

How to Change WebSphere Network Deployment (ND) Java SDK on a Dallas Remote Development Program (RDP) System

IMPORTANT NOTE: WebSphere V7.0 and WebSphere V8.0 along with the underlying Java 6 used in WebSphere V8.5 are going End Of Service in April 2018. For more information, please review the announcement at: <https://ibm.co/2qVOJCQ>. Start with the [WebSphere Migration Knowledge Collection](#) for migration assistance.

Here is the **SAMPLE** jcl used to complete the change on WebSphere V8.5 from JAVA 6 to JAVA 8. The same managesdk.sh commands are used for both environments. Simply follow the step-by-step process for each scenario **Deployment Manager Scenario** and **AppServer Scenario** as listed in the following two tables. The complete batch command is listed in each **Command and Output** cell as well as the output you should also receive. Start with the **Deployment Manager Scenario** to prevent any possible problems within the process.

The directory in the jcl determines which part of the WebSphere environment you are listing and changing.

To update Deployment Manager use: `/wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+`
To update the AppServer use `: /wascfg/v8r5/xfcell/xfnode1/AppServer/bin/+`

The managesdk.sh variable determines what you are doing. The process lists the current environment for you to compare the changes after they are made. Replace the directory for each scenario and replace the managesdk.sh parameter for each step.

```
//W85MGSDK JOB (FB3), 'Manage JAVA SDK',
//          CLASS=A,MSGCLASS=X,REGION=OM,NOTIFY=&SYSUID
//* *****
//* Using MANAGESDK.sh to Migrate an EXISTING *
//* WebSphere V8.5 from Default JAVA 6 to JAVA 8 *
//* ----- *
//* Using -verbose you get a lot of good information which will be *
//* helpful when determining what actually occurred. *
//* *
//* *****
//*
//MANGESDK EXEC PGM=IKJEFT01,REGION=OM
//SYSTSPRT DD SYSOUT=*
//BPXOUT DD SYSOUT=*
//STDOUT DD SYSOUT=*
//SYSTSIN DD *
BPXBATCH SH +
/wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+
managesdk.sh -listEnabledProfileAll
/*
//
```

Note: If you have developed applications using JAVA 6 then you should re-compile them using JAVA 8 to make sure you address any deprecated methods and parameters.

Deployment Manager Scenario	
Description	Command and Output
<p>List Before: The enabled profiles and JAVA Version For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -listEnabledProfileAll Result: CWSDK1004I: Profile default : CWSDK1006I: PROFILE_COMMAND_SDK = 1.6_64 CWSDK1008I: Node xfdmnode SDK name: 1.6_64 CWSDK1009I: Server dmgr SDK name: 1.6_64 CWSDK1001I: Successfully performed the requested managesdk task</pre>
<p>List Before: The AVAILABLE JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -listAvailable Result: CWSDK1003I: Available SDKs : CWSDK1005I: SDK name: 1.6_31 CWSDK1005I: SDK name: 1.6_64 CWSDK1005I: SDK name: 1.7_31 CWSDK1005I: SDK name: 1.7_64 CWSDK1005I: SDK name: 1.8_31 CWSDK1005I: SDK name: 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>List Before: The Command Default JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -getCommandDefault Result: CWSDK1006I: COMMAND_DEFAULT_SDK = 1.6_64 CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>List Before: The New Profile Default JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -getNewProfileDefault Result: CWSDK1007I: New profile creation SDK name: 1.6_64 CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>Start the Deployment manager</p>	<pre>START XFDCR,JOBNAME=XFDMGR,ENV=XFCELL.XFDMNODE.XFDMGR</pre>
<p>Set: The Command default to the new JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -setCommandDefault -sdkname 1.8_64 Result: CWSDK1021I: The command default SDK name is now set to 1.8_64. CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>Set: The profile build JAVA SDK to the new JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -setNewProfileDefault -sdkname 1.8_64 Result: CWSDK1022I: New profile creation will now use SDK name 1.8_64. CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>List After: The Command Default JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -getCommandDefault Result: CWSDK1006I: COMMAND_DEFAULT_SDK = 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>List After: The New Profile Default JAVA SDK For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -getNewProfileDefault Result: CWSDK1007I: New profile creation SDK name: 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>Enable: New JAVA for ALL profiles and Servers. For the Deployment Manager Node.</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+ managesdk.sh -enableProfileAll -sdkname 1.8_64 -enableServers Result: CWSDK1017I: Profile default now enabled to use SDK 1.8_64. CWSDK1001I: Successfully performed the requested managesdk task.</pre>
<p>List After: Verify Deployment Manager is using the NEW JAVA</p>	<pre>BPXBATC SH + /wascfg/v8r5/xfcell/xfdmnode/DeploymentManager/bin/+</pre>

For the Deployment Manager Node.

managesdk.sh **-listEnabledProfileAll**

Result:

CWSDK1004!: Profile default :

CWSDK1006!: PROFILE_COMMAND_SDK = 1.8_64

CWSDK1008!: Node xfdmnode SDK name: 1.8_64

CWSDK1009!: Server dmgr SDK name: 1.8_64

CWSDK1001!: Successfully performed the requested managesdk task.

AppServer Scenario	
Description	Command and Output
List Before: The enabled profiles For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -listEnabledProfileAll</code> Result: CWSDK1004I: Profile default : CWSDK1006I: PROFILE_COMMAND_SDK = 1.6_64 CWSDK1008I: Node xfnode1 SDK name: 1.6_64 CWSDK1009I: Server xfsr011 SDK name: 1.6_64 CWSDK1009I: Server nodeagent SDK name: 1.6_64 CWSDK1001I: Successfully performed the requested managesdk task.
List Before: The AVAILABLE JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -listAvailable</code> Result: CWSDK1003I: Available SDKs : CWSDK1005I: SDK name: 1.6_31 CWSDK1005I: SDK name: 1.6_64 CWSDK1005I: SDK name: 1.7_31 CWSDK1005I: SDK name: 1.7_64 CWSDK1005I: SDK name: 1.8_31 CWSDK1005I: SDK name: 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task.
List Before: The Command Default JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -getCommandDefault</code> Result: CWSDK1006I: COMMAND_DEFAULT_SDK = 1.6_64 CWSDK1001I: Successfully performed the requested managesdk task.
List Before: The New Profile Default JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -getNewProfileDefault</code> Result: CWSDK1007I: New profile creation SDK name: 1.6_64 CWSDK1001I: Successfully performed the requested managesdk task.
Set: The Command default to the new JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -setCommandDefault -sdkname 1.8_64</code> Result: CWSDK1021I: The command default SDK name is now set to 1.8_64. CWSDK1001I: Successfully performed the requested managesdk task.
Set: The profile build JAVA SDK to the new JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -setNewProfileDefault -sdkname 1.8_64</code> Result: CWSDK1022I: New profile creation will now use SDK name 1.8_64. CWSDK1001I: Successfully performed the requested managesdk task.
List After: The Command Default JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -getCommandDefault</code> Result: CWSDK1006I: COMMAND_DEFAULT_SDK = 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task.
List After: The New Profile Default JAVA SDK For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -getNewProfileDefault</code> Result: CWSDK1007I: New profile creation SDK name: 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task.
Enable: The New JAVA for ALL profiles and Servers. For the AppServer	BPXBATCH SH + <code>/wascfg/v8r5/xcell/xfnode1/AppServer/bin/+</code> <code>managesdk.sh -enableProfileAll -sdkname 1.8_64 -enableServers</code> Result: CWSDK1024I: The node default SDK setting for federated profile default has been CWSDK1025I: A synchronization operation is required before configuration changes CWSDK1017I: Profile default now enabled to use SDK 1.8_64. CWSDK1001I: Successfully performed the requested managesdk task.

Start the Node Agent	START XFACR1,JOBNAME=XFAGNT1,ENV=XFCELL.XFNODE1.XFAGNT1
Start the App Server	START XFACR1,JOBNAME=XFSR011,ENV=XFCELL.XFNODE1.XFSR011,REUSASID=YES,PARMS='-DWAS.STATUS.SOCKET=2085'
List After: Verify the AppServer Node is using the NEW JAVA For the AppServer	<pre> BPXBATCH SH + /wascfg/v8r5/xfcell/xfnode1/AppServer/bin/+ managesdk.sh -listEnabledProfileAll Result: CWSDK1004I: Profile default : CWSDK1006I: PROFILE_COMMAND_SDK = 1.8_64 CWSDK1008I: Node xfnode1 SDK name: 1.8_64 CWSDK1009I: Server xfsr011 SDK name: 1.8_64 CWSDK1009I: Server nodeagent SDK name: 1.8_64 CWSDK1001I: Successfully performed the requested managesdk task. </pre>