

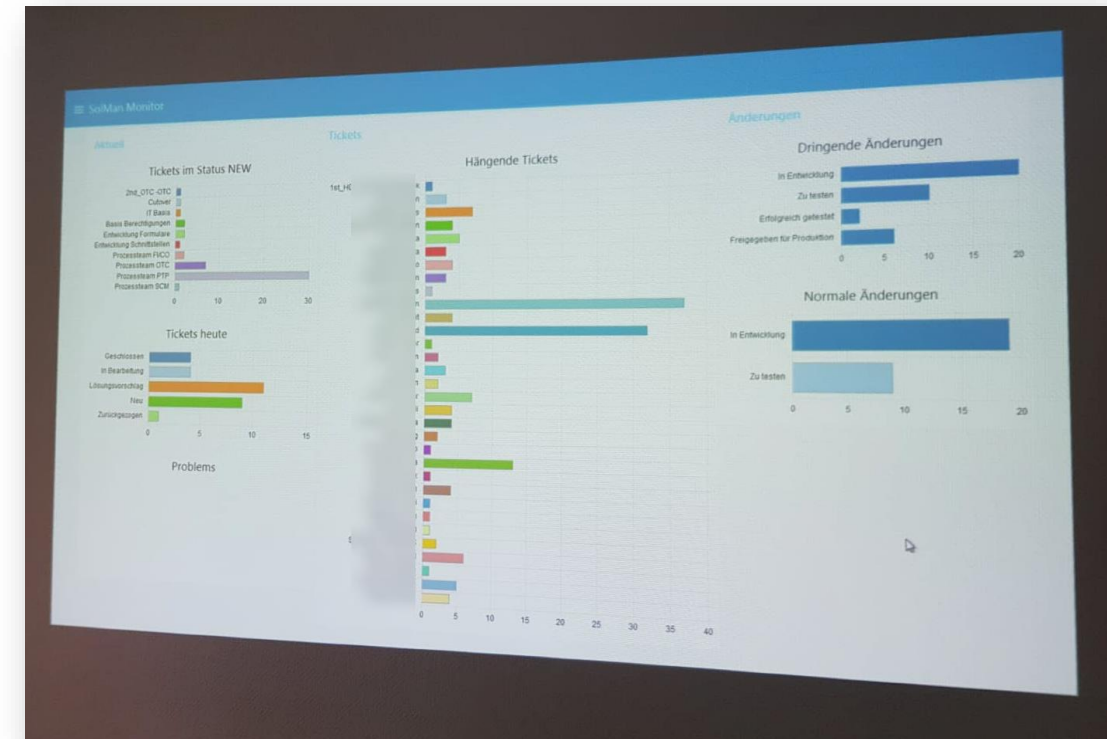
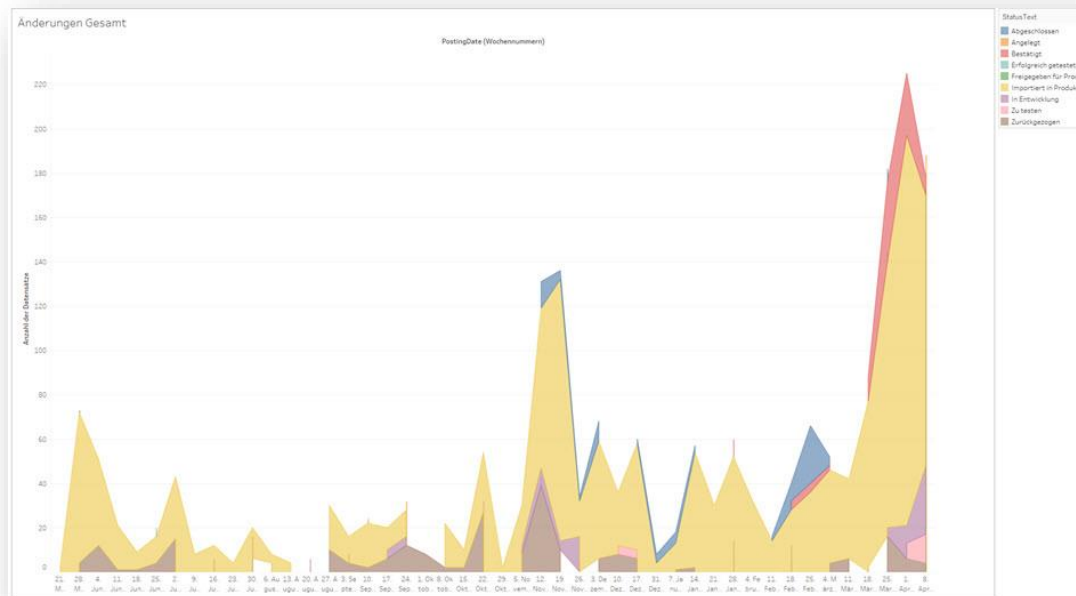
#vSAPCDSStarterSet - Workshop Basics I Presentation Part I



From #SAPCommunity to #SAPCommunity

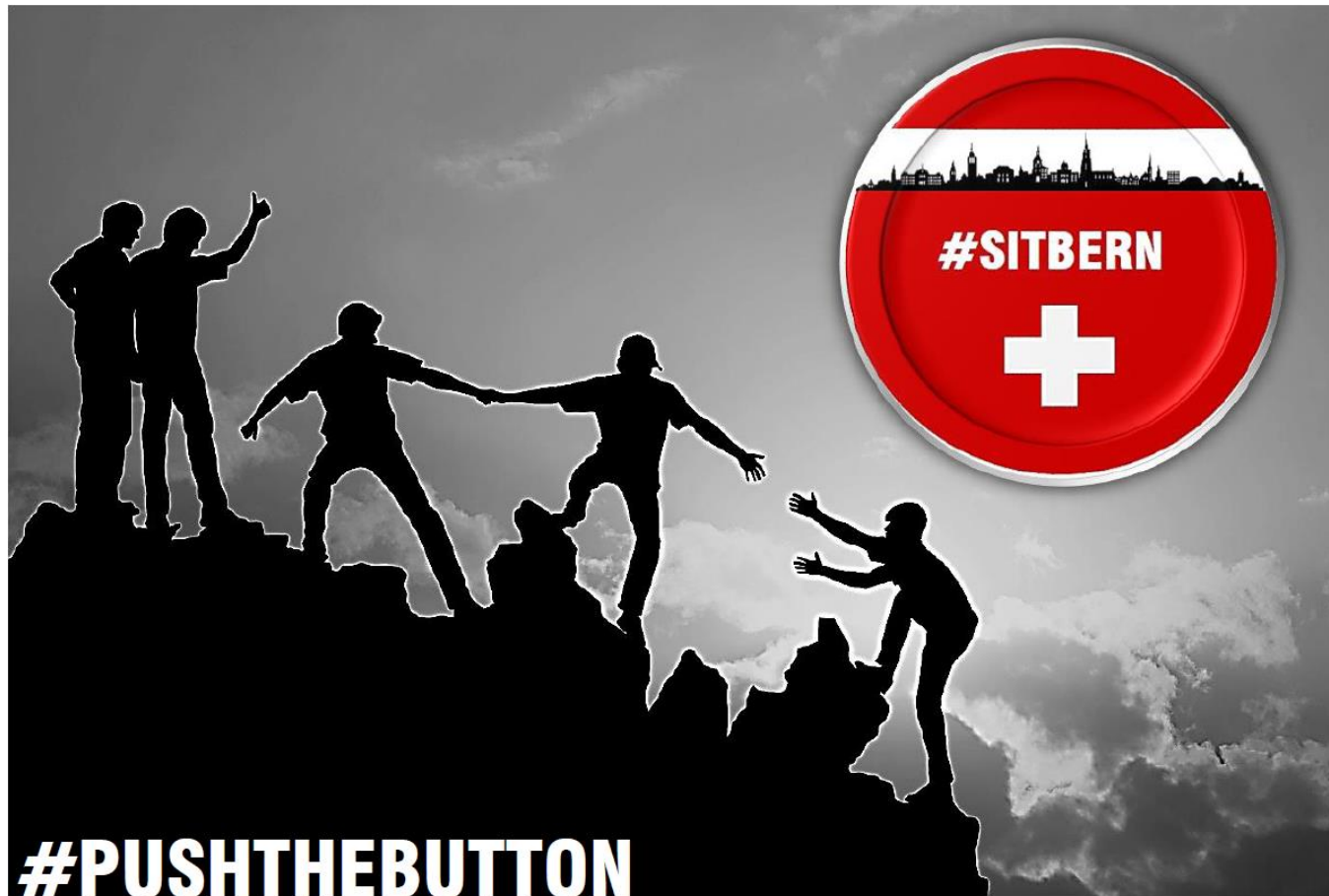
Core Data Services (CDS) as base for modern systemarchitectures

- Practical application scenario from S/4 implementation project „SAP Solution Manager Data Analysis“
 - CDS based data model for „Incidents“, „Changes“, „Knowledge articles“
 - Export via OData and evaluation with Tableau Public
 - Export via RFC API and realtime monitoring
 - (ALV based reporting)



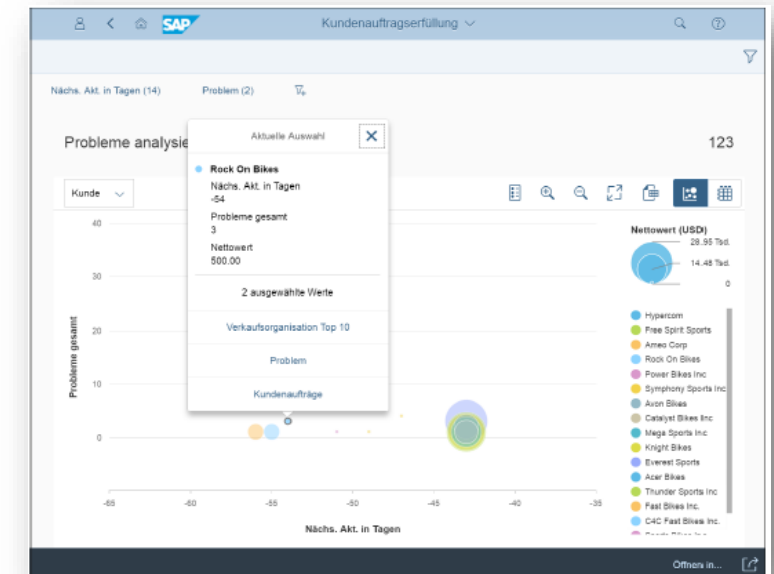
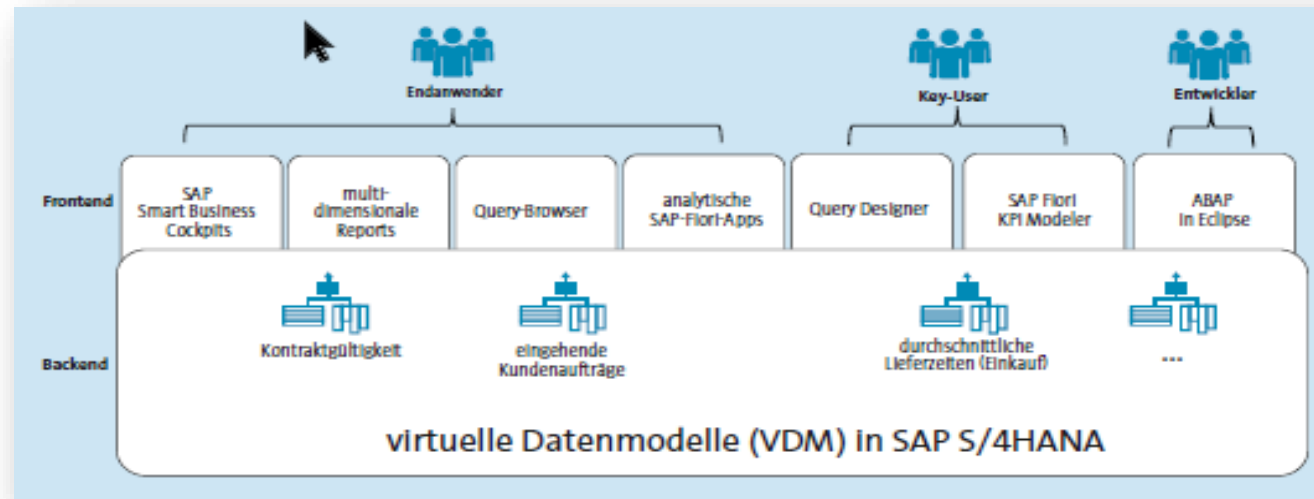
Motivation

Why should you know about CDS before S/4 Implementation

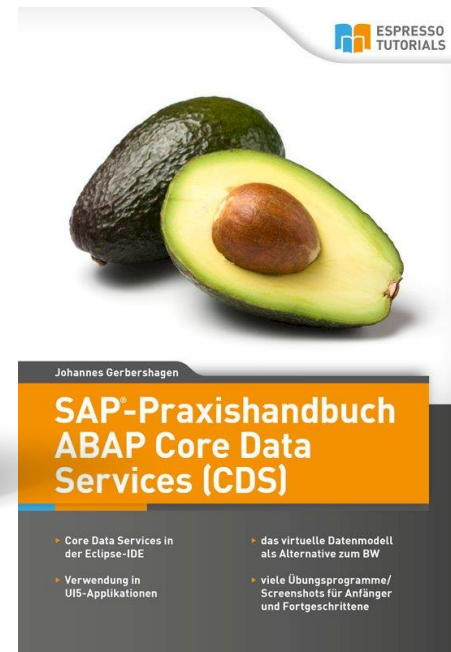
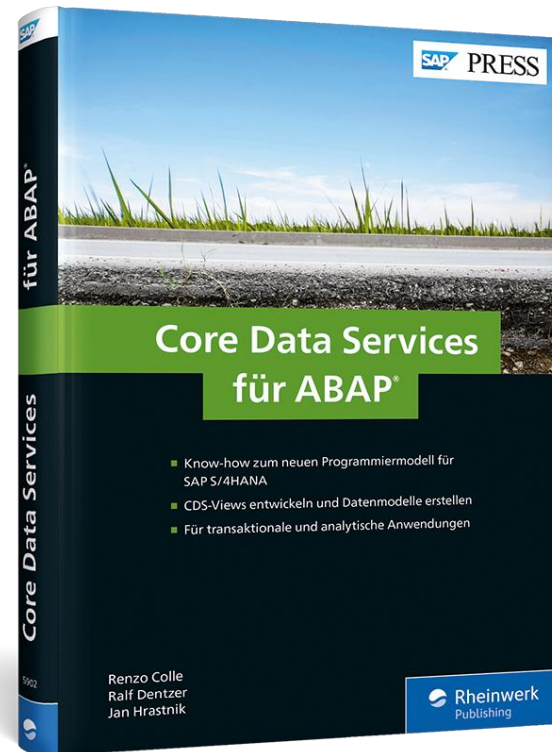


Motivation 1: Virtual Data model (S/4) under S/4

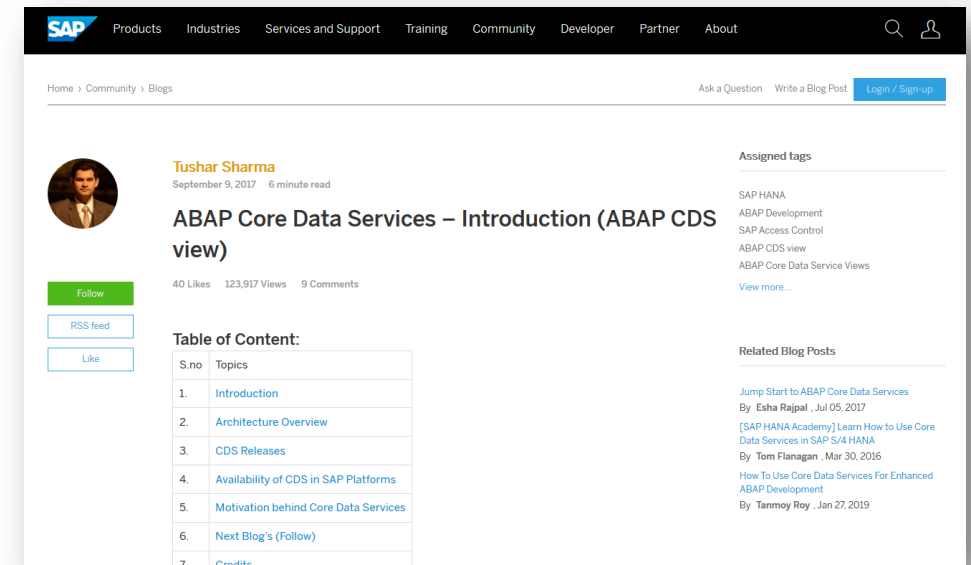
- HANA DB enables fast access to previously rather unperformant data sources
- Operative reporting benefits from this
- Additional Data Warehouse systems are not obsolete
- Appropriate FIORI apps and tools in SAP backend (e.g. CDS views) enable the creation of „Analytical Apps“
- S/4 Embedded Analytics



Motivation 2: CDS is documented



https://www.rheinwerk-verlag.de/core-data-services-fur-abap_4487/
<https://www.espresso-tutorials.de/produkt/sap-praxishandbuch-abap-core-data-services-cds/>
<https://blogs.sap.com/2017/09/09/abap-core-data-services-introduction-abap-cds-view/>



ABAP Core Data Services – Introduction (ABAP CDS view)

September 9, 2017 6 minute read

40 Likes 123,917 Views 9 Comments

Table of Content:

S.no	Topics
1.	Introduction
2.	Architecture Overview
3.	CDS Releases
4.	Availability of CDS in SAP Platforms
5.	Motivation behind Core Data Services
6.	Next Blog's (Follow)
7.	Credits

Assigned tags

- SAP HANA
- ABAP Development
- SAP Access Control
- ABAP CDS view
- ABAP Core Data Service Views

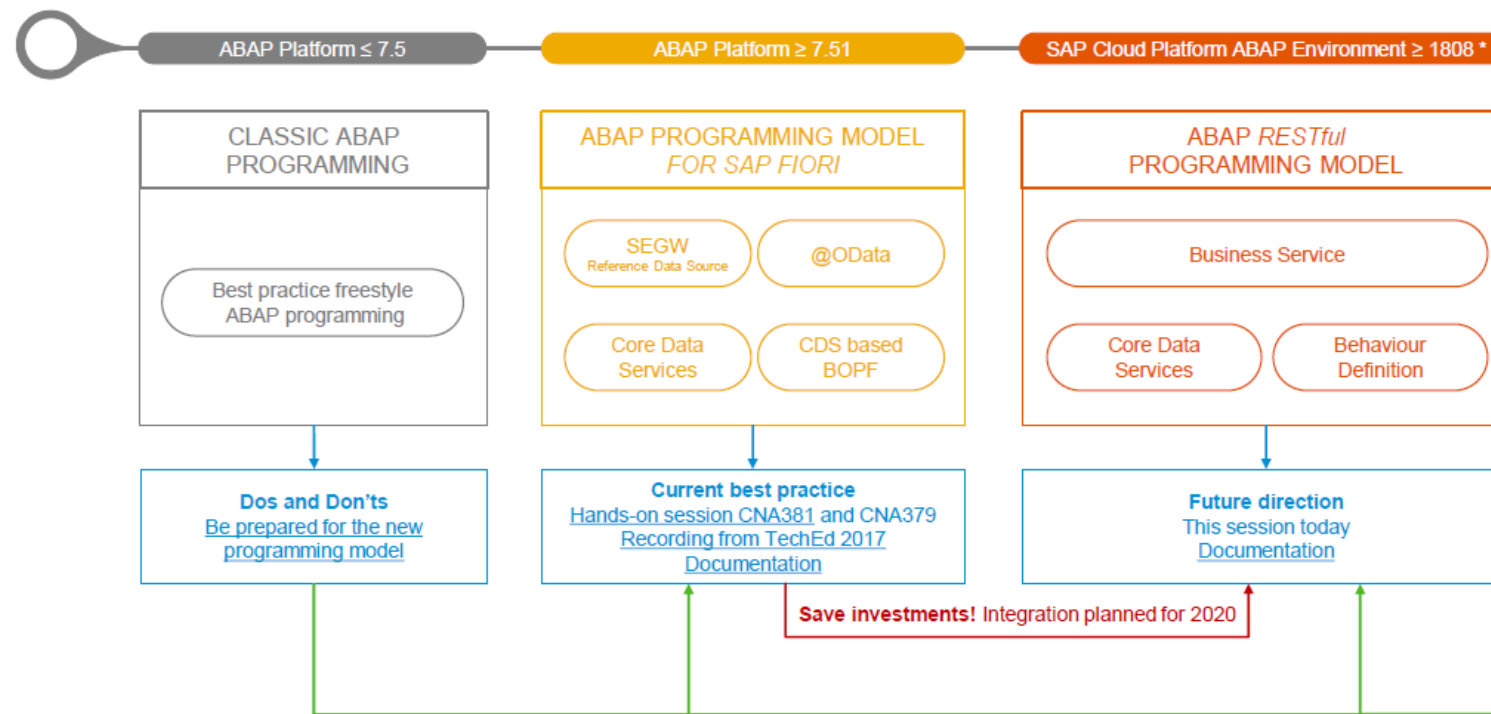
[View more...](#)

Related Blog Posts

- [Jump Start to ABAP Core Data Services](#) By [Esha Rajpal](#) Jul 05, 2017
- [\[SAP HANA Academy\] Learn How to Use Core Data Services in SAP S/4 HANA](#) By [Tom Flanagan](#) Mar 30, 2016
- [How To Use Core Data Services For Enhanced ABAP Development](#) By [Tanmay Roy](#) Jan 27, 2019

Motivation 3: CDS is SAP ABAP Future – already there

Evolution of the ABAP programming model



Motivation 4: CDS is available in the „Old World“

Availability of CDS in SAP Platforms

The Core Data services are available in below mentioned SAP Platforms:

1. SAP NetWeaver 7.50, SP01, or higher.
2. SAP NetWeaver 7.4 SP05
3. SAP HANA SPS6
4. SAP Business Suite EHP7 (Suite on HANA)
5. S/4HANA
6. SAP Business Warehouse 7.3

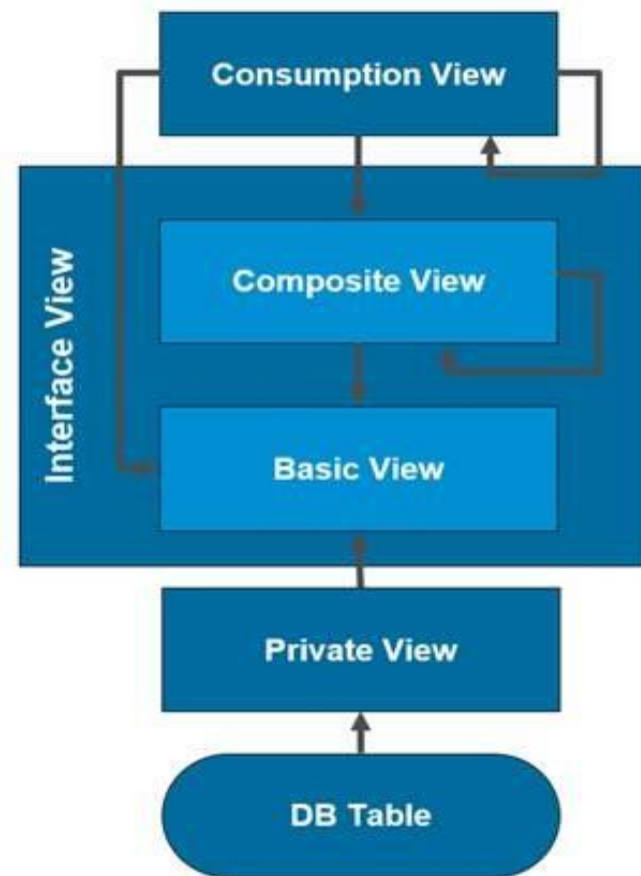
<https://blogs.sap.com/2017/09/09/abap-core-data-services-introduction-abap-cds-view/#ACDS>

Concept

Basics



Advantages of CDS



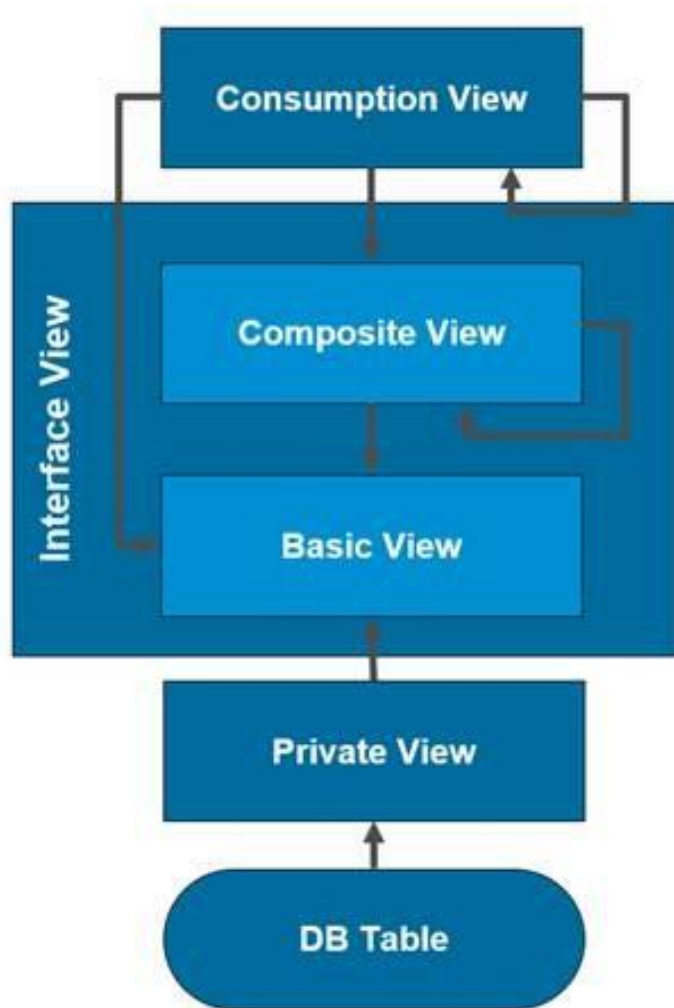
The data model perceived by users often does not correspond to the physical data model. Many fields are not used at all in practice

The field names do not have meaningful names ("VBAK-CMGST" "Overall status of credit checks") The object dependencies are not visible or are only created by the project configuration (e.g. texts for customizing codes, SD partner functions) The user expects further fields, which do not come from the SAP data model (e.g. Z-fields, Z-tables, classification) The physical SAP object contains several objects (e.g. VBAK: inquiry, offer, order)

CDS Benefits – Reusable blocks like Lego.

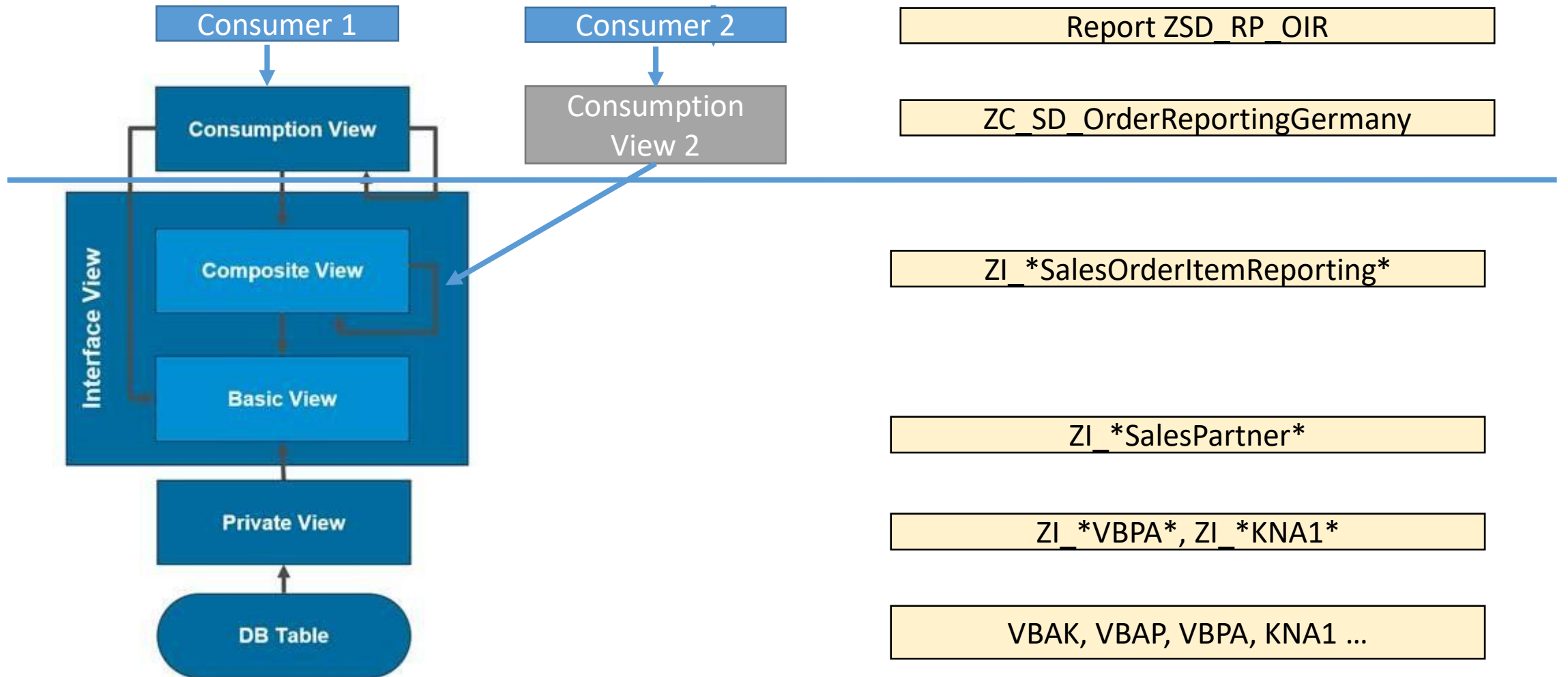
Creation of views of the physical data model according to its meaning and customer-specific perception (including Z-data model and "virtual columns") The views can be broken down into artifacts ("building blocks") and are therefore reusable. There are predefined architecture layers, rules and extension options CDS can be used as a basis for different application requirements (e.g. SQL View for report, OData for external, architecture module) Expert knowledge (e.g. filters, transformations etc.) can already be stored in the CDS

CDS terms



- **"Consumption" layer**
 - Is the visible layer from the view of the user or the requirement
 - Each concrete requirement has its own consumption layer and is therefore stable even if changes occur
 - The Consumption layer uses a "building set" of predefined data models "Interface layer"
- **„Interface“ layer**
 - The interface layer represents the "modular system" and thus the reusability
 - Here the basic data models of the customer are mapped, e.g. a typical customer order
 - The physical tables are transformed into "semantic objects" with different properties (e.g. DB table VBAK object "sales order" + object "customer quotation").
 - **„Composite Views“**
 - Semantic objects with the (maximum) available fields and relationships to other objects
 - **„Basic Views“**
 - Intermediate layer to define the essential fields, their names and properties
 - Complex JOIN connections may already be stored
- **„Private Views“**
 - Optional intermediate layer, which is not officially available

CDS reusability



Use cases



CDS as base for reusable objects --> Think about Lego. Take it as a base is perfect!

Previous SAP approach vs. CDS as basis to start from

Typical SAP Report

- Presentation (e.g. display as list/ALV)
- Process logic (e.g. evaluate parameters)
- Transforming data (e.g. Loop at)
- Select data (if applicable JOIN and aggregates)
- ... Often copied, requested, reproduced

Report

- Presentation
- Process logic

Form

- Data acquisition

FIORI App

- Presentation
- Process logic

external API

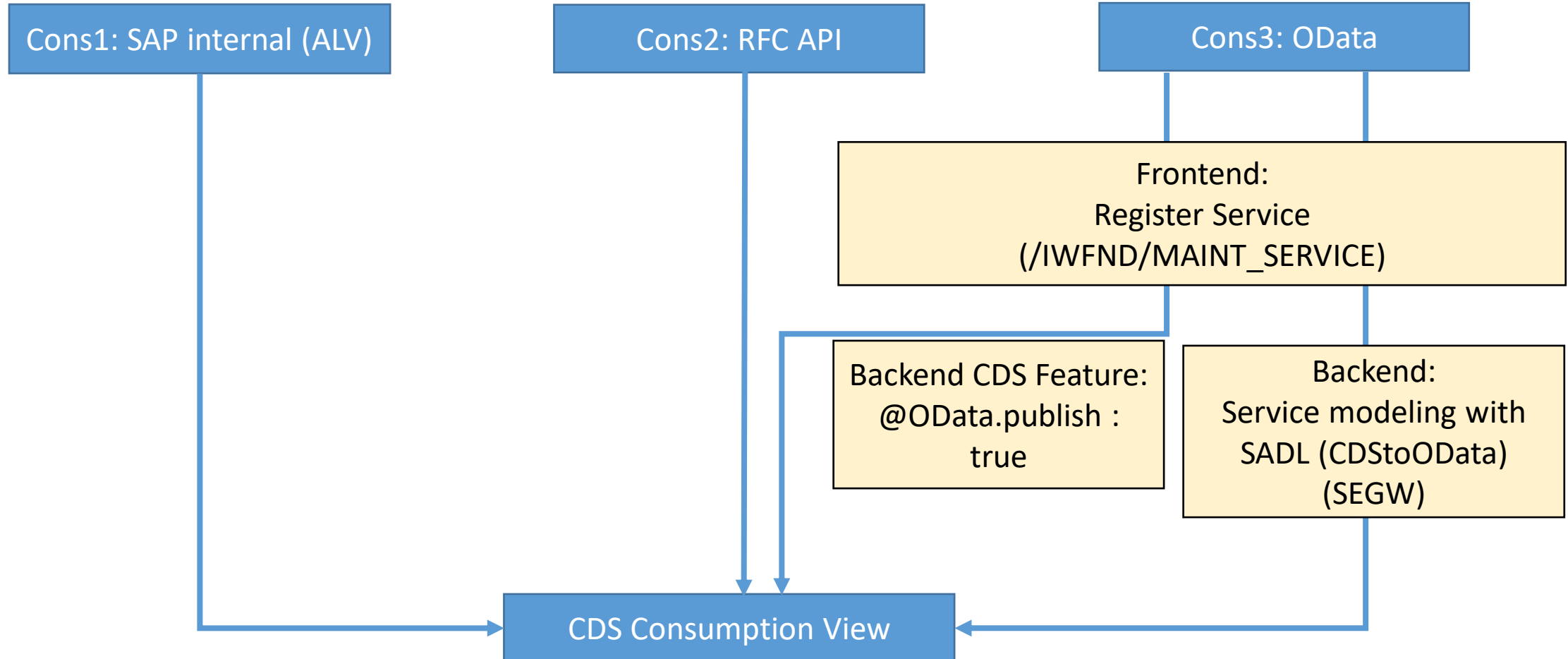
- OData
- JSON/Rest

Virtual data model from a users viewpoint

- **Consumption Views** (concrete requirements)
- **Interface Views** (reusable)
 - Composite Views
 - Basic View
 - Private Views

physical data model
and functions

CDS as basis for different scenarios





Example: small SAP ALV Report using CDS

Customer template with some benefits - Framework

```
REPORT zsd_rp_ssr_oir.
```

```
TABLES: zc_sdrpssr_oir.
```

```
SELECT-OPTIONS: so_vkorg FOR zc_sdrpssr_oir-salesorganization.
```

```
SELECT-OPTIONS: so_vtweg FOR zc_sdrpssr_oir-distributionchannel.
```

```
SELECTION-SCREEN: ULINE.
```

```
SELECT-OPTIONS: so_odate FOR zc_sdrpssr_oir-orderdate.
```

```
SELECT-OPTIONS: so_vbeln FOR zc_sdrpssr_oir-salesdocument.
```

```
SELECT-OPTIONS: so_kunnr FOR zc_sdrpssr_oir-customernumber.
```

```
SELECT-OPTIONS: so_shipt FOR zc_sdrpssr_oir-shiptonumber.
```

```
INCLUDE /swt/cmu_sg_ralv_interface.
```

```
INITIALIZATION.
```

```
INCLUDE /swt/cmu_sg_ralv_init.
```

```
* ----- configure
```

```
set_view 'ZC_SDRPSSR_OIR'.
```

```
START-OF-SELECTION.
```

```
INCLUDE /swt/cmu_sg_ralv_exec.
```

```
END-OF-SELECTION.
```

Example: Minimal RFC API with OLAP features on CDS

```

FUNCTION Z_SM_IMA_API_ADELE_EXP_IMC.
  *-----
  *""Lokale Schnittstelle:
  *  IMPORTING
  *    VALUE(IV_MAX) TYPE SYTABIX OPTIONAL
  *    VALUE(IS_SELOPT) TYPE ZC_SMIMA_IMC OPTIONAL
  *    VALUE(IV_DIM) TYPE STRING OPTIONAL
  *    VALUE(IV_FCT) TYPE STRING OPTIONAL
  *  TABLES
  *    ET_DATA STRUCTURE ZC_SMIMA_IMC OPTIONAL
  *    IT_SELOPT STRUCTURE AQDBOS OPTIONAL
  *  EXCEPTIONS
  *    WRONG_INTERFACE
  *    WRONG_SQL
  *    ERRORS_OCCURED
  *-----
include ZSM_IMA_ADELE_EXPORT_API.

```

```

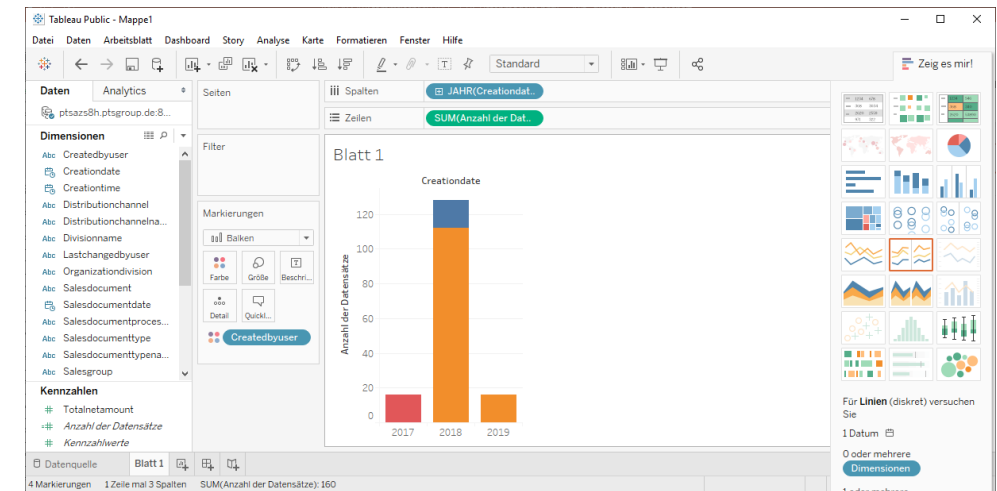
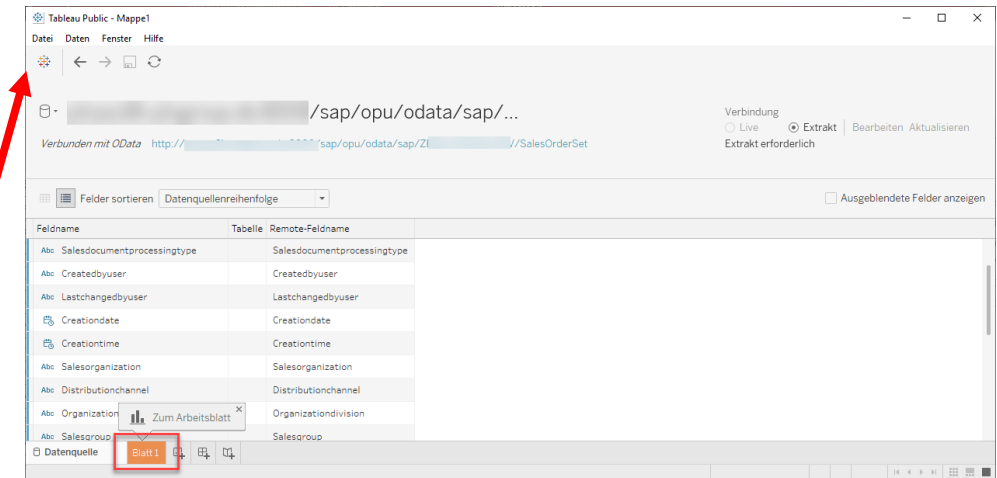
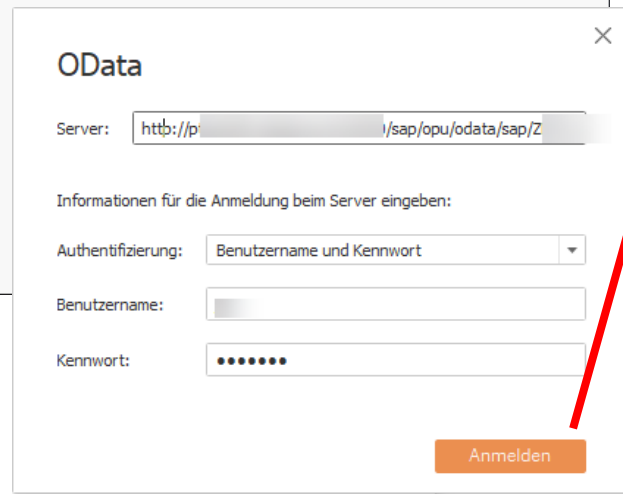
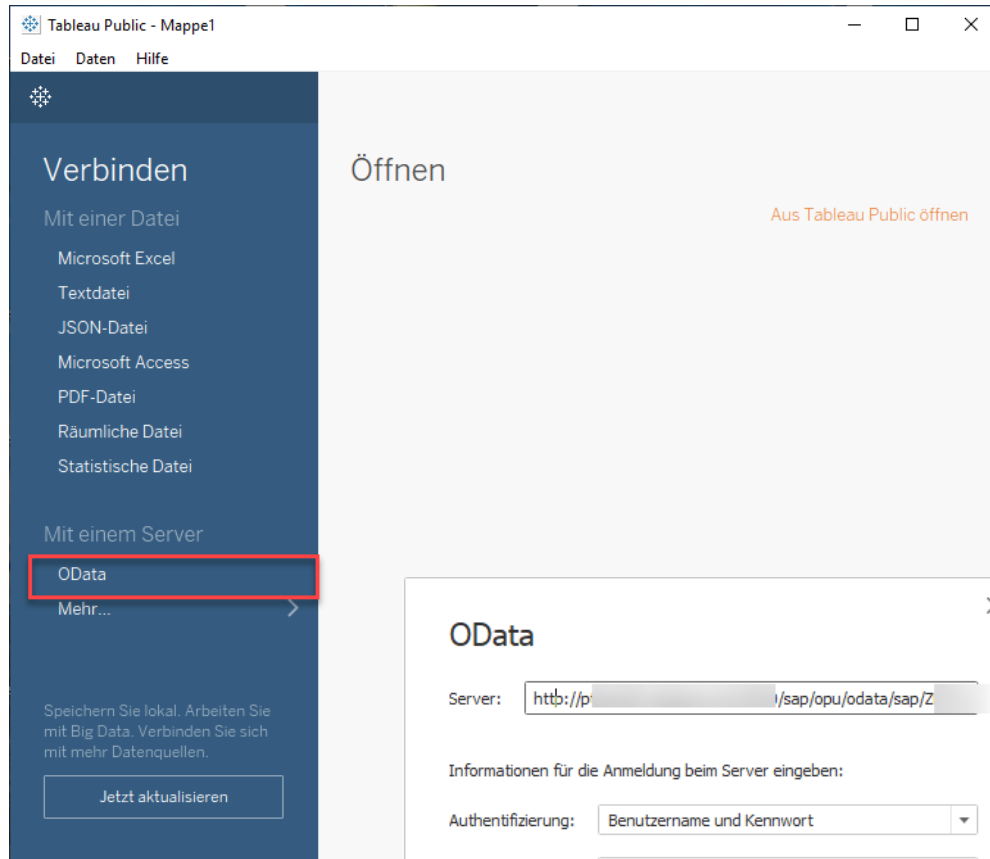
TRY.
  *----- check every field of structure is_selopt
  ade_prepare_where_selopt.
  *-----
  IF lv_ade_lin GT 0.
    ade_check_selopt GUID.
  ...
  ade_check_selopt CREATED_AT.
  ade_check_selopt CREATED_BY.
  ade_check_selopt CHANGED_AT.
  ade_check_selopt CHANGED_BY.
  ENDIF.
  *----- process
  ade_process ZC_SMIMA_IMC.
  *----- process errors
  CATCH cx_sy_dynamic_osql_semantics.
    RAISE wrong_sql.
  ENDTRY.

ENDFUNCTION.

```

based on framework <https://github.com/MDJoerg/adele>

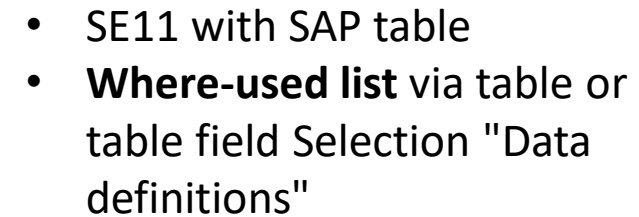
Connect external non-SAP tools via OData (Tableau Public)



HowTo



From the «Old World» to the «new brave World»



- SE11 with SAP table
- **Where-used list** via table or table field Selection "Data definitions"

HowTo: "read only" existing CDS views

DDL Sources

Where-used Database table VBAK in DDL Sources (73 Hits)

DDL Source	Short Descript.
<input type="checkbox"/> /SWT/I_CMO_SALESDOCUMENTHEADER	Sales Document Header - interface view
<input type="checkbox"/> ARUN_I_SO_ARUN_CHECK	Select ARUN related sales order line
<input type="checkbox"/> ARUN_I_SO_REQMT	Sales Order requirement selection with ARUN_BDBS join
<input type="checkbox"/> ARUN_I_SO_REQMT_PREV	Sales Order selection from BDBS and Preview tables
<input type="checkbox"/> ARUN_REQSRT_SD	Requirement sorting - SD
<input type="checkbox"/> ARUN_SD_DB	Sales document data
<input type="checkbox"/> ARUN_SO_REQMT	Sales Order Requirement
<input type="checkbox"/> E_SALESDOCUMENTBASIC	Extension view for VBAK
<input type="checkbox"/> F3_MMIM_SORDER_VH	Help-View Sales Order (VBAK)
<input type="checkbox"/> FAC_CDS_BSEG	Entry view for financial document
<input type="checkbox"/> FAC_CDS_BSEG_ADD	Entry view for additional ledgers
<input type="checkbox"/> FCDM_KEYFIGURES_READ_CUSTRQ	Read Customer Requirements for Forecast Demand Keyfigures
<input type="checkbox"/> FINS_REV_REC_SD_STATUS	Status of sales order/return/contract items
<input type="checkbox"/> FINS_TRR_ACC_ASS_OBJ_ALL	Account Assignment Object
<input type="checkbox"/> FINS_TRR_ACC_ASS_OBJ_VBAK	Account Assignment Object
<input type="checkbox"/> FINS_TRR_ACC_ASS_OBJ_VBAP	Account Assignment Object
<input type="checkbox"/> FIS_CDS_BSEG	CDS View for Accounting Document Item
<input type="checkbox"/> I_NOMINATIONDOCUMENTNUMBERVH	Nomination Document Number
<input type="checkbox"/> I_SALESDOCUMENTBASIC	Sales Document Basic
<input type="checkbox"/> I_SALESDOCUMENTITEM	Sales Document Item
<input type="checkbox"/> I_SLSORDRELEVANCEFORTRANSPMGMT	Sales Order Relevance for Transport Management
<input type="checkbox"/> I_SUPDMNDOWITEMSD	Basic View for Sales Document Item
<input type="checkbox"/> I_TRIPSALESCONTRACTVH	Value Help for Sales Contract
<input type="checkbox"/> MBV_EBEW_VBAK	Compatibility view for V_EBEW_VBAK view (ML integration)
<input type="checkbox"/> MBV_V_EBEW_VBAK	Compatibility view for V_EBEW_VBAK view (ML integration)
<input type="checkbox"/> PFH_MRP_MFG_ORDERS	Flori MRP App Manufacturing Orders CDS View
<input type="checkbox"/> PFH_MRP_SALES_DEMANDS	Flori MRP App Sales Demands CDS View
<input checked="" type="checkbox"/> PFH_MRP_SHORTAGES	Flori MRP App Shortages CDS View
<input type="checkbox"/> PF_MRP_READ_MFG_ORDER	Read Manufacturing Order
<input type="checkbox"/> PF_MRP_READ_MFG_ORD_COMP	Read Manufacturing Order Components
<input type="checkbox"/> PF_MRP_READ_OUTBOUND_DELIV	Read Outbound Deliveries
<input type="checkbox"/> PF_MRP_READ_PLANNED_ORDER	Read Planned Order
<input type="checkbox"/> PF_MRP_READ_PLD_ORD_COMP	Read Planned Order Components
<input type="checkbox"/> PF_MRP_READ_PURCHASE_ORDER	Read Purchase Order
<input type="checkbox"/> PF_MRP_READ_PURCHASE_REQ	Read Purchase Requisition
<input type="checkbox"/> PF_MRP_READ_SALES_ORDER	Read Sales Order
<input type="checkbox"/> P_ALLOCATEDREVENUE	Display Allocated Revenue Amount
<input type="checkbox"/> P_CUSTOMERORDER	Customer and Order information
<input type="checkbox"/> P_SALESDCMNT	Sales Document
<input type="checkbox"/> P_SUPDMNDOWSSDATEBASIC	SD Item For Supply Demand Overview
<input type="checkbox"/> P_TRRSOBASE	Base View TRR for Sales Order

Data Definition

Display Data Definition

Data Definition: I_SALESDOCUMENTBASIC Active

Properties Source Code

ADT-Link: adt://SSD/sap/bc/adt/ddic/ddl/sources/i_salesdocumentbasic

```

1  @ClientHandling.algorithm: #SESSION_VARIABLE
2  @EndUserText.label: 'Sales Document Basic'
3  @VIM.viewType: #BASIC
4  @AccessControl: {
5    authorizationCheck: #CHECK,
6    privilegedAssociations: [ '_CreatedByUser', '_LastChangedByUser', '_BusinessAreaText', '_Cost
7  }
8  @AbapCatalog: {
9    sqlViewName: 'ISDSALESDOCBSC',
10   compiler.compareFilter: true
11 }
12 @ObjectModel: {
13   compositionRoot: true,
14   representativeKey: 'SalesDocument',
15   usageType: {
16     dataClass: #TRANSACTIONAL,
17     serviceQuality: #B,
18     sizeCategory: #L
19   }
20 }
21 @Analytics.dataCategory: #DIMENSION
22
23 define view I_SalesDocumentBasic
24 as select from vbaK
25
26 //Association
27
28 //--( GENERATED:012:61BfhvFV7ky4hGXbseDvW
29 association [0..*] to I_BusinessAreaText as _BusinessAreaText on $F
30 association [0..*] to I_BusinessAreaText as _CostCenterBusinessAreaText on $F
31 association [0..*] to I_CreditControlAreaText as _CreditControlAreaText on $F
32 // --GENERATED
33 association [0..*] to I_SalesDocumentItemBasic as _ItemBasic on $F
34 association [0..1] to I_SDDocumentCategory as _SDDocumentCategory on $F

```

Data Definitions can only be edited using ADT in Eclipse

F1 und Technische Information

Alternative: Where-used list of field names (SE11) or navigation in Eclipse

Implementation

- From CDS to OData Service



Step 1- Consumption View details

```

• @AbapCatalog.sqlViewName: 'ZC_DMORD_SEL'
• @AbapCatalog.compiler.compareFilter: true
• @AbapCatalog.preserveKey: true
• @AccessControl.authorizationCheck: #CHECK
• @EndUserText.label: 'Demo Order Select - consumption'

• @VDM.viewType: #CONSUMPTION
• @OData.publish: true

• define view ZC_DEMO_ORDER_SELECT
•   as select from I_SalesDocumentBasic
•   {
•     //I_SalesDocumentBasic
•     key SalesDocument,
•     TotalNetAmount,
•     TransactionCurrency,
•     CreatedByUser,
•     CreationDate,
•     CreationTime,
•     SalesOrganization,
•     _SalesOrganization._Text.SalesOrganizationName,
•     SalesOffice,
•     _SalesOffice._Text.SalesOfficeName
•   }
•   where SDDocumentCategory = 'C' // only Orders

```

View for the access from
Standard ABAP (SE16N)

Role „Consumption“ in the
Virtual Data Model

Annotation to automatically
generate an OData Service
(only since 7.5x)

Name of the CDS
view (for Eclipse)

Name of the called CDS
view resp. table

Available field list and origin

Fields from the object dependen
(Associations)

Pre-defined filter

Step 2: Register OData Service in Frontend Server –starting external access (minimum :))



Service pflegen Bearbeiten Springen System Hilfe

Services aktivieren und verwalten

Service hinzufügen Service löschen Servicedetails Metadaten laden Fehlerprotokoll

Katalog aktualisier. OAuth Soft-State

Servicekatalog

Typ	Techn. Servicenamen	Ver...	Servicebeschreibung	Externer Servicenamen
BEP	TERM_SEARCH_SRV	1	Terminologie-Suche	TERM_SEARCH_SRV
BEP	TERM_SUGGEST_SRV	1	Automatische Vorschlagswerte für Terminologie	TERM_SUGGEST_SRV
BEP	TERM_TERMINOLOGY_SEARCH_SRV	1	Terminologie-Suche mit Übersetzungen	TERM_TERMINOLOGY_SEARCH_SRV
BEP	/IWFND/SUBSCRIPTIONMANAGEMENT	2		SUBSCRIPTIONMANAGEMENT
	/IWFND/SG_TEST_APPLICATION	1		TeaProcessing
	/IWFND/SG_TEST_APPLICATION_STC	1		TeaStcProcessing
	/AIGW/TECHMON	1	Mobiler Service TechMon	TECHMON
BEP	/AIGW/TECHMON_UI5_TABS_SRV	1	Benutzerspezifische Registerkarten-Persistenz	TECHMON_UI5_TABS_SRV
BEP	TEST_RFC	1	Test	TEST_RFC
BEP	AGS_FLP_TRANSPORT	1	UI2: Transport-Service	TRANSPORT
BEP	UISLIB_SRV	1	UISLIB Gemeinsamer Gateway-Service	UISLIB_SRV
	/IWFND/USAGEEXTRACTOR	1		USAGEEXTRACTOR
BEP	ZUSER_MENU	1	Benutzermenü-Service	USER_MENU
	/IWFND/SG_USER_SERVICE	1		USERSERVICE
BEP	AGS_BPA_MAP_DEF_SRV	1	CL_VBI_APPL_DEF_01_DPC_EXT	VBI_APPL_DEF_SRV
BEP	WMM_DATA_SRV	1	Arbeitsmodus-OData-Service	WMM_DATA_SRV

ICF-Knoten Browser aufrufen SAP Gateway Client

ICF-Knoten

Status	ICF-Knoten	Sitzungs-Timeout	Soft-State	Beschreibung
OOO	SDATA	00:00:00		Kompatibilitätsmodus für SP 02
OO	ODATA	00:00:00		Standardmodus

Systemalias hinzufügen Systemalias

Systemalias

SAP-Systemalias	Beschreibung
LOCAL	Lokaler Systema

Service hinzufügen Bearbeiten Springen System Hilfe

Ausgewählte Services hinzufügen

Services abrufen

Filter

Systemalias LOCAL

Technischer Servicenamen CRM*

Externer Servicenamen

Version

Externe Zuordnungs-ID

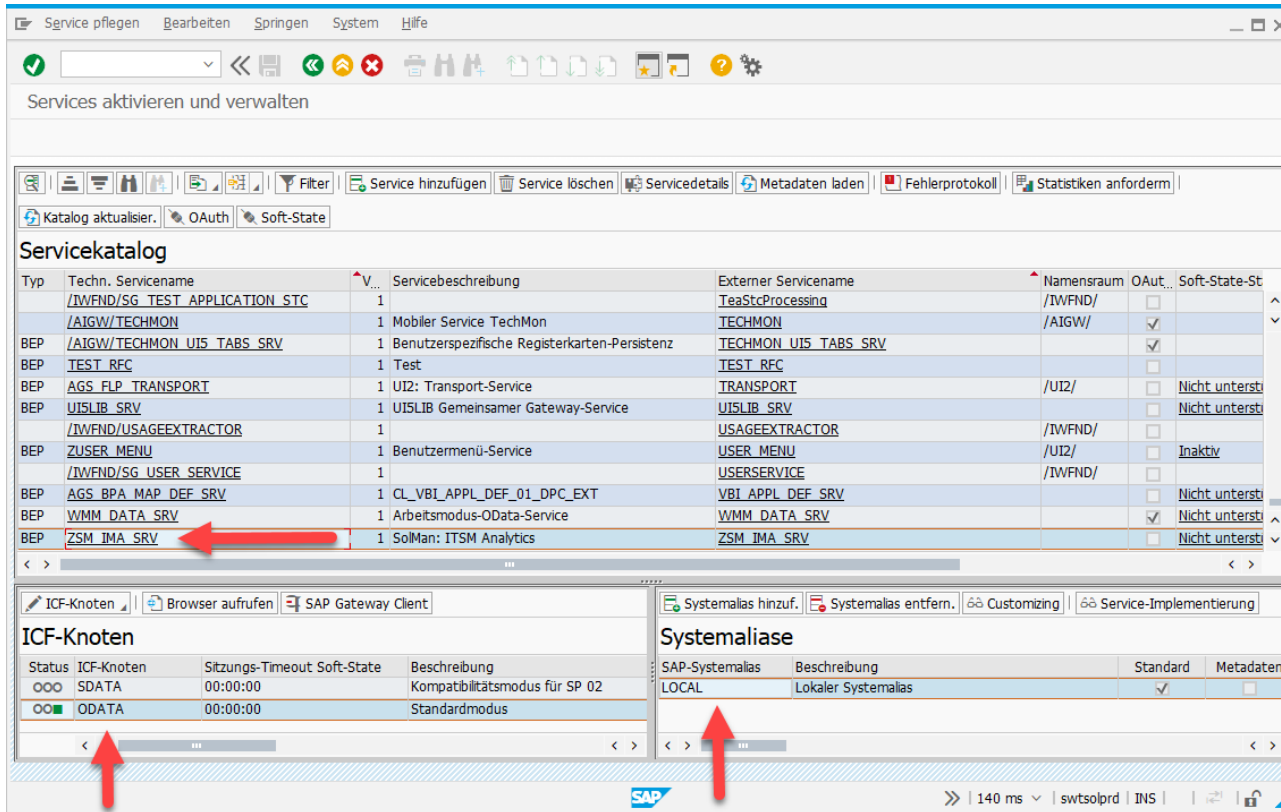
Ausgewählte Services hinzufügen

Ausgewählte Backend-Services

Typ	Techn. Servicenamen	Ver...	Servicebeschreibung	Externer Servicenamen
BEP	CRM_APPOINTMENT_SRV	1	Gateway-Service für Termine	Servicebeschreibung INT_SRV
BEP	CRM_BUPA_ODATA	1	OData-Services für Geschäftspartner	CRM_BUPA_ODATA
BEP	CRM_IU_PRODUCT_SEARCH	1	OData-Service für die Produktsuche in der Versor...	CRM_IU_PRODUCT_SEARCH
BEP	CRM_LEAD	1	CRM-Lead	CRM_LEAD
BEP	CRM_MKT_PROSPECT_ODATA	1	OData-Services für Marketinginteressent	CRM_MKT_PROSPECT_ODATA
BEP	CRM_ODATA	1	OData-Services für CRM	CRM_ODATA
BEP	CRM_OPPORTUNITY	1	CRM-Opportunity	CRM_OPPORTUNITY
BEP	CRM_SALESPIPELINE_MANAGER	1	Sales Pipeline Simulator für Manager	CRM_SALESPIPELINE_MANAGER
BEP	CRM_SALESPIPELINE_SALESREP	1	Sales Pipeline Simulator für Vertriebsbeauftragten	CRM_SALESPIPELINE_SALESREP
BEP	CRM_SRV_REQUEST	1	OData für Serviceanforderungen	CRM_SRV_REQUEST
BEP	CRM_TASK	1	Gateway-Service für Aufgaben	CRM_TASK

SAP 563 ms swtsolprd INS

Step 3: Check and configure OData



Servicekatalog

Typ	Techn. Servicenamen	V...	Servicebeschreibung	Externer Servicenamen	Namensraum	OAut	Soft-State-St
	/IWFND/SG_TEST_APPLICATION_STC	1		TeaStcProcessing	/IWFND/	<input type="checkbox"/>	
	/AIGW/TECHMON	1	Mobiler Service TechMon	TECHMON	/AIGW/	<input checked="" type="checkbox"/>	
BEP	/AIGW/TECHMON_UI5_TABS_SRV	1	Benutzerspezifische Registerkarten-Persistenz	TECHMON_UI5_TABS_SRV		<input checked="" type="checkbox"/>	
BEP	TEST_RFC	1	Test	TEST_RFC		<input type="checkbox"/>	
BEP	AGS_FLP_TRANSPORT	1	UI2: Transport-Service	TRANSPORT	/UI2/	<input type="checkbox"/>	Nicht unterst
BEP	UISLIB_SRV	1	UISLIB Gemeinsamer Gateway-Service	UISLIB_SRV		<input type="checkbox"/>	Nicht unterst
	/IWFND/USAGEEXTRACTOR	1		USAGEEXTRACTOR	/IWFND/	<input type="checkbox"/>	
BEP	ZUSER_MENU	1	Benutzermenü-Service	USER_MENU	/UI2/	<input type="checkbox"/>	Inaktiv
	/IWFND/SG_USER_SERVICE	1		USERSERVICE	/IWFND/	<input type="checkbox"/>	
BEP	AGS_BPA_MAP_DEF_SRV	1	CL_VBI_APPL_DEF_01_DPC_EXT	VBI_APPL_DEF_SRV		<input type="checkbox"/>	Nicht unterst
BEP	WMM_DATA_SRV	1	Arbeitsmodus-OData-Service	WMM_DATA_SRV		<input checked="" type="checkbox"/>	Nicht unterst
BEP	ZSM_IMA_SRV	1	SoMan: ITSM Analytics	ZSM_IMA_SRV		<input type="checkbox"/>	Nicht unterst

ICF-Knoten

Status	ICF-Knoten	Sitzungs-Timeout	Soft-State	Beschreibung
OOO	SDATA	00:00:00		Kompatibilitätsmodus für SP 02
OOO	ODATA	00:00:00		Standardmodus

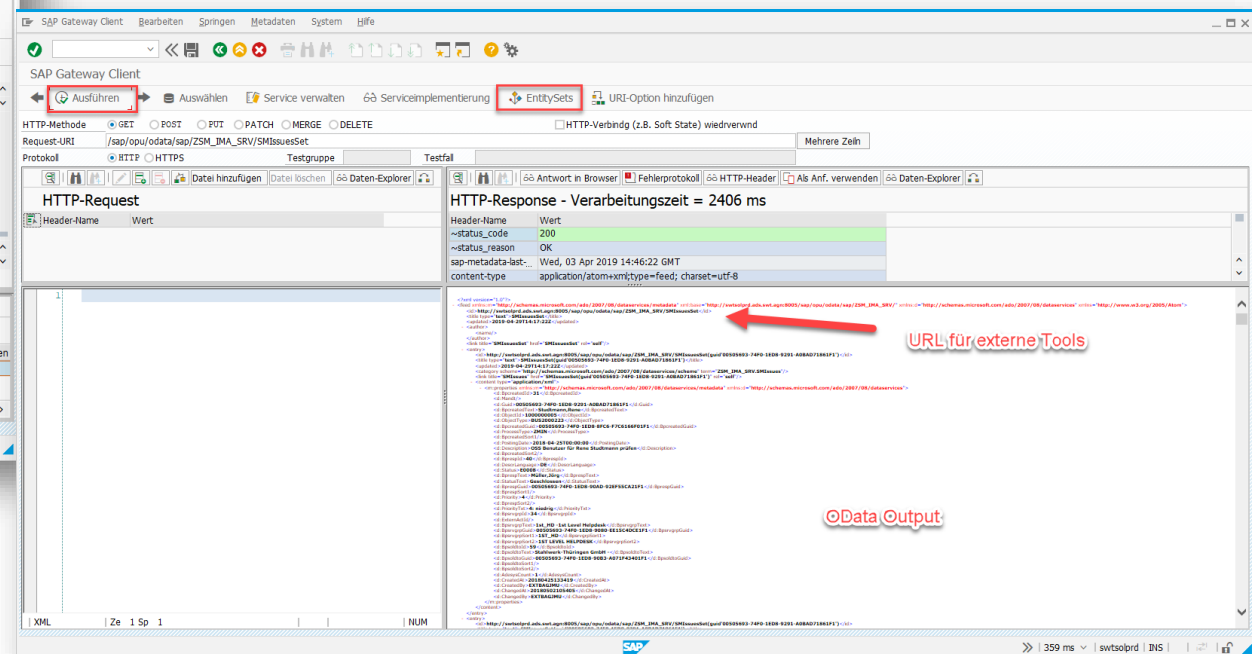
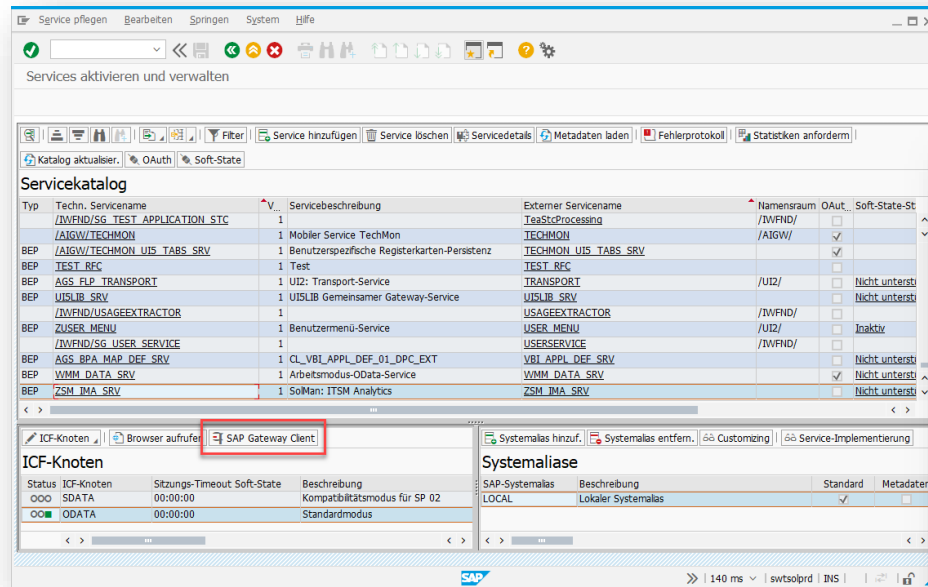
Systemalias

SAP-Systemalias	Beschreibung	Standard	Metadaten
LOCAL	Lokaler Systemalias	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Transaction /IWFND/MAINT_SERVICE
 Service must be available here in upper list (click)
 A connection to the backend must be
 configured (bottom right)
 An OData Service is visible in the lower left corner
 The related SICF node is active

Using the „ICF Nodes“ menu
 Alternatively, transaction SICF
 and path
 „/sap/opu/odata/sap/*“

Step 4: Test OData Service – and get first look



Transaction /IWFND/MAINT_SERVICE
 Select EntitySet and execute
 Check OData output
 URL for external call in the response

Step 5: External connect to the OData Service e.g. Tableau Public or other consumer



Tableau Public - Mappe1

Datei Daten Hilfe

Verbinden

Mit einer Datei

- Microsoft Excel
- Textdatei
- JSON-Datei
- Microsoft Access
- PDF-Datei
- Räumliche Datei
- Statistische Datei

Mit einem Server

OData

Mehr...

Speichern Sie lokal. Arbeiten Sie mit Big Data. Verbinden Sie sich mit mehr Datenquellen.

Jetzt aktualisieren

Öffnen

Aus Tableau Public öffnen

OData

Server:

Informationen für die Anmeldung beim Server eingeben:

Authentifizierung:

Benutzername:

Kennwort:

Anmelden

Tableau Public - Mappe1

Datei Daten Fenster Hilfe

Verbinden mit OData

Verbinden mit OData

Verbindung: ☐ Live ☒ Extrakt Bearbeiten Aktualisieren Extrakt erforderlich

Felder sortieren Datenquellenreihenfolge Ausgeblendete Felder anzeigen

Feldname	Tabellen	Remote-Feldname
Abc Salesdocumentprocessingtype		Salesdocumentprocessingtype
Abc Createdbyuser		Createdbyuser
Abc Lastchangedbyuser		Lastchangedbyuser
Abc Creationdate		Creationdate
Abc Creationtime		Creationtime
Abc Salesorganization		Salesorganization
Abc Distributionchannel		Distributionchannel
Abc Organization		Organizationdivision
Abc Salesgroup		Salesgroup

Datenquelle Blatt 1

Tableau Public - Mappe1

Datei Daten Arbeitsblatt Dashboard Story Analyse Karte Formatieren Fenster Hilfe

Daten Analytics

ptsas8hptsgroup.de.8...

Dimensionen

- Abc Createdbyuser
- Abc Creationdate
- Abc Creationtime
- Abc Distributionchannel
- Abc Distributionchannelna...
- Abc Divisionname
- Abc Lastchangedbyuser
- Abc Organizationdivision
- Abc Salesdocument
- Abc Salesdocumentdate
- Abc Salesdocumentproces...
- Abc Salesdocumenttype
- Abc Salesdocumenttypena...
- Abc Salesgroup

Kennzahlen

- # Totalnetamount
- # Anzahl der Datensätze
- # Kennzahlwerte

Blatt 1

Creationdate

Anzahl der Datensätze

120

100

80

60

40

20

0

2017 2018 2019

Für Linien (diskret) versuchen Sie 1 Datum 0 oder mehrere Dimensionen

Workaround: OData based on CDS with SEGW Tools – interesting for systems with older Releases

- Transaction SEGW
- Create new project
- Data Model → Import → ABAP Dictionary Structur → CDS SQL View (generated) With Entity Set
- Service Implementation → (EntitySet) → Map to Data Source → Business Entity → CDS View
- Assign fields
- Generate
- Continue with Step 2: Service in the Frontend register (SEGW project name)
- Further Info:
<https://blogs.sap.com/2015/04/20/creating-odata-services-out-of-cds-views/>

