

Universal Command Agent for SOA 5.1.0

MQ Connector

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Getting Started with Universal Command Agent for SOA - MQ Connector 5.1.0

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Objective

The objective of this document is to assist in the following activities regarding the Universal Command Agent for SOA: MQ Connector:

- Installing Workload Automation for SOA 5.1.0, which is comprised of:
 - Universal Command Agent for SOA
 - Universal Event Monitor for SOA
- Running Universal Command Agent for SOA with an MQ Connector.

Installation Requirements

The following is required for running Universal Command Agent for SOA with an MQ Connector:

- Workload Automation 5.1.0.0 or later (32-bit package); installed, licensed, and running.
- MQ Environment version 6 or later, with working queues.
- MQ Client jar files for native communication to MQ must be in the following path:

```
/opt/universal/uac/container/webapps/axis2/WEB-INF/lib
```

```
com.ibm.mq.commonservices.jar
com.ibm.mq.jar
com.ibm.mq.pcf.jar
com.ibm.mq.headers.jar
com.ib.mq.jmqi.jar
connector.jar
```

The MQ Client for Java version 7.0 package with the latest fix pack is recommended.

When using a MQ CCDT to establish connections to queue managers, 7.0.1.3 or later is highly recommended.

Installation

These instructions describe installation of the Workload Automation for SOA 5.1.0 for AIX package.

Workload Automation for SOA 5.1.0 is packaged as a compressed tar file.

The name of the Workload Automation for SOA 5.1.0 package file has the following format:

sb-soa-5.1.0.0-aix-5.3.tar.Z

(The name assumes product maintenance level 5.1.0.0 for Workload Automation for SOA 5.1.0.)

The following steps describe the unpacking and installation of Workload Automation for SOA 5.1.0:

Step 1	Create a directory (or select an existing directory) in which to save the package file.
Step 2	Save the package file into that directory.
Step 3	Uncompress and extract the installation files in the current working directory. The command to extract the files is:
	zcat sb-soa-5.1.0.0-aix-5.3.tar.Z tar xvf -
	If your operating system does not support the zcat command, use the following command:
	gunzip sb-soa-5.1.0.0-aix-5.3.tar.Z
	The output of the gunzip command provides the following tar file: tar -xvf sb-soa-5.1.0.0-aix-5.3.tar
Step 4	After the extraction is complete, run the installation script, upsinst , which executes the installp command:
	./upsinst
	An installation log is written to file install.log in the current directory. upsinst automatically restarts the Universal Broker daemon, ubrokerd , at the end of the install.
Step 5	From the license file that was sent to you by Stonebranch, Inc., add the license information to the following file: /etc/universal/uacs.conf
Step 6	Recycle ubroker using the following commands (cd to /opt/universal/ubroker)
	First:
	./ubrokerd stop
	Then:
	./ubrokerd start

Step 7 Use the uquery command (cd to /opt/universal/bin) to validate that the Universal Application Container Server component of Universal Command Agent for SOA 5.1.0 is running: uquery -i localhost (or the name of your server) The output should have the following format: Component ID.....: 1360109684 Component Name.....: uac (Server) Component Description....: Universal Application Container Server Component Version.....: 5.1.0 Level 0 Release Build 101 Component Type.....: uac Component Process ID....: 23331000 Component Start Time.....: 18:14:42 Component Start Date.....: 02/05/13 Component Command ID.....: uac Component State....: REGISTERED Component MGR UID.....: Component MGR Work ID.....: Component MGR Host Name...: Component MGR IP Address..: Component MGR Port.....: Component Comm State....: ESTABLISHED Component Comm State Time.: 18:14:44 Component Comm State Date.: 02/05/13 Component MGR Restartable.: NO Component Comment.....:

MQ Environment Verification

Verify that you have a working MQ environment. You must define the following MQ values, as these are needed for the Universal Command Agent for SOA jobs that you will submit: queuemanager, queuename, and channel.

You now can run jobs in MQ using the Universal Command Agent for SOA: MQ Connector.

Running a Universal Command Agent for SOA Job on z/OS Connecting to MQ Connector

Step 1 Create the UCMD Manager JCL. This provides the UCMD Manager options, references to the MQ Connector options, and the payload. It has the following format: //XXXXXXXX JOB CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID 000002 //* 000004 //*MQ queue test for Publish 000005 //*UCMD is the proc that calls UC Manager 000006 //*LOGON is the DD with userid and passwd (can use encrypted) 000007 //*SCR is the script that contains the MQConnector information 000008 //* to connect to an MQ Broker* 000009 //*UNVIN provides the payload for the SCRIPT in SCR* 000010 //**************** ****** 000011 //* 000012 //* JCLLIB ORDER=LIB.V3207.UNV.UNVCONF 000013 //* 000014 //UCMD EXEC UCMDPRC 000015 //LOGON DD DISP=SHR,DSN=USER123.UAC.LOGON(USER) 000016 //SCR DD DISP=SHR, DSN=USER123.UAC.SCR(MQPUB) 000016 //SCK DD DISFESHR, DSN=USER123.UAC.SCR(MgF0B) 000017 //UNVIN DD DISFESHR, DSN=USER123.UAC.PYL(MQPYL) 000018 //UNVOUT DD SYSOUT=* 000019 //UNVERR DD SYSOUT=* 000020 //SYSIN DD * 000021 -s scr 000022 -script_type SERVICE* 000023 -i ucaserver -f logon Step 2 Create the MQ Connector Command Options Data Set Member. This member contains the command options for the MQ Connector that specifies the required information to submit a job to the MQ environment. It is referenced with the SCR ddname and has the following format: -protocol mq -mep Publish -mqhost MQHOST -mqqueuemanagername MyQueueManager -mqqueuename UpsQaQueue -mqchannel UpsQaChannel -timeoutsec 120 Step 3 Create the Payload Data Set Member. This member contains the MQ message and is read in via STDIN. Note The LRECL length depends on the job it describes. Verify that your data set member record length can accommodate the maximum line length of your message. Example: 000001 000002 Hello...this is a payload in an MQ message.

Running a Universal Command Agent for SOA Job on UNIX Connecting to MQ Connector

