



Interface Certification: Test Report

ABAP Add-On Deployment for SAP S/4HANA

Interface Certification: 17568

SAP Interface incl. Release	ABAP Add-On Deployment for SAP S/4HANA
SAP Product incl. Release used for Test	SAP S/4HANA 2020

Vendor Name	AUDICON GmbH
Vendor Number	758778
Vendor Product Name & Release	SmartExporter 7.0
Vendor Interface Name & Release	
Operating System of Vendor Test System	Linux
Tools used for the Technical Integration	certified ERPConnect by Theobald Software
Language Version Tested	English
Certification Date	November 9, 2020
Expiration Date	November 9, 2023
Location	Walldorf
Person Present - Vendor	Klaus van der Meulen, Ritu Vishwakarma, Swapnil Kandekar.
Person Present - SAP	Christoph Claus

Certified Functions:

- Assign Software Component and Namespace**
- Package Add-On using SAP Add-On Assembly Kit**
- Deploy using SAP Add-On Installation Tool (SAINT)**
- Integrate with SAP S/4HANA**
- Technical Uninstallation Test**
- SAP Solution Manager Ready functionality**

1. PRODUCT INFORMATION

Product information	
Product web page:	http://www.smartexporter.de
Product is certified for:	SAP S/4HANA 2020
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 <input checked="" type="checkbox"/> Microsoft .NET <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 List of used 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.

List of used SAP Function Modules / BAPIs / RFCs / IDocs / Classes ... or other SAP building blocks		
POPUP_TO_CONFIRM	RS_FUNCTION_ACTIVE_CHECK	SCP_GET_HTTP_NAME
CONVERSION_EXIT_ISOLA_INPUT	TH_SERVER_LIST	DDIF_FIELDINFO_GET
CONVERSION_EXIT_ISOLA_OUTPUT	F4UT_RESULTS_MAP	AIND_NAMETAB_GET
JOB_OPEN	GET_MESSAGES	RFC_CLIENT_INFO
JOB_CLOSE	LIST_FROM_MEMORY	RFC_GET_ATTRIBUTES
DYNP_VALUES_READ	LIST_TO_ASCII	TH_USER_INFO
ADK_CCMS_GET_OBJECTS	SCMS_TEXT_TO_XSTRING	ENQUE_SLEEP
SCP_CODEPAGE_FOR_LANGUAGE	REUSE_ALV_EVENTS_GET	GET_JOB_RUNTIME_INFO
FILE_GET_NAME	LVC_FIELDCATALOG_MERGE	BP_JOB_DELETE
ARCHIVE_GET_TABLE	REUSE_ALV_GRID_DISPLAY_LVC	CL_ABAP_ZIP
ARCHIVE_CLOSE_FILE	GET_GLOBALS_FROM_SLVC_FULLSCR	CL_ABAP_CONV_IN
ARCHIVE_READ_OBJECT	BP_JOBLOG_SHOW_SM37B	CL_ABAP_CONV_IN_CE
ARCHIVE_OPEN_FOR_READ	VIEW_ENQUEUE	CL_ABAP_CONV_OUT
ARCHIVE_GET_NEXT_OBJECT	SUSR_USER_GROUP_GROUPS_GET	CL_ABAP_CONV_OUT_CE
AS_API_READ	DD_SHLP_CALL_FROM_DYNP	CL_GUI_ALV_GRID
GET_PRINT_PARAMETERS	RSAQ_READ_INSTALLED_LANGUAGES	CL_GUI_FRONTEND_SERVICES
AS_API_INFOSTRUC_SELECT	AS_API_INFOSTRUC_SELECT	CL_ABAP_CHAR_UTILITIES
FILE_VALIDATE_NAME	VIEW_AUTHORITY_CHECK	CL_ABAP_EXPIMP
FTP_CONNECT	GUID_CREATE	SSFC_BASE64_DECODE
FTP_COMMAND		SSFC_BASE64_ENCODE
FTP_DISCONNECT		CL_DB_SYS
SHOW_FILEPATH_FREESPACE		CL_ABAP_SESSION_TEMPERATURE
DB_COMMIT		CL_REST_HTTP_CLIENT
SLIC_GET_CUSTKEY		CL_IXML
SLIC_GET_LICENCE_NUMBER		CL_SWDC_CLIENT
SCMS_STRING_TO_XSTRING		CL_SEC_SXML_WRITER

3.2 SAP S/4HANA Conversion Strategy

<p>The Add-On has been successfully adjusted for SAP S/4HANA. The appropriate S/4HANA Readiness Check provided by SAP Code Inspector tool has been used. All entries of the worklist have been checked and corrected where necessary.</p>	<input checked="" type="checkbox"/> Yes
<p>There is a conversion strategy available, that supports customers to migrate the Add-On from SAP Business Suite to SAP S/4HANA:</p>	
<p>Details:</p>	<p>No changes to the existing Add-On are required.</p> <p>Customer can apply the very same Add-On for SAP S/4HANA. An appropriate Attribute Change Package (ACP) with the necessary import conditions is provided, to support the conversion of the customer's SAP system to SAP S/4HANA.</p>

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>
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The following quality documents exist:	
Test Plan Documentation	<input checked="" type="checkbox"/> yes Comments:
Test Report Documentation	<input type="checkbox"/> yes Comments:
Benchmark Results Documentation	<input type="checkbox"/> yes Comments:

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). The function module FILE_VALIDATE_NAME name is called to verify that the given filename is in the path defined by the logical file before it is accessed.</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:
Uninstallation Documentation, according to SAP Note 1883223 .	<input checked="" type="checkbox"/> yes Comments:

6. TEST CASES

6.1 Deployment of Add-On Solution	
Following PAT file(s) and Software Component Versions belong to the Add-On solution and were deployed successfully:	
List of PAT Files: ACG0020980371_0000003.PAT ACG0020980371_0000013.PAT ACG0020980371_0000014.PAT ACG0020980371_0000015.PAT ACG0020980371_0000016.PAT ACG0020980371_0000020.PAT	List of Software Component Versions: AUDIC 700_740
Remarks:	

6.2 Checks performed by the Add-On 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: TRESA)	OK
Included AAK Log of Performed Checks	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Remarks: No log included, because everything was ok.	

6.3 Technical Uninstallation Test	
Add-On can be uninstalled	<input checked="" type="checkbox"/> yes

<p>Without special precautions, the uninstallation 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>	
After deployment, Add-On is displayed in transaction SAINT as “uninstallable”	OK
Vendor provides a detailed uninstallation 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 uninstalled after the deployment, i.e. the objects located in vendor’s namespace were deleted.	OK
Remarks:	

6.4 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, Decryption)	OK
1 Data transfer of large volume through synchronous mode (RFC)	OK
2 Data transfer of large volume through hybrid mode (Buffer table / file / cluste)	OK
3 Data transfer of large volume through asynchronous mode (file)	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".

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