

S13 - BW Modeling - ADSO - Part 2

ADSO	<ol style="list-style-type: none">1. Definition and Positioning2. Types of ADSOs3. Mapping to previous versions4. Details on each type of ADSO5. Active/Nonactive concept6. Partitioning and Indexing	12th Sep: 10 AM - 12 Noon
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Q & A - Pre Session

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CDS View - Tools and Tables

Tcode SDDLAR	CDS analysis and Repair Tools
Table RSODPABAPCDSVIEW	The connection between DDLNAME and SQLVIEWNAME
Tcode RSRTS_ODP_DIS	Transaction RSRTS_ODP_DIS displays transient providers of different contexts. It can be used to check if the analytic engine is able to interpret the underlying metadata correctly.
CDS Query Browser	<p>Basic Config to Activate the Query Browser and Role assignment :</p> <p>1. Use transaction SICF to activate the following ICF service (with sub-trees):</p> <p><code>/default_host/sap/bc/ui5_ui5/sap</code></p> <p>use transaction <code>/n/IWFND/MAINT_SERVICE</code> to add OData Service</p> <p>VDM_CDSVIEW_BROWSER from the Backend system.</p> <p>2. Assign role SAP_BR_EMPLOYEE to the a user through SU01.</p> <p>3. Activate ICF Services</p> <p>Use transaction SICF to activate the following ICF services (with all sub-trees):</p> <p><code>/sap/bw/ina</code></p> <p><code>/sap/bw/Mime</code></p> <p><code>/default_host/sap/public/icf_info</code></p>

ADSO (Advanced DSO)

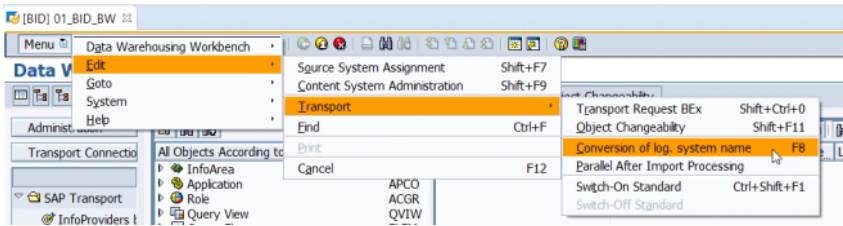
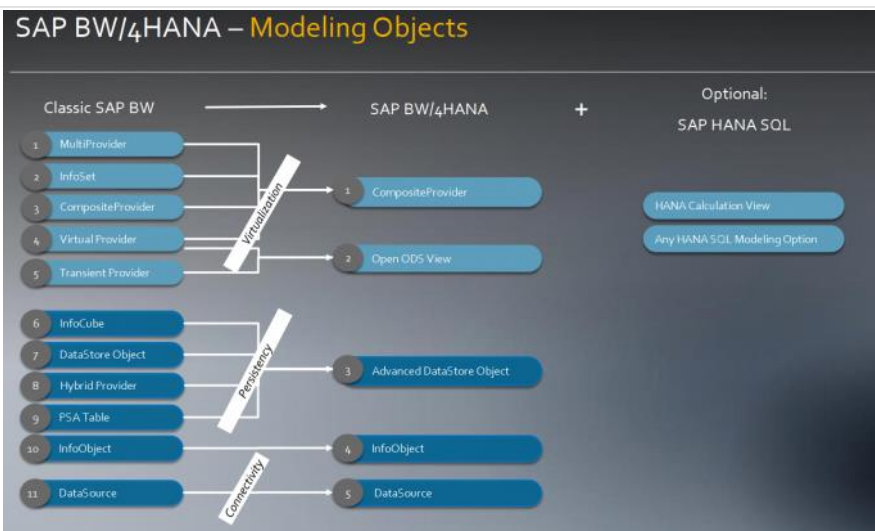
ADSO	OneDrive Link


PSA Replacement

ADSO Type	Feature to edit data	Screenshot									
Flow stnd content		DS -> Staging ADSO DS -> Int DWH ADSO (Stnd ADSO/Datamart ADSO) -> CompositeProv									
Staging - Inbound only	No										
Staging - Compress (Inbound + Active)	Yes	<input type="checkbox"/> Data Package	Data Record	Record Mode	VBELN	POSNR	MATNR	KWMENG	SALESUNIT	AUDAT	LASTCHANGEDAT
		<input type="checkbox"/> 1	1		0000000001	10	WY01-NACL	2.000	KG	02.04.2020	202006120218...
		<input type="checkbox"/> 1	2		0000000002	10	WY01-NACL	2.000	KG	03.04.2020	202004030358...
		<input type="checkbox"/> 1	3		0000000003	10	WY01-KCL	2.000	KG	03.04.2020	202004030728...
		<input type="checkbox"/> 1	4		0000000004	10	WY01-NACL	2.000	KG	05.04.2020	202004051622...
		<input type="checkbox"/> 1	5		0000000005	10	WY01-NACL	3.000	KG	05.04.2020	202004051643...
		<input type="checkbox"/> 1	6		0000000006	10	WY01-KCL	2.000	KG	06.04.2020	202004061656...
		<input type="checkbox"/> 1	7		0000000007	10	WY01-KCL	2.000	KG	06.04.2020	202004061713...
		<input type="checkbox"/> 1	8		0000000008	10	WY01-KCL	2.000	KG	06.04.2020	202004061716...
		<input type="checkbox"/> 1	9		0000000009	10	WY01-KCL	3.000	KG	07.04.2020	202004070824...
Staging - Reporting enabled (Inbound + Active)	Yes	<input type="checkbox"/> Data Package	Data Record	Record Mode	VBELN	POSNR	MATNR	KWMENG	SALESUNIT	AUDAT	LASTCHANGEDAT
		<input type="checkbox"/> 1	1		0000000001	10	WY01-NACL	2.000	KG	02.04.2020	202006120218...
		<input type="checkbox"/> 1	2		0000000002	10	WY01-NACL	2.000	KG	03.04.2020	202004030358...
		<input type="checkbox"/> 1	3		0000000003	10	WY01-KCL	2.000	KG	03.04.2020	202004030728...
		<input type="checkbox"/> 1	4		0000000004	10	WY01-NACL	2.000	KG	05.04.2020	202004051622...
		<input type="checkbox"/> 1	5		0000000005	10	WY01-NACL	3.000	KG	05.04.2020	202004051643...
		<input type="checkbox"/> 1	6		0000000006	10	WY01-KCL	2.000	KG	06.04.2020	202004061656...
		<input type="checkbox"/> 1	7		0000000007	10	WY01-KCL	2.000	KG	06.04.2020	202004061713...
		<input type="checkbox"/> 1	8		0000000008	10	WY01-KCL	2.000	KG	06.04.2020	202004061716...
		<input type="checkbox"/> 1	9		0000000009	10	WY01-KCL	3.000	KG	07.04.2020	202004070824...
Stnd w/th ChangeLog	Yes	<input type="checkbox"/> Data Package	Data Record	Record Mode	VBELN	POSNR	MATNR	KWMENG	SALESUNIT	AUDAT	LASTCHANGEDAT
		<input type="checkbox"/> 1	1		0000000001	10	WY01-NACL	2.000	KG	02.04.2020	202006120218...
		<input type="checkbox"/> 1	2		0000000002	10	WY01-NACL	2.000	KG	03.04.2020	202004030358...
		<input type="checkbox"/> 1	3		0000000003	10	WY01-KCL	2.000	KG	03.04.2020	202004030728...
		<input type="checkbox"/> 1	4		0000000004	10	WY01-NACL	2.000	KG	05.04.2020	202004051622...
		<input type="checkbox"/> 1	5		0000000005	10	WY01-NACL	3.000	KG	05.04.2020	202004051643...
		<input type="checkbox"/> 1	6		0000000006	10	WY01-KCL	2.000	KG	06.04.2020	202004061656...
		<input type="checkbox"/> 1	7		0000000007	10	WY01-KCL	2.000	KG	06.04.2020	202004061713...
		<input type="checkbox"/> 1	8		0000000008	10	WY01-KCL	2.000	KG	06.04.2020	202004061716...
		<input type="checkbox"/> 1	9		0000000009	10	WY01-KCL	3.000	KG	07.04.2020	202004070824...
Stnd w/o ChangeLog	Yes	<input type="checkbox"/> Data Package	Data Record	Record Mode	VBELN	POSNR	MATNR	KWMENG	SALESUNIT	AUDAT	LASTCHANGEDAT
		<input type="checkbox"/> 1	1		0000000001	10	WY01-NACL	2.000	KG	02.04.2020	202006120218...
		<input type="checkbox"/> 1	2		0000000002	10	WY01-NACL	2.000	KG	03.04.2020	202004030358...
		<input type="checkbox"/> 1	3		0000000003	10	WY01-KCL	2.000	KG	03.04.2020	202004030728...
		<input type="checkbox"/> 1	4		0000000004	10	WY01-NACL	2.000	KG	05.04.2020	202004051622...
		<input type="checkbox"/> 1	5		0000000005	10	WY01-NACL	3.000	KG	05.04.2020	202004051643...
		<input type="checkbox"/> 1	6		0000000006	10	WY01-KCL	2.000	KG	06.04.2020	202004061656...
		<input type="checkbox"/> 1	7		0000000007	10	WY01-KCL	2.000	KG	06.04.2020	202004061713...
		<input type="checkbox"/> 1	8		0000000008	10	WY01-KCL	2.000	KG	06.04.2020	202004061716...
		<input type="checkbox"/> 1	9		0000000009	10	WY01-KCL	3.000	KG	07.04.2020	202004070824...
Datamart ADSO	No										
Direct update ADSO	No										

Obsolete Vs Successor objects for SAP BW/4HANA

August 10, 2019 7:33 PM

Classic Objects	BW/4HANA Objects
Modeling Artifacts	
InfoCube	ADSO (Advanced DSO)
Classic DSO	ADSO
RDA	Streaming process chains
Virtual Provider based on DTP	Open ODS View
Virtual Provider based on SAP HANA Model	Open ODS View or Composite Provider
Virtual provider based on FM	BAdi Provider (3B*)
Hybrid Provider	ADSO
Infosets	Composite Provider (HCPR)
MultiProviders	Composite Provider (HCPR)
CompositeProvider (COPR)	Composite Provider (HCPR)
PSA	Replaced by ADSO (Field based Staging ADSO)
Infoobjects with master data access via HANA attribute view	Open ODS View of type master data
SPO	Semantic Group comprising ADSOs
Local Composite provider in workspaces (COPR)	Local Composite Provider in workspaces (CPRO)
Technical content Datasources	Replaced by ABAP CDS views based Statistical content (pure Virtual: 2CRV* & 2CRV*Q)
Generic datasources in BW	Replaced by ABAP CDS views
InfoPackage	DTP
RSA1 - Modeling tab	Eclipse based modeling
Delta Queue (RSA7)	ODQ (Operational Delta Queue) tcode: ODQMON
PSA record manipulation	Replaced Inbound table
APD	HAP
CMOD based customer exists (RSR)	BAdi based enhancement spots (RSROA)
DAP (Data Archiving Process)	DTO (Data Tiering Optimization)
RSA1 -> Conversion of logical system	RSA1 -> Transport Connection -> Edit -> Transport -> Conversion of log. System name
	
Process chain display component hierarchy	Infoareas
Infoobject Catalog	Infoareas
Pictorial Depiction	
Old Vs New Modeling Objects	
Reporting Artifacts	
Bex Query Designer	BW-MT Query Designer
Bex Analyzer	AO Excel, SAP Analytics Cloud
Bex Web	Lumira Designer,

	SAP Analytics Cloud
Bex Information Broadcasting	SBOP scheduling
Bex Integrated Planning	BPC 11.0 add-on for BW/4HANA, SAP Analytics Cloud
SAP BO Future Direction	
SAP BOBJ (SAP Business Objects)	<p>Combining SAP Analytics Cloud and BusinessObjects Enterprise</p> 
Future tool - SAC (SAP Analytics Cloud)	<p>SAC has now replaced Lumira Discovery. To be precise, the feature of 'Stories' in SAC is the replacement.</p> <p>SAC will soon replace Lumira Designer. To be precise, SAC Analytics Designer, along with Digital Boardroom and Planning is the replacement</p>
Still Relevant	
Still Relevant	<p>InfoSources</p> <p>Transformations</p> <p>DTP</p> <p>Datasources</p> <p>Export Datasources</p> <p>OpenHub Destinations</p> <p>Process Chains</p> <p>HAP (APD is obsolete)</p> <p>InfoAreas</p> <p>Analysis Authorizations</p>

Q & A - Post Session

Q	
A	

Code Blocks

CDS View	<pre> @AbapCatalog.sqlViewName: 'ZV_SALES_ITM' @AbapCatalog.compiler.compareFilter: true @AbapCatalog.preserveKey: true @AccessControl.authorizationCheck: #CHECK @EndUserText.label: 'Tran: SD Sales Item' @Analytics: {dataCategory: #FACT, dataExtraction: { enabled: true, delta.byElement: { name: 'LastChangedAt', maxDelayInSeconds: 1800, detectDeletedRecords: true } } } define view ZI_BW_SALES_ITEM as select from vbap as p left outer join vbak as k on p.vbeln = k.vbeln { key p.vbeln as SalesDoc, key p.posnr as SalesItem, p.matnr as Material, @Semantics.quantity.unitOfMeasure: 'SalesUnit' p.kwmeng as OrderQty, @Semantics.unitOfMeasure: true p.vrkme as SalesUnit, @Semantics.systemDateTime.lastChangedAt: true k.upd_tmstmp as LastChangedAt } </pre>
Sales Header	<pre> @AbapCatalog.sqlViewName: 'ZV_SALES_HDR' @AbapCatalog.compiler.compareFilter: true @AbapCatalog.preserveKey: true @AccessControl.authorizationCheck: #CHECK @EndUserText.label: 'Tran: SD Sales Header' @Analytics: { dataCategory: #FACT, dataExtraction.enabled: true } define view ZI_BW_SALES_HDR as select from I_SalesDocument as SD //I_SalesDocument { //I_SalesDocument key SD.SalesDocument, SD.SDDocumentCategory, SD.SalesDocumentType, SD.CreatedByUser, SD.LastChangedByUser, SD.CreationDate, SD.CreationTime, SD.LastChangeDate, cast(cast(substring(cast(SD.LastChangeDateTime as abap.char(25)),1,14) as abap.numc(14)) as abap.dec(15, 0)) as LastChangedAt, SD.SalesOrganization, SD.DistributionChannel, SD.OrganizationDivision, SD.SoldToParty, SD.SalesDocumentDate, SD.IncotermsClassification, SD.IncotermsLocation1, SD.FiscalYear, SD.FiscalPeriod } </pre>
Header Extn	<pre> @AbapCatalog.sqlViewAppendName: 'ZV_SALES_HDR_EXT' @EndUserText.label: 'Tran: SD Sales Header Extension' extend view ZI_BW_SALES_HDR with ZI_BW_SALES_HDR_EXT association to kna1 as _kn on SD.soldtoparty = _kn.kunnr { _kn.name1, _kn.land1 } </pre>
Item Extn	<pre> @AbapCatalog.sqlViewAppendName: 'ZV_SALES_ITM_EXT' @EndUserText.label: 'Tran: Sales Item Enhancements' extend view ZI_Bw_Sales_Item with ZI_BW_SALES_ITEM_EXT association to mara as _m on \$projection.matnr = _m.matnr </pre>

	{
	_m.mtart
	}