Summary

Symptom

Support and special considerations for multiple SAP HANA databases on a single SAP HANA appliance.

Other terms

MCOS Multi-SID

Reason and Prerequisites

System landscape and deployment configuration planning in regards to SAP HANA.

Solution

Support for multiple SAP HANA databases on a single SAP HANA appliance

Definition: "SAP HANA appliance": "SAP HANA appliance" means a single SAP HANA node server or a scale-out cluster of multiple server nodes where at least one SAP HANA database (and associated compnents) resides.

This described scenario has also been called Multiple Components One System (MCOS) in regards to other SAP applications. The term "SAP HANA system" is used interchangeably with the term "SAP HANA appliance and associated components".

In this context, a new term is introduced: ""Multi-SID", which refers to the same topic covered here in this note (multiple databases on one SAP HANA appliance).

Support Status:

Important: When considering the support status, bear in mind that the items in the "special considerations" section which follows must be taken into account.

SAP **does not support** running multiple SAP HANA databases (SIDS) on a single **production** SAP HANA appliance.

SAP **does support** running multiple SAP HANA databases on a single **non-production** (DEV, QA, test, production fail-over, etc) single-node SAP HANA appliance. While SAP HANA is delivered by the hardware partners with one DB installed, as of SP5, customers can install additional DBs on the same SAP HANA appliance using the On-Site Configuration tool.

SAP **does support** multiple SAP HANA databases on a distributed (multi-node) **non-production** SAP HANA appliance. While SAP HANA is

delivered by the hardware partners with one DB installed, as of SP5, customers can install additional DBs on the same SAP HANA appliance using the On-Site Configuration tool.

To be clear, running multiple SAP HANA databases is supported for all types of non-production SAP HANA appliances.

Special Considerations:

Please ensure that your SAP HANA appliance is sized appropriately for any additional DBs that you wish to deploy. We recommend working closely with your hardware partner to ensure adequate capacity planning.

Please be aware that running multiple DBs on one SAP HANA appliance may impact performance of various types of operations, as contention for memory resources may occur. This performance impact may appear despite adequate sizing. Note this multiple DB one SAP HANA configuration is only available for non-production SAP HANA appliance, where consistently fast performance is generally not as critically important as it is with production systems.

If performance issues arise when running multiple DBs on one SAP HANA appliance, stop all but one of the DBs and see if the performance issue persists. SAP support will address the performance issue only if it can be shown to exist when only one DB is running on the SAP HANA appliance.

Please be aware: if (general) issues arise when running multiple DBs on one SAP HANA appliance, as part of the troubleshooting process, SAP or the hardware partner may ask you to stop all but one of the DBs and see if the issue persists.

Header Data

Release Status:	Released for Customer
Released on:	19.12.2012 12:31:44
Master Language:	English
Priority:	Recommendations/additional info
Category:	Installation information
Primary Component:	BC-HAN-INS For HANA DB use BC-DB-HDB for HANA Studio use BC-HAN-MOD

Secondary Components:

BC-DB-HDB SAP HANA database

Valid Releases

Software Component	Release	From Release	To Release	and Subsequent
HDB	1.00	1.00	1.00	X

Related Notes

Number	Short Text
1787755	SLD configuration for multiple SAP HANA databases in SPS04
1730999	Configuration changes in HANA appliance
1730928	Using external software in a HANA appliance
1666670	BW on SAP HANA - landscape deployment planning
1661202	Support for multiple applications on SAP HANA