

SAP Business One version for SAP HANA
Certification Program
Technical Product Profile

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PREFACE

This document can be seen as a checklist for all major topics to be reviewed during the certification process of an Add-On for SAP Business One version for SAP HANA. Therefore, this document does not substitute any kind of the release specific documentation like standards & guidelines, release notes, etc. The compliance of the delivered Integration with major parts of this document will be checked with a SAP Business One reference system in SAP Business One version for SAP HANA environment.






HOW TO READ THIS DOCUMENT

The target group for this document includes both, Vendors and SAP internal staff. The use inside SAP is for the purpose of the certification of an Add-On developed by a Vendor which will be running with SAP Business One on an SAP HANA environment.

As a pre-requisite of SAP Business One for SAP HANA (B1H) certification, partner’s add-on has to be certified via SAP Business One Add-On SDK certification.

The Vendor himself uses this document in advance of the certification process, to submit an integration that meets the necessary requirements for the certification. Once again: This document should not be used as a substitute for any kind of release specific documentation.

ICONS

Icon	Meaning
	Caution
	Example
	Note or Tip
	Syntax
	Recommendation

1. ADMINISTRATIVE INFORMATION

Vendor Data




The following information is required for contact and certification purposes.

Vendor Name	MultiSystems
Vendor Number	1611516
Namespace	MULTISYS
Contact Person	Radames Del Mazo
Certified Development Consultant(s)	None
Certified Solution Consultant(s)	None
Mail	rdelmazo@multisystems.com
Phone	787-751-2720 ext. 227
Web Page	www.multisystems.com

2. ADD-ON DATA

The following data describes the Add-On to be certified.

Name and Version

Name	MultiRoute
 Version	2.1
 Supported SAP Business One Versions	SAP Business One 9.3
 Supported SAP HANA Version	SAP HANA (9.30.190) PL: 09 (64-BIT)

SDK Data

DI API	DI API 90
DI Server	DI API 90
Java Connector	None
UI API	None
Screen Painter	None
SDK Studio	None

Platform

Server component SUSE Linux Enterprise Server 12.3
XS Engine Yes No
Database systems SAP HANA 1.00.122.22.1543461992 (fa/hana1sp12)
Client component Windows Server 2012 R2 Standard
JAVA Yes No
Microsoft .NET Yes No
Third Party Libraries Yes No
 <If yes please identify name, version and licensing>

Development platform

Languages

Visual Basic

C/C++

C#

JAVA

JavaScript

ServerSide JavaScript

OData

SQLScript

R-Language

Other:

Development platform

Tools

Visual Studio 6.0

Visual Studio 2008

Visual Studio 2010

Visual Studio 2012

HANA Studio

Other:

Visual Studio 2019

Migration of certified solution

If the add-on is migrated from its version for SAP Business One on MS SQL Server please fill the following information.



For migration purposes your Add-On must be SAP Business One 8.82 compatible and the same functionality must be tested.

3. TECHNICAL INFORMATION

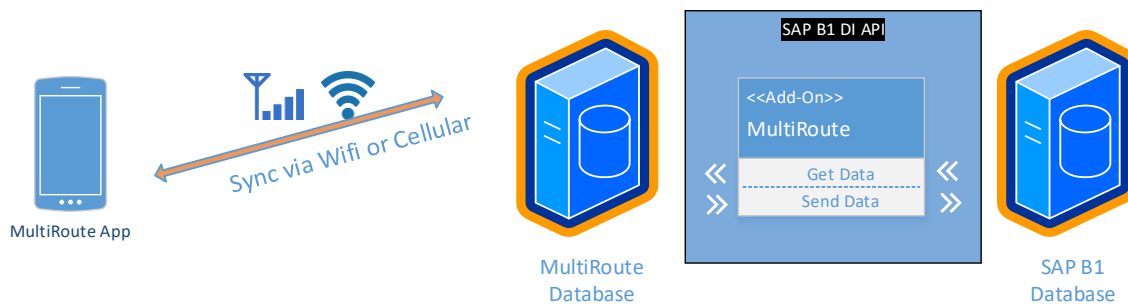
Functional Overview

Please describe the purpose and functionality of your solution.
Please keep your description on a higher – but still technical – level.

MultiRoute is SFA (Sales Force Automation) solution that can automate the sales order and cash receipts processing using a mobile unit, thus synchronizing the transactions to SAP B1 system.

Solution Architecture

Please describe the architecture of your Add-on solution by providing one or more diagrams showing key components involved (HANA Platform interaction, SAP Business One application, usage of components such as DI API, UI API, ODBC, XS Engine etc. and your application).



Database Details

HANA Platform

Do you create your own tables in SAP Business One databases?

Yes

No

If **Yes**, please list their names including short descriptions here (or attach as a separate document):

Note: If the tables are created outside the SDK, then the Add-on will not be certified.

Do you create your semantic content for your Add-On? Yes No
If **Yes**, please list their names, types and package location including short descriptions here (or attach as a separate document):

Do you create your own user defined fields in the SAP Business One database for your Add-On? Yes No
If **Yes**, please list their names, types and table location including short descriptions here (or attach as a separate document):
Note: If it is created outside the SDK, the add-on may not be certified

Do you deploy any proprietary Stored Procedure(s) in SAP Business One? Yes No
If **Yes**, please list their names, types and package location including short descriptions here (or attach as a separate document):
Note: If stored procedure(s) is not part of the content of the objects, usage must be validated.

Do you deploy any proprietary Stored Procedure(s) in SAP Business One using ways other than the UserQueries object? Yes No
If **Yes**, please list their names, types and package location including short descriptions here (or attach as a separate document):

Do you use R-language in stored procedures in the SAP Business One database? Yes No
If **Yes**, please list their names, package location including short descriptions here (or attach as a separate document):

Do you use SAP-provided stored procedures? Yes No

If **Yes**, please list their names and the modifications done if any including short descriptions here (or attach as a separate document):

Do you create or use any other database objects in SAP Business One databases? Yes No

If **Yes**, please list their types, names including short descriptions here (or attach as a separate document):

SAP Business One HANA Platform Details

HANA Platform

Do you use SAP Business One Platform? Yes No

If **No**, please continue to the next section.

Do you use the platform login service? Yes No

If **No**, please specify the function you are using for login into HANA and here (or attach as a separate document):

Do you use other platform services? Yes No

If **No**, please specify the services you are using in the platform here (or attach as a separate document):

UI API Details

HANA Platform

Do you use SAP Business One UI API? Yes No

If **No**, please continue to the next section.

Do you use SAP Business One UI API together with the DI API? Yes No

If **Yes**, please select the connection type you use:

- Single Sign On Yes
- Shared DI API connection Yes
- Separated DI API + UI API connection Yes

Do you add your own menu items into SAP Business One? Yes No

If **Yes**, for each item please list parent menu item, UID and text String:

Do you create your own forms inside SAP Business One? Yes No

If **Yes**, please list their names including short descriptions here (or attach as a separate document):

Do you add your own items inside SAP Business One forms? Yes No

If **Yes**, for each item please list type and caption of the form as well as item UID and a short description here (or attach as a separate document):

Do you modify standard items inside SAP Business One forms? Yes No

If **Yes**, please provide a list of these forms and the information necessary to launch them.

Note: Please add relevant test cases to display these forms in the functional testing section of this document.

Does your Add-On handle UI API events from SAP Business One forms and SAP Business One menu items? Yes No

If **Yes**, please specify event types, events, whether or not you are blocking events (BubbleEvent= False) here.



SAP recommends providing detailed documentation to the customers whenever your Add-On will change the standard behavior of the SAP Business One application.

By default, the UI API gets all the events triggered by the SAP Business One application. Most of these events may not be useful to your add-on application and handling all of them is very costly in terms of performance. Filtering unnecessary events saves a lot of processing and makes sure that your program handles only required events and ignores the rest. Once you define an EventFilters object, only declared events on specified forms are notified to your add-on. More information in can be found under "Filtering Events" in the UI API documentation.

Do you use the ActiveX object feature of the UI API?

Yes

No

If **Yes**, please list these controls and their short descriptions.

Do you support multiple languages?

Yes

No

If **Yes**, please list the languages here and specify your preferred language for the test drive.

DI API /DI ServerDetails

Do you use SAP Business One DI API or DI Server?

Yes

No

If **No**, please continue to the next section.

Please provide a list of used DI objects and methods using the following template:

Example:

Object (alphab. Order)	Used methods						XML		
	Add	Update	Remove	Close	Cancel	GetByKey	Others	Imp	Exp
CDC1							DoQuery		
CRD1							DoQuery		
ITM1							DoQuery		
oCompany							Connect		
OCRD							DoQuery		
OCTG							DoQuery		
oIncomingPayments	X								
OINV							DoQuery		
OITM							DoQuery		
oOrder	X								
OSTC							DoQuery		

Other than using the business objects provided by the SAP Business One SDK, do you use other SDK methods to update the database? (DI API's Recordset object or DI Server's "ExecuteSQL" command)

Yes No

If **Yes**, please provide details.

UDO

Do you create User-Defined Objects (UDOs)?

Yes No

If **Yes**, for each UDO please provide UID and a short description here:

If you used UDOs and use the "Implementation DLL" feature, please specify details here:

SAP Business One HANA Service Layer

Do you consume SAP Business One HANA Service Layer?

Yes No

If yes, please provide a document to illustrate how you implement the service layer

Other ways to connect to the database

Do you make direct connections (e.g. using ODBC, OData) to SAP Business One databases?

Yes No

If **No**, continue to the next section

Do you update SAP Business One database through these connections? Yes No
 If **Yes**, please provide details and your reasons

4. DOCUMENTATION

General Documentation

Do you have an Installation Guide available? Yes No
 Do you have an End User Guide available? Yes No
 Do you have a Functional Documentation available? Yes No
 Any modification of screens is documented in the End User Documentation? Yes No
 Do you document events you capture and stop from being processed further (BubbleEvent = False)? Yes No

HANA Documentation

Do you have the HANA object documentation available? (Mandatory) Yes No
 Do you have the execution plans for HANA documentation available? (Mandatory) Yes No
 Do you have the HANA dependencies Documentation available? (Mandatory) Yes No
 Do you have the object definition Documentation? (Mandatory) Yes No

Multiple languages Documentation

Country coverage – Partner clearly states for which countries the solution is suitable Yes No
 Documentation is available for every supported language. Yes No
 Online-Help is available for every supported language. Yes No
 Please list all countries/language supported

5. CERTIFICATION CRITERIA

The Add-On must comply with all the SDK standard criteria to be certified. For SAP HANA cases, only approved new content in the SAP Business One Database is allowed using the provided tools for them. Any Negative answer from question two and ahead in this section will generate a no certified status.

Data Storage

- Does the Add-On have a separate DB (schema in HANA)? Yes No
- Does the Add-On have any SQL table/fields in the SAP Business One company DB which is not UDT/UDF? Yes No
- Does the Add-On comply with the SDK development guideline as attached? Yes No
- Does the Add-On supply the mandatory documentation Yes No
- Does the Add-On supply detailed in memory test cases Yes No
- Does the Add-On modify the DB content outside the Data manipulation objects provided? Yes No

6. TEST DRIVE PREPARATION

Functional Test

Before the Test-drive we will need this Technical Product Profile and the documentation mentioned in section 3. In the following, you should describe how the final test of your product integration can be done during a Test-Drive with SAP. The test cases should show the usage of all above listed integration technologies and APIs as much as possible. SAP will ask you, to initiate maximum tracing capabilities to verify the calls used. For each test case please provide the following details using the template below.

- Short description of the test case
- Actions to take (as relevant please specify API objects used)
- Expected results

The test cases provided in the following sections will be copied into the Test Plan.

Functional Test Cases

Add more steps below as needed

1	<p>Title: Installation of the add-on MultiRoute 2.1</p> <p>Action: Install the add-on based on the process describe in the installation guide. Please see appendix document Installation Manual - MultiRoute SAP Connector.pdf</p> <p>Result: Add-on installed successfully.</p>
2	<p>Title: SAP B1 Connection Environment</p> <p>Action: Configure the SAP system which the add-on will connect to.</p> <p style="margin-left: 20px;">1. Go to Configuration/Setting</p>

	<p>The installation will load default SAP system connection parameters.</p> <p>2. On the SAP tab click the Verify button</p> <p>Result: Successful connection. Message “Tested ...!”</p>
3	<p>Title: Export SAP System Data</p> <p>Action: Export SAP data to the MultiRoute database.</p> <ol style="list-style-type: none"> 1. Go to Transactions/Download/Tables 2. Click the Start button, a progress message will be displayed until successful download. <p>Result: Successful download. Message “End.” A successful summary of results will be displayed with POST “OK”.</p>
4	<p>Title: Export Sales Order to SAP system</p> <p>Action: Create sales order from MultiRoute and send to SAP system.</p> <ol style="list-style-type: none"> 1. Create a sales order in MultiRoute and synchronize. 2. Go to Upload/Order 3. Find the download green arrow, available sales order will be displayed. Select the transaction. 4. Find the upload green arrow and click to send transaction to SAP. A progress message will be displayed until successful upload. <p>Result: Transaction log will be displayed in the response grid with message ‘OK’ (if successful creation), or SAP error message if not created.</p>
5	<p>Title: Export Collection Receipt to SAP system</p> <p>Action: Create collection receipt from MultiRoute and send to SAP system.</p> <ol style="list-style-type: none"> 1. Create a collection receipt in MultiRoute and synchronize. 2. Go to Upload/Collection 3. Find the download green arrow, available receipt will be displayed. Select the transaction. 4. Find the upload green arrow and click to send transaction to SAP. A progress message will be displayed until successful upload. <p>Result: Transaction log will be displayed in the response grid with message ‘OK’ (if successful creation), or SAP error message if not created.</p>

APPENDIX

Please attach here all referenced document


1. Linux Distribution and SAP HANA Server Version:

The screenshot shows the SAP HANA system information page for instance NDB (B1ADMIN) ndb. The page title is "NDB (B1ADMIN) ndb 172.31.11.85 00". The navigation tabs include Overview, Landscape, Alerts, Performance, Volumes, Configuration, System Information, Diagnosis Files, and Trace Configuration. The "General Information" section is expanded, showing the following details:

Operational Status:	<input checked="" type="checkbox"/> All services started
System Usage:	Custom System
Start Time of First Started Service:	Nov 5, 2019 5:33:01 PM
Start Time of Most Recently Started Service:	Nov 5, 2019 5:33:25 PM
Distributed System:	No
Version:	1.00.122.22.1543461992 (fa/hana1sp12)
Build Time:	Nov 29, 2018 4:32:04 AM
Platform:	SUSE Linux Enterprise Server 12.3
Linux Kernel Version:	4.4.143-94.47-default
Hardware Manufacturer:	Xen
Installed Plug-ins:	AFL


2. SAP Business One Version:

About SAP Business One



Version: SAP Business One 9.3 version for SAP HANA (9.30.190) PL: 09 (64-bit)

Installation Number	0090205491
System Number	000000000850405673
HW Key:	G2065059925
Application ID	0
Hostname	WIN-VTT8AFIDLGF
Process ID	3540



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