

# SAP HANA v1.x (HIGH PERFORMANCE ANALYTICS)

## A DREAM COMES TRUE: REAL-TIME DATA ANALYTICS IS HERE!

### WHAT IS SAP HANA?

- 1) HANA is a pre-configured hardware appliance with built-in software application delivered for in-memory computing of non-aggregated data. The software application delivered with HANA comes with a built-in application called IMCE (in-memory computing engine) which provides tools to build and maintain HANA applications
- 2) SAP HANA is all about pushing the in-memory computing technology to the next level by offering high volume, real-time data analytics on transactional data (incl. SAP ECC) with no compromise on performance
- 3) HANA builds a data mart internally based on non-aggregate data that can be accessed directly using several front-end tools
- 4) HANA uses column store and row store based data for in-memory storage and retrieval. HANA provides real-time access to SAP ECC data using real-time replication, thereby eliminating the need for data modeling.

### HOW DOES HANA DIFFER FROM BWA?

- 1) HANA is much more than SAP BWA. In the next few years, HANA will eventually replace BWA. HANA builds an in-memory data mart unlike SAP BWA that builds an in-memory data store based on an SAP BW info-provider. HANA is more flexible and enables next generation column and row set based analytics on real-time (both SAP and non-SAP) data
- 2) HANA is delivered with a new calculation engine, developer studio, row and column store, with open access to SAP front-end tools including MS Excel using SQL, MDX and BICS access respectively.

SAP RECENTLY ANNOUNCED A PRECISE ROADMAP FOR HANA PROVIDING FULL DETAILS ON THE FIRST RELEASE OF HANA(v1.0). HANA IS ALL ABOUT HIGH VOLUME REAL-TIME (**NON-AGGREGATED**) DATA ANALYTICS. LONG-TERM HANA WILL SUPERCEDE SAP-BWA.

### A - Key Features of HANA v1.0:

- 1) Real-time replication of SAP ECC and other transactional data sources (using data services) via IMCE interface
- 2) Using Columnar Data Store HANA optimizes on CPU utilization to load and retrieve data. Columnar Data Store can be joined with Row based data on the fly

### B – BW 7.3 in Context To HANA

- 1) Wizard based data modeling environment for semantic partitioning with full support to HANA and BWA
- 2) Remodeling of Info providers extended from Info Cube to also support DSO's with replication into SAP BWA and HANA data stores

### C - What's Cool in HANA v1.0:

- 1) SAP ECC Real-time Data Replication
- 2) Native access to BI4 tools and Microsoft Excel (using a new add-in)
- 3) Support for BICS, SQL and MDX connectivity which provides open access to 3<sup>rd</sup> party front-end tools

### D –Success Factors for HANA:

- 1) Leverage partnership with SAP initially to implement HANA and in parallel build an in-house skill set to implement and maintain HANA long-term. Start implementation small with option to expand
- 2) Review hardware vendor offerings (IBM, Cisco, Fujitsu, Dell & HP ) in context to cost, flexible hardware sizing HANA: IBM, Cisco, Fujitsu, Dell & HP
- 3) Depending on the level of functionality that you plan for HANA, you will need to plan for additional software components ( i.e: SAP BI4, SAP Data Services 4, SAP BO Explorer 4, and SAP Advanced Analytics) and additional servers within your landscape

### E - My 2 Cents On HANA:

- 1 - Simple columnar data marts will replace complex SAP BW data models
- 2 – If properly implemented, HANA will eliminate most of the month-end and periodic closing jobs within SAP BW



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This document illustrates Rama's individual implementation experiences and recommendations for SAP BW, SAP HANA, BOBJ XI 3.1 & SAP BI 4 only. Copyright © 2011. All rights