SAP® Business One

SAP

May 2014

English

SAP Business One Add-On Solution Certification (B1-SDK) Technical Product Profile

Version	Status	Date
1.0	Final	November 2005
1.1	2.4 updated with Event Filtering	July 2006
1.2	Updated UI API section	May 2010
1.3	Chang Section 5	Aug. 2014

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Contents

Preface

This document can be seen as a checklist for all major topics to be checked during the certification process of an Add-On for SAP Business One.

This document <u>does</u> <u>not</u> 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.

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. 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
🧭	Recommendation
SYN	Syntax

1 Administrative Information

1.1 Vendor Data

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

1.2 Add-On Data

The Add-On to be certified is described by the following data (in general, a very recent Patch level of SAP Business One / SAP Business One SDK should be used (max age: a few months)):

Name & Version

Name	MultiRoute
Version ⚠️	2.0
Supported SAP Business One Releases	SAP Business One 9.2 (9.20.003)

SDK Data

DI-API / DI Server	DI API 90
Java Connector	None
UI-API	None
Screen Painter	None

Platform

Server component	Microsoft Windows Server 2012 R2 Standard
Client component	Microsoft Windows Server 2012 R2 Standard or Microsoft Windows 8.1
Database systems	*SAP B1 Server Database* Microsoft SQL Server 2008 10.0.1600
	Application Server Database Microsoft SQL Server 2014 12.0.2000
Microsoft .NET	■ Yes ☐ No

1.3 Development Platform

Languages:

Visual Basic	☐
C/C++	☐
C#	◼
JAVA	☐
Other, please specify:	☐

Tools:

Microsoft Visual Studio 6.0	☐
Microsoft Visual Studio .NET	◼
If others, please name all used tools here:	

2 Technical Information
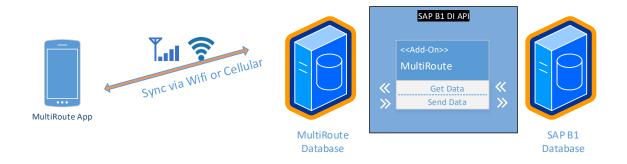
2.1 Functional Overview

Please describe 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.

2.2 Solution Architecture

Please describe the architecture of your solution by providing one or more diagrams showing the different components involved (database, SAP Business One application, usage of components such as DI API, UI API, ODBC, etc. and your application).

2.3 Database Details

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):		

Do you use User-Defined Fields?	☐ **Yes**	▉ **No**
If **Yes**, please list their names including short descriptions here (or attach as a separate document):		

Do you create your own stored procedures and / or triggers in SAP Business One databases?	☐ **Yes**	■ **No**
If **Yes**, please list their names 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 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):		

2.4 UI API

Do you use SAP Business One UI API?	☐ **Yes**	■ **No**
If **No**, please continue with 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**	☐ **No**
Shared DI API connection	☐ **Yes**	☐ **No**
Separated DI API + UI API connection	☐ **Yes**	☐ **No**

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. Notes: • 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. **Note: Please add relevant test cases to display the forms that contain such controls in**		

the functional testing section of this document.
Note: SAP suggests using standard SAP Business One controls wherever possible.

Do you support multiple languages?	☐ **Yes**	■ **No**
If **Yes**, please list the languages here and specify your preferred language for the test drive.		

2.5 DI API / DI Server

Do you use SAP Business One DI API or DI Server?	■ **Yes**	☐ **No**
If **No**, please continue with the next section.		

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

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 the details here:		

2.6 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:		

2.7 Other ways to connect to the database

Do you make direct connections (e.g. using ODBC) to SAP Business One databases?	☐ **Yes**	■ **No**

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

Do you update SAP Business One databases through these connection(s)?	☐ **Yes**	■ **No**

If **Yes**, please provide details and your reasons:

3 Documentation of the Add-On

3.1 Documentation Content

Do you have an Installation Documentation available?	■ **Yes**	☐ **No**
Do you have an End User Documentation 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**

If **Yes**, please attach any of the associated documents.

3.2 Documentation Support for Multiple Languages

Documentation is available for every supported language.	☐ **Yes**	■ **No**

Online-Help is available for every supported language.	☐ **Yes**	■ **No**

If **Yes**, please attach any of the associated documents.

4 Quality Assurance

Please provide a description of your internal Quality Assurance process:

A set of planned requirements and scope is defined for the AddOn. The purpose is to meet with the specific functional requirements during the quality audit process. Quality audit is performed by another team member not in the AddOn development team.

During testing, any corrective actions or defects are re-assigned to the development team for corrections. The cycle continues until every requirement is met and all non-conformity is worked.

5   Test Drive preparation

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 used calls.

For each test case please provide the following details using the template below.

- A Module Name which this module can be licensed separately.

- 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.

5.1 Functional Test Cases

Add more steps below as needed

MultiRoute AddOn		
Test Cases (Functions of this Module)		
1	**Title**:	Installation of the add-on MultiRoute 2.0
	Action:	Install the add-on based on the process describe in the installation guide. Please see appendix document Installation Manual - MultiRoute SAP Connector.pdf
	Result:	Add-on installed successfully.
2	**Title**:	SAP B1 Connection Environment
	Action:	Configure the SAP system which the add-on will connect to.
		1. Go to Configuration/Setting
		The installation will load default SAP system connection parameters.
		2. On the SAP tab click the Verify button
	Result:	Successful connection. Message "Tested …!"
3	**Title**:	Export SAP System Data
	Action:	Export SAP data to the MultiRoute database.
		1. Go to Transactions/Download/Tables
		2. Click the Start button, a progress message will be displayed until successful download.
	Result:	Successful download. Message "End." A successful summary of results will be displayed with POST "OK".

4	**Title**:	Export Sales Order to SAP system
	Action:	Create sales order from MultiRoute and send to SAP system.
		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.
	Result:	Transaction log will be displayed in the response grid with message 'OK' (if successful creation), or SAP error message if not created.
5	**Title**:	Export Collection Receipt to SAP system
	Action:	Create collection receipt from MultiRoute and send to SAP system.
		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.
	Result:	Transaction log will be displayed in the response grid with message 'OK' (if successful creation), or SAP error message if not created.

5.2 Performance / Load Test Cases

Does your Add-On process large volume of data?	☐ **Yes**	■ **No**

If **Yes**, please specify relevant test cases below.

Add more steps below as needed

1	**Title**:	click and overwrite
	Action:	click and overwrite
	Result:	click and overwrite
2	**Title**:	click and overwrite
	Action:	click and overwrite
	Result:	click and overwrite
3	**Title**:	click and overwrite
	Action:	click and overwrite
	Result:	click and overwrite

6 Appendix

Please attach here all referenced documents.