



Certificate

SAP INTEGRATION CERTIFICATION

SAP SE hereby confirms that the interface software for the product **Velocity 1.2** of the company **Kagool Limited** has been certified for deployment on SAP NetWeaver 7.40 via the SAP integration scenario **ABAP Add-On Deployment for SAP NetWeaver**.

This certificate confirms the technical compliance of **Velocity 1.2** with SAP certification procedures.

The certification test is documented in report no. **13797** and expires on **February 15, 2022**.

SAP Test System: SAP NetWeaver 7.40

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 NetWeaver 7.40
- Technical Uninstallation Test
- SAP Solution Manager Ready functionality

Christoph Claus

Walldorf, February 15, 2019

SAP[®] Certified
Powered by SAP NetWeaver[®]

THE BEST RUN 

SAP certification focuses on technical integration with SAP solutions. Vendor is responsible for the product itself, its error-free operation, and adherence to applicable laws.



Interface Certification: Test Report

ABAP Add-On Deployment

Interface Certification: 13797

SAP Interface incl. Release	ABAP Add-On Deployment
SAP Product incl. Release used for Test	SAP NetWeaver 7.40
SAP Solution	SAP NetWeaver

Vendor Name	Kagool Limited
Vendor Number	1786248
Vendor Product Name & Release	Velocity 1.2
Vendor Interface Name & Release	
Operating System of Vendor Test System	Microsoft Windows based OS
Tools used for the Technical Integration	
Language Version Tested	English
Certification Date	February 15, 2019
Expiration Date	February 15, 2022
Location	Walldorf
Person Present - Vendor	Ramesh Mandal
Person Present - SAP	Christoph Claus

Certified Functions:

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1. PRODUCT INFORMATION

Product information	
Product web page:	https://www.kagool.com/product-velocity
Which releases of the SAP Business Solutions does partner's software support?	<input checked="" type="checkbox"/> SAP ERP 6.0 EhP7 (SAP Basis 7.40)
Support contact information:	velocitysapsupport@kagool.com

2. FUNCTIONAL OVERVIEW

Supported Functions and Business Processes – General Description	
Overview on the functionality and the purpose of the 3 rd party product.	<p>Velocity is a Data Ingestion/Syndication solution that transfers data from any SAP system into any user defined destination using a REST API mechanism.</p> <p>Velocity is a serverless solution, meaning no additional servers are required in order to deploy and operationalise the SAP to Destination integration e.g. Data lake, Big Data etc. It acts as a bridge that connects directly between SAP and the target destination system(s). This reduces infrastructure and support costs, reduces solution complexity, whilst increasing security and deployment speed.</p> <p>Velocity enables a near real-time data feed into the required destination system (s) providing instant visibility of issues, enabling rapid action. ! This enables businesses to take greater control of their data by reacting to key metrics immediately as they occur, limiting impacts through immediate actionable insights.</p> <p>Velocity is a product which extends SAP capabilities for data Ingestion/Syndication in a speedy way ensuring data integrity and other security features.</p>

3. PRODUCT IMPLEMENTATION

3.1 Complete List of used and *released* 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.

<u>Complete List of used BAPIs / RFCs / IDocs / ESs or other SAP building blocks that are officially released by SAP.</u>		
NUMBER_GET_NEXT		
DB_COMMIT		
DATE_CHECK_PLAUSIBILITY		
BP_JOB_DELETE		
JOB_CLOSE		
JOB_OPEN		
CHANGEDOCUMENT_READ		
DDIF_FIELDINFO_GET		
VIEW_AUTHORITY_CHECK		
CL_ABAP_STRUCTDESCR		
CL_ABAP_TABLEDESCR		
CL_SXML_STRING_WRITER		
CL_ABAP_CONV_OUT_CE		
CL_ABAP_DYN_PRG		
CL_ABAP_TSTMP		
CL_HTTP_CLIENT		

3.2 Complete List of used and *unreleased* 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. In addition, the correct functionality of the objects listed below is not in the scope of this ABAP Add-On Deployment certification.

<u>Complete List of used but unreleased SAP objects, such as function modules and reports.</u>		
BP_JOB_ABORT		

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>This is a technical development which will be executed/triggered via a web portal (developed by Kagool) as a front end, hence there is no separate Architecture diagram for SAP piece of work, the overall Architecture diagram can be submitted on request.</p> <p>As of now, this product is intended to work on SAP ECC but can be extended to SAP EWM / GTS / APO etc.</p> <p>Bench marking performance considering peak system time: 2.7 million records in 12 min's</p> <p>Bench marking performance considering Off peak system time: 2.7 million records in 7 min's</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>At Kagool we believe that Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution.</p> <p>We have a team of Technical Architects who review all the design, thoroughly check the impact on all cross functional modules and approve the same on basis of successful testing done by respective teams (Functional / Testing) .</p> <p>All functionality is rigorously tested by respective teams on all the SAP landscapes. Test Plans are created & executed any defect are tracked & resolved before deploying the code.</p> <p>Test Plan covers very high data volumes across varied variety of SAP std. & customise tables.</p> <p>Test Plan attached seperately.</p>
<p>The following quality documents exist:</p>	
<p>Test Plan Documentation</p>	<p><input checked="" type="checkbox"/> yes Comments:</p>
<p>Test Report Documentation</p>	<p><input checked="" type="checkbox"/> yes Comments:</p>
<p>Benchmark Results Documentation</p>	<p><input type="checkbox"/> yes Comments: Velocity has been implemented in a major international client's ECC system. Details of this use case can be provided on request if required.</p>

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
Remarks:	

5. SOFTWARE PRODUCT ASSESSMENT

5.1 Check Documentation

Functional Documentation	<input checked="" type="checkbox"/> yes (all functionality for Velocity is performed via web portal developed by Kagool, no functional changes done in SAP)
Installation Documentation	<input checked="" type="checkbox"/> yes Comments:
Maintenance Documentation	<input type="checkbox"/> yes (no direct maintenance is required for SAP component of this solution)
End User Documentation	<input type="checkbox"/> yes (end users will not directly interact with SAP component)
Uninstallation Documentation, according to SAP Note 1883223 .	<input checked="" type="checkbox"/> yes Comments:

5.2 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	

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: DEV0021076714_0000004.PAT	List of Software Component Versions: KDP 100_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
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	
<p>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.</p>	
Get Metadata	
1 Go to T code /IWFND/GW_CLIENT	SAP NetWeaver Gateway Client screen will open
2 HTTP Method : “GET” , Request URI : web URL provided by Kagool team, HTTP Request (Header Name : “OBJECT” , Value : “MARA”) and execute	New screen will appear asking SAP user name & password
3. Update correct SAP credentials & enter	HTTP Response screen : Here you will see all the metadata fetched for respective table mentioned in the HTTP request Value

Table Extraction – Full / Delta	
1 Go to T code /IWFND/GW_CLIENT	SAP NetWeaver Gateway Client screen will open
2. HTTP Method : “POST”, Request URI : web URL provided by Kagool team, HTTP Request (Header Name : “Content-Type”, Value : “application/json” Header Name : “accept”, Value : “application/json”) and Input parametrs provided in the Body of HTTP request → execute	New screen will appear asking SAP user name & password
3. Update correct SAP credentials & enter	HTTP Response screen : Here we can see that batch job has been started successfully for the listed table either in Full / Delta mode as per input parameter in HTTP request Body.
4. T Code SM37 to check batch job status	New screen with appear asking for Job Name & user name
5. Enter User Name as “Azure_Batch” and execute	Here you will find SAP batch job with correct status.
6. If Status is “In Progress” refresh the screen & check in some time	Status should be completed in due time

Status Monitoring Service	
1 Go to T code /IWFND/GW_CLIENT	SAP NetWeaver Gateway Client screen will open
2 HTTP Method : “GET”, Request URI : web URL provided by Kagool team, HTTP Request (Header Name : “srcreqid”, Value : “11624” Header Name : “Action”, Value : “S”) and execute	New screen will appear asking SAP user name & password
3. Update correct SAP credentials & enter	HTTP Response screen : Here you will see status for respective request id mentioned in the HTTP request Value

6.5 Describe performance load test steps to be executed during functional test

The test cases below are executed within a reasonable time.

1 Test with 1000000 table records

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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