



Interface Certification: Test Report

Third-Party Application on SAP HANA

HANA-APP 2.0

Interface Certification: 17307

SAP Interface incl. Release	HANA-APP 2.0
SAP Product incl. Release used for Test	SAP HANA 2.0(2.00.045.00)
Hardware used for SAP Test System	x86-64 (VMware)
Operating System for SAP Test System	SUSE Linux Enterprise Server for SAP Applications 12 SP2

Name of Vendor	FOUR JS DEVELOPMENT TOOLS EUROPE LTD.
Vendor Number	1317007
Vendor Product Name & Release	Genero® Enterprise 3.20
Hardware used for Vendor Test System	x86-64
Operating System of Vendor Test System	Linux Debian 10
Certification Date	February 22, 2021
Expiration Date	February 22, 2024
Location	Walldorf
Person Present - Vendor	Sebastien Flaesch
Person Present - SAP	Holger Kunitz

Certified Functions:

- Application runs on SAP HANA**

1. TECHNICAL REQUIREMENTS

1.1. Product Overview

Supported Functions and Benefits – General Description	
<p>Overview of the purpose and functionality of 3rd party application.</p>	<p>Genero BDL is a programming environment on its own and can be used in parallel with SAP HANA Platform applications.</p> <p>The purpose of Genero BDL is to keep alive legacy applications written in Informix 4GL for Informix Database. In the context of SAP HANA, these legacy applications can use the SAP HANA Database with Genero BDL.</p> <p>Genero Business Development Language (BDL) is easy-to-learn, rapid-development programming language, based on Informix 4GL. Genero key features are:</p> <ul style="list-style-type: none"> - P-Code based (compile in house and deploy anywhere) - Multi-platform (Linux, Unix, Windows, Mac OSX, Android, iOS) - Multi-database (Informix, Oracle DB, Oracle MySQL, MariaDB, IBM DB2 LUW, SAP Sybase ASE, SAP HANA, PostgreSQL, IBM Netezza, MS SQL SERVER) - Multi-front-end: Dump-terminal, Desktop GUI, Web Browsers, Mobile devices. - Support for modern technologies (Web Services, XML, JSON, Web Components, SSO, ...) <p>Customers typically have a large Informix 4GL legacy application, that can be recompiled with Genero and enhanced to use other databases as Informix IDS, and display a graphical interface.</p> <p>For more details, visit www.4js.com</p>

1.2. Third Party Application on SAP HANA Checklist

1.2.1 SAP HANA USAGE	
<p>SAP HANA DB Client Interfaces used</p>	<p><input type="checkbox"/> JDBC</p> <p><input checked="" type="checkbox"/> ODBC(hdbcclient 2.7.23; libodbcHDB.so)</p> <p><input type="checkbox"/> SQLDBC</p> <p><input type="checkbox"/> ODBO/MDX</p> <p><input type="checkbox"/> JDBC</p> <p><input type="checkbox"/> Python DB API</p> <p><input type="checkbox"/> ADO.NET</p>

TEST REPORT FOR INTERFACE CERTIFICATION (HANA-APP)

	<input type="checkbox"/> OData <input type="checkbox"/> XMLA <input type="checkbox"/> Server-Side JavaScript <input type="checkbox"/> Other: <input type="checkbox"/> None <p>Explain</p>
<p>HANA Object Types Supported</p>	<input checked="" type="checkbox"/> yes <input type="checkbox"/> HANA Modeling (Analytic/Calculation Views) <input checked="" type="checkbox"/> HANA Data (Row/Column Tables) <input checked="" type="checkbox"/> Stored Procedures in SQLScript <input type="checkbox"/> Native SAP HANA XS classic (XSC) <input type="checkbox"/> SAP HANA XS, advanced model (XSA) <input type="checkbox"/> JavaScript <input type="checkbox"/> Java <input type="checkbox"/> HTML5/SAPUI5 <input type="checkbox"/> no <p>Comments SAP HANA stored procedures can be executed from Genero programs, Genero application implementors can defined their own database schemas and stored procedures</p>
<p>Authentication Method</p>	<input type="checkbox"/> Kerberos protocol <input checked="" type="checkbox"/> SAML (Security Assertion Markup) - for web browser-based tools <p style="padding-left: 40px;">Name of SAML Identity Provider</p> <input checked="" type="checkbox"/> Other <p>Comments: SAML and OpenID-Connect are supported in the Genero Application Server (GAS) The GAS is a Genero product to deploy web applications, on top of the Genero core product. Note: SSO is performed at the GAS level before starting an fglrun application that will then connect to SAP HANA.</p>
<p>User Management & Security</p>	<p>OK</p> <p>Comments:</p>

TEST REPORT FOR INTERFACE CERTIFICATION (HANA-APP)

Trace and Log Files	OK Comments: hdb2x_01.ref
Error Handling	OK Comments:
Multi-Language Support	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Comments: Genero BDL does not use the repository content, supports UTF-8 and SBCS like ISO-8859-15
Backup & Recovery of Third-Party Application	not tested Comments:
Scalability of Third-Party Application	<input type="checkbox"/> no <input checked="" type="checkbox"/> yes Comments: Not tested

1.2.2 Install and Configure of the Application	
Installation and setup of the application	OK
Remarks	

1.2.3 Documentations	
Quality Assurance	<p>Test Plan</p> <p><input checked="" type="checkbox"/> yes <input type="checkbox"/> no</p> <p>Comments:</p> <p>Test Report</p>

TEST REPORT FOR INTERFACE CERTIFICATION (HANA-APP)

	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Comments: hdb2x_01.ref test results file Benchmark Study <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Comments:
Installation Guide Document	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Comments: Manual, just follow installer steps
User Document	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no Comments https://4js.com/online_documentation/fjs-fgl-manual-html/

1.3. Test Cases

Test case #1 Run the ODI test suite with SAP HANA; check results in hdb2x_01.ref file and sessions/connections/trace/activities in SAP HANA	OK

1.4. Performance Test Done by Vendor

The automated QA tests are only functional tests. No plans to setup a performance / scalability test. Can however track the execution time of these functional tests and identify if some test takes too much time to proceed.

Note: For details, please see the technical product profile document.

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