

BW LSA Methodology before Hana migration

Definition :

SAP introduces the term **LSA** – Layered, Scalable Architecture in order to describe the design of service-level oriented, scalable, best practice BW architectures founded on accepted EDW principles*. EDW = Enterprise Data Warehouse The LSA serves as a reference architecture to design transparent, complete, comprehensive customer DWH architectures (Customer LSA). The Customer LSA describes corporate standards to build BI applications in a performant, maintainable, flexible manner.

- LSA is used on RBMS (RDBMS stands for Relational Database Management System = Oracle Database for us -> see appendices for more detail)
- LSA++ is used on HANA.

Main difference between LSA and LSA ++ is about the usage of DSO instead Infocube on the multiprovider because infocube will disappear with Hana.

After several months of LSA methodology usage on WBP system for any new project or important maintenance developments, we can sum-up the methodology for WBP with following level :

Level 0 : Acquisition layer = PSA

Level 1 : Harmonisation layer = infosource (not often used and 98 % of dev are done with acquisition layer PSA to Propagation layer = DSO)

Level 2 : Propagation layer = DSO and nothing are done on the transformation between Datasource and this DSO (1 to 1 and no business transformation rules) because it could be the source for several project

Level 3 : Business Transformation layer = DSO or several level of DSO if the transformation are complex

Level 4 : Reporting layer = Infocube (still used on LSA and no more with Hana) and because on WBP the system is linked with BWA server

Level 5 : Virtual layer = multiprovider and in this level only the core queries are build except the jump queries based on the DSO done on the level 3 (Business Transformation layer) with Hana the usage of CompositeProvider.

Level 6 : Open Hub Destination, in this level all open hub destination linked with infocubes, DSO or queries based related to the infoarea will be stored.

+ Please make the folder (for new project) on Solvay infoarea as below :

SOLVAY	IA SOLVAY
CBS - WBS Cost Analysis	IA_SOLVAY_F_CO_CBS_PS
CBS – Transactional	IA_SOLVAY_F_CO_CBS_PS_TRANS
CBS – Master data	IA_SOLVAY_F_CO_CBS_PS_MD
CBS - Reporting Layer	IA_SOLVAY_F_CO_CBS_PS_REP
CBS - Business Layer	IA_SOLVAY_F_CO_CBS_PS_BUS
CBS - Propagation Layer	IA_SOLVAY_F_CO_CBS_PS_PROP