CTX-Oracle-WebLogic User Guide

Contents

Versions

Document Revisions

The following revisions have been made to this document

Date	Revision	Notes
19/02/2019	1.0	First Release.

Module Versions

The updates have been made to this module, starting with the most recent

Module Version	Release Date	Comments
1.0	19/02/2019	Creation of: • OracleWebLogic-QP-Queue-Poster • OracleWebLogic-QR-Queue-Reader

Preface

About this User Guide

The User Guide is designed to give an overview of the CTX-Oracle-WebLogic module.

Audience

This document is designed for people interested in the CTX-Oracle-WebLogic module.

Abbreviations

JMS   Java Message Service

Requirements

The CTX-Oracle-WebLogic module requires the following:

- WebLogic Server 12.2.1.3.0
    - The module was developed against this version of WebLogic. Functionality may not work in earlier versions.
- WebLogic.Messaging.dll
- Cortex PowerShell OCI

1 Module Subtasks

1.1 OracleWebLogic-QP-Queue-Poster

1.1.1 Overview

This subtask writes a message to the defined JMS queue. It is possible to specify the message body, priority, type, correlation ID and properties.

1.1.2 Input variables

Name	Type	Comments
QP_i_DLL-Path	Text	REQUIRED, the folder path to where the WebLogic.Messaging.dll is stored in your Cortex system. Example: C:\Cortex
QP_i_Server-Name	Text	REQUIRED, the server name or ip where Oracle WebLogic is running. Example: localhost
QP_i_Server-Port	Text	REQUIRED, the server port where Oracle WebLogic is running. Example: 7001
QP_i_Queue-Name	Text	REQUIRED, the Oracle WebLogic Connection Factory binding name. Example: com.oracle.webservices.api.jms.ConnectionFactory
QP_i_Factory-Name	Text	REQUIRED, the Oracle WebLogic Queue binding name. Example: com.oracle.webservices.api.jms.RequestQueue
QP_i_Message-Body	Text	REQUIRED, the message body contains a String object. This message type can be used to transport plain-text messages, and XML messages. Example: New message from Cortex
QP_i_DLL-Name	Text	The WebLogic.Messaging.dll name (in case it changes). Default value is set to WebLogic.Messaging.dll Example: WebLogic.Messaging.dll
QP_i_Username	Text	The username used when opening a connection. If not set, connection will be opened using anonymous user. Example: Cortex_User
QP_i_Password	Text	The password for the user used when opening a connection (plain text or Cortex encrypted). If not set, connection will be opened using anonymous user. Example: "#_033187043018023!18507022407007924425215621322 04055~221041149174169!0390362501260660912160 65197014114#"

QP_i_Message-Priority	Text	The JMS API defines ten levels of priority value, with 0 as the lowest priority and 9 as the highest. If not set, JMS API defaults value to 4. Example: 7
QP_i_Message-Type	Text	The JMSType header field. If not set, JMS API defaults to null. Example: Cortex-Message
QP_i_Message-CorrelationID	Text	The JMSCorrelationID header field. It can hold a value referencing some external information or another message ID. If not set, JMS API default to null. Example: 7F74CDD07DD347C197B5F15B2CB454A3

QP_i_Message-Properties	Structure	A set of key/value pairs that will be used to create message properties. The format should be <propertyName>:<propertyValue>
		
		Example:
		
		{
		  "Property1": "A",
		  "Property2": "B"
		}

1.2 OracleWebLogic-QR-Queue-Reader

1.2.1 Overview

This subtask reads a message from the defined JMS queue. It is possible to specify a message selector query and if the message should be acknowledged after reading it.

1.2.2 Input variables

Name	Type	Comments
QR_i_DLL-Path	Text	REQUIRED, the folder path to where the WebLogic.Messaging.dll is stored in your Cortex system. Example: C:\Cortex
QR_i_Server-Name	Text	REQUIRED, the server name or ip where Oracle WebLogic is running. Example: localhost
QR_i_Server-Port	Text	REQUIRED, the server port where Oracle WebLogic is running. Example: 7001
QR_i_Queue-Name	Text	REQUIRED, the Oracle WebLogic Connection Factory binding name. Example: com.oracle.webservices.api.jms.ConnectionFactory
QR_i_Factory-Name	Text	REQUIRED, the Oracle WebLogic Queue binding name. Example: com.oracle.webservices.api.jms.RequestQueue

QR_i_DLL-Name	Text	The WebLogic.Messaging.dll name (in case it changes). Default value is set to WebLogic.Messaging.dll Example: WebLogic.Messaging.dll
QR_i_Username	Text	The username used when opening a connection. If not set, connection will be opened using anonymous user. Example: Cortex_User
QR_i_Password	Text	The password for the user used when opening a connection (plain text or Cortex encrypted). If not set, connection will be opened using anonymous user. Example: "#_033187043018023!18507022407007924425215621320 4055~221041149174169!03903625012606609121606 5197014114#"
QR_i_Message-Selector-Query	Text	A JMS message selector allows to specify, by header field references and property references, the messages it is interested in. Only a message whose header and property values match the selector is read. Message selectors cannot reference message body values. Based on a subset of the SQL92 conditional expression syntax. More info: https://docs.oracle.com/cd/E12839_01/apirefs.1111/e13943/WebLogic.Messaging.IMessage.html > Message Selectors Examples: "JMSType = 'car' AND color = 'blue' AND weight > 2500" "JMSMessageID = 'ID:<95183.1550578802776.0>'"
QR_i_Acknowledge-Message	Text	True or False value to control if the message is acknowledged and deleted from the server after reading it. Default value is set to True. Example: True

1.2.3   Output variables

Name	Type	Comments

QR_o_Message	Structure	Structure containing the JMS message properties.
		
		Example:
		
		{
		  "TEXT": "Message sent from Cortex.",
		  "JMSMESSAGEID": "ID:<95183.1550590045094.0>",
		  "JMSTIMESTAMP": 1550590045094,
		  "JMSCORRELATIONIDASBYTES": null,
		  "JMSCORRELATIONID": null,
		  "JMSREPLYTO": null,
		  "JMSDESTINATION": {
		    "QUEUENAME": "WseeSoapjmsJmsModule!com.oracle.webservices.api.jms.RequestQueue",
		    "ISQUEUE": true,
		    "ISTOPIC": false,

```
          "PROXYDESTINATION": {},
          "NAME":
"WseeSoapjmsJmsModule!com.oracle.webservices.api.jms.Re
questQueue",
          "CREATEDESTINATIONARGUMENT":
"WseeSoapjmsJmsServer/WseeSoapjmsJmsModule!com.oracle
.webservices.api.jms.RequestQueue",
          "DESTINATIONTYPE": 1,
          "ISTEMPORARY": false
        },
        "JMSDELIVERYMODE": 2,
        "JMSREDELIVERED": false,
        "JMSTYPE": null,
        "JMSEXPIRATION": 0,
        "JMSPRIORITY": 8,
        "PROPERTIES": {
          "JMS_BEA_REDELIVERYLIMIT": "1073741823",
          "JMS_BEA_DELIVERYTIME": "1550590045094",
          "PROPERTY2": "B",
          "PROPERTY1": "A",
          "JMSXDELIVERYCOUNT": "1"
        }
      }
```