

Mobile Application Attributes in SAP NetWeaver Mobile



Applies to:

SAP NetWeaver Mobile 7.10 (Data Orchestration Engine).

For more information, visit the [Mobile Homepage](#)

Summary

Mobile Application attributes are used to customize the Mobile application as well as to control the behavior of the application the client.

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Glossary

Terms and Abbreviations

The following terms and abbreviations will be used in this document:

Term	Explanation
DOE	Data Orchestration Engine
SID	Structure Identification
SAP NW Mobile 7.10	SAP NetWeaver Mobile 7.10
SyncBO	Business Objects represented in NW 7.0 (Mobile Infrastructure)

Introduction

There are certain attributes available for the Mobile Application Development platform that can be used to create a robust mobile application. Application behavior on the client can be controlled using these attribute. This document covers all the attributes that are currently available in SAP NetWeaver Mobile 7.10.

Target Group

This document is aimed at anyone who is developing Mobile applications for SAP NW Mobile 7.10.

This document is useful for the following groups

- Mobile Application developers
- Consultants.

Mobile Application Attributes

Mobile Application attributes are few predefined properties that are used by the Mobile Application. Although the DOE Workbench facilitates in attribute's value maintenance, DOE (middleware) does not use these attributes and values in the runtime. Therefore these attributes and values are purely for Mobile Application purposes.

Mobile Attribute values are specific to each node of the Data Object. On the Workbench, selecting a node and clicking on the 'Mobile Appli Attrib' button brings up the screen where Mobile application attribute values can be maintained.



Various Mobile Application attributes that can be maintained using this screen are described below.

All the attributes of the selected Data Object node are displayed in the screen and the required Mobile application attributes can be maintained per node attribute.

Index and Index Name

Indices for the client data base can be specified using this option. Checking the 'Index' checkbox implies that an index is to be created on the client data base for that node attribute. The name of the index is specified using the textbox 'Index Name'.

Two or more node attributes can be part of a single index. In such cases, same index name is given for all the node attributes. For example, please refer to the picture below.

Node attribute name	Index	Index Name	NE-GState	NE-LState	Default
ACTIVITY	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
ACTUAL_DUR	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
ACT_TYPE	<input checked="" type="checkbox"/>	indx1	<input type="checkbox"/>	<input type="checkbox"/>	
ACT_WORK	<input checked="" type="checkbox"/>	indx1	<input type="checkbox"/>	<input type="checkbox"/>	
ADD_CONF	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CALC_MOTIVE	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CAP_TYPE	<input checked="" type="checkbox"/>	indx1	<input type="checkbox"/>	<input type="checkbox"/>	
CATS_DOC_NO	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CLEAR_RES	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CONF_CNT	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CONF_NO	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CONF_TEXT	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CO_AREA	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CREATE_DAT	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
CREATE_TIM	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
DEV_REASON	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
END_DATE	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

NE-GState & NE-LState

This property stands for Non Editable. If this property is selected for one or group of node attributes, then these attributes become non-editable on the mobile application. That is, these fields are read-only fields on the mobile application.

Note: Both the check boxes have to be checked in order to make the attribute non-editable on the application.

The SID's are automatically populated when the SyncBO's are imported into DOE as Data Objects using text files. SID has to be manually filled only for the below given scenarios,

- You created a new Data Object in a backward compatible SWCV and want to use this Data Object in a backward compatible mobile application.
- You enhanced an old Data Object that was imported using the text file by adding a new node to the Data Object.
- You enhanced an old Data Object that was imported using the text file by adding a new node attribute to the already existing Data Object node.

If the SID's are not filled, then the application will not work as expected.

Life Cycle Flags

Object Edit Goto System Help

Mobile Java Client Attributes

Lifecycle flags for Node

Create Update Delete

Mobile Application Attributes Maintenance

Node attribute name	Index	Index Name	NE-GState	NE-LState	Default	F
EQUIPMENT	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
EQUIPMENT_DESC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
FUNC_LOC	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
ORDER_ID	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
ORDER_TYPE	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
PRIORITY	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
START_DATE	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
STATUS	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		

The life cycle flags are used to define the kind of operations the Mobile application can perform with the data pertaining to that Data Object node. The types of operations are Insert, Update and Delete. These operations can be set per Data Object node.

The first preference is given to the Data Object's direction. Using these life cycle flags, some or all of these operations can be turned on/off based on the mobile application needs.

For example, the mobile applications can insert/update/delete instances of a bi-directional/upload only Data Object by default. But incase you want to restrict the client application to only insert or update for a certain Data Object node, then you can only select insert or update option which will restrict the mobile application from deleting instances.

Note: Each time the values are modified on the middleware, the values have to be re-imported in the NetWeaver Developer Studio so these modified values are available to the Mobile application.

Tip1: Since the Data Object's runtime is not affected by these attribute values; these values can be modified without changing the version of the Data Object.

Tip2: Each time some of the attributes are changed, they have to be transported to the test/production system in the landscapes. So, each time when these properties are being changed, the workbench will request you to include these changes in a transport request unless you have not already included them in a transport request.

Related Content

For more information, visit the [Mobile Homepage](#)

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