

## **Universal Command Agent for SOA 6.3.x**

### **XD Connector**

© 2016 by Stonebranch, Inc. All Rights Reserved.

# Getting Started with Universal Command Agent for SOA - XD Connector 6.3.x

- Objective
- Installation Requirements
- Installation
- Validating the WebSphere XD Environment
- Running a Universal Command Agent for SOA Job on z/OS Connecting to XD Connector

#### Objective

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

- Installing Universal Agent for SOA 6.3.x, which is comprised of:
  - Universal Command Agent for SOA
  - Universal Event Monitor for SOA
- Validating the WebSphere environment.
- Running the XD Connector on Universal Command Agent for SOA.

#### **Installation Requirements**

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

• Universal Agent 6.3.x (32-bit package): installed, licensed, and running.

#### Installation

Note

These instructions describe installation of the Universal Agent for SOA 6.3.x for the Linux x86 package.

Universal Agent for SOA 6.3.x is packaged as an RPM file (extension .rpm). It is installed using the Linux rpm command.

The name of the Universal Agent for SOA 6.3.x package file has the following format:

sb-soa-6.2.0.0-linux-2.4-i386.tar.Z

(The name assumes product maintenance level 6.2.0.0 for Universal Agent for SOA 6.3.x.)

To unpack and install Universal Agent for SOA, perform the following steps:

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-6.2.0.0-linux-2.4-i386.tar.Z   tar xvf -
	If your operating system does not support the <b>zcat</b> command, use the following command: gunzip sb-soa-6.2.0.0-linux-2.4-i386.tar.Z The output of the gunzip command provides the following <b>tar</b> file: tar -xvf sb-soa-6.2.0.0-linux-2.4-i386.tar
Step 4	After the extraction is complete, run the installation script, <b>upsinst</b> , which executes the <b>rpm</b> command:
	./upsinst
	An installation log is written to file <b>install.log</b> in the current directory. <b>upsinst</b> automatically restarts the Universal Broker daemon, <b>ubrokerd</b> , 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 /etc/universal/uacs.conf file.
Step 6	Recycle Universal Broker using the following commands (cd to /opt/universal/ubroker):
	First:
	./ubrokerd stop
	Then:
	./ubrokerd start

	Universal Command Agent for SOA 6.3.x is running: uquery -host localhost (or the name of your server)						
	The output should have the following format:						
	Component ID: 1360109684						
	Component Name: 1360109684						
	Component Description: Universal Application Container Server						
	Component Version: 6.3.x 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:						

#### Validating the WebSphere XD Environment

To ensure trouble-free operation of Universal Command Agent for SOA: XD Connector 6.3.x, the WebSphere XD environment must be set up correctly.

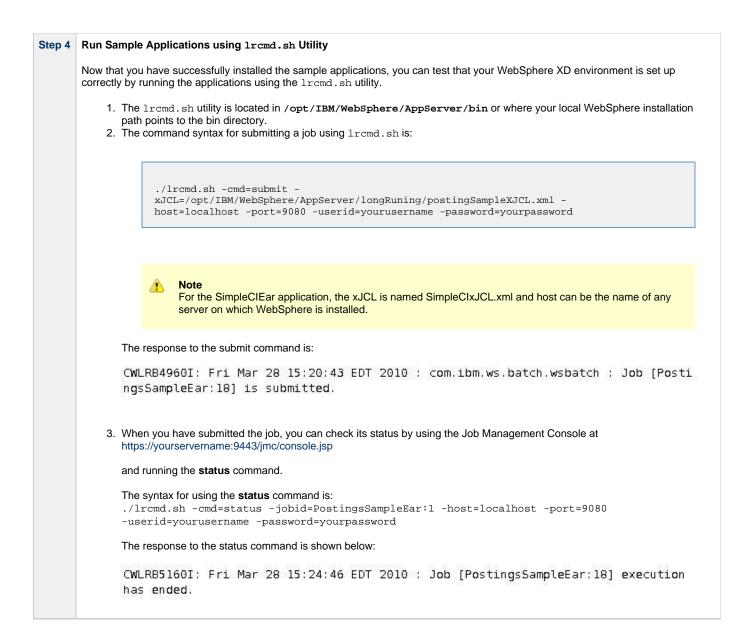
The following steps should be made before using the Universal Command Agent for SOA: XD Connector 6.3.x.

Secure administration, applications, and infra	astructure
Secure administration, applications, and ir	nfrastructure
The application serving environment is con	npletely secured when administration is
the administration and applications also ar	e secured.
Configuration	
Security Configuration Wizard	Security Configuration Report
Administrative security	
Enable administrative security	Administrative User Roles
	Administrative Group Roles
Application security	
Enable application security	
Java 2 security	
	application access to local resources
and the second se	application access to local resources

Step 2	Map Users to	o Job	Scheduler				
	Users that have been set up in WebSphere must be mapped to a user in the job scheduler before they can run operations in the job scheduler.						
	2. Click	Secu			<b>duler</b> in the Integrated Soluti <b>g</b> in the Addition Properties (		Security role to user/group
	Job se Joi Th job cha	chedul b sche s inforr arge-b Sch W. Datt LR? Datt jdt End \${C Sch LR? Sch LR? Sch Sch Sch LR? Sch Sch LR? Sch Sch Sch Sch Sch Sch Sch Sch Sch Sch	er duler scheduler accepts grid mation in an external ack accounting and e ation ral Properties eduler hosted by	job database. This ndpoint job log loc: t2Node01Cell,node	es where and when to execute the configuration panel allows the de ation to be configured for the sche essoatest2Node01,server=server1	Additional Pr Additional Pr Classific Classific Classific Security Related Item = JDBC pr	operties ation rules properties role to user/group mapping tere grid enopoints s oviders are servers
	All a The f Job s Se	ollow chedul b sche curity r ach rol	er duler > Security role role to user/group ma te that is defined in th cup users Look to	tes the results of to user/group mag	of mapping the WebSphere u	user admin to the <b>Irs</b>	registry.
			Irsubmitter			admin	
			Iradmin				

OK Cancel

install the SimpleCIEar and PostingsSampleEar applications if you want to validate the WebSphere XD installation and Command Agent for SOA: XD Connector operation. Dilications / Install New Applications in the Integrated Solutions Console menu. Keep in mind that the PostingsSamp in requires the database to be set up before you install the application. ring screen illustrates the two applications after they are installed. Applications se Applications page to manage installed applications. A single application can be deployed onto multiple servers. rences Stop Install Uninstall Update Remove File Export Export DDL Export File
n requires the database to be set up before you install the application. ring screen illustrates the two applications after they are installed.  Applications  se Applications page to manage installed applications. A single application can be deployed onto multiple servers. rences
Applications   se Applications page to manage installed applications. A single application can be deployed onto multiple servers. rences
se Applications page to manage installed applications. A single application can be deployed onto multiple servers. rences
se Applications page to manage installed applications. A single application can be deployed onto multiple servers. rences
Name 🗘 Application Status 🙆
DefaultApplication
PostingsSampleEar
SimpleCIEar
ivtApp.
auery.
5



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

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

The following z/OS examples reference the PostingsSampleEar application.

Step 1	Create the UMCD Manager JCL.					
	This provides the UCMD Manager options, references to the XD Connector options, and the xJCL payload.					
	It has the following format:					
	<pre>//UACXD1A JOB CLASS=A,MSGCLASS=X,NOTIFY=&amp;SYSUID //* //* //*torestingsSampleEar //*UCMD is the proc that calls UC Manager //*LOGON is the DD with userid and passwd (can use encrypted) //*SCR is the script that contains the XD Connector information //* to connect to Websphere job sche //*UNVIN provides the payload for the script in SCR //***********************************</pre>					
	-i yourserver -G yes -f logon					
Step 2	Create the XD Connector Command Options Data Set Member. This member contains the command options for the XD Connector that specify the required information to submit a job to the WebSpher environment. It is referenced with the SCR ddname and has the following format:					
	<pre># protocol is what protocol you are choosing(XDSOAP) # mep is the type of message (Request) # xdcmd is the xd command you want to perform (submit,restart) # cmdid is a unique identifier to match to jobid(websphere jobid) # serviceusername is the websphere user # serviceusername is the websphere user # servicepassword is the websphere user password # timeoutms is the timeout in milliseconds for the job #************************************</pre>					
Step 3	Create the xJCL Payload Data Set Member.					
	This member contains the xJCL that WebSphere XD will use to run the job specified in the xJCL and is read via STDIN.					
	The xJCL length depends on the job it describes. Verify that your data set member record length can accommodate the maximum line le xJCL.					
	The xJCL is an XML document. It is referenced using the UNVIN ddname, and can be referenced in your WebSphere XD install by going /opt/IBM/WebSphere/AppServer/longRunning/postingSampleXJCL.xml					
	(Your path may be different, depending on how you configured your WebSphere XD install.)					