

Migration from MI2.5 to Netweaver Mobile 7.1

Applies to:

SAP Netweaver Mobile 7.1, SP03 release.

Summary

This document aims at being an informative guide for migrating smart sync applications to Netweaver mobile 7.1. If you have a productive mobile application, then you will be able to gain insight into how to migrate your applications to Netweaver Mobile 7.1.

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Table of Contents

Migration Phase.....	3
Planning the Migration	4
Create a software component Version.....	4
Import the SyncBo Definition File.....	5
Perform Initial Download.....	7
Application migration.....	8
Upload Mobile Components and Device Roll out	11
Related Content.....	14
Copyright.....	15

Migration Phase

The document leads you through the various steps involved in the migration phase for migrating smart sync applications to Netweaver mobile 7.1. The various phases of migration are explained using a sample application developed in MI2.5. In this article I shall discuss only the migration of smart sync applications.

The Migration phase has been divided into various sections that will allow any reader to understand the migration step by step.

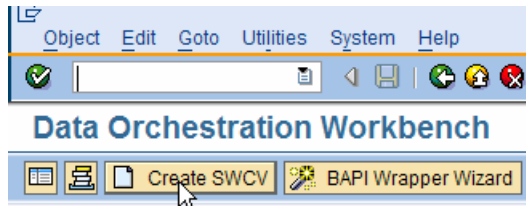
- Planning the Migration
- Create a software component Version
- Import the SyncBo Definition File
- Perform Initial Download
- Application migration
- Upload Mobile Components and Device Roll out

Planning the Migration

Export the mobile application content using the transaction MEREP_MIG to export the meta-data for the applications in the MI System.

Create a software component Version

Log on to the system and create a software component version using the transaction code **SDOE_WB**. Select the button "**Create SWCV**" on the application toolbar.



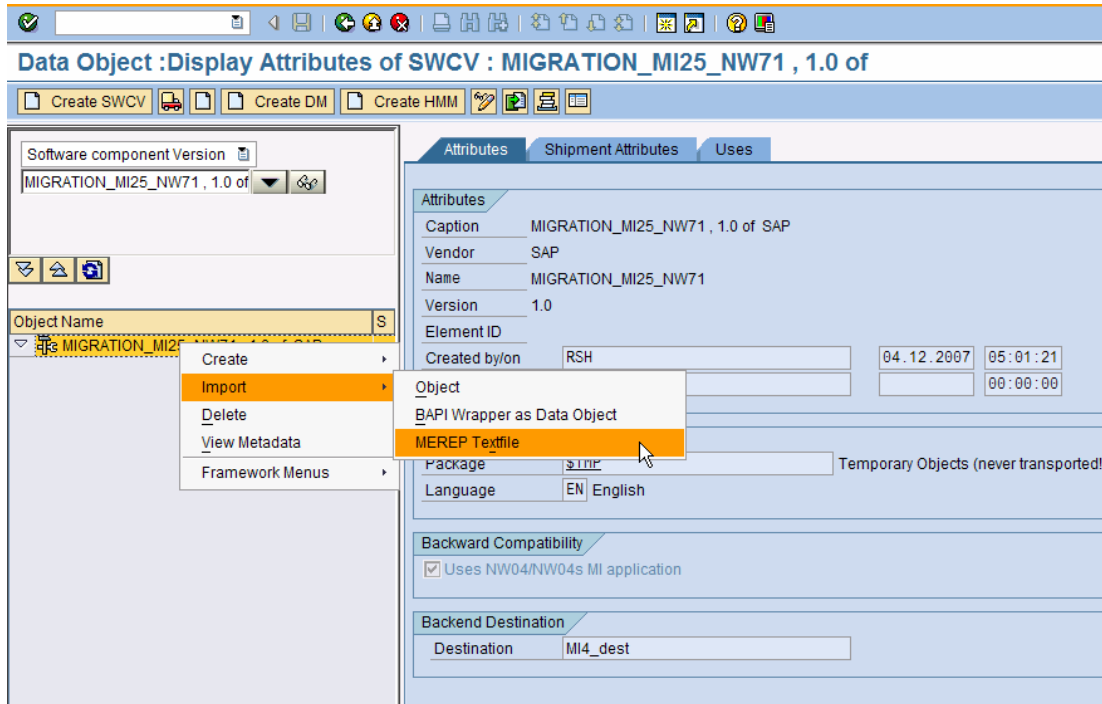
Click of this button leads you to a new screen where you will have to enter the SWCV details. Enter the name, vendor and version details of the SWCV. Specify the **Backend Destination** of the system from which you would be migrating to the current system. Check the box **Uses 2004/2004s MI application**. Select the package and save the SWCV.

 A screenshot of the 'SWCV Creation' screen in SAP. The screen is divided into several sections:

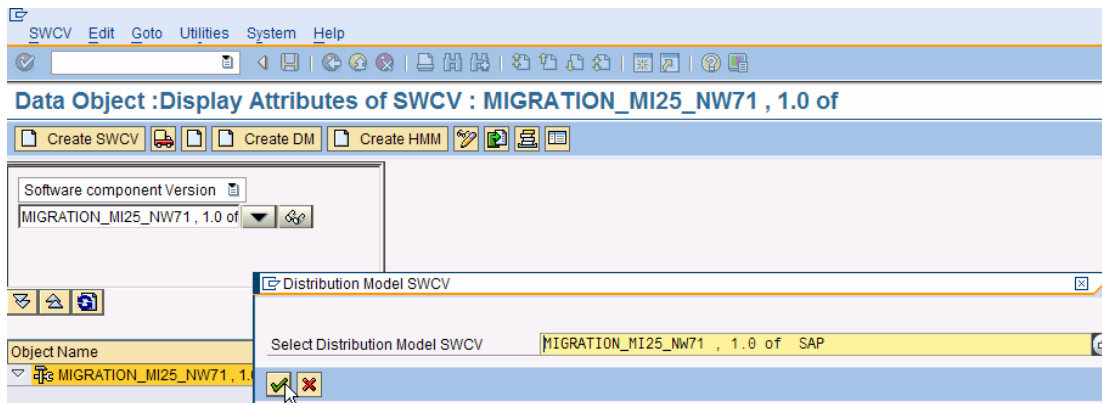
- SWCV Attributes:** Contains input fields for Name (MIGRATION_MI25_Nw71), Vendor (SAP), Version (1.0), and Element ID (empty).
- Backend Destination:** Contains an input field for Destination (MI4_dest).
- Backward Compatibility:** Contains a checked checkbox labeled 'Uses NW04/NW04s MI application'.
- Data Object Package:** Contains an input field for Data Object Package (empty) with a search icon to its right.

Import the SyncBo Definition File

Select the SWCV created in step A. Right click on the SWCV => Choose Import =>MEREP Text file.



Enter the DM SWCV name as the SWCV Name, Choose ok button. Specify the location of the MEREP text file.



The Data Objects and Distribution Model will be created and scheduled for generation. You will be able to monitor the generation of the data objects and distribution models in the Meta monitoring tool provided in the workbench. Right click on the SWCV and select View Metadata to monitor the generation.

The screenshot displays the SAP SWCV (Software Component Version) tool interface. The main window title is "Data Object : Display Attributes of SWCV : MIGRATION_MI25_NW71 , 1.0 of". The left pane shows a tree view of the software component structure, with "MIGRATION_MI25_NW71, 1.0 of SAP" selected. The right pane shows the configuration details for this data object, organized into several sections:

- Attributes:**
 - Caption: MIGRATION_MI25_NW71 , 1.0 of SAP
 - Vendor: SAP
 - Name: MIGRATION_MI25_NW71
 - Version: 1.0
 - Element ID: [Empty]
 - Created by/on: RSH, 04.12.2007, 05:01:21
 - Modified by/on: [Empty], [Empty], 00:00:00
- SWCV Package Details:**
 - Package: \$TMP (Temporary Objects (never transported!))
 - Language: EN | English
- Backward Compatibility:**
 - Uses NW04/NW04s MI application
- Backend Destination:**
 - Destination: MI4_dest

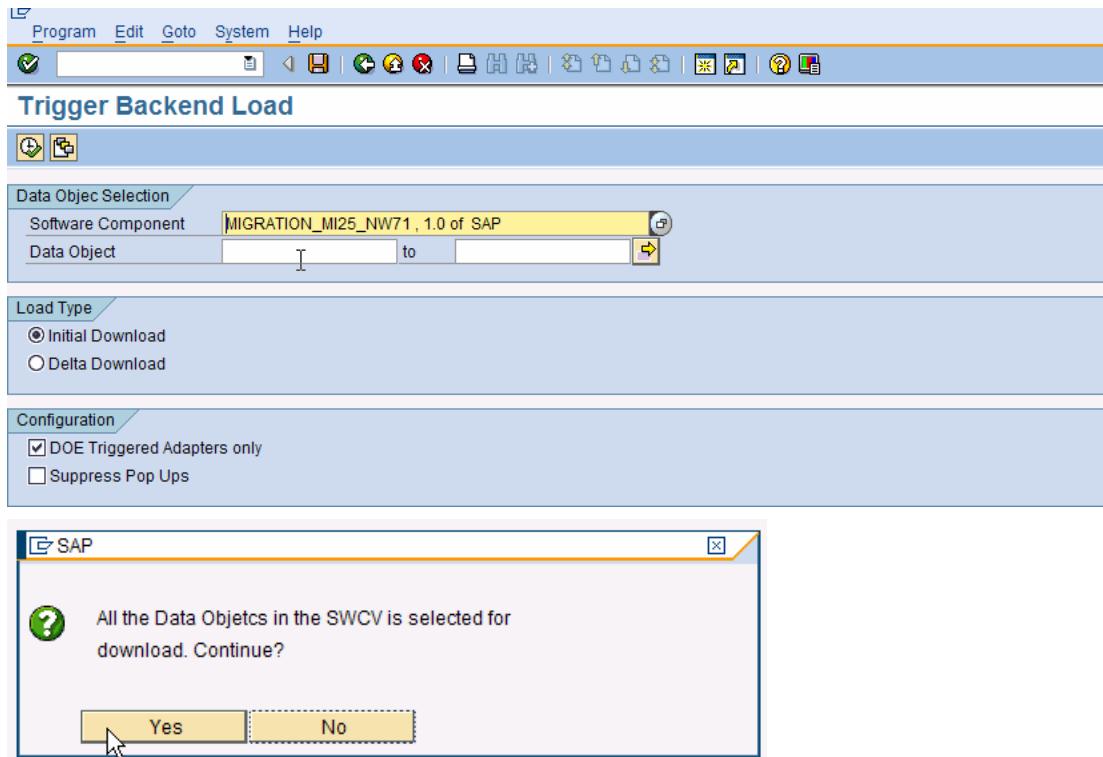
There is absolutely no code change required during migration either in the Data Orchestration Engine or the backend server!

If there are exits related to functionality, then these can be included as a custom service. The link for online help for custom services is given below:

http://help.sap.com/saphelp_nwmobile71/helpdata/en/6d/bf104d163849d1af313c492655e0f7/frameset.htm

Perform Initial Download

Perform the Initial Download using the transaction **SDOE_LOAD**. Initial download can be triggered at the SWCV Level or at the data object level. While triggering the initial download the checkbox “DOE Triggered Adapters” has to be checked. We will trigger the initial load at the SWCV level.



Application migration

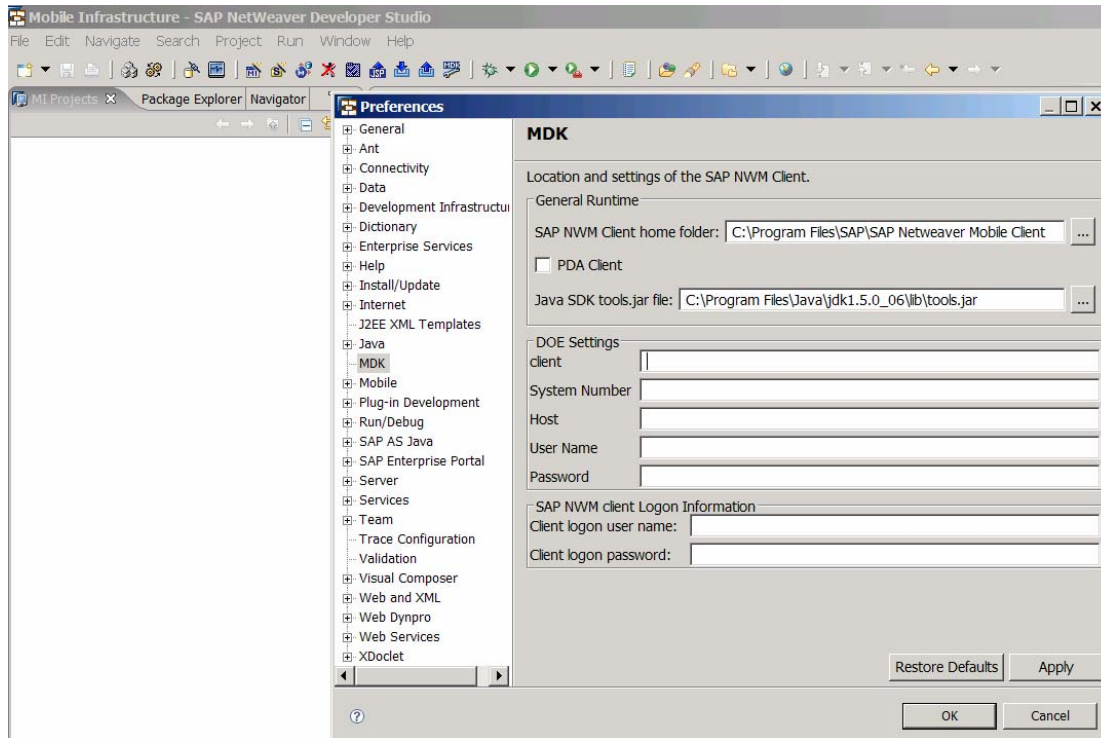
There are some prerequisites for migrating the application. These are listed below:

You should have the WAR file of the MI application to be deployed

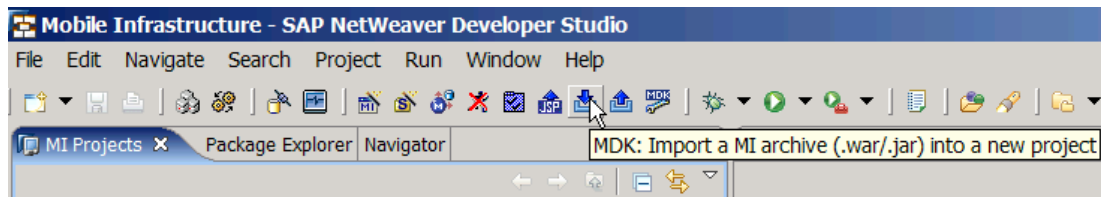
You should have the MDK plug-in setup for the IDE. For setting up the plug-in please refer to the SAP Note : 1001328

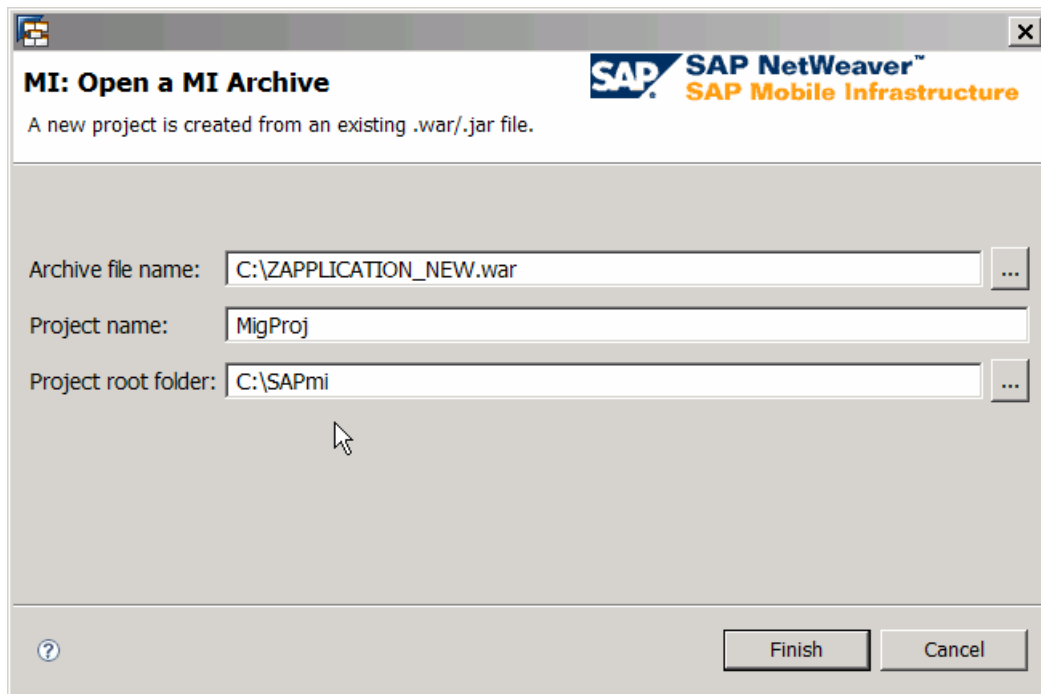
You should have the JRE installed (jdk1.5.0_06 or higher)

Start the SAP Netweaver developer studio 7.1 and configure the MDK Plugin details. Fill all the DOE credentials.

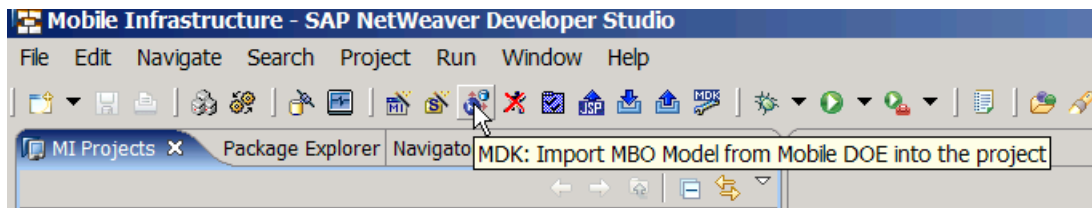


Import the MI Archive using the button shown in the toolbar. Select the path of the MI war file and give a project name and click finish.

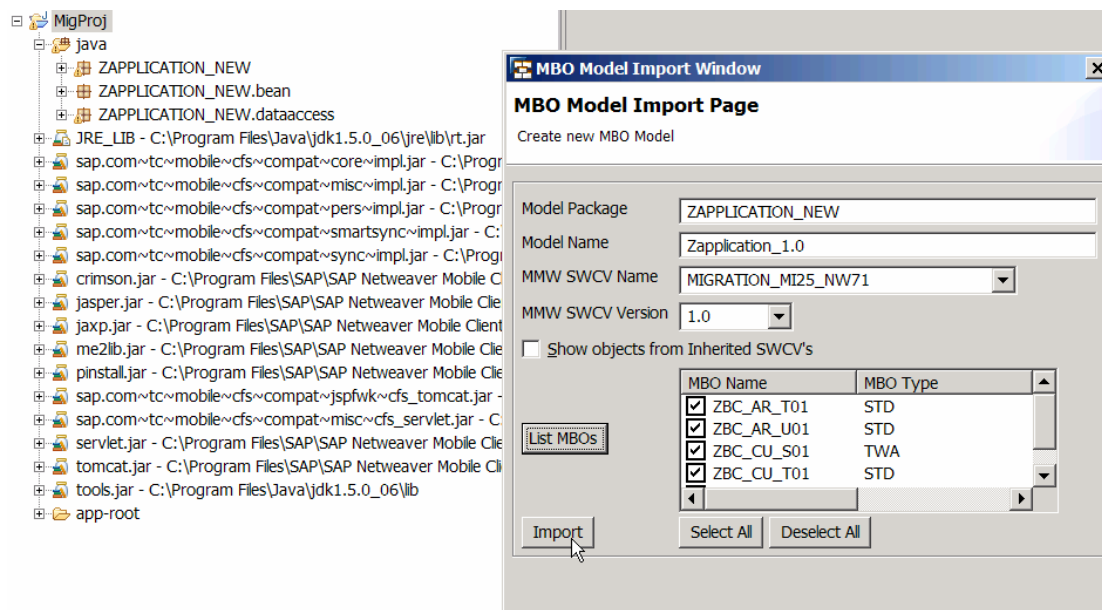




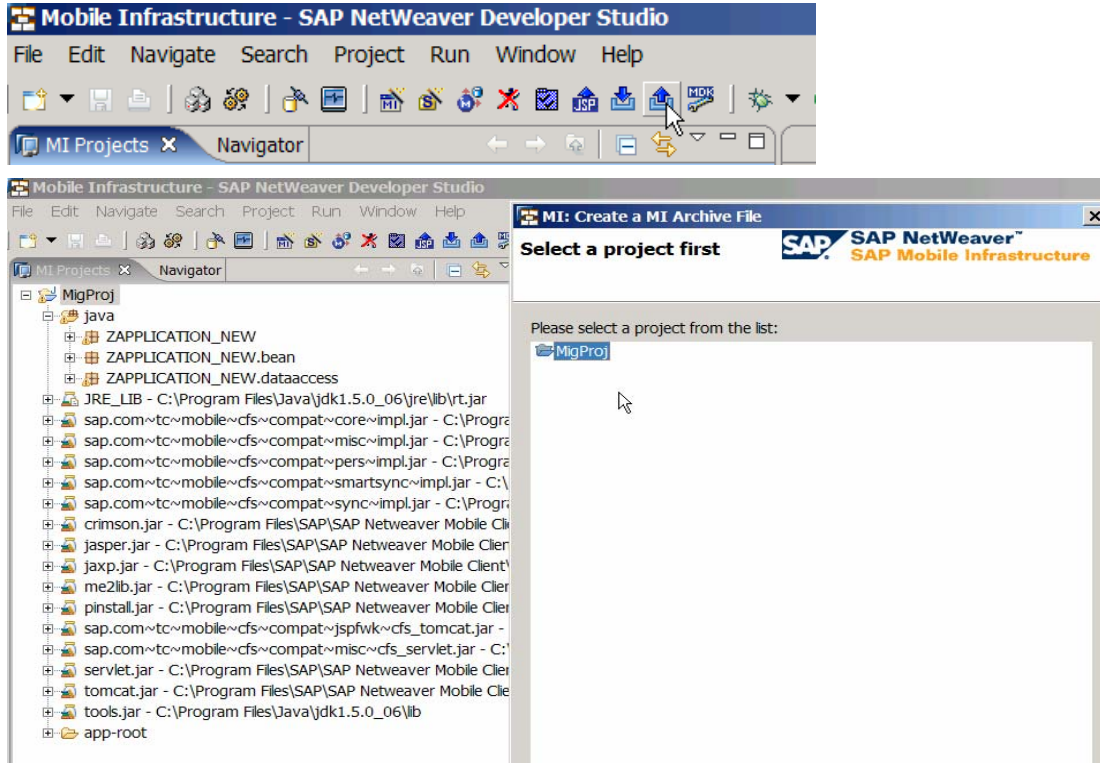
Import the Data objects – Note the name of the package that has been created in the Java folder. Click on Import Data object model icon as shown below.



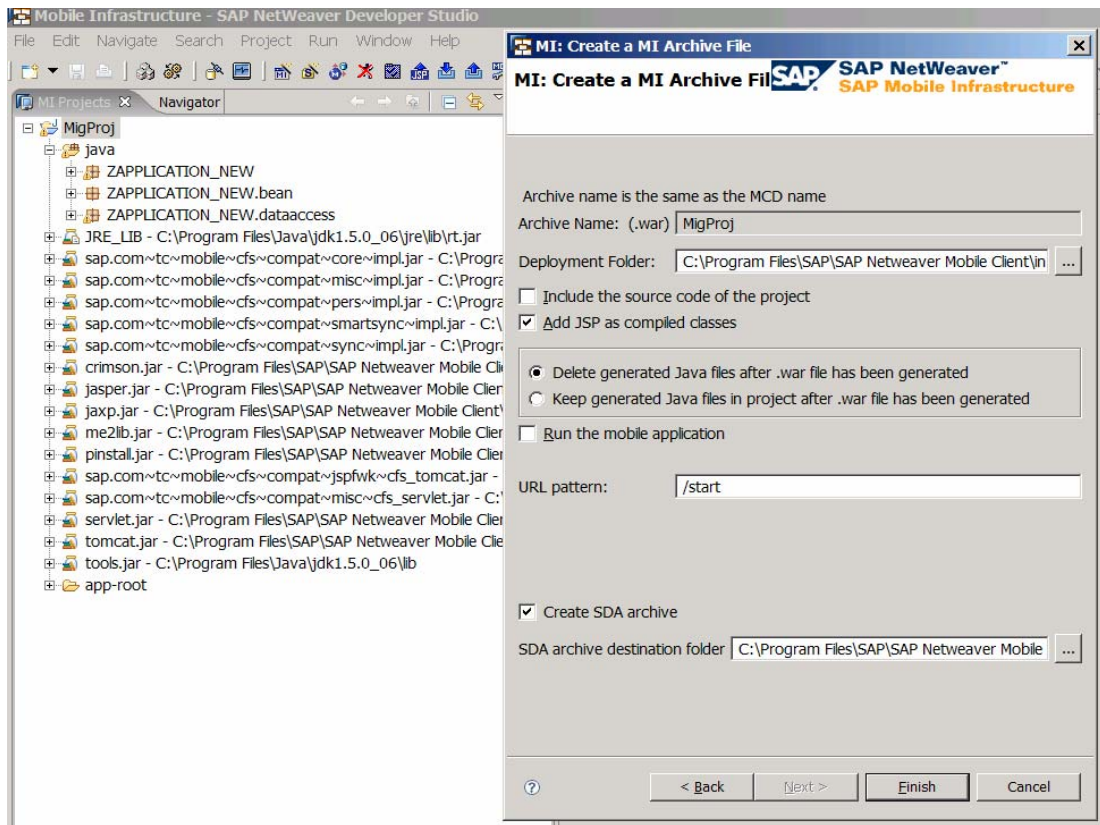
Fill the package name which was noted earlier; specify the model name and SWCV name. Select **List MBOs** to get the list of the Data objects of the SWCV. Click on **Import** and wait till the import is finished successfully. Click on finish.



Export .SDA File by selecting the Icon shown below. Select the project that you want to export.

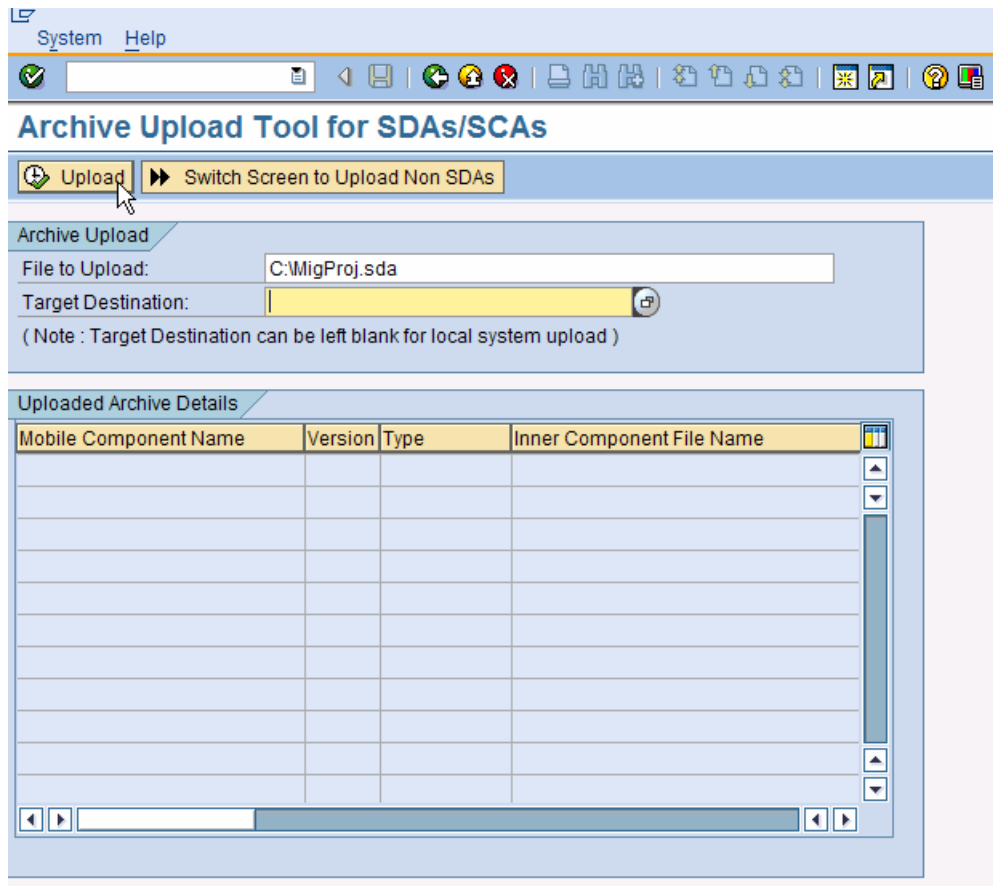


Check the '**Create SDA**' if you want SDA for the remote deployment. Check the '**Add JSP as compiled classes**'. Select the required folders for the required output. Then click on finish.



Upload Mobile Components and Device Roll out

Upload the above created .SDA file to the Data orchestration engine using the transaction code **SDOE_UPLOAD_ARCHIVE**. Once the upload is completed successfully, the uploaded SDA file will be visible in the uploaded archive details screen.



Change the state of the mobile component to 'Testing succeeded' so that it can be assigned to a device. Launch Data Orchestration Engine (DOE) Administration and Monitoring Page. Go to **Administration** → **Mobile Component Administration**. Search for the Mobile Component uploaded and Click on the required Mobile Component. The Mobile component is initially in the testing state to allow the administrator to assign this MCD to test devices and check the functionality and working of the mobile component. Once the testing is complete, in the Mobile Component Administration page, click on the link **Change State**. Select 'Testing Succeeded', and select Change State. The mobile component is now ready for assignment to a device.

Mobile Component Administration

Search Mobile Components

Search Criteria: Mobile Component Name Value: MigProj

[Go](#) [Clear](#) [Advanced](#)

Search Results

Mobile Component	Version	Type	Status on DOE	Created Date	Created Time	Created By
MigProj	1.0	APPLICATION	Untested MCD (Ca	05.12.2007	09.08.16	com.sap

Mobile Component Details

Devices | Data Object Dependencies | Mobile Component Dependencies | Authorization Objects | Properties

[Refresh](#)

Device Name	Deployment Status	History
No device exists for the selected MDC		

[Back](#)

Mobile Component Management

Mobile Component Details

Mobile Component Name: MigProj Version: 1.0

Mobile Component Type: APPLICATION Status: Untested MCD (Can be assigned to Test Devices only)

Operations

- [Assignment to device\(s\)](#)
Assign to device(s) / Remove from device(s)
- [Manage DM Software Component Versions](#)
Assign DMSWCVs to the MCD. Unassign DMSWCVs from the MCD
- [Change State](#)
Make MCD state to successfully tested or test fa
- [Manage Setup Device Properties](#)
Manage Properties to be used for Setup Device for this Mobile Component

Devices | Data Object Dependencies | Mobile Component Dependencies | Authorization Objects

[Refresh](#) [Manage Devices](#)

Device Name	Status

Change MCD State

Change MCD State

Testing Succeeded
 Testing Failed

[Change State](#) [Cancel](#)

Go to **Administration->Device Administration** and create a new device. Enable the device.

Mobile Overview Administration Configuration Monitoring Statistics

Device Management

- Device Administration
 - Device Profile Administration
 - Channel Administration
- Hierarchy Groups
 - Freestyle Hierarchy Groups
 - Generated Hierarchy Groups
- Software Package Management
 - Mobile Component Administration
 - Software Package Administration
 - Device Software Download
- Agents Administration
 - Agents Administration
 - Agent Parameters Management
 - Agent Configurations
- Distribution Rule Administration
 - Distribution Rule Administration
- Role Management
 - Role Administration

Back Save

Create New Device

Device Name:

User:

Create as Test Device

Device attributes

Attribute Name	Attribute Value
CLIENT_FRAMEWORK_TYPE	JSC
CLIENT_FRAMEWORK_VERSION	710500
DEVICE_TYPE	LAPTOP
MOBILE_NO	

Attribute Name Attribute Value

Attribute Name	Attribute Value
LANGUAGE	

Row 1 of 1

Save

Click on **Manage device**. Click on the link **Manage Mobile Components** and assign the Mobile Component to the device

Activate the Distribution Rules of the SWCV. Launch the Data Orchestration Engine (DOE) Administration and Monitoring Page and Go to **Administration** → **Distribution Rule Administration**. Search for the DMSWCV into which the data objects are imported and activate the Rule.

Mobile Overview Administration Configuration Monitoring Statistics

Device Management

- Device Administration
 - Device Profile Administration
 - Channel Administration
- Hierarchy Groups
 - Freestyle Hierarchy Groups
 - Generated Hierarchy Groups
- Software Package Management
 - Mobile Component Administration
 - Software Package Administration
 - Device Software Download
- Agents Administration
 - Agents Administration
 - Agent Parameters Management
 - Agent Configurations
- Distribution Rule Administration
 - Distribution Rule Administration
- Role Management
 - Role Administration

Distribution Rule Administration

Filter rules

Name of MCD: Mobile Application Version:

Distribution Model SWCV:

Filter Clear

Rule Activation and Deactivation

Activate Deactivate Refresh Repair

State	Rule Name	Distribution Model	Data Object	Distribution Model SWCV
◇	RULE_FOR_ZBC_CU_S01	ZBC_CU_S01_DM	ZBC_CU_S01	MIGRATION_MI25_NW71, 1.0 of SAP
◇	BULKRULE00	ZBC_CU_T01_DM	ZBC_CU_T01	MIGRATION_MI25_NW71, 1.0 of SAP
◇	BULKRULE00	ZBC_CU_T51_DM	ZBC_CU_T51	MIGRATION_MI25_NW71, 1.0 of SAP

Once the rules are active, the last step is to register the device that has been created in the above step with the Mobile Client. Synchronize the client with the Data orchestration engine so that the data is available at the client.

Related Content

More insights in to SAP NetWeaver Mobile 7.1 technology could be found on SDN under the category [MOBILE](#).

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