# APS RabbitMQ Message Service Provider

User Guide

Version: 1.0.0

Author: Tommy Svensson

Copyright © 2012 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 APSClusterService [se.natusoft.osgi.aps.api.net.messaging.service] {

This service defines a synchronized cluster.

# void clusterUpdated(String key, JSONValue value)

Receives an updated value.

#### **Parameters**

key - The key of the updated value.

value - The actual value.

# void update(String key, JSONValue value)

Updates a keyed value to the cluster.

# Parameters

key - This uniquely specifies what value this is. How it is used is upp to the actual cluster using it.

value - The modified value to update.

# void addUpdateListener(UpdateListener updateListener)

Adds an update listener.

#### **Parameters**

updateListener - The update listener to add.

# void removeUpdateListener(UpdateListener updateListener)

Removes an update listener.

#### **Parameters**

updateListener - The listener to remove.

#### JSONObject getNamedObject(String name)

Gets named cluster-wide object. If it does not exist it will be created.

#### **Parameters**

name - The name of the cluster object to get.

#### Throws

UnsupportedOperationException - if this feature is not supported.

# List<JSONValue> getNamedList(String name)

Gets a cluster-wide named list. If it does not exist it will be created.

#### **Parameters**

name - The name of the list to get.

#### **Throws**

UnsupportedOperationException - if this feature is not supported.

# List<UpdateListener> listeners = Collections.synchronizedList(new LinkedList<UpdateListener>())

The listeners.

#### protected void updateListeners(String key, JSONValue value)

Updates all listeners.

# **Parameters**

key - The key of the update.

value - The value of the update.

# protected List<UpdateListener> getListeners()

Returns the listeners.

}

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

This defines a simple message service. Can be implemented by using a message bus like RabbitMQ, Active MQ, etc or just a simple tcpip server or whatever.

Since the actual members are outside of this service API, it doesn't really know who they are and doesn't care, all members are defined by configuration to make a cluster of members.

# void addMessageListener(APSMessageListener listener)

aps-rabbitmq-message-service-provider Adds a listener for types. **Parameters** listener - The listener to add. void removeMessageListener(APSMessageListener listener) Removes a messaging listener. **Parameters** listener - The listener to remove. void sendMessage(JSONObject message) throws APSMessagingException Sends a message. **Parameters** message - The message to send. **Throws** se.natusoft.osgi.aps.api.net.messaging.exception.APSMessagingException - on failure. void messageReceived(JSONObject message) This is called when a message is received. **Parameters** message - The received message. public static abstract class AbstractMessageServiceProvider implements APSMessageService [se.natusoft.osgi.aps.api.net.messaging.service] { Provides an abstract implementation of the APSMessageService interface. protected void sendToListeners(JSONObject message) Sends a message to the registered listeners. **Parameters** message - The message to send.

protected List<APSMessageListener> getMessageListeners()

Returns the message listeners.

}

#### Page 3