

CertificateSAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the interface software for the product

peakboard 1.0

of the company

Peakboard GmbH

has been certified for integration with SAP S/4HANA 1511 based on ICC Integration Assessment.

This certificate confirms the existence of product features 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. 9918 and expires March 24, 2020.

Vendor Hardware: PC x86-64

Vendor Operating System: Windows 10 IoT Core

SAP Test System: SAP S/4HANA 1511

Used Integration Tools: certified ERPConnect from Theobald Software

This configuration meets the requirements for connecting peakboard 1.0 to SAP S/4HANA.

Certified Functions:

Call generically all available RFC function modules and BAPIs Call ERP Queries
Call BW Queries and InfoCubes
Unicode communication enabled

Walldorf, March 24, 2017

Christoph Claus, SAP SE

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Interface Certification based on

ICC Integration Assessment for S/4HANA

Test Report

SAP Integration and Certification Center

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Interface Certification #9918

SAP Interface incl. Release: ICC Integration Assessment for SAP S/4HANA

SAP Product incl. Release: SAP S/4HANA 1511

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

Name of Vendor: Peakboard GmbH

Vendor Number (SAP internal): 1703917

Vendor Product Name and Release: peakboard 1.0

Vendor Interface Software Name: Release Vendor Interface Software:

Hardware used for Vendor Test System: PC x86-64

Operating System of Vendor Test System: Windows 10 IoT Core

Tools used for the technical integration:

certified ERPConnect from Theobald Software

Certification Date: March 24, 2017 Expiration Date: March 24, 2020

Location: remote

Persons present - Vendor: Khoder Elzein

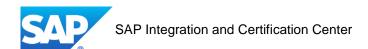
Persons present - SAP: Christoph Claus

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Call generically all available RFC function modules and BAPIsCall ERP Queries

Call BW Queries and InfoCubes

Unicode communication enabled



1. Vendor Company and Product Information

Product information		
Product web page:	www.peakboard.com	
Which releases of the SAP Business Solutions does the third-party's software support? Please name the corresponding version of the software.	SAP S/4HANA 1511	
For which databases is the software available?	Database independent	
On which server platform(s) does the software run?	Windows 10 IoT Core	

2. Functional Overview

Supported Functions and Business Processes – General Description				
Overview on the functionality and the purpose of the third-party product.	Peakboard visualizes complex data quickly, easily and in real-time as digital in-house communication on displays in production, administration and point-of-sale.			
	With peakboard you can extract and visualize your S/4 HANA data.			
	You can extract data from the following objects:			
	- SAP Tables			
	- BAPIs and Function Modules			
	- ERP Queries			
	- ABAP Reports and			
	- BW InfoCubes and BEx queries.			
	ERPConnect is used as a Connector for SAP.			

3. Performance

3.1 Performance and Scalability

Overview on the architecture and design of the third-party product including performance and scalability.

Peakboard visualizes complex data quickly, easily and in real-time as digital in-house communication on displays in production, administration and point-of-sale.

With peakboard you can extract and visualize your S/4HANA data. ERPConnect is used as a Connector for SAP.

ERPConnect is a lean .NET assembly that enables integration between the Microsoft .NET platform and the SAP systems.

Considerable effort went into developing ERPConnect to meet high performance and scalability objectives. Performance is a functional requirement that the architecture and design of ERPConnect takes into account throughout the application development life cycle.

ERPConnect development is an iterative process. Performance testing and measuring is performed between iterations.

3.2 Quality Assurance

Overview on Quality Assurance procedures by the third-party vendor to assure that the interface design and performance consistently conform to specified requirements.

Our QA team is actively involved in the development process to ensure that quality is built into the product.

The QA team prepares the test plans, write automated tests (unit tests) and manages the bug tracking process.

The QA team works independently but in parallel with development, and maintains checks and balances with the development team.

4. Software Product Assessment

4.1 Review Existing Documentation

Remarks

Functional Documentation	⊠ yes			
	Comments:			
Installation Documentation	⊠ yes			
	Comments:			
Maintenance Documentation	⊠ yes			
	Comments:			
End User Documentation	⊠ yes			
	Comments:			
Test Plan Documentation	⊠ yes			
	Comments:			
Test Report Documentation	⊠ yes			
	Comments:			
Benchmark Results Documentation	yes			
	Comments:			
4.2 Install and Configure Product for SAP Integration				
How is the installation and setup of the	⊠ good			
product integration part done?				

average

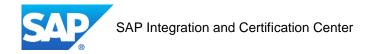
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5. Test Cases

5.1 Test steps executed during Test-Drive		
8.2.1 RFC Call		
In this test case we get a Customer List by calling SD_RFC_CUSTOMER_GET.		
Input: Name or Customer Number		
Output: Table Customer List		
8.2.2 Query Call		
In this test case we execute a the query CONNECTIONS_02 in the user group /SAPQUERY/QD in the <i>GLOBALAREA</i> workspace.		
We use a variant to set the parameters CARRID.		
Output: Query result as table		
8.2.3 Extract BWCUBE using MDX		
In this test case we call the InfoCube \$0D_DECU by selecting the desired dimensions and measures and get the output as a table.		
8.2.4 Extract BEx Query using MDX		
In this test case we call the BEx Query \$0D_DECU/VARDEMO01 by selecting the desired dimensions and measures and get the output as a table.		

6. Additional Service and Support

Does the third-party vendor offer consulting services for this product?	yes □ no
Remarks	
Does the third-party vendor offer training	⊠ yes
classes for this product?	no
Remarks	
Does the third-party vendor offer general	⊠ yes
problem support for this product?	no
Remarks	support@peakboard.com



7. Vendor Confirmation

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

Certification is only valid for the SAP release and vendor product release noted in this document; in the event of SAP component **or** third-party product release changes SAP offers re-certification of the interface software.