



# Interface Certification: Test Report

## ABAP Add-On Deployment for SAP S/4HANA Cloud, extended edition

**Interface Certification, S4HC EX Annual Renewal Contract CertID: 18515**

<b>SAP Interface incl. Release</b>	<b>SAP S/4HANA Cloud, extended edition</b>
<b>SAP Product used for Test</b>	<b>SAP S/4HANA</b>
<b>SAP Release used for Test</b>	<b>2021</b>
<b>S4HC EX CertID number</b>	<b>20002</b>
<b>S4H any-premise CertID number</b>	<b>20003</b>

<b>Vendor Name</b>	<b>AUDICON GmbH</b>
<b>Vendor Number</b>	<b>758778</b>
<b>Vendor Product Name &amp; Release</b>	<b>SmartExporter 8.0</b>
<b>Vendor Interface Name &amp; Release</b>	
<b>Operating System of Vendor Test System</b>	<b>Linux</b>
<b>Tools used for the Technical Integration</b>	<b>certified ERPConnect from Theobald Software</b>
<b>Language Version Tested</b>	<b>German</b>
<b>Certification Date</b>	<b>January 12, 2022</b>
<b>Expiration Date</b>	<b>January 12, 2025</b>
<b>Location</b>	<b>Walldorf</b>
<b>Person Present - Vendor</b>	<b>Thomas Horschmann, Klaus van der Meulen, Norbert Hunyadi, Swapnil Kandekar, Ritu Vishwakarma</b>
<b>Person Present - SAP</b>	<b>Christoph Claus</b>

<b><u>Certified Functions S4HC EX:</u></b>	<b><u>Certified Functions S4H any-premise</u></b>
<b>ABAP Add-On Deployment</b> <b>Security Code Scan using SAP CVA*</b> <b>Cloud Operational Requirements</b> <b>Cloud Technical Requirements</b> <b>Technical Uninstallation Test</b> <b>SAP Solution Manager Ready functionality</b>	<b>Assign Software Component and Namespace Package Add-On using SAP Add-On Assembly Kit</b> <b>Deploy using SAP Add-On Installation Tool (SAINT)</b> <b>Integrate with SAP S/4HANA 2021</b> <b>Technical Uninstallation Test</b> <b>SAP Solution Manager Ready functionality</b> <b>Compatible with SAP S/4HANA Cloud, private edition</b> <b>Works with RISE with SAP</b>



## 1. PRODUCT INFORMATION

Product information	
Product web page:	http://www.smartexporter.de
Product is certified for:	SAP S/4HANA 2021
Support contact information:	support@audicon.net

External Component of the Product	
There's an external component, not written in ABAP, but integrated with the Add-On and belonging to the standard shipment of the solution.	
Where does the external component run?	on Windows Client
List databases that the component supports	
List server platforms that the component runs on	
Are officially released SAP APIs used by the external component?	<input type="checkbox"/> Yes, please list the names here:
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: ERPCConnect (Theobald Software)

<p><b>Confirmation:</b> The external component runs 100% external. There's nothing to be installed on OS level of S4HC EX stack.</p>	<input checked="" type="checkbox"/> Yes
<p><b>Confirmation:</b> Connection of external component with S4HC EX is done in secure way, i.e. https is used, or VPN connection.</p>	<input checked="" type="checkbox"/> Yes

## 2. FUNCTIONAL OVERVIEW

<b>Supported Functions and Business Processes – General Description</b>	
<p>Overview on the functionality and the purpose of the 3<sup>rd</sup> party product.</p>	<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.

<b>List of used SAP Function Modules / BAPIs / RFCs / IDocs / Classes ... or other SAP building blocks</b>
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CL_ABAP_CHAR_UTILITIES	ARCHIVE_GET_TABLE	JOB_CLOSE
CL_ABAP_CONV_IN	ARCHIVE_OPEN_FOR_READ	JOB_OPEN
CL_ABAP_CONV_IN_CE	ARCHIVE_READ_OBJECT	LIST_FROM_MEMORY
CL_ABAP_CONV_OUT	AS_API_INFOSTRUC_SELECT	LIST_TO_ASCII
CL_ABAP_CONV_OUT_CE	AS_API_INFOSTRUC_SELECT	LVC_FIELDCATALOG_MERGE
CL_ABAP_EXPIMP	AS_API_READ	POPUP_TO_CONFIRM
CL_ABAP_GZIP_BINARY_STREAM	BP_JOB_DELETE	REUSE_ALV_EVENTS_GET
CL_ABAP_SESSION_TEMPERATURE	BP_JOBLOG_SHOW_SM37B	REUSE_ALV_GRID_DISPLAY_LVC
CL_ABAP_ZIP	CONVERSION_EXIT_ISOLA_INPUT	RFC_CLIENT_INFO
CL_DB_SYS	CONVERSION_EXIT_ISOLA_OUTPUT	RFC_GET_ATTRIBUTES
CL_GUI_ALV_GRID	DB_COMMIT	RS_FUNCTION_ACTIVE_CHECK
CL_GUI_FRONTEND_SERVICES	DD_SHP_CALL_FROM_DYNP	RSAQ_READ_INSTALLED_LANGUAGES
CL_IXML	DDIF_FIELDINFO_GET	SCMS_BASE64_DECODE_STR
CL_REST_HTTP_CLIENT	DYNP_VALUES_READ	SCMS_STRING_TO_XSTRING
CL_SEC_SXML_WRITER	ENQUE_SLEEP	SCMS_TEXT_TO_XSTRING
CL_SWDC_CLIENT	F4UT_RESULTS_MAP	SCP_CODEPAGE_FOR_LANGUAGE
CL_ABAP_MESSAGE_DIGEST	FILE_GET_NAME	SCP_GET_HTTP_NAME
CL_ABAP_TYPEDESCR	FILE_VALIDATE_NAME	SHOW_FILEPATH_FREESPACE
CL_ABAP_CLASSDESCR	FTP_COMMAND	SLIC_GET_CUSTKEY
CL_ABAP_DATADESCR	FTP_CONNECT	SLIC_GET_LICENCE_NUMBER
CL_ABAP_ELEMDSCR	FTP_DISCONNECT	SSFC_BASE64_DECODE
CL_ABAP_STRUCTDESCR	FUNCTION_EXISTS	SSFC_BASE64_ENCODE
CL_ABAP_TABLEDESCR	GET_GLOBALS_FROM_SLVC_FULLSCR	SUSR_USER_GROUP_GROUPS_GET
ADK_CCMS_GET_OBJECTS	GET_JOB_RUNTIME_INFO	TH_SERVER_LIST
AIND_NAMETAB_GET	GET_MESSAGES	TH_USER_INFO
ARCHIVE_CLOSE_FILE	GET_PRINT_PARAMETERS	VIEW_AUTHORITY_CHECK
ARCHIVE_GET_NEXT_OBJECT	GUID_CREATE	VIEW_ENQUEUE

### 3.2 SAP S/4HANA Conversion Strategy

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.		<input checked="" type="checkbox"/> Yes
There is a conversion strategy available, that supports customers to migrate the Add-On from SAP Business Suite to SAP S/4HANA:		
Details:	<p><b>No changes to the existing Add-On are required.</b></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

Overview on the architecture and design of the product including performance and scalability.	<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

Overview on Quality Assurance procedures from the vendors to assure that the interface design and performance consistently conform to specified requirements.	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.
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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:

## 5. SOFTWARE PRODUCT ASSESSMENT

### 5.1 Check Documentation

Installation Documentation (mandatory) <ul style="list-style-type: none"> <li>- Needed packages for installation</li> <li>- Prerequisites for installation</li> <li>- ...</li> </ul>	<input checked="" type="checkbox"/> yes Comments:
Technical Documentation (mandatory) <ul style="list-style-type: none"> <li>- Delivery strategy</li> <li>- Lifecycle management</li> <li>- Monitoring information</li> <li>- ...</li> </ul>	<input checked="" type="checkbox"/> yes Comments:
Uninstallation Documentation, (mandatory), according <a href="#">SAP Note 1883223</a> .	<input checked="" type="checkbox"/> yes Comments:
Functional Documentation	<input type="checkbox"/> yes Comments:
End User Documentation	<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: ACO0020980371_0000009.PAT	List of Software Component Versions: AUDIC 800_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: TRESC)	OK
Included AAK Log of Performed Checks	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<b>Remarks: No log included, because everything was ok.</b>	

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

<p>Without special precautions, the uninstallation leads to a complete <b>removal of all data and tables</b> 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><b>The handling of data that was created with the Add-On has neither been checked explicitly, nor certified.</b></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"> <li>• A list of workbench objects that need to be handled manually</li> <li>• The handling of data that was produced with the Add-On</li> </ul>	OK
Add-On was successfully uninstalled after the deployment, i.e. the objects located in vendor’s namespace were deleted.	OK
<b>Remarks:</b>	

<b>6.4 Additional technical checks for SAP S/4HANA Cloud, extended edition</b>	
<p><b>Security Code Scan</b>                      All priority 1 and priority 2 security issues found in the Code Vulnerability Analysis (CVA) tool were corrected, or mitigated.</p>	<p>OK</p> <p>64 CVA messages, all mitigated in the coding.</p>
<p><b>Modification / Enhancement Framework</b>                      There are no modifications of SAP objects included, and Extension Framework is not used.</p>	<p>OK</p>
<p><b>HANA Artifacts</b>                      No HANA Calculation Views used                      No HANA XSA used                      No extension of HANA Calculation Views                      No direct access to low level HANA DB</p>	<p>OK</p>
<p><b>Additional Technologies that must not be used:</b>                      No AMDP (ABAP Managed Database Procedures) BAdIs used                      No Logical Databases used                      No Clones of SAP objects in the Add-On                      No Field Exits in the Add-On                      No Automated Code Generation used                      No Dynamic Programming used                      No direct update/ insert/ change / delete of data in SAP tables                      No External form routine calls used in the Add-On</p>	<p>OK</p>
<p><b>Remarks: No log included, because everything was ok.</b></p>	

<b>6.5 Describe test steps to be executed during functional test</b>	
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 / cluster )	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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