



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the ABAP interface software
for the product

SmartExporter 5.0

of the company

AUDICON GMBH

has been certified for integration with SAP S/4HANA 1610 via the SAP integration
scenario *ABAP Add-On Deployment for SAP S/4HANA*.

This certificate confirms the technical and syntactical consistency of the Add-On in
accordance with SAP certification procedures.
SAP only certifies successful integration of the product with SAP solutions. Vendor is
responsible for the product itself and its error-free operation.

The certification test is documented in report no. 8324
and expires January 26, 2020.

Vendor Hardware: PC x86-64

Vendor Operating System: Linux

SAP Test System: SAP S/4HANA 1610

Used Integration Tools: certified ERPConnect from Theobald Software

This configuration meets the requirements for deploying SmartExporter 5.0 on SAP
S/4HANA.

Certified Functions:

Assign Software Component with a registered Namespace

Package Add-On using SAP Add-On Assembly Kit (AAK)

Deploy using SAP Add-On Installation Tool (SAINT)

Integrate with SAP S/4HANA

Technical De-Installation Test

SAP Solution Manager Ready functionality

Waldorf, January 26, 2017

Christoph Claus, SAP SE

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SAP[®] Certified
Integration with SAP[®] S/4HANA



Interface Certification

ABAP Add-On Deployment on SAP S/4HANA

Test Report

SAP Integration and Certification Center



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Interface Certification #8324

SAP Interface incl. Release: ABAP Add-On Deployment for S/4HANA
SAP Product incl. Release: SAP S/4HANA 1610

Hardware used for SAP test system: PC x86-64
Operating System of SAP test system: Linux

Name of Vendor: AUDICON GMBH
Vendor Number (SAP internal): 758778

Vendor Product Name and Release: SmartExporter 5.0

Vendor Interface Software Name:
Release Vendor Interface Software:

Hardware used for Vendor Test System: PC x86-64
Operating System of Vendor Test System: Linux
Tools used for the technical integration:
certified ERPConnect from Theobald Software

Language Version tested: German

Certification Date: January 26, 2017
Expiration Date: January 26, 2020
Location: remote
Persons present - Vendor: Thomas Horschmann

Persons present - SAP: Christoph Claus

Certified Functions:

- Assign Software Component with a registered Namespace
 - Package Add-On using SAP Add-On Assembly Kit (AAK)
 - Deploy using SAP Add-On Installation Tool (SAINT)
 - Integrate with SAP S/4HANA
 - Technical De-Installation Test
 - SAP Solution Manager Ready functionality
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1. Product Information

Product information	
Product web page:	http://www.smartexporter.de
Which releases of the SAP Business Solutions does partner's software support?	<input checked="" type="checkbox"/> SAP S/4HANA 1610
Support contact information:	support@audicon.net

External Component of the Solution	
There's an external component, not written in ABAP, but integrated with the Add-On and belonging to the standard shipment of the solution.	
What is the programming language?	<input checked="" type="checkbox"/> C/C++ <input type="checkbox"/> Java J2EE Compatible? <input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> Others Provide name(s): C#
List databases that the component supports	
List server platforms that the component runs on	
What protocol/tool is used to integrate the external component with SAP?	<input type="checkbox"/> RFC with SAP Java Connector, Version: <input type="checkbox"/> RFC with SAP Connector for Microsoft .NET, Version: <input type="checkbox"/> RFC with SAP NetWeaver RFC Library <input type="checkbox"/> Http /Https integration through WebServices <input type="checkbox"/> File-based integration <input checked="" type="checkbox"/> Others Please specify: ERPCoconnect (Theobald Software)

2. Functional Overview

Supported Functions and Business Processes – General Description	
Overview on the functionality and the purpose of the 3 rd party product.	<p>SmartExporter is a software solution used to export and automatically prepare SAP data for further analysis. Access just the SAP data you need for your analysis fast and easy. SmartExporter is a Windows application that can be installed in no time. It meets your requirements for ad hoc analyses while keeping your data analysis expenses at a considerably low level.</p> <p>SmartExporter has only read access to SAP data. It does not run any Update/Insert/Delete operation on SAP standard tables</p>

3. Product Implementation

3.1 S/4HANA Conversion Strategy

There is a conversion strategy available, that supports customers to migrate the Add-On from SAP Business Suite to SAP S/4HANA.	
Details:	No changes to the existing Add-On are required. Customer can apply the very same Add-On for S/4HANA. An Attribute Change Package (ACP) is provided to support the conversion of the customer’s ERP system to S/4HANA.

3.2 Complete List of used and *released* SAP objects

The list below has been given to SAP by the Vendor, for reference purposes. SAP cannot guarantee that it's a complete list.

<u>Complete List of used BAPIs / RFCs / IDocs / ESs or other SAP building blocks that are officially released by SAP.</u>		
POPUP_TO_CONFIRM CONVERSION_EXIT_ISOLA_INPUT CONVERSION_EXIT_ISOLA_OUTPUT JOB_OPEN JOB_CLOSE DYNP_VALUES_READ	ADK_CCMS_GET_OBJECTS SCP_CODEPAGE_FOR_LANGUAGE FILE_GET_NAME ARCHIVE_GET_TABLE ARCHIVE_CLOSE_FILE	ARCHIVE_READ_OBJECT ARCHIVE_OPEN_FOR_READ ARCHIVE_GET_NEXT_OBJECT AS_API_READ GET_PRINT_PARAMETERS AS_API_INFOSTRUC_SELECT

3.3 Complete List of used and *unreleased* SAP objects

The list below has been given to SAP by the Vendor, for reference purposes. SAP cannot guarantee that it's a complete list. In addition, the correct functionality of the objects listed below is not in the scope of this ABAP Add-On Deployment certification.

<u>Complete List of used but unreleased SAP objects, such as function modules and reports.</u>		
SHOW_FILEPATH_FREESPACE DB_COMMIT SLIC_GET_CUSTKEY SLIC_GET_LICENCE_NUMBER SCMS_STRING_TO_XSTRING RS_FUNCTION_ACTIVE_CHECK TH_SERVER_LIST F4UT_RESULTS_MAP GET_MESSAGES LIST_FROM_MEMORY LIST_TO_ASCII SCMS_TEXT_TO_XSTRING REUSE_ALV_EVENTS_GET LVC_FIELDCATALOG_MERGE REUSE_ALV_GRID_DISPLAY_LVC	GET_GLOBALS_FROM_SLVC_FULLSCR BP_JOBLOG_SHOW_SM37B VIEW_ENQUEUE SUSR_USER_GROUP_GROUPS_GET DD_SHLP_CALL_FROM_DYNP RSAQ_READ_INSTALLED_LANGUAGES AS_API_INFOSTRUC_SELECT VIEW_AUTHORITY_CHECK GUID_CREATE SCP_GET_HTTP_NAME DDIF_FIELDINFO_GET AIND_NAMETAB_GET RFC_CLIENT_INFO RFC_GET_ATTRIBUTES TH_USER_INFO	ENQUE_SLEEP GET_JOB_RUNTIME_INFO BP_JOB_DELETE CL_ABAP_ZIP CL_ABAP_CONV_IN CL_ABAP_CONV_IN_CE CL_ABAP_CONV_OUT CL_ABAP_CONV_OUT_CE CL_GUI_ALV_GRID CL_GUI_FRONTEND_SERVICES CL_ABAP_CHAR_UTILITIES CL_ABAP_EXPIMP SSFC_BASE64_DECODE SSFC_BASE64_ENCODE

4. Quality

The Information below is provided by the 3rd party Add-On provider.
It has neither been tested nor validated by SAP.

4.1 Performance and Scalability

<p>Overview on the architecture and design of the product including performance and scalability.</p>	<p>SmartExporter implements certain techniques that will ensure the stability during runtime. For example, a packed reading approach is used to avoid RFC timeouts.</p> <p>For large data volume requests SmartExporter will use the SAP background processing system to schedule data collection jobs instead of blocking a dialogue work process.</p> <p>SmartExporter separates relevant business process steps such as checking the request, estimating the request and executing the request.</p>
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4.2 Quality Assurance

<p>Overview on Quality Assurance procedures from the vendors to assure that the interface design and performance consistently conform to specified requirements.</p>	<p>SmartExporter has been developed on five parallel major releases. Each development system is accompanied by a quality assurance system in which the developed objects are transported for full scale test drives.</p>
<p>The following quality documents exist:</p>	
<p>Test Plan Documentation</p>	<p><input checked="" type="checkbox"/> yes Comments:</p>
<p>Test Report Documentation</p>	<p><input type="checkbox"/> yes Comments:</p>
<p>Benchmark Results Documentation</p>	<p><input type="checkbox"/> yes Comments:</p>

4.3 Security

The Add-On Development Lifecycle ensures security	OK
The Add-On does not contain any Cross-Site Scripting (XSS) vulnerabilities	OK
The Add-On does not contain any memory corruption vulnerabilities	OK
The Add-On does not contain any SQL or other data query and manipulation language injection vulnerabilities	OK
The Add-On does not contain any Path Traversal vulnerabilities	OK
The Add-On does not contain any intentionally hidden and non-documented features that circumvent security measures (backdoor)	OK
<p>Remark to Path Traversal vulnerabilities: SmartExporter SAP components access to files and directories is limited to customized directories (logical files) and no other directories are accessed. There is no way to change the locations without appropriate permissions to the customization (transactions FILE, SF01)</p>	

5. Software Product Assessment

5.1 Check Documentation

Functional Documentation	<input type="checkbox"/> yes Comments:
Installation Documentation	<input checked="" type="checkbox"/> yes Comments:
Maintenance Documentation	<input type="checkbox"/> yes Comments:
End User Documentation	<input checked="" type="checkbox"/> yes Comments:
De-Installation Documentation, according to SAP Note 1883223 .	<input checked="" type="checkbox"/> yes Comments:

5.2 Install and Configure Product for SAP Integration

How is the installation and setup of the product integration part done?	<input checked="" type="checkbox"/> good <input type="checkbox"/> average <input type="checkbox"/> poor
Remarks	

6. Test Cases

6.1 Checks performed by the AddOn Assembly Kit (AAK)	
Invalid objects	OK
Existence of objects and table entries to be delivered	OK
Assignment to namespace	OK
Delivery of CVERS entries (R3TR VERS) not possible	OK
New objects (entries) in Support Package/CRT	OK
Table entries (check if delivery-relevant/delivery behavior)	OK
Assignment to development class and software component	OK
Table entries in customer name range (protected: TRES)	OK
Included AAK Log of Performed Checks	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Remarks: No log included, because everything was ok.	

6.2 Technical De-Installation Test	
Add-On is de-installable	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

<p>Without special precautions, the de-installation leads to a complete removal of all data and tables that were created and implemented with the Add-On in the system. In this case, it is in the responsibility of the Add-On supplier together with the customer, to save the data that is legally relevant and should not be deleted. In addition, it can be useful to perform a system copy in advance and/or to create a backup.</p> <p>The handling of data that was created with the Add-On has neither been checked explicitly, nor certified.</p>	
Add-On appears in transaction SAINT as de-installable	OK
Vendor provides a detailed de-installation documentation, including: <ul style="list-style-type: none"> • A list of workbench objects that need to be handled manually • The handling of data that was produced with the Add-On 	OK
Add-On was successfully de-installed after the deployment, i.e. the objects located in vendor's namespace were deleted.	OK
Remarks:	

6.3 Describe test steps to be executed during functional test

The test cases below are executed to check that the Add-On could run successfully in the SAP environment. SAP does not validate or confirm the correct functionality of the Add-On.

1 Logon / Authorization test	OK
2 DDIC download	OK
3 Request check	OK
4 Request volume estimation	OK
5 Synchronous request execution (RFC)	OK
6 Hybrid request execution using buffer methods table / file / cluster	OK
7 Cancelation of Hybrid request execution	OK
8 Asynchronous request execution using a background job to create data files	OK
9 Transfer of data files of asynchronous request	OK
10 Cancelation of asynchronous request using a background job	OK
11 Customizing of SmartExporter settings	OK
12 Status overview of running and completed data requests using the corresponding SAP transaction	OK
13 Deletion of request files using the corresponding SAP transaction	OK
14 Verification of Data Privacy (Anonymization, Encryption)	OK

7. Partner Confirmation

Partner states that by following the guidelines of the ICC Integration Assessment or ICC Integration Guide, only the integration technologies listed in this document are used in the described interface software.

ABAP Add-On deployment Certification is only valid for the SAP release and partner product release noted in this document; in the event of SAP **or** partner release changes SAP offers re-certification of the interface software.

The partner solution **has not been deployed or tested on SAP Solution Manager** as part of the certification procedure. It's therefore not "certified for SAP Solution Manager".