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gov.ed.fsa.eai.frontend

Class EAIpool

```
java.lang.Object
|
+--gov.ed.fsa.eai.frontend.EAIpool
```

All Implemented Interfaces:

[IEAI](#)

```
public class EAIpool
extends java.lang.Object
implements IEAI
```

This class acts as a front-end for sending/receiving to/from MQSeries.

Author:

Barnet Malkin

Constructor Summary

[EAIpool](#)()

Method Summary

| | |
|---------------------|--|
| byte[] | receiveMessageByteArray (java.lang.String strServiceName, int iOlderThanSeconds) Search a queue for messages that are older than a specified number of seconds and return the first message that is. |
| java.util.ArrayList | receiveMessagesByteArrays (java.lang.String strServiceName, int iOlderThanSeconds) Gets all messages from a queue that are older than a specified number of seconds and returns them in an ArrayList. |
| java.util.ArrayList | receiveMessagesStrings (java.lang.String strServiceName, int iOlderThanSeconds) Gets all messages from a queue that are older than a specified number of seconds and returns them in an ArrayList. |
| java.lang.String | receiveMessageString (java.lang.String strServiceName, |

| | |
|------------------|--|
| | <pre>int iOlderThanSeconds)</pre> <p>Search a queue for messages that are older than a specified number of seconds and return the first message that is.</p> |
| void | <pre>sendDatagram(java.lang.String strServiceName, byte [] baDatagramRecord)</pre> <p>This method sends a data packet to another location defined by a String called a "service name".</p> |
| void | <pre>sendDatagram(java.lang.String strServiceName, java.lang.String strDatagramRecord)</pre> <p>This method sends a data packet to another location defined by a String called a "service name".</p> |
| byte[] | <pre>sendRequestReceiveReply(java.lang.String strServiceName, byte [] baRequestRecord, long lWaitSeconds)</pre> <p>This method sends a request to a remote system, waits for a reply, and then returns that reply to the caller.</p> |
| java.lang.String | <pre>sendRequestReceiveReply(java.lang.String strServiceName, java.lang.String strRequestRecord, long lWaitSeconds)</pre> <p>This method sends a request to a remote system, waits for a reply, and then returns that reply to the caller.</p> |
| void | <pre>setMQCICS(boolean bFlag)</pre> <p>Set MQ CICS mode on and off</p> |

Methods inherited from class java.lang.Object

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

Constructor Detail

EAIpool

```
public EAIpool()
```

Method Detail

receiveMessageByteArray

```
public byte[] receiveMessageByteArray(java.lang.String strServiceName,
int iOlderThanSeconds)
throws EAIException
```

Search a queue for messages that are older than a specified number of seconds and return the first message that is.

Specified by:

[receiveMessageByteArray](#) in interface [IEAI](#)

Parameters:

`strServiceName` - The service name that defines the MQ transport mechanism.

`iOlderThanSeconds` - The number of seconds a message has been on the queue before it is picked up by this method.

Returns:

The response to the request

Throws:

[EAIException](#) - Thrown in case of internal EAI or MQSeries error.

receiveMessagesByteArrays

```
public java.util.ArrayList receiveMessagesByteArrays(java.lang.String strServiceName,
                                                       int iOlderThanSeconds)
    throws EAIException
```

Gets all messages from a queue that are older than a specified number of seconds and returns them in an ArrayList.

Specified by:

[receiveMessagesByteArrays](#) in interface [IEAI](#)

Parameters:

`strServiceName` - Used to derive the MQSeries queue name.

`iOlderThanSeconds` - The number of seconds old a message must be to be retrieved.

Returns:

List of messages meeting the time criterion.

Throws:

[EAIException](#) - If an MQ error occurs.

receiveMessagesStrings

```
public java.util.ArrayList receiveMessagesStrings(java.lang.String strServiceName,
                                                    int iOlderThanSeconds)
    throws EAIException
```

Gets all messages from a queue that are older than a specified number of seconds and returns them in an ArrayList.

Specified by:

[receiveMessagesStrings](#) in interface [IEAI](#)

Parameters:

`strServiceName` - Used to derive the MQSeries queue name.

`iOlderThanSeconds` - The number of seconds old a message must be to be retrieved.

Returns:

List of messages meeting the time criterion.

Throws:

[EAIException](#) - If an MQ error occurs.

receiveMessageString

```
public java.lang.String receiveMessageString(java.lang.String strServiceName,  
                                             int iOlderThanSeconds)  
    throws EAIException
```

Search a queue for messages that are older than a specified number of seconds and return the first message that is.

Specified by:

[receiveMessageString](#) in interface [IEAI](#)

Parameters:

`strServiceName` - The service name that defines the MQ transport mechanism.

`iOlderThanSeconds` - The number of seconds a message has been on the queue before it is picked up by this method.

Returns:

The response to the request

Throws:

[EAIException](#) - Thrown in case of internal EAI or MQSeries error.

sendDatagram

```
public void sendDatagram(java.lang.String strServiceName,  
                          byte[] baDatagramRecord)  
    throws EAIException
```

Description copied from interface: [IEAI](#)

This method sends a data packet to another location defined by a String called a "service name". The method by which the "service name" describes the destination is implementation dependant.

Specified by:

[sendDatagram](#) in interface [IEAI](#)

Parameters:

`strServiceName` - The implementation dependant description of the data destination.

`baDatagramRecord` - The packet of data to be transmitted.

[EAIException](#)

sendDatagram

```
public void sendDatagram(java.lang.String strServiceName,  
                          java.lang.String strDatagramRecord)  
    throws EAIException
```

Description copied from interface: [IEAI](#)

This method sends a data packet to another location defined by a String called a "service name".

The method by which the "service name" describes the destination is implementation dependant.

Specified by:

[sendDatagram](#) in interface [IEAI](#)

Parameters:

`strServiceName` - The implementation dependant description of the data destination.

`strDatagramRecord` - The packet of data to be transmitted.

[EAIException](#)

sendRequestReceiveReply

```
public byte[] sendRequestReceiveReply(java.lang.String strServiceName,  
                                       byte[] baRequestRecord,  
                                       long lWaitSeconds)  
    throws EAIException
```

This method sends a request to a remote system, waits for a reply, and then returns that reply to the caller. The specific application of this API is defined by the particular `serviceName`.

Specified by:

[sendRequestReceiveReply](#) in interface [IEAI](#)

Parameters:

`strServiceName` - The AMI service name that defines the MQ transport mechanism.

`baRequestRecord` - The request to be sent to the remote system.

`lWaitSeconds` - The number of seconds to wait for a response before timing out.

Returns:

The response to the request

Throws:

[EAIException](#) - Thrown in case of internal EAI or MQSeries error.

sendRequestReceiveReply

```
public java.lang.String sendRequestReceiveReply(java.lang.String strServiceName,  
                                                java.lang.String strRequestRecord,  
                                                long lWaitSeconds)  
    throws EAIException
```

This method sends a request to a remote system, waits for a reply, and then returns that reply to the caller. The specific application of this API is defined by the particular `serviceName`.

Specified by:

[sendRequestReceiveReply](#) in interface [IEAI](#)

Parameters:

`strServiceName` - The AMI service name that defines the MQ transport mechanism.

`strRequestRecord` - The request to be sent to the remote system.

`lWaitSeconds` - The number of seconds to wait for a response before timing out.

Returns:

The response to the request

Throws:

[EAIException](#) - Thrown in case of internal EAI or MQSeries error.

setMQCICS

```
public void setMQCICS(boolean bFlag)
```

Set MQ CICS mode on and off

Specified by:

[setMQCICS](#) in interface [IEAI](#)

Parameters:

bFlag - True for CICS mode, false otherwise.

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