APS RabbitMQ Message Service Provider

User Guide

Version: 0.9.3

Author: Tommy Svensson

Copyright © 2013 Natusoft AB

Table of Contents

1 APS RabbitMQ Message Service Provider	1
1.1 APSMessageService API	1

1 APS RabbitMQ Message Service Provider

This service provides an implementation of APSMessageService using RabbitMQ.

1.1 APSMessageService API

Javadoc

public interface APSMessageService [se.natusoft.osgi.aps.api.net.messaging.service] {

Defines a message service.

boolean queueExists(String name)

Checks if the named queue exists.

Returns

true if queue exists, false otherwise.

Parameters

name - The name of the queue to check.

Queue defineQueue(String name) throws APSMessageException

Defines a queue that lives as long as the queue providing service lives.

If the queue already exist nothing happens. If the queue is of another type an *APSMessageException* could possibly be throws depending on implementation and underlying service used.

Parameters

name - The name of the queue to define.

Throws

APSMessageException - (possibly) on trying to redefine type.

Queue defineDurableQueue(String name) throws APSMessageException, UnsupportedOperationException

Defines a queue that lives for a long time.

If the queue already exist nothing happens. If the queue is of another type an *APSMessageException* could possibly be thrown depending on implementation and underlying service used.

Parameters

name - The name of the gueue to define.

Throws

APSMessageException - (possibly) on trying to redefine type.

UnsupportedOperationException - If this type of queue is not supported by the implementation.

Queue defineTemporaryQueue(String name) throws APSMessageException, UnsupportedOperationException

Defines a queue that is temporary and gets deleted when no longer used.

If the queue already exist nothing happens. If the queue is of another type an *APSMessageException* could possibly be thrown depending on implementation and underlying service used.

Parameters

name - The name of the queue to define.

Throws

APSMessageException - (possibly) on trying to redefine type.

UnsupportedOperationException - If this type of queue is not supported by the implementation.

Queue getQueue(String name)

Returns the named queue or null if no such queue exists.

Parameters

name - The name of the queue to get.

public interface Queue [se.natusoft.osgi.aps.api.net.messaging.service] {

This represents a specific named queue.

String getName()

Returns the name of the queue.

Message createMessage()

Creates a new message.

Message createMessage(byte[] content)

Creates a new message.

Parameters

content - The content of the message.

void sendMessage(Message message) throws APSMessageException

Sends a message.

Parameters

message - The message to send.

Throws

APSMessageException

void addMessageListener(Message.Listener listener)

Adds a listener to received messages.

Parameters

listener - The listener to add.

void removeMessageListener(Message.Listener listener)

Removes a listener from receiving messages.

Parameters

listener - The listener to remove.

void delete() throws APSMessageException, UnsupportedOperationException

Deletes this queue.

Throws

APSMessageException - on failure.

UnsupportedOperationException - if this is not allowed by the implementation.

void clear() throws APSMessageException, UnsupportedOperationException

Clears all the messages from the queue.

Throws

APSMessageException - on failure.

UnsupportedOperationException - If this is not allowed by the implementation.

public interface Message [se.natusoft.osgi.aps.api.net.messaging.service] {

This represents a message to send/receive.

void setBytes(byte[] content)

Sets the message content bytes overwriting any previous content.

Parameters

content - The content to set.

byte[] getBytes()

Returns the message content bytes.

OutputStream getOutputStream()

Returns an OutputStream for writing message content. This will replace any previous content.

InputStream getInputStream()

Returns an InputStream for reading the message content.

public interface Listener [se.natusoft.osgi.aps.api.net.messaging.service] {

This needs to be implemented to receive messages.

void receiveMessage(String queueName, Message message)

Called when a message is received.

Parameters

queueName - The name of the queue that delivered the message.

message - The received message.

public class Provider implements Message [se.natusoft.osgi.aps.api.net.messaging.service] {

A simple default implementation of message.

public Provider()

Creates a new Provider.

public *static class* **APSMessageException** extends APSRuntimeException [se.natusoft.osgi.aps.api.net.messaging.service] {

Thrown on sendMessage(). Please note that this is a runtime exception!

public APSMessageException(String message)

Creates a new APSMessageException.

Parameters

message - The exception message.

public APSMessageException(String message, Throwable cause)

Creates a new APSMessageException.

Parameters

message - The exception message.

cause - The cause of this exception.

}