



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the interface software
for the product

ProMark 4.60.00

of the company

Mark Information A/S

has been certified for integration with SAP S/4HANA 1709 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. 12058
and expires September 30, 2021.

Vendor Hardware: PC x86-64

Vendor Operating System: Windows Server 2012

SAP Test System: SAP S/4HANA 1709

Used Integration Tools: certified ICARO BAPI Handler

This configuration meets the requirements for connecting ProMark 4.60.00 to
SAP S/4HANA.

Certified Functions:

Download HR Master Data from SAP

Upload Employee Absences to SAP

Upload Remuneration Data to SAP

Integration with SAP S/4HANA 1709

Waldorf, September 30, 2018

Christoph Claus, SAP SE

SAP, R/3, and SAP NetWeaver are registered trademarks of SAP SE Germany.
All other names are registered or unregistered trademarks of the individual firms.
<http://www.sap.com/icc>



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



Interface Certification based on

**ICC Integration Assessment
for S/4HANA**

Test Report

SAP Integration and Certification Center



© 2017 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies. See <http://www.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

Interface Certification #12058

SAP Interface incl. Release: ICC Integration Assessment for S/4HANA
SAP Product incl. Release: SAP S/4HANA 1709

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

Name of Vendor: Mark Information A/S
Vendor Number (SAP internal): 273717

Vendor Product Name and Release: ProMark 4.60.00

Vendor Interface Software Name:
Release Vendor Interface Software:

Hardware used for Vendor Test System: PC x86-64
Operating System of Vendor Test System: Windows Server 2012
Tools used for the technical integration: certified ICARO BAPI Handler

Certification Date: September 30, 2018
Expiration Date: September 30, 2021
Location: remote
Persons present - Vendor: Morten Janum

Persons present - SAP: Christoph Claus
Stefan Eckstein

Certified Functions:

- Download HR Master Data from SAP**
- Upload Employee Absences to SAP**
- Upload Remuneration Data to SAP**
- Integration with SAP S/4HANA 1709**
-

1. Vendor Company and Product Information

Product information	
Product web page:	https://www.mark-info.co.uk/products.aspx
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 1709
For which databases is the software available?	N/A
On which server platform(s) does the software run?	Windows and other operating systems via a webbrowser solution

2. Functional Overview

Supported Functions and Business Processes – General Description	
Overview on the functionality and the purpose of the third-party product.	<p>ProMark is a best of breed Workforce Management solution, offering modules for time & attendance, job, project & activity registration as well as employee scheduling and BI/reporting. Many customers include ProMark as part of a larger workforce optimisation (WFO) or human resource management solution (HRMS) where ProMark extends the SAP solution all the way to the individual employee. ProMark tracks time, performance and progress in real time at a detailed level and ensures the correct fact-based foundation for daily business decisions.</p> <p>ProMark seamlessly integrates with SAP, HR platforms i.e. like SuccessFactors and payroll systems. Mark Information has multiple and significant blue ship customers such as Carlsberg, Arla, Tryg and Danish Crown using SAP/SuccessFactors today and is presently the market leader in the Nordics.</p> <p>Read more at www.mark-info.co.uk.</p>

3. Performance

3.1 Performance and Scalability

<p>Overview on the architecture and design of the third-party product including performance and scalability.</p>	<p>ProMark is scalable due to its modern 3-tier architecture, which allows the solution to scale out and scale up as required. The solution is architected with a high-performance enterprise level relational database layer, which offers a comprehensive multiprocessing environment with high-availability, scalability for supporting thousands of concurrent users and terabytes of data, and enhanced security. On top of this a modern scalable and secure application server layer is utilized. The various ProMark clients interacts with the application server to exchange data and run ProMark business logic.</p>
--	---

3.2 Quality Assurance

<p>Overview on Quality Assurance procedures by the third-party vendor to assure that the interface design and performance consistently conform to specified requirements.</p>	<p>Testing is done per ProMark development guidelines, which includes a strict QA process with gates enforced before a final gold version of the software is released. Testing is performed via automation and inhouse exploratory testing according to the test scenario's.</p>
---	--

4. Software Product Assessment

4.1 Review Existing Documentation

Functional Documentation	<input checked="" type="checkbox"/> yes Comments:
Installation Documentation	<input checked="" type="checkbox"/> yes Comments:
Maintenance Documentation	<input type="checkbox"/> yes Comments:
End User Documentation	<input type="checkbox"/> yes Comments:
Test Plan Documentation	<input checked="" type="checkbox"/> yes Comments:
Test Report Documentation	<input checked="" type="checkbox"/> yes Comments:
Benchmark Results Documentation	<input type="checkbox"/> yes Comments:

4.2 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	

5. Test Cases

5.1 Test steps executed during Test-Drive	
8.2.1 Initial download of HR Masterdata through Standard Transaction PFAL / Standard report RHALEINI. Selected Infotypes are IT0000, IT0001, IT0002, IT0006, IT0007, IT0050, IT0105	Employee data properly imported and visualized in Subsystem
8.2.2 Change Name of a Person and DELTA FORMTEXT Download of HR Masterdata through Standard Transaction PFAL / Standard report RHALEINI. Selected Infotypes are IT0000, IT0001, IT0002, IT0006, IT0007, IT0050, IT0105	Change of employee data properly imported and visualized in Subsystem
8.2.3 Export Absences like Holiday or Sickness from ProMark, via ProHost module and upload to SAP using ATT_ABS01 IDOC	Absence is visible in SAP IT2001
8.2.4 Perform a period closing in ProMark and generate remuneration data in ProMark. Upload remuneration data to SAP using REM_SPEC01 IDOC	Remuneration is visible in SAP IT2010

Additional Comments:
<p>Cancellation Feature of the BAPIs PTManagerExtAttAbs.Insert and PTMgrExtRemunSpec.Insert is not supported by ProMark, instead ProMark relies on multiple data verification processing steps before data is sent to the SAP system.</p> <p>ProMark's Prohost module allows for flexible field mappings between SAP's IDoc data structure and ProMark's internal data structure. The mapping includes an advanced formula language to manage the transformation of record and field structures between the two systems. This allows the ProMark solution to cover customer specific SAP integration needs without a need to do custom programming.</p> <p>ProHost is a robust integration module which manages error handling, outlining specific problems with data received and ability to reprocess received or sent data to optimize the management of the solution.</p>

6. Additional Service and Support

Does the third-party vendor offer consulting services for this product?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Remarks	

Does the third-party vendor offer training classes for this product?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Remarks	

Does the third-party vendor offer general problem support for this product?	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no
Remarks	hotline.uk@mark-info.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.