serialization Methods

`readObject`

```
private void readObject(java.io.ObjectInputStream in)
```

```
    throws java.io.IOException,
```

```
           java.lang.ClassNotFoundException
```

Override a bit of the default de-serialization behavior. Replaces `MetaMatch` object using lookup based on name after deserialization. Avoids serializing `MetaMatch` object (and `RuleEngine`). We cross our fingers and hope the `MetaMatch/RuleEngine` hasn't been reloaded or modified since the document was serialized. If it has, the `onBeforeRender` and `onAfterRender` scripts will not execute.

Since:

2.0

Serialized Fields

`isTextContent`

```
boolean isTextContent
```

Description of the Field

Since:

2.0

isSecure

boolean **isSecure**

Description of the Field

Since:

2.0

parsedMatch

[ParsedMatch](#) **parsedMatch**

Description of the Field

Since:

2.0

metaMatchName

java.lang.String **metaMatchName**

Description of the Field

Since:

2.0

content

`byte [] content`

Description of the Field

Since:

2.0

targetURL

`com.cisco.proxy.http.NetURL targetURL`

Description of the Field

Since:

2.0

baseHref

java.lang.String **baseHref**

Description of the Field

Since:

2.0

linkColor

java.lang.String **linkColor**

Description of the Field

Since:

2.0

originalRequestData

[LightweightRequestData](#) **originalRequestData**

Class [com.cisco.proxy.rules.HtmlDocument](#) implements **Serializable**

Serialized Fields

contentType

java.lang.String **contentType**

charset

java.lang.String **charset**

encoding

java.lang.String **encoding**

isCharsetChangeable

boolean **isCharsetChangeable**

initialBufferSize

int **initialBufferSize**

Class [com.cisco.proxy.rules.LightweightRequestData](#)
implements **Serializable**

Serialized Fields

requestHostName

`java.lang.String requestHostName`

Description of the Field

Since:

2.0

isSecure

`boolean isSecure`

Description of the Field

Since:

1.0

requiresCredentials

boolean **requiresCredentials**

Description of the Field

Since:

1.0

usesCopyServer

boolean **usesCopyServer**

Description of the Field

Since:

1.0

isFirstSessionRequest

boolean **isFirstSessionRequest**

Description of the Field

Since:

1.0

protocol

java.lang.String **protocol**

Description of the Field

Since:

1.0

pageName

java.lang.String **pageName**

Description of the Field

Since:

1.0

session

java.lang.String **session**

Description of the Field

Since:

1.0

currentSerial

java.lang.String **currentSerial**

Description of the Field

Since:

1.0

responseSerial

java.lang.String **responseSerial**

Description of the Field

Since:

1.0

participantID

java.lang.String **participantID**

Description of the Field

Since:

1.0

remoteUserAddr

java.lang.String **remoteUserAddr**

Description of the Field

Since:

1.0

linkColor

java.lang.String **linkColor**

Description of the Field

Since:

1.0

targetURL

com.cisco.proxy.http.NetURL **targetURL**

Description of the Field

Since:

1.0

targetURLDisplay

`com.cisco.proxy.http.NetURL` **targetURLDisplay**

Description of the Field

Since:

participantProperties

`com.cisco.util.MetaProperties` **participantProperties**

Description of the Field

Since:

2.0

Class [com.cisco.proxy.rules.RequestData](#) implements Serializable

Serialized Fields

additionalScriptProperties

java.util.Properties **additionalScriptProperties**

Description of the Field

Since:

2.0

Class [com.cisco.proxy.rules.ParsedMatch](#) implements Serializable

Serialization Methods

readObject

```
private void readObject(java.io.ObjectInputStream stream)
```

```
    throws java.io.IOException,
```

```
        java.lang.ClassNotFoundException
```

Override of standard deserialization. The matchedRule is not serialized, so we recreate the reference here.

Since:

2.0

writeObject

```
private void writeObject(java.io.ObjectOutputStream stream)
```

```
throws java.io.IOException
```

Override of standard deserialization. The `matchedRule` is not serialized to save space and time; instead, the name is written after this object so the reference can be recreated on deserialization.

Since:

2.0

Serialized Fields

originalString

```
com.cisco.util.StringBuffer12 originalString
```

Description of the Field

Since:

2.0

parent

[ParsedMatch](#) **parent**

Description of the Field

Since:

2.0

parentGroupNumber

`int parentGroupNumber`

Description of the Field

Since:

2.0

start

`int start`

Description of the Field

Since:

2.0

end

`int end`

Description of the Field

Since:

2.0

subgroups

`java.util.Vector subgroups`

isValid

`boolean isValid`

matchedAcceptName

`java.lang.String matchedAcceptName`

isDirty

boolean `isDirty`

dirtyChildCount

int `dirtyChildCount`

htmlDocument

[LightweightHtmlDocument](#) `htmlDocument`

rendered

boolean `rendered`

matchedRuleNames

java.util.Hashtable `matchedRuleNames`

Class [com.cisco.proxv.rules.ParsedMatch.MatchCount](#)

implements Serializable

Serialized Fields

this\$0

[ParsedMatch](#) this\$0

count

int count

Hierarchy For All Packages

Class Hierarchy

- class java.lang.Object
 - class com.cisco.proxy.rules.[LightweightHtmlDocument](#) (implements java.io.Serializable)
 - class com.cisco.proxy.rules.[HtmlDocument](#) (implements java.io.Serializable)
 - class com.cisco.proxy.rules.[LightweightRequestData](#) (implements java.io.Serializable)
 - class com.cisco.proxy.rules.[RequestData](#) (implements java.io.Serializable)
 - class com.cisco.proxy.rules.MatchSubgroup (implements java.lang.Cloneable, java.io.Serializable)
 - class com.cisco.proxy.rules.[ParsedMatch](#)
 - class com.cisco.proxy.rules.[ParsedMatch.MatchCount](#) (implements java.io.Serializable)
- class com.cisco.proxy.rules.[JSTagURL](#)
- class com.cisco.proxy.rules.[JSTextSearch](#)

Deprecated API

None

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C

[clone\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Clones this object.

G

[getAdditionalScriptProperties\(\)](#) - Static method in class com.cisco.proxy.rules.[RequestData](#)

Gets any additional script properties that may be attached to this request.

[getCacheRoot\(\)](#) - Static method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the cacheRoot attribute of the LightweightRequestData class

[getCacheRootJS\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Non-static version of getCacheRoot for JavaScript usage

[getCharset\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Returns the document's current charset, which may be null if it is unknown.

[getCharset\(\)](#) - Method in class com.cisco.proxy.rules.[HtmlDocument](#)

Gets the charset attribute of the HtmlDocument object.

[getClassName\(\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Gets the className attribute of the JSTagURL object

[getClassName\(\)](#) - Method in class com.cisco.proxy.rules.[JSTextSearch](#)

Returns the class name of this object visible in JavaScript.

[getContent\(\)](#) - Method in class com.cisco.proxy.rules.[HtmlDocument](#)

Returns the document as an unchanged byte array.

[getContent\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Returns the document as an unchanged byte array.

[getCorrectPort\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the correct port based on the protocol for the target URL of this request.

[getCorrectPort\(String\)](#) - Static method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the correct proxy server port for a request to the specified protocol.

[getCorrectPortJS\(String\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

* Non-static version of getCorrectPort for JavaScript usage

[getCurrentSerial\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the current serial number of the request, as included in a link, form, etc.

[getDocument\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Gets the document attribute of the ParsedMatch object

[getDocumentCookie\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#) and com.cisco.proxy.rules.[RequestData](#)

Gets the cookies that are relevant to the current document.

[getDocumentCookie\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Gets the cookies that are relevant to the current document.

[getFullHtml\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Converts document object back to an HTML string for output to client, formatting links, etc.

[getFullHtml\(\)](#) - Method in class com.cisco.proxy.rules.[HtmlDocument](#)

Converts document object back to an HTML string for output to client, formatting links, etc.

[getFullHtml\(LightweightRequestData\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Converts document object back to an HTML string for output to client, formatting links, etc.

[getGroup\(int\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Get the contents of a given subgroup.

[getGroupCount\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns the number of groups in this match.

[getHashKey\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the hash key for a response using this object.

[getHostName\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns host name of target URL.

[getHostPort\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the port of target URL.

[getLinkColor\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the link color for the current request.

[getLinkColor\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Returns the link color to be used in the current document.

[getMatchedAcceptName\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns the name of the accept statement that matched this collection of groups.

[getMatchedRuleName\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns the name of the rule which was matched to produce this object.

[getMetaMatch\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Gets the metaMatch attribute of the ParsedMatch object

[getPageName\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the page name of the current request.

[getParticipantID\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the participant ID extracted from the current request.

[getProtocol\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns target protocol

[getProxyBasePath\(\)](#) - Static method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the proxy server base URL, to which a query parameter will be added where necessary.

[getProxyBasePathJS\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

* Non-static version of getProxyBasePath for JavaScript usage

[getProxyBaseURL\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the current proxy server base url based on current request parameters (which port, proxy server name and base path).

[getProxyBaseWithoutProtocol\(String\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the proxy URL base without an included protocol.

[getProxyPort\(\)](#) - Static method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the default proxy port (HTTP)

[getProxyPortJS\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

* Non-static version of getProxyPort for JavaScript usage

[getProxySecurePort\(\)](#) - Static method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the proxy server secure port (HTTPS)

[getProxySecurePortJS\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

* Non-static version of getProxySecurePort for JavaScript usage

[getProxySession\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Gets the proxySession attribute of the RequestData object

[getRemoteAddr\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the address from which the request was made.

[getRequestHostName\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the host name used to make this request

[getRequestProtocol\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the protocol by which the request was made

[getResponseSerial\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#).

Returns the serial number for the current response.

[getResponseSerial\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Returns the response serial.

[getRuleMatchCount\(String\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns the count of the number of times a given rule was matched.

[getRuleMatches\(String\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns an array of ParsedMatches that were matched by a given Rule name.

[getSession\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the session attribute of the LightweightRequestData object

[getSessionUserAgentAppCodeName\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the sessionUserAgentAppCodeName attribute of the LightweightRequestData object.

[getSessionUserAgentAppCodeName\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Gets the sessionUserAgentAppCodeName attribute of the RequestData object.

[getSessionUserAgentAppName\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the sessionUserAgentAppName attribute of the LightweightRequestData object.

[getSessionUserAgentAppName\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Gets the sessionUserAgentAppName attribute of the RequestData object.

[getSessionUserAgentAppVersion\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Gets the sessionUserAgentAppVersion attribute of the

LightweightRequestData object.

[getSessionUserAgentAppVersion\(\)](#) - Method in class com.cisco.proxy.rule.[RequestData](#)

Gets the sessionUserAgentAppVersion attribute of the RequestData object.

[getSessionUserAgentHeader\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#) and com.cisco.proxy.rules.[RequestData](#)

Gets the sessionUserAgentHeader attribute of the LightweightRequestData object.

[getString\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns the this object as a flattened string.

[getTargetURL\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the full target URL for this request.

[getTargetURLDisplay\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns the full display target URL.



I

[isContentTypeText\(\)](#) - Method in class com.cisco.proxy.rules.[HTMLDocument](#)

Returns true if a content type is to be treated as text, according to configuration.

[isDomain Proxied\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Gets the domainProxied attribute of the RequestData class.

[isFirstSessionRequest\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns true if this is the first request being made in the associated session.

[isGroupValid\(int\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Gets the groupValid attribute of the ParsedMatch object

[isNormalProxyRequest\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Used to determine if the request has accessed the proxy server via a "normal" URL, ie one of the form: http:// / ?url= Parsing parameters in non-normal requests is handled differently than normal requests. .

[isRendered\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns true if the rule has already been rendered, meaning the script has been executed.

[isSecure\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns true if this request is secure (made via SSL/HTTPS).

[isSecure\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Returns true if this document is secure.

[isTargetSecure\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns true if the connection to the target server is secure (SSL/HTTPS).

[isTextContent\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Returns true if this document is text content (content that can be parsed).

[isValid\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns true if this subgroup's value is valid.

J

[jsConstructor\(String, String, String\)](#) - Method in class

com.cisco.proxy.rules.[JSTextSearch](#)

Constructor for a new text search object.

[jsFunction buildCacheLink\(Object\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Builds a link that will point to the cache on the DCA.

[jsFunction buildCompleteLink\(Object\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Builds a complete, DCA-referencing link based on this object and the request data supplied.

[jsFunction find\(\)](#) - Method in class com.cisco.proxy.rules.[JSTextSearch](#)

Returns the next index of the pattern, starting at the end of the last search.

[jsFunction getAnchor\(\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Returns the anchor/ref of the URL, if there is one.

[jsFunction getFullTagURL\(boolean\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Recreates the original URL, based on the document URL if necessary.

[jsFunction getPath\(\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Returns the path of the URL, including the file name.

[jsFunction getQuery\(\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Returns the URL's query string.

[jsFunction toString\(\)](#) - Method in class com.cisco.proxy.rules.[JSTagURL](#)

Description of the Method

[JSTagURL](#) - class com.cisco.proxy.rules.[JSTagURL](#).

Class providing URL formatting functions for use in the Rhino JavaScript environment.

[JSTagURL\(\)](#) - Constructor for class com.cisco.proxy.rules.[JSTagURL](#)

Constructor for the JSTagURL object

[JSTagURL\(String, Object\)](#) - Constructor for class com.cisco.proxy.rules.[JSTagURL](#)

Constructor for the JSTagURL object

[JSTextSearch](#) - class com.cisco.proxy.rules.[JSTextSearch](#).

JavaScript host object providing a fast text search using the Horspool algorithm.

[JSTextSearch\(\)](#) - Constructor for class com.cisco.proxy.rules.[JSTextSearch](#)

Constructor for the JSTextSearch object

L

[length\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Returns the length of this object's string.

[LightweightHtmlDocument](#) - class
com.cisco.proxy.rules.[LightweightHtmlDocument](#).

Class representing a parsed HtmlDocument.

[LightweightHtmlDocument\(\)](#) - Constructor for class
com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Constructor for the LightweightHtmlDocument object

[LightweightHtmlDocument\(byte\[\], NetURL, boolean, LightweightRequestData\)](#) - Constructor for class
com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Creates and parses an Html document which may or may not be text.

[LightweightHtmlDocument\(String, NetURL, boolean, RuleEngine,](#)

[LightweightRequestData](#) - Constructor for class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Creates and parses an Html document which may or may not be text.

[LightweightRequestData](#) - class com.cisco.proxy.rules.[LightweightRequestData](#).

Request data object, used as a container for request information during a proxy request or document parsing.

[LightweightRequestData\(NetURL, String, String, String, String, MetaProperties, boolean, boolean, String, boolean, String\)](#) - Constructor for class com.cisco.proxy.rules.[LightweightRequestData](#)

Standard constructor.

P

[ParsedMatch](#) - class com.cisco.proxy.rules.[ParsedMatch](#).

Class representing the results of a regular expression match.

[ParsedMatch.MatchCount](#) - class com.cisco.proxy.rules.[ParsedMatch.MatchCount](#).

Description of the Class

R

[render\(LightweightRequestData, ScriptEnvironment\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Renders this object according to the parameters provided in requestData.

[requiresCredentials\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns true if this request requires HTTP authentication credentials to be

sent to the target server.

S

[setAdditionalScriptProperties](#) - Method in class `com.cisco.proxy.rules.RequestData`

Sets additional per-request script properties. Used to pass properties to script in request URL.

[setCacheRoot\(String\)](#) - Static method in class `com.cisco.proxy.rules.LightweightRequestData`

Sets the `cacheRoot` attribute of the `LightweightRequestData` class

[setCharset\(String\)](#) - Method in class `com.cisco.proxy.rules.LightweightHtmlDocument`

Sets the document's charset.

[setCharset\(String\)](#) - Method in class `com.cisco.proxy.rules.HtmlDocument`

Sets the `charset` attribute of the `HtmlDocument` object.

[setDoRender\(boolean\)](#) - Method in class `com.cisco.proxy.rules.ParsedMatch`

Set this instance to render or not.

[setGroup\(int, String\)](#) - Method in class `com.cisco.proxy.rules.ParsedMatch`

Sets the value of a subgroup to the provided String.

[setGroupJS\(int, String\)](#) - Method in class `com.cisco.proxy.rules.ParsedMatch`

Sets a particular subgroup to a new string.

[setIsSecure\(boolean\)](#) - Method in class `com.cisco.proxy.rules.LightweightRequestData`

Used to alter the security context of the current request.

[setIsSecure\(boolean\)](#) - Method in class
com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Sets the document's security context.

[setLinkColor\(String\)](#) - Method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the link color for embedded links in the current request.

[setLinkColor\(String\)](#) - Method in class
com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Sets the link color for the current document.

[setProxiedDomains](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Sets domain patterns for use in determining which domains will be proxied. .

[setProxyBasePath\(String\)](#) - Static method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the base URL for the proxy server.

[setProxyPort\(String\)](#) - Static method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the proxy server port (HTTP)

[setProxySecurePort\(String\)](#) - Static method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the proxy server secure port (HTTPS)

[setResponseCacheSize\(\)](#) - Method in class com.cisco.proxy.rules.[HtmlDocument](#)

Sets the size of the formatted response cache.

[setResponseSerial\(String\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Sets the response serial for the current request before the HTML returned to the client is translated.

[setResponseSerial\(String\)](#) - Method in class

com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the response serial for the current request.

[setTargetURL\(NetURL\)](#) - Method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the target URL.

[setTargetURL\(NetURL\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Sets the target URL attribute of the RequestData object..

[setTargetURL\(String\)](#) - Method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the target URL.

[setTargetURLString\(String\)](#) - Method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets the target URL.

[setTextContentTypes\(\)](#)- Method in class com.cisco.proxy.rules.[HtmlDocument](#)

Sets the textContentTypes attribute of the HtmlDocument class.

[setUsesCopyServer\(boolean\)](#) - Method in class
com.cisco.proxy.rules.[LightweightRequestData](#)

Sets this request to use the copy server.

T

[toString\(\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Description of the Method

[toString\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns a string containing information in this object for the current request.

[toString\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Returns a string containing information in this object for the current request.

[toString\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightHtmlDocument](#)

Description of the Method

[toString\(\)](#) - Method in class com.cisco.proxy.rules.[HtmlDocument](#)

Description of the Method

[toString\(String\)](#) - Method in class com.cisco.proxy.rules.[ParsedMatch](#)

Description of the Method

[toStringOneLine\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns a string containing an abbreviated list of information in this object for the current request.

[toStringOneLine\(\)](#) - Method in class com.cisco.proxy.rules.[RequestData](#)

Returns a string containing an abbreviated list of information in this object for the current request.

U

[usesCopyServer\(\)](#) - Method in class com.cisco.proxy.rules.[LightweightRequestData](#)

Returns true if this request is going to use the copy server (be stored for a period of time).

W

[wasRuleMatched\(String\)](#) - Method in class `com.cisco.proxy.rules.ParsedMatch`

Returns true if a given rule name was matched anywhere in the document of which the current `ParsedMatch` is a member.

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