



SAP
Innovation
Awards 2019



SAP Innovation Awards 2019 Entry Pitch Deck

SAP HANA Database Support with Vertex O Series

Vertex Inc.

THE BEST RUN



SAP HANA Database Support with Vertex O Series



Vertex Inc.

“Quote”

“We view this as a game changer for our 500+ mutual customers. As customers plan and migrate to S/4HANA, they can now leverage the power and capabilities of SAP HANA to improve their business processes for tax automation with Vertex O Series.”

-Brian Wilchusky,
Global Partner Leader
– Vertex Inc.

Challenge

Customers are investing in and implementing S/4HANA applications and databases. It's critical to enable them to leverage this investment across all their 3rd party vendors – simplifying their IT landscape and realize the value of HANA.

Solution

Vertex and SAP worked together on a POC through a *Co-Innovated with SAP* program to add support for SAP HANA with Vertex O Series (our transaction tax solution).

Outcome

SAP is live in production with Vertex O Series running on SAP HANA. The completed effort enables SAP and other SAP HANA customers to simplify and eliminate the support required for multiple databases in addition to reducing costly licensing expenses. Customers will realize increased performance of O Series on HANA.

Vertex O Series performance on HANA is approximately 40% faster in response than Vertex O Series on DB2.

4 to 1 data compression ratio

Reduced IT support and maintenance costs.



Partner Information

Vertex Inc.

Strategic ISV Partner



“From the first requirements discussion with SAP, Vertex realized the value of supporting SAP HANA for our mutual customers. Our SAP and Vertex teams involved in the POC quickly developed a robust project plan that focused on getting SAP live in production and then delivering innovation to the wider customer base. It was a great example of how we could collectively co-innovate on our individual solutions to deliver increased value to the customer.”

- Ben Calderaio, Enterprise Data Architect



Business Challenge & Objectives

Challenge:

SAP customers are moving to S/4HANA and SAP HANA to address their business needs and requirements.

As a strategic ISV partner, Vertex wants to ensure that we are allowing mutual customers to fully take advantage of this investment in SAP.

The challenge was to leverage previous SAP HANA development work to add support of SAP HANA to our existing on-premise software solution for tax automation.

SAP and Vertex agreed to develop this effort under an innovation project – first delivering on a POC and then into Production.

Objectives:

Co-innovate on a solution that SAP could use internally.

Reduced licensing, IT support & maintenance costs for our mutual customers.

Enable customers to utilize their SAP HANA investment more broadly.

Improve performance of our applications for SAP customers.

Provide a solution that could be leveraged in support of the Intelligent Enterprise.



Project / Use Case Details

To deliver on this new functionality, we started with SAP HANA Express. By using HANA Express, we were able to quickly prove out the concept and capability to use the HANA DB and run transactions.

After this initial proof point, we worked closely with SAP to cooperatively develop a POC to explore the end-to-end lifecycle – from implementation to fully operational in production.

Over the course of the POC, we delivered pre-release functionality that could be tested out in the SAP internal environments. As testing proceeded successfully, we moved to delivering support in the released solution.

SAP went live in production in November 2018. We are now scheduling certification under the “Co-innovated with SAP” program. We will formally launch the availability at SAPPHIRE in May.



Benefits and Outcomes

Business / Social

SAP was able to use HANA for our tax application – eliminating the need for DB2 support.

For mutual customers with SAP and O Series, they can use SAP HANA for both applications and business processes.

SAP and Vertex collaborated to ensure customer success – by innovating through a mutual POC. Customers gain additional value through expanded partner usage of SAP HANA.

IT

Reduced maintenance and TCO
- supporting less DB's

4 to 1 compression ratio

Measurable performance
Improvements

Ability to use non-DB specific
language

If customer DB is less than 32
GB then they can use HANA
Express - which is free.

Human Empowerment

Enable business user to layer
Intelligent Enterprise capabilities
onto the HANA platform – using a
common core.

Faster processing times increase
value of tax automation –
enabling tax department to focus
on higher value activities.

Reduced IT maintenance and
support of additional database
knowledge

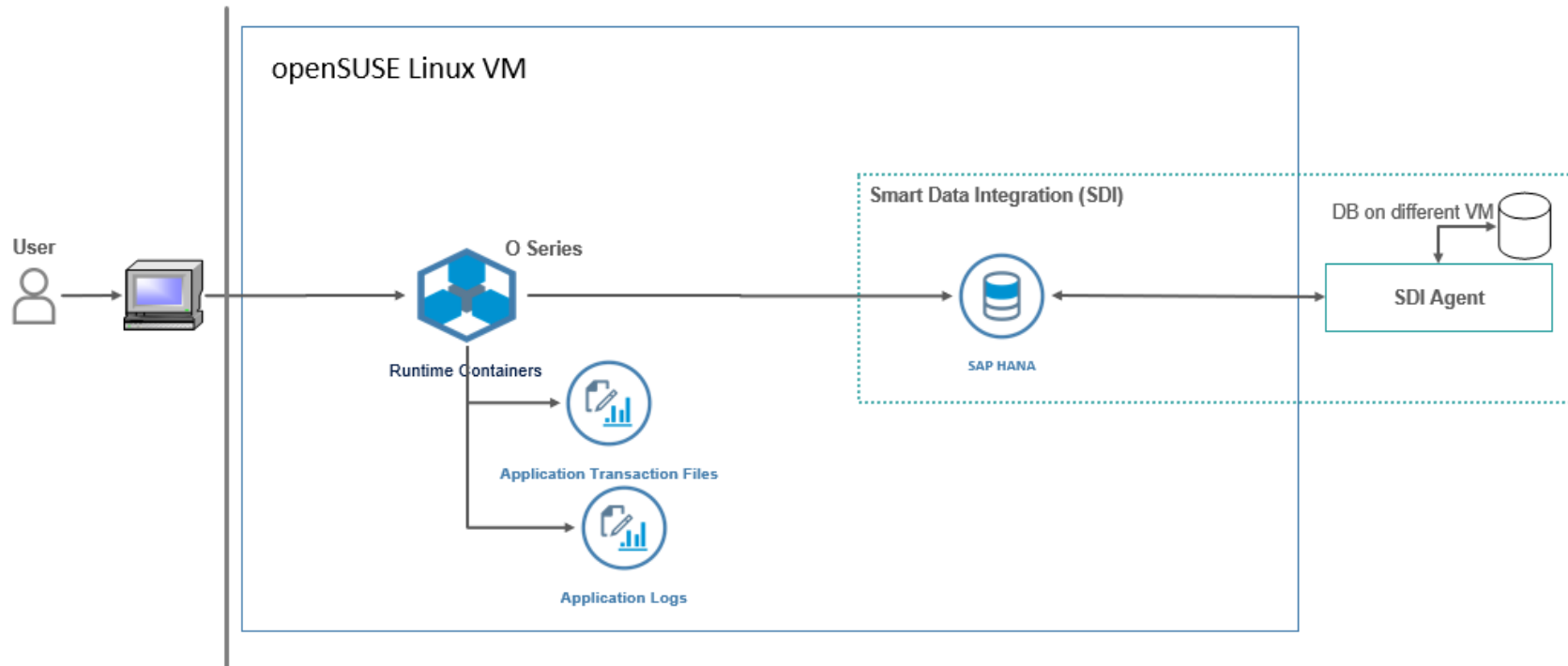
Faster implementation, return on
investment (ROI), scalability and
lower total cost of ownership
(TCO).



Architecture

Vertex leveraged the following architecture to support development and support of SAP HANA. SAP set up internal environments to support the POC. New customers will receive documentation on how to install on SAP HANA.

Proof of Concept Architecture – Internal VM





Deployment

Date of Deployment or POC: 11/2018 Production

Number of live users: 1 (SAP America)

SAP Technologies Used:

SAP HANA	Production and POC
SAP HANA Express	POC
Smart Data Integration (SDI)	POC
SAP S/4HANA	Production and POC

Server Processor: Unknown

Linux Distribution: Suse



Emerging Technologies and Use Cases

The following Emerging Technologies and use-cases are part of the project and describe the contribution

	Technology or Use Case	Yes/No	Contribution to Project
1.	Machine Learning / Artificial Intelligence		
2.	IoT		
3.	3D printing		
4.	Blockchain		
5.	API Economy / Integrate the Intelligent Enterprise		
6.	Cloud Native / Event Based Architectures		
7.	Extending the digital core with SAP CP / ABAP in SAP CP	Yes	Yes – used it for internal testing
8.	SAP Leonardo Application (extending SAP application, using Industry Innovation Kits or result of Design Thinking workshop)		