

SAP AG



SAP Integration Certification Guide
for
NW-MOB-DCCI 7.1

SAP NW Mobile Custom Client Interface

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1. Introduction

The purpose of this document is to outline the NW-MOB-DCCI 7.1 certification requirements and the certification process that partners can follow to obtain certification for their mobile interfaces from the SAP Integration and Certification Center (SAP ICC).

The target audience of this document is executives, architects and developers of mobile applications who intend to develop or have developed an interface with SAP NetWeaver Mobile which can be submitted to SAP for certification.

2. Overview

Mobile scenarios are all about end user productivity. There is a need to have the information provisioned to the end user anywhere anytime. This means that every user will carry own personal device which needs to have this information regardless of the connectivity, online or offline. In such a scenario, it is obvious that number of devices that are going to request for the data is huge since each and every end user is targeted. Also the information that is going to be provisioned could come from multiple sources or systems like ERP, CRM etc. Information that needs to be provisioned should also be a relevant subset based on subscriptions or profile of the user, making scalability a real challenge.

Along with this, there is the frequent challenge to make applications on multiple devices such as Nokia, Blackberry, Apple iPhone, and so on. Each device has its own native application development. SAP NetWeaver Mobile allows customers to meet this challenge by exposing APIs in the mobile middleware that allows custom clients to integrate.

These challenges and required capabilities of a platform which helps in mobilizing data from various backend systems are taken care of in SAP NetWeaver Mobile. By creating an interface with SAP NetWeaver Mobile, partners or customers can integrate custom clients. This provides customers the freedom of choice to choose any device, and built applications that integrate with SAP NetWeaver Mobile.

The diagram in Figure 1 illustrates the architecture of SAP NetWeaver Mobile in the context of custom built interface.

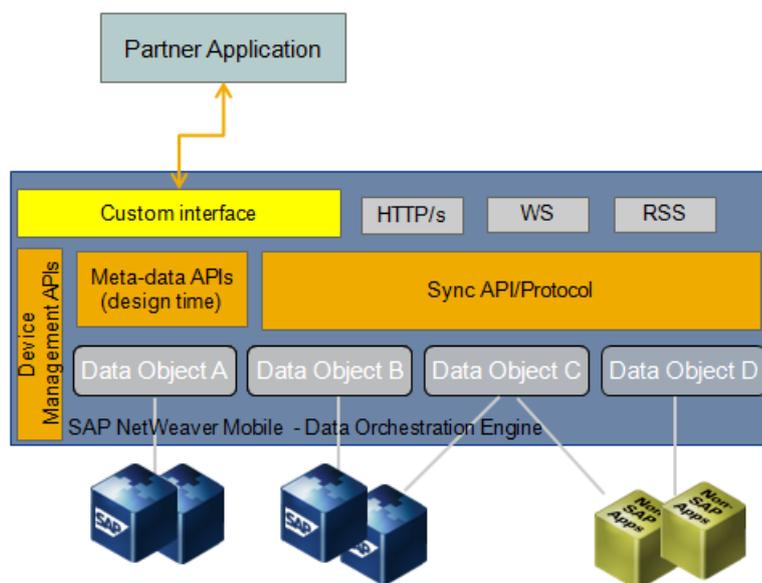


Figure 1. SAP NetWeaver Mobile Architecture Diagram



SAP NetWeaver Mobile contains the following core components:

Data Orchestration Engine (DOE) – This is the middle tier server which helps in mobilizing data from various backend systems and filters out the data relevant for a specific user based on subscriptions

NetWeaver Mobile Administrator – Provides set of tools and capabilities to manage the landscape in an efficient way

Promoting the vision of a mobile world and delivering software technologies that enable enterprise level mobility, SAP has developed the interface certification program, through which a partner may apply for certification of its mobile interface from SAP subject to the criteria set forth in this interface certification guide.



3. Interface Certification Process

Upon a partner's inquiry of certification for an interface developed to connect with SAP NetWeaver Mobile, SAP provides this certification guide¹ to the Partner. The Partner's interface should follow the SAP guidelines outlined in this document.

Once the Partner is familiar with the certification guidelines and is ready to start the certification process, he should contact SAP ICC to formally register and sign the integration certification agreement for SAP NetWeaver Mobile – Interface Certification (NW-MOB-DCCI).

Once the certification agreement is signed, SAP ICC will provide the SAP NetWeaver Mobile – Technical Product Profile document to the Partner. The Partner should fill in the information in the document and submit it to the SAP ICC in order to schedule a one day assessment meeting.

In the assessment meeting, SAP ICC will educate the Partner about the certification and how the certification process would be carried out.

The certification test is conducted onsite at SAP ICC facilities and the Partner is responsible for providing access to the landscape where the interface has been developed. A Partner representative may or may not be present during the interface certification upon Partner's choice. Alternatively the certification test can be conducted at a location specified by the Partner. In such a case, Partner shall pay for all travel and subsistence costs for the SAP personnel involved.

SAP ICC can perform the certification testing on the SAP NetWeaver Data Orchestration Engine (DOE) provided by the partner. In his case the partner must ensure the required access from SAP ICC facilities. Alternatively, SAP ICC can provide access to the SAP NetWeaver DOE via http based access over web. In this case, partners have to make available their interface on the infrastructure provided by SAP ICC.

SAP ICC shall test all the mandatory and optional tests of functionality on the interface developed by the partner. SAP ICC certifies that the mobile interface successfully provides the required functionality to integrate a custom client with SAP NetWeaver Mobile.

Upon successful completion of the certification test, the interface will achieve "SAP Certified Integration" status, implying in this case that mobile applications can use the interface to communicate with SAP NetWeaver Mobile. The partner will then be qualified to use the logo "Certified for SAP NetWeaver".

¹ This guide will also be made available on SAP Developer Network (SDN) web site.



4. Interface Certification for SAP NetWeaver Mobile

SAP offers certification for a mobile interface, if the interface can successfully provide the functionalities listed in section 4.1 that are required to communicate with SAP NetWeaver Mobile 7.1.

SAP NetWeaver Mobile offline infrastructure is used in case of “occasionally connected” applications. Using the interface, partners can integrate any native mobile application with SAP NetWeaver Mobile 7.1 in an occasionally connected mode.

For testing the interface, a mobile application that uses the interface is necessary and must be provided by the partner. The partner can provide any mobile application for testing purposes. The functionality of the mobile application will not be considered for testing.

If the partners do not have a sample application for carrying out the tests, SAP ICC will provide a sample business model of an application. Based on the sample business model, partners can then create a mobile application. The business model will include the data logic with sample back-end data and the distribution logic. The partners must ensure that they create a mobile application that can access data from the provided business model. The mobile application provided by the partner must be capable of testing the functionalities of the interface listed in section 4.1.

SAP ICC will perform the test and inform the partner of the test results in writing. SAP does not certify the functionality of the mobile applications. Only the functionality of the mobile interface is considered during certification testing.

4.1 Requirements/Criteria

To achieve certification, as part of SAP NetWeaver Mobile integration certification scenario, the following basic requirements (as outlined in detail in the SAP ICC test plan) apply to any type of mobile interface:

Mandatory

- Registration with mandatory parameters
- Creating a session with SAP NetWeaver Mobile, starting and closing a session
- Exchanging messages with SAP NetWeaver Mobile, both post and get messages
- Confirmation and rejection handling of messages

Optional

- Meta-data APIs
- Device management APIs, used for monitoring

Detailed description of these requirements is noted in the Certification Test Catalog.

5. Additional Terms on the Certification

5.1 Quality Measures

Only the architectural and functional aspects discussed above are considered in the mobile interface certification process. The quality measures (performance, scalability, etc.) of the interface are neither measured nor considered in this certification.

5.2 Future Changes

SAP defined the certification in a way that future evolution of SAP NetWeaver Mobile platform, such as the introduction of the next version of SAP NetWeaver Mobile, should not make it necessary to conduct a complete re-architect of Partner interface.

However, SAP is free to revise the SAP technologies and the mobile interface certification requirements at its sole discretion and to terminate formerly offered certification scenario.

5.3 Validity of certification

Due to the nature of the certification, the certification is performed for a particular release of SAP NetWeaver Mobile. Change in the release of SAP NetWeaver Mobile would require the interface to be re-certified. Per certification program rules, any certification expires three (3) years after the certification tests have been completed, or when any of the certified components are no longer in maintenance by partner, whichever comes first.

5.4 Disclaimer

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