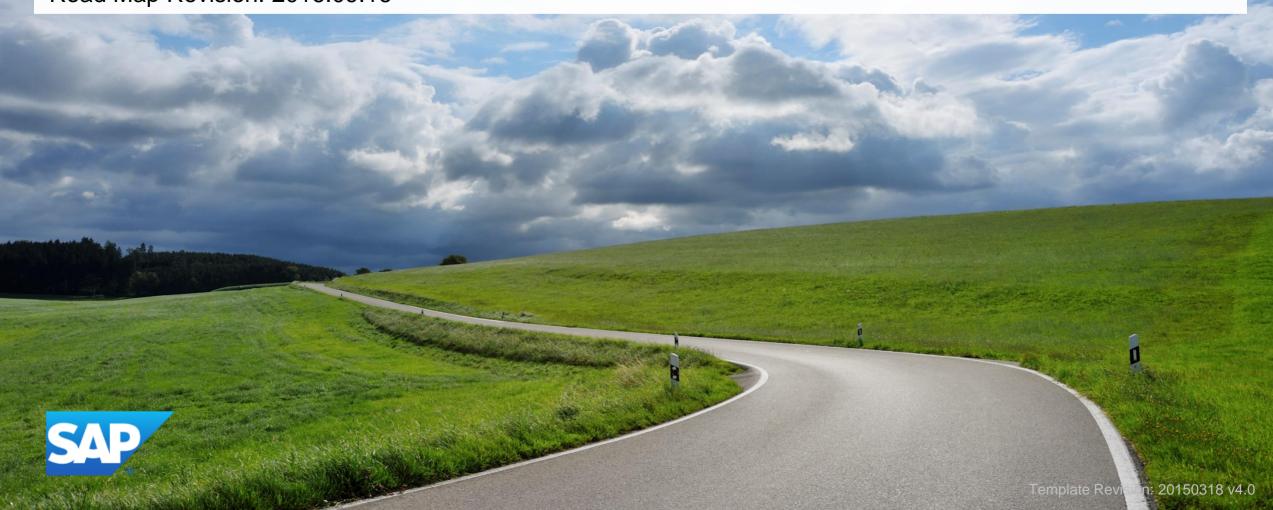
SAP Product Road Map SAP Gateway

Road Map Revision: 2016.09.16



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Introduction to product road maps

Purpose

Product road maps are designed to support the product adoption planning activities of SAP customers. A product road map helps a customer match short term and long term goals with technology plans.

A product road map describes how the feature / function capabilities in an SAP product or technology are planned to progress over time, in general:

- Today = changes in the current release version
- Planned Innovations = changes planned in upcoming development releases (up to 12-18 months).
- Future Direction = proposed themes for a product or technology beyond the planned releases

Complementary resources

For a more general description of the business problems / processes being solved and supported by SAP, refer to Solution Road maps.

For more detailed technical information please refer to the Product Availability Matrix, Ramp-up Knowledge Transfer materials and product documentation.

Table of contents

Product Overview

- Product description
- Key trends and customer needs
- Road map overview and major product updates

Product Road Map

- Today
- Planned
- Future

Appendix



Product Overview

- Product description
- Key trends and customer needs
- Road map overview and major product updates

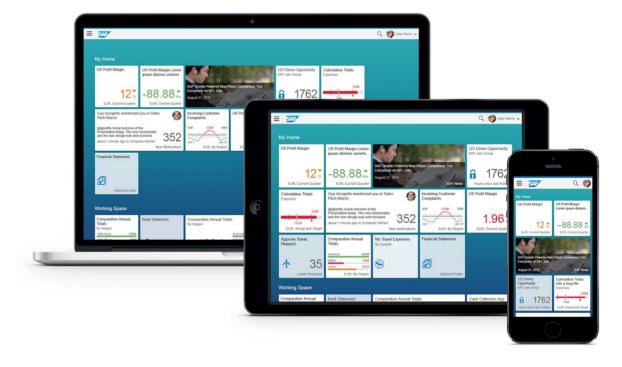


SAP Gateway

Product description

SAP Gateway, an integral part of SAP NetWeaver, enables you to connect devices, environments, and platforms to SAP systems efficiently and securely. It uses the globally renowned Open Data Protocol (OData) so you can use any programming language or model to connect to SAP and non-SAP applications.

Use SAP Gateway to development innovative, people-centric solutions with an engaging and consistent user experience for desktop, mobile, and tablet devices.



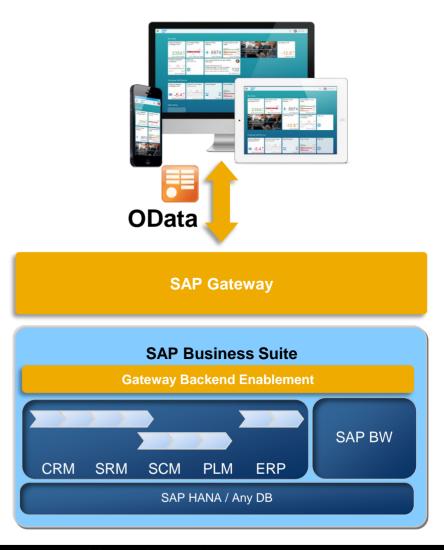
Expose data from SAP backend systems and consume on compelling apps on any device

SAP Gateway acts as a secure communication layer between the data stored in your SAP backend systems and the client devices that want to consume this data.

It uses open industry protocols so you can create people-centric (SAP Web IDE and SAPUI5) apps that are tailored to specific devices. No specific SAP knowledge is required, just standard web and application-development skills.

SAP Gateway ensures you can develop apps that are:

- **Innovative**
- Engaging
- Compelling



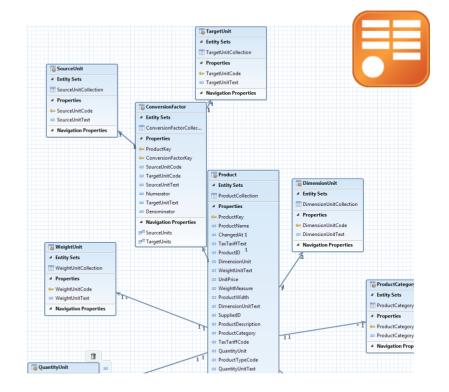
SAP Gateway

Uses the Open Data Protocol (OData)

SAP Gateway uses OData, an industry-standard protocol for creating and consuming APIs. OData enables easy access to information from different applications and provides a predictable interface for querying a variety of data sources.

OData services can be consumed by any channel that can process XML/JSON received over an HTTPS connection, which is the majority of current Internet and mobile technologies.

For more information, see www.odata.org



Open Data Protocol (OData): OASIS industry standard

OData is based on industry standards

- HTTP, XML, Atom, JSON
- REST-based architecture
- Driven by SAP, Microsoft, and IBM
- OASIS standards (OData V.4 and OData JSON Format 4.0)

OData is extensible

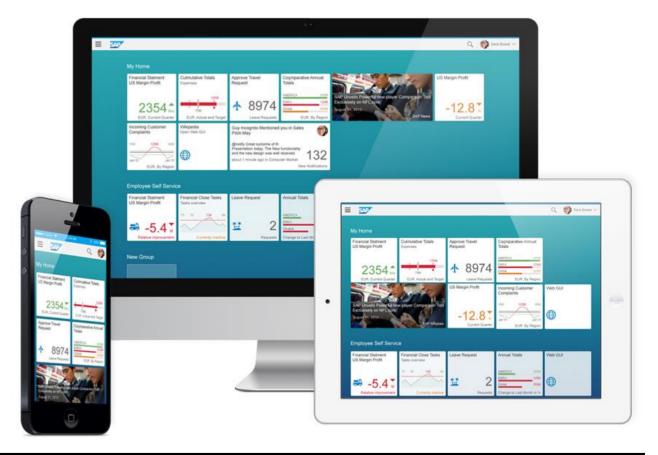
 Allows addition of features required when building easy-to-use applications, both mobile and browser-based.

OData is everywhere... simplifying access to SAP data

SAP uses OData to bring data from backend systems to engaging user interfaces for smart phones, tablets, and desktop.

OData is used in:

- SAP Fiori
- SAPUI5
- SAP S/4HANA
- SAP Mobile Platform 3.0
- SAP Gateway
- •



SAP Gateway

Product road map overview - key themes and capabilities

Today

OData v2 service development and

service provisioning

- Odata service development
- Support of multiple backend systems

OData provisioning in other SAP products

- SAP Mobile Platform 3.0
- SAP Process Integration
- SAP Fiori Cloud
- SAP HANA Cloud Platform

OData v4.0

- Code-based service development
- Cross service navigation Reuse of services
- Generic F4-Help provisioning

Performance improvements in OData v2

New notification channel

Workflow integration

SAP NetWeaver 750 SP04

Planned

OData v4.0

- Aggregation e.g. \$apply with groupby
- Instance annotations
- Service catalogue
- Feature parity with OData v2 stack
 - Deep Insert
 - Multi-Origin
 - Soft-State
 - RAL

New notification channel

- Continuous improvements
- SAP Fiori launchpad support via WebSockets in SAP Fiori 2.0
- Notifications support for SAP HANA Cloud Platform mobile services and SAP Mobile Platform 3.0

Performance improvements in OData v2

- Optimizations for Co-Deployed scenarios and analytical scenarios
 - Batch at once
 - Serialization of \$expand via ST

Future Direction

OData v4.0

- Asynchronous Requests & Callback on Completion
- Offline: Delta Links & Callback on Change
- Feature parity with OData v2 stack

New notification channel

- Push-notifications for business objects
- Feed update notifications

Customer



Product Road Map

- Today
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SAP Gateway

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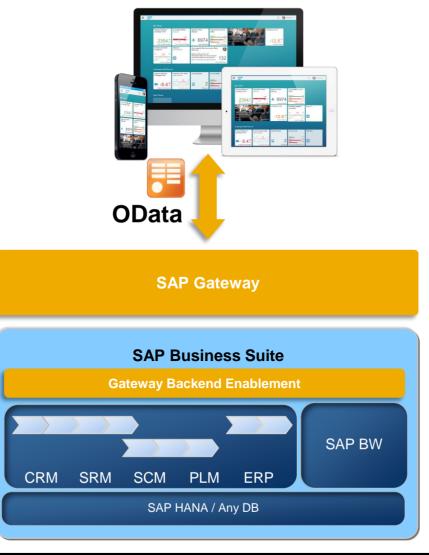
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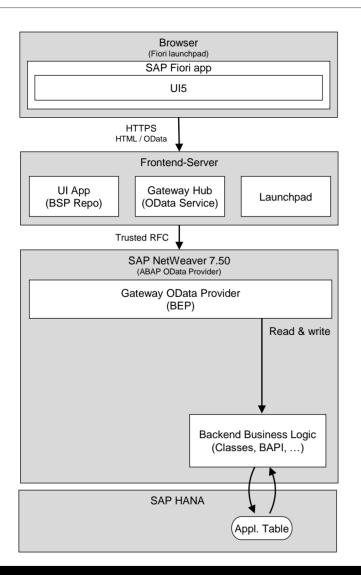
SAP Gateway

Architecture



SAP Gateway - OData Service Development

The transformation to SAP S/4HANA



SAP NetWeaver 7.0 or newer → Use SAP Gateway to build OData services which access arbitrary business data via existing frameworks (function modules, RFC, BAPI, SPI...)

SAP Gateway

Code-free service generation

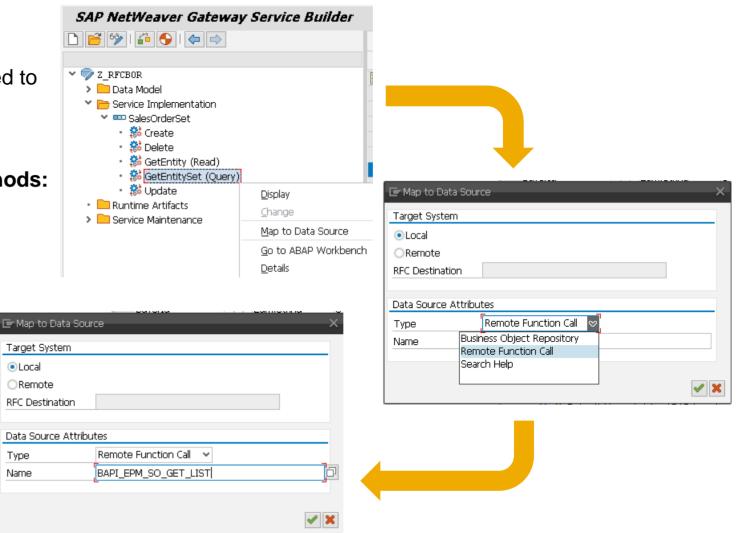
Existing business objects can be re-used as data sources to generate OData services without the need to write a single line of code

Mapping of data source attributes to CRUD methods:

- Business Object Repository (BOR)
- Remote Function Call (RFC)
- Search Help

Generate Services from SAP BusinessObjects

- SAP BW Queries (MDX, Easy Query, OData Query)
- Service Provider Interface (PLM and EAM)
- Genil (CRM)
- SAP Gateway Services (Service extension)



Local

Type

Name

SAP Gateway

Code-based service development

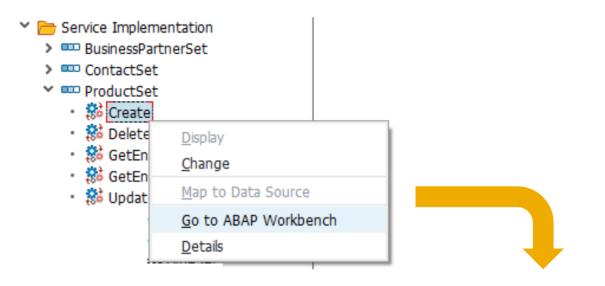
Existing business objects can be re-used to generate OData services without the need to write a single line of code

Code-based implementation of CRUD methods:

- Create → <Entity Set> CREATE ENTITY
- Read → <Entity Set> GET ENTITY
- Query→ <Entity Set> GET ENTITYSET
- Update → <Entity_Set>_UPDATE_ENTITY
- Delete → <Entity_Set>_DELETE_ENTITY

Code based implementation of advanced OData features

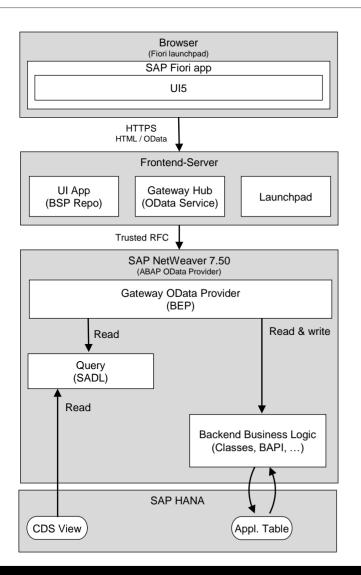
- Offline scenarios (\$deltatoken, \$skiptoken)
- Complex transactional behavior (SoftState, DeepInsert, ChangeSets in \$batch)



```
PRODUCTSET CREATE ENTITY
                                                Active
    ■ METHOD productset create entity.
       DATA: lv epm operation TYPE scx attrname,
             ls entity
                               TYPE /iwbep/cl gwsample bas mpc=>ts product,
             lr epm prod
                               TYPE REF TO if epm product header,
                               TYPE REF TO if epm message buffer,
             lr msg buf
                               TYPE if epm product header=>tt node data,
             lt data prod
             ls data prod
                               LIKE LINE OF 1t data prod,
                               TYPE abap bool.
             lv success
10
11
       io data provider->read entry data( IMPORTING es data = 1s entity).
12
13
       CLEAR: er entity.
```

SAP Gateway - OData Service Development

The transformation to SAP S/4HANA



SAP NetWeaver 7.0 or newer > Use SAP Gateway to build OData services which access arbitrary business data via existing frameworks (function modules, RFC, BAPI. SPI...)

SAP NetWeaver 7.40 or newer \rightarrow Use SAP Gateway for building OData services which read access to CDS objects

SAP NetWeaver 7.40 and newer

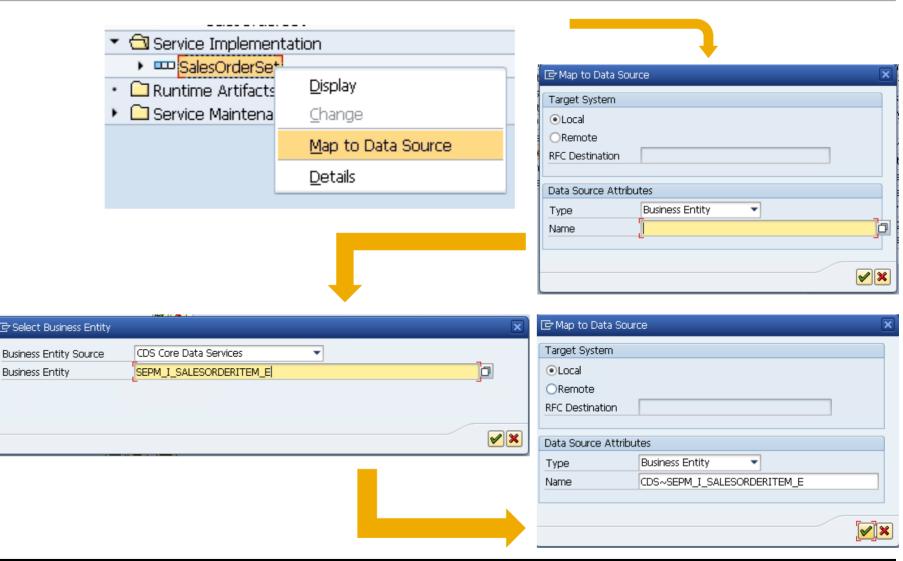
Mapping of CDS views to read and query methods

Mapping of a CDS views to entity sets. Service generation of

- Read method and
- Query method

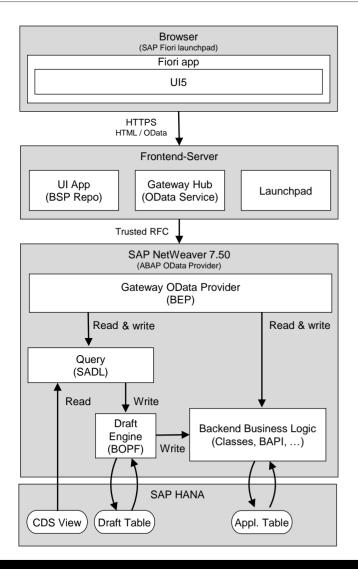
Code based implementation of CUD methods

Code based implementation of advanced OData features



SAP Gateway - OData Service Development

The transformation to SAP S/4HANA



SAP NetWeaver 7.0 or newer > Use SAP Gateway to build OData services which access arbitrary business data via existing frameworks (function modules, RFC, BAPI. SPI...)

SAP NetWeaver 7.40 or newer > Use SAP Gateway for building OData services which read access to CDS objects

SAP NetWeaver 7.50 → Use SAP Gateway and Core Data Services for creating OData services accessing SAP S/4HANA applications on SAP HANA

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SAP Gateway in SAP NetWeaver 7.50

Referenced Data Sources

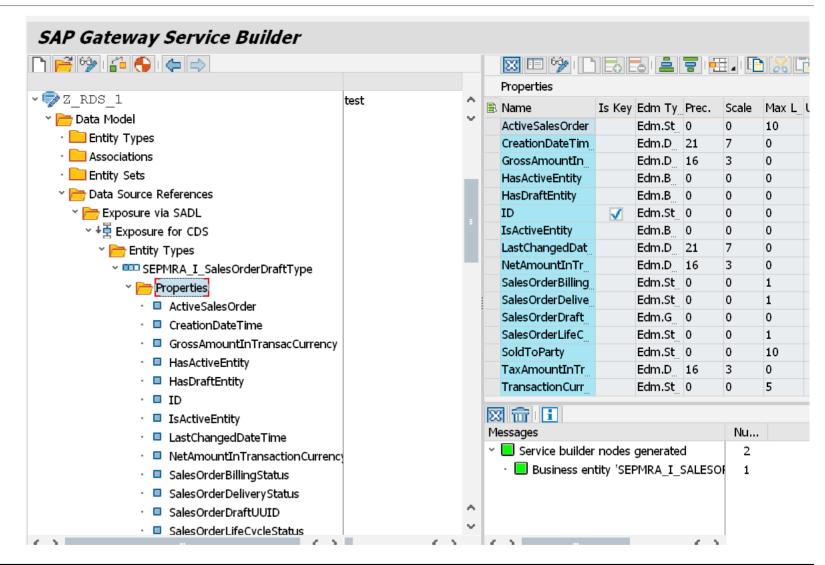
Referenced data source approach.

Service generation of

- Read method and
- Query method

Service generation of CUD methods for draft enabled CDS views*.

*appropriate BOPF objects have to be in place



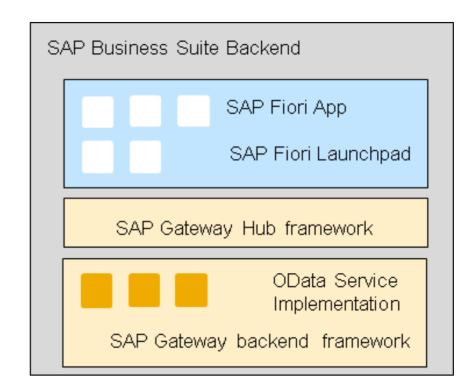
Today

SAP Gateway - OData Provisioning - On-Premise

Embedded deployment



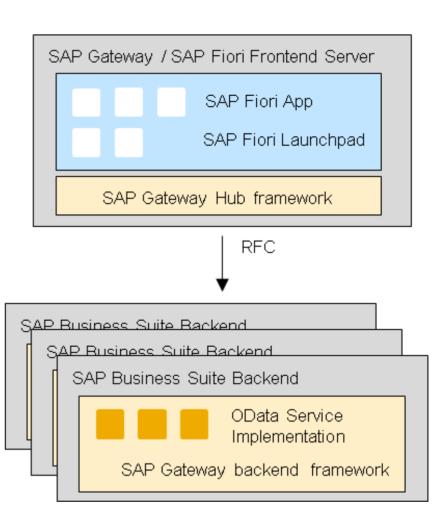
- + quick and easy way to expose SAP Gateway services from a single backend
- disadvantages when combining data from several backends
- downtime for SAP Business **Suite systems when** upgrading UI components



SAP Gateway - OData Provisioning - On-Premise

Hub deployment

- + administration advantages (component upgrades w/o shutting down backend systems, central frontend, ...)
- + Hub Features (multiorigin composition, Routing)
- + enhanced security
- additional server required



SAP Gateway - Multiple backend systems

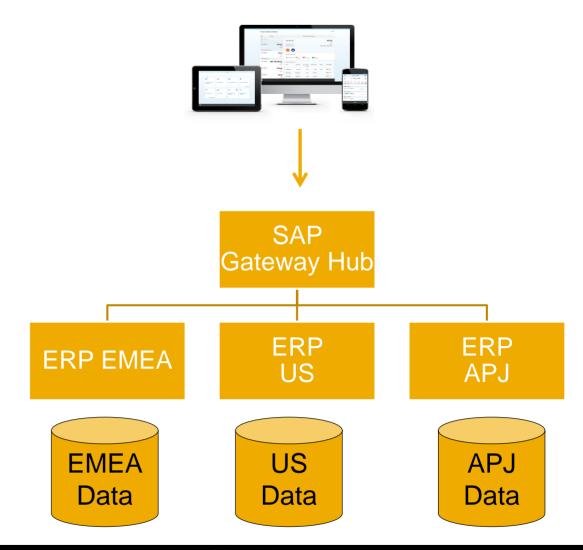
Retrieving data from multiple backend systems

Use cases

Routing

Get data from a specific backend system

- **Multi Origin Composition**
- Get data from multiple backend systems



SAP Gateway – MyInbox in SAP Fiori

Example for retrieving data from multiple backend systems

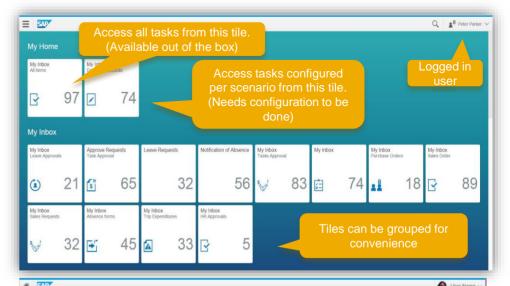
The new SAP Fiori app Mylnbox allows to access both SAP delivered and custom-built workflows using SAP Gateway

Task harmonization across different systems

- SAP Business Workflow
- SAP BPM
- 3rd Party workflow solutions

Task harmonization across different devices

- Desktop
- Mobile



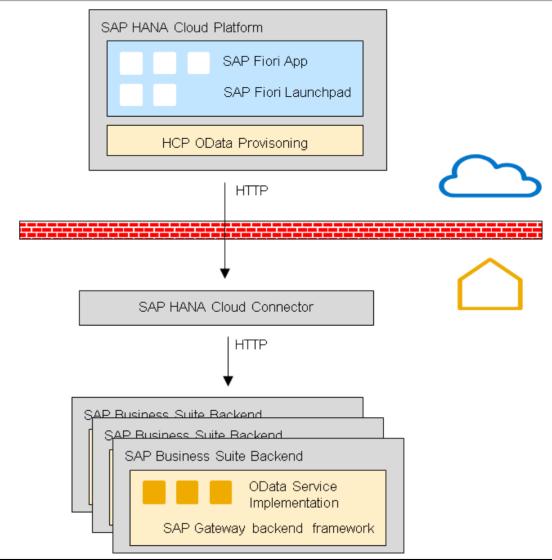


SAP Fiori Cloud

HCP OData provisioning



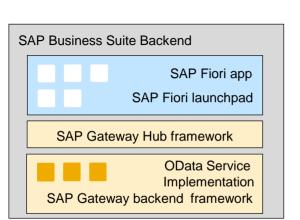
- + "Gateway Hub in the cloud"
- + cloud benefits (SAP handles upgrades, scaling, security,...)
- integrated with other HCP services
- + multiorigin composition
- does not support all features of the SAP Gateway Hub (routing, ...)

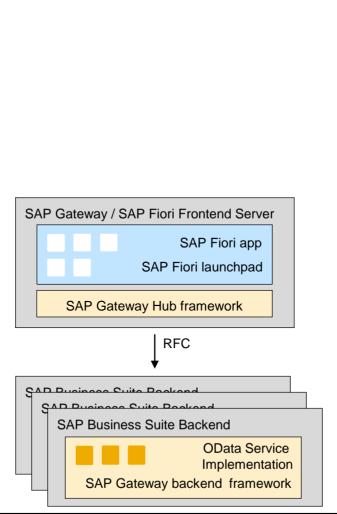


Deployment options

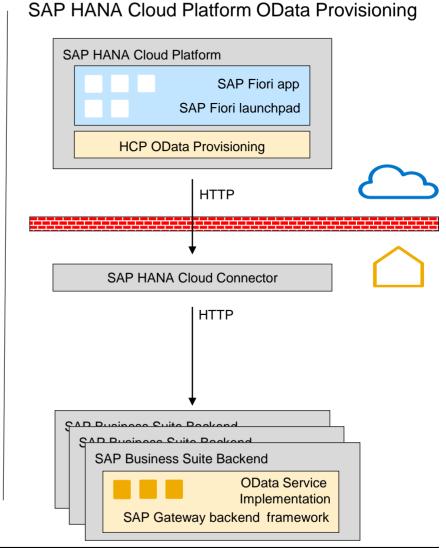


Embedded Deployment





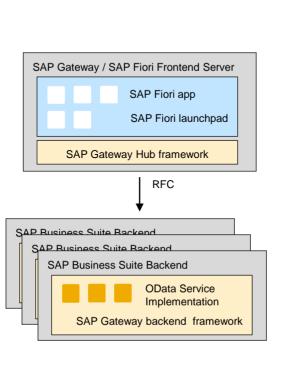
Central Hub Deployment

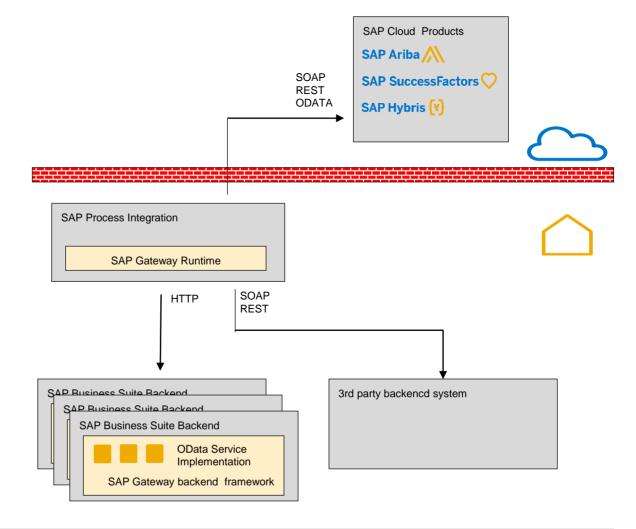


OData provisioning in other SAP products - On-Premise

SAP Process Orchestration

- integration with non-SAP
 Gateway data sources
- + multi-origin composition
- additional Gateway Hub server may be replaced
- easy integration
 with other
 Uls on the same server
 (e.g. SAP BPM)
- SAP Fiori components cannot be deployed



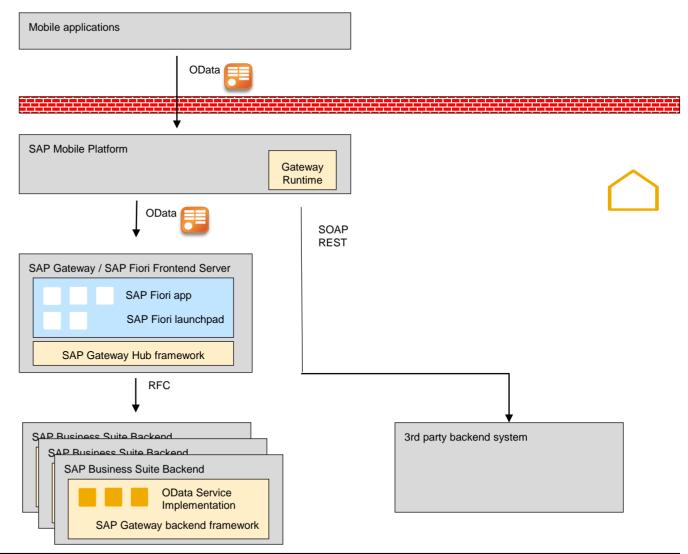


OData provisioning in other SAP products - On-Premise

SAP Mobile Platform

- integration with non-SAP
 Gateway data sources
- mobile qualities

 (device registration,
 offline capabilities,
 support for native mobile
 operating systems)
- + multi-origin composition
- SAP Fiori components cannot be deployed



Today

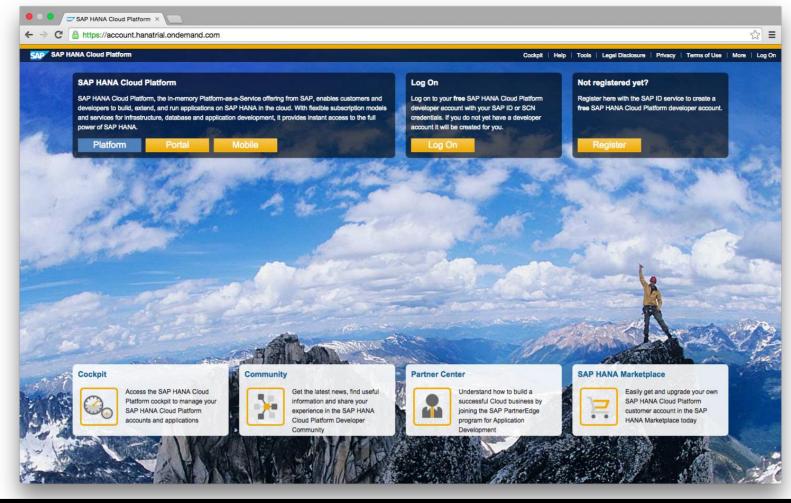
SAP Web IDE on SAP HANA Cloud Platform

SAP HANA Cloud Platform - Trial Version



https://account.hanatrial.ondemand.com/

Own roadmap available



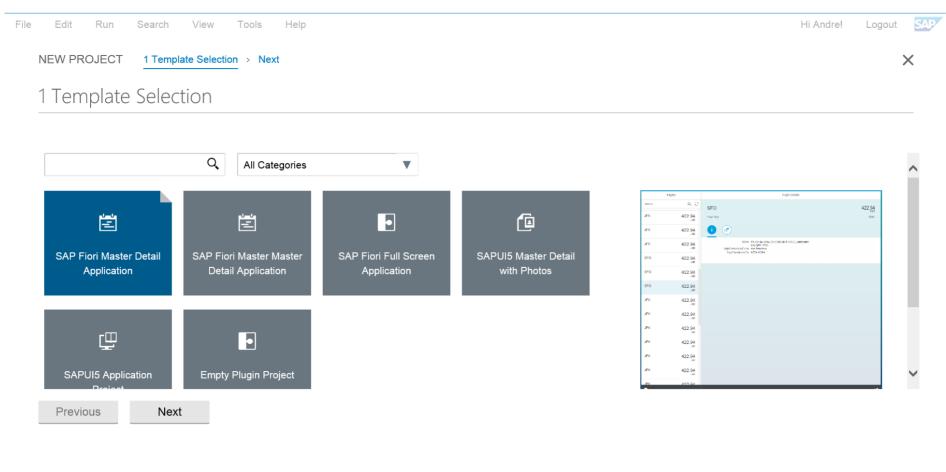
Today

SAP Web IDE on SAP HANA Cloud Platform

Creating HTML5 Apps from templates

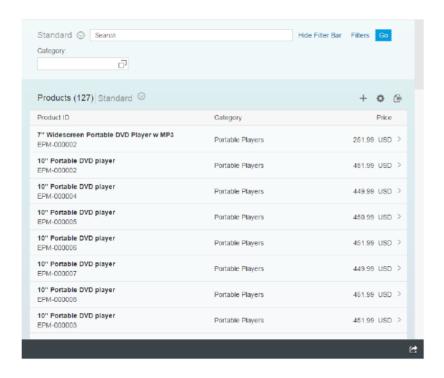


Own roadmap available

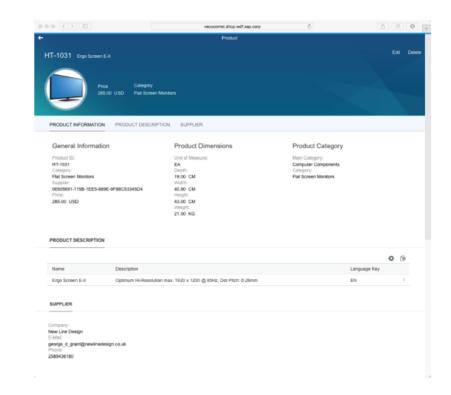


Smart Template-based Application

Worklist

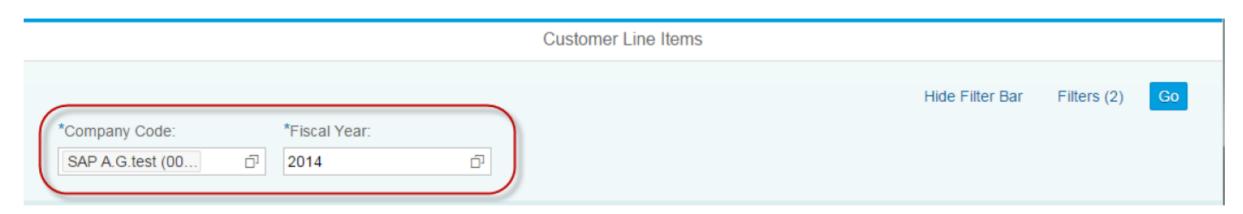


Object Page



Application is completely based on generic code and an OData service with annotations

Example: SmartFilterBar with Annotations



Annotations.xml

view.xml

```
<smartFilterBar:SmartFilterBar

•id="smartFilterBar"

•entityType="Item"

•x-persistencyKey="
SmartFilter_Persist"
/>
```

Today

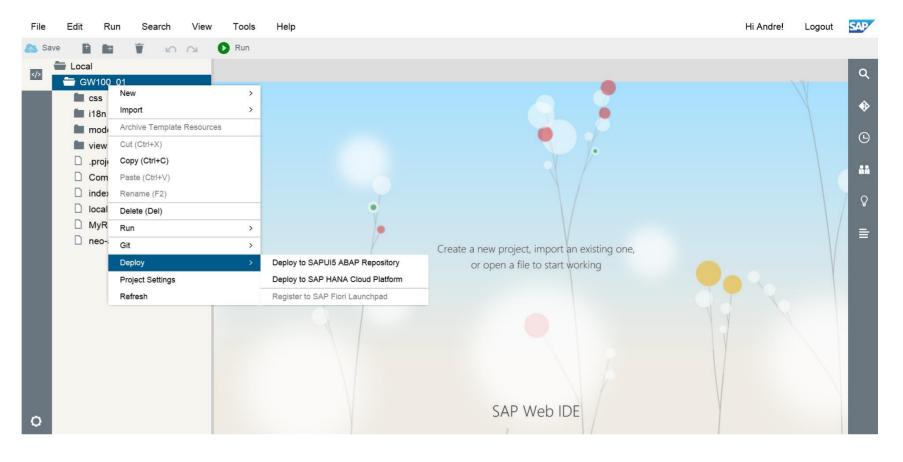
SAP Web IDE on SAP HANA Cloud Platform

Running HTML5 Apps on SAP Gateway



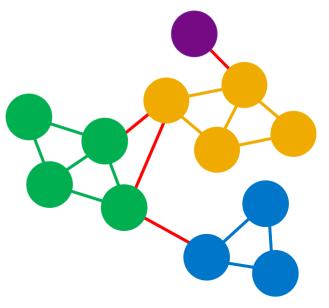
Own roadmap available

- Deploy to Frontend Server
- Deploy to SAP HANA Cloud Platform



OData v4 Support

The main paradigm in OData v4 is the reduction of data. The reduction is achieved through a more powerful query language and a new optimized JSON protocol. At the same time richer metadata can be leveraged.



OData V4: New JSON Format - Sample Payload 2.0 vs. 4.0

V2 Payload Product Details

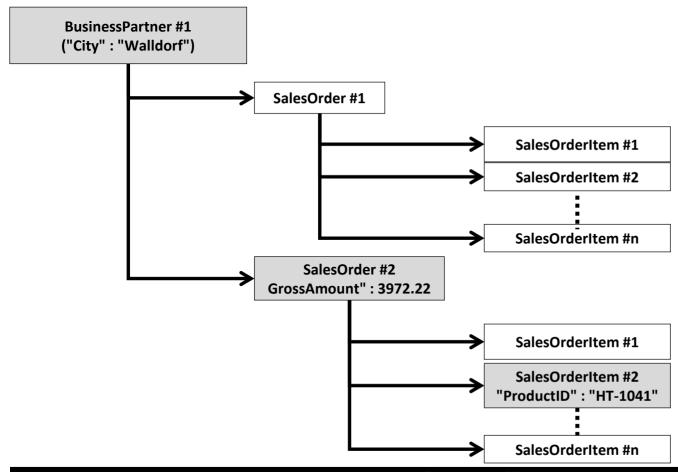
```
d: {
- metadata: {
     id: https://ldailglv.wdf.sap.corp;44356/sap/opu/odata/IWBEP/GWSAMPLE BASIC/ProductSet('HT-1000').
     uri: https://ldailglv.wdf.sap.corp:44356/sap/opu/odata/IWBEP/GWSAMPLE BASIC/ProductSet('HT-1000').
     type: "/IWBEP/GWSAMPLE BASIC.Product",
     etag: "W/"datetime'2015-10-22T09%3A43%3A25.00000000""
  }.
  ProductID: "HT-1000",
  TypeCode: "PR",
  Category: "Notebooks".
  Name: "Notebook Basic 15",
  NameLanguage: "EN".
  Description: "Notebook Basic 15 with 2.80 GHz guad core, 15" LCD, 4 GB DDR3 RAM, 500 GB Hard Disc, Windows 8 Pro
  DescriptionLanguage: "EN",
  SupplierID: "0100000000",
                                                                                                                       Width: 30.
  SupplierName: "SAP".
                                                                                                                       Depth: 18.
  TaxTarifCode: 1,
  MeasureUnit: "EA".
  WeightMeasure: "4.200".
  WeightUnit: "KG",
  CurrencyCode: "EUR",
  Price: "956.00",
  Width: "30.000",
  Depth: "18.000",
  Height: "3.000",
  DimUnit: "CM",
  CreatedAt: "/Date(1445507005000)/",
  ChangedAt: "/Date(1445507005000)/",
 - ToSalesOrderLineItems: {
   - deferred: {
       uri: https://ldailgly.wdf.sap.corp:44356/sap/opu/odata/IWBEP/GWSAMPLE BASIC/ProductSet('HT-1000')/ToSalesOrderLineItems
  },
 - ToSupplier: {
       uri: https://ldailqly.wdf.sap.corp:44356/sap/opu/odata/IWBEP/GWSAMPLE BASIC/ProductSet('HT-1000')/ToSupplier
```

```
@odata.context: "Smetadata#ProductList/Sentity".
ProductID: "HT-1000".
TypeCode: "PR".
Category: "Notebooks".
Name: "Notebook Basic 15".
NameLanguage: "EN",
Description: "Notebook Basic 15 with 2.80 GHz guad core. 15" LCD. 4 GB DDR3 RAM, 500 GB Hard Disc. Windows 8 Pro".
DescriptionLanguage: "EN",
SupplierID: "100000000",
SupplierName: "SAP".
TaxTarifCode: 1.
MeasureUnit: "EA".
WeightMeasure: 4.2.
WeightUnit: "KG".
CurrencyCode: "EUR",
Price: 956.
Height: 3,
DimUnit: "CM".
CreatedAt: "2015-10-22T09:43:25Z"
ChangedAt: "2015-10-22T09:43:25Z"
```

V4 Payload Product List

OData v4: Query options on expanded items

```
/BusinessPartnerList?$filter=Address/City eq 'Walldorf'&
$expand=BP 2 SO($filter=GrossAmount ae 1100:
$expand=SO 2 SOITEM($filter=Product/ProductID eq 'HT-1041'))
```

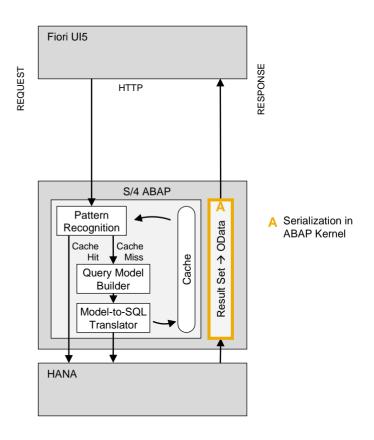


```
"@odata.context": "$metadata#BusinessPartnerList".
"value" : [
  "@odata.etag": "W/\"20150101000001.0000000\"",
  "BusinessPartnerID": "0100000000".
  "CompanyName": "SAP".
  "LegalForm": "SE".
  "Address" : {
   "Citv": "Walldorf",
   "PostalCode" : "69190"
   "Street": "Dietmar-Hopp-Allee".
   "Building": "16",
   "Country": "DE".
  "BP 2 SO":[
    "SalesOrderID": "0500000009".
    "BuverID": "0100000000".
    "BuyerName": "SAP",
    "CurrencyCode": "EUR",
    "GrossAmount": 3972.22.
    "SO 2 SOITEM": [
       "SalesOrderID": "0500000009".
      "ItemPosition": "20",
       "CurrencyCode": "EUR",
       "GrossAmount": 1166.20,
       "Product" : {
        "ProductID": "HT-1041",
        "ProductName" : "Laser Basic"
```

Performance improvements in OData v2

Optimized stack for SAP S/4HANA

- No separate Gateway Server for maximum performance connect directly to the backend
- Request Cache Request processing uses cached SQL Statements (fast track for cache hit, bypassing full request translation)
- Simple Transformation Use of Simple Transformation (running in ABAP Kernel) to generate OData response
- General Improvements in the GW Framework (e.g. optimized usage of shared memory), improved interaction between GW and SADL

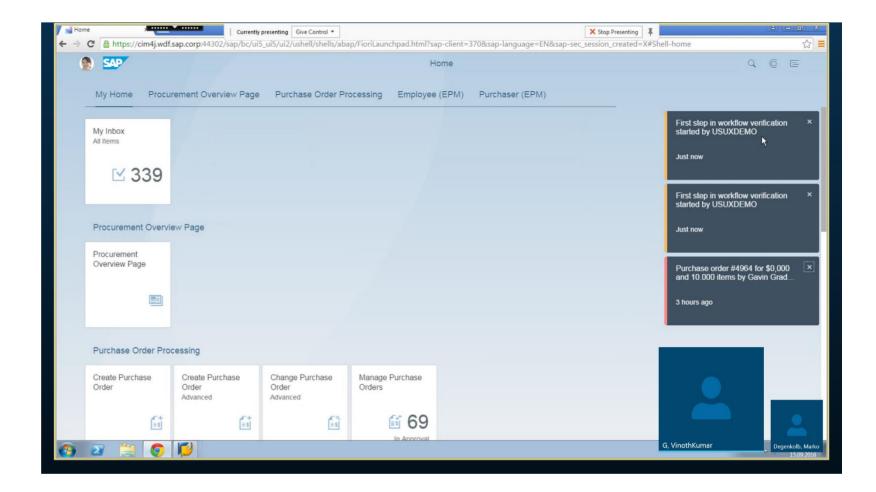


New notification channel

Workflow integration

My Inbox

 Send notifications – for the performer of a task



New SAP Gateway release strategy as of 7.50

SAP Gateway is an integral part of the new NetWeaver platform

New functionality is being developed for SAP NetWeaver 7.5x onwards only in the newest SAP NetWeaver release

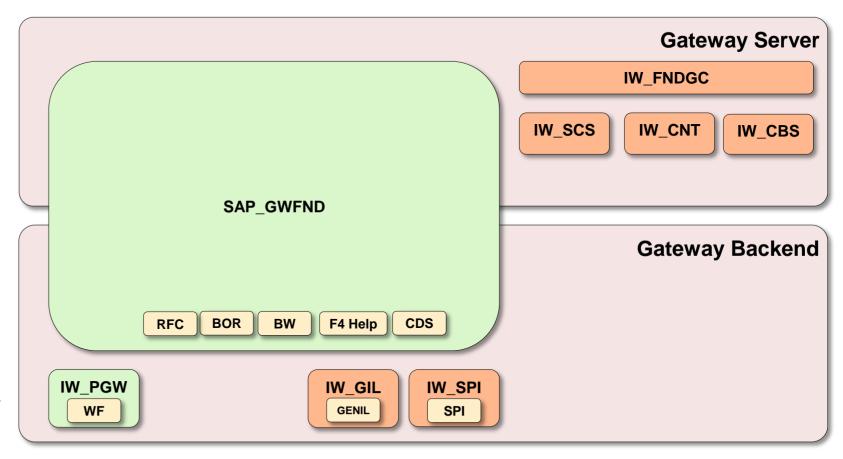
- No downports to older releases (e.g. NW 7.40 or Gateway 2.0)
- Innovations from NetWeaver-Basis are available with every new NetWeaver release for Gateway

Deprecated SAP Gateway components for SAP S/4HANA

Legacy Add-Ons in Gateway can be uninstalled before transformation to SAP S/4HANA

- IW SCS 200
- IW CNT 200
- IW CBS 200
- IW GIL 100
- IW SPI 100
- IW FNDGC 100

http://scn.sap.com/community/gateway/b log/2016/06/09/ uninstallation-of-sap-gateway-add-onsiwfndgc-iwgil-iwspi-iwscs-iwcnt-200-andiwcbs-200





Customer

SAP Gateway

Product road map overview - key themes and capabilities

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SAP NetWeaver 750 SP04

Planned

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 - Serialization of \$expand via ST

Future Direction

OData v4.0

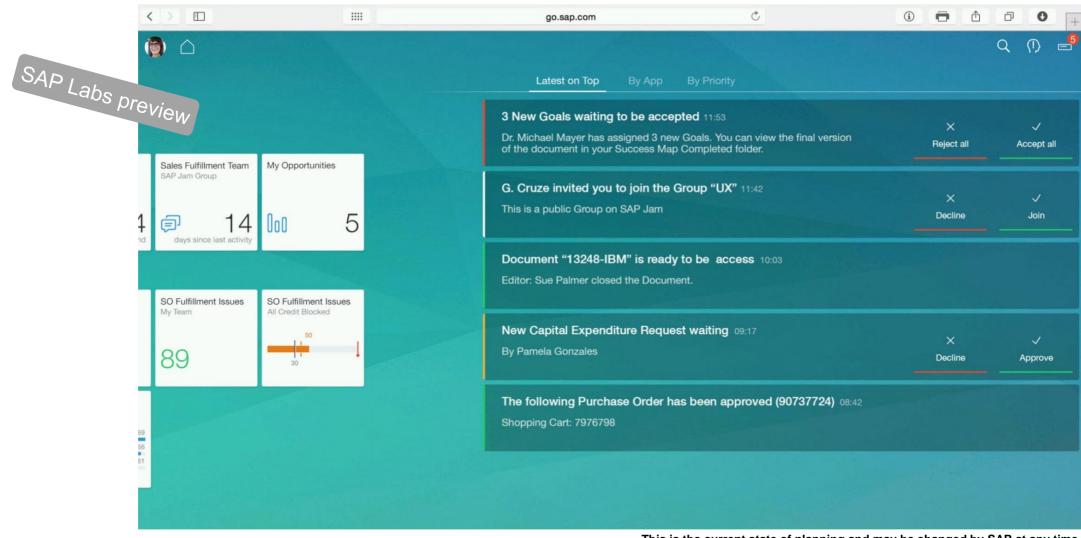
- Asynchronous Requests & Callback on Completion
- Offline: Delta Links & Callback on Change
- Feature parity with OData v2 stack

New notification channel

- Push-notifications for business objects
- Feed update notifications

New notification channel

SAP Fiori launchpad Support via WebSockets in SAP Fiori 2.0



New notification channel

Planned Innovations

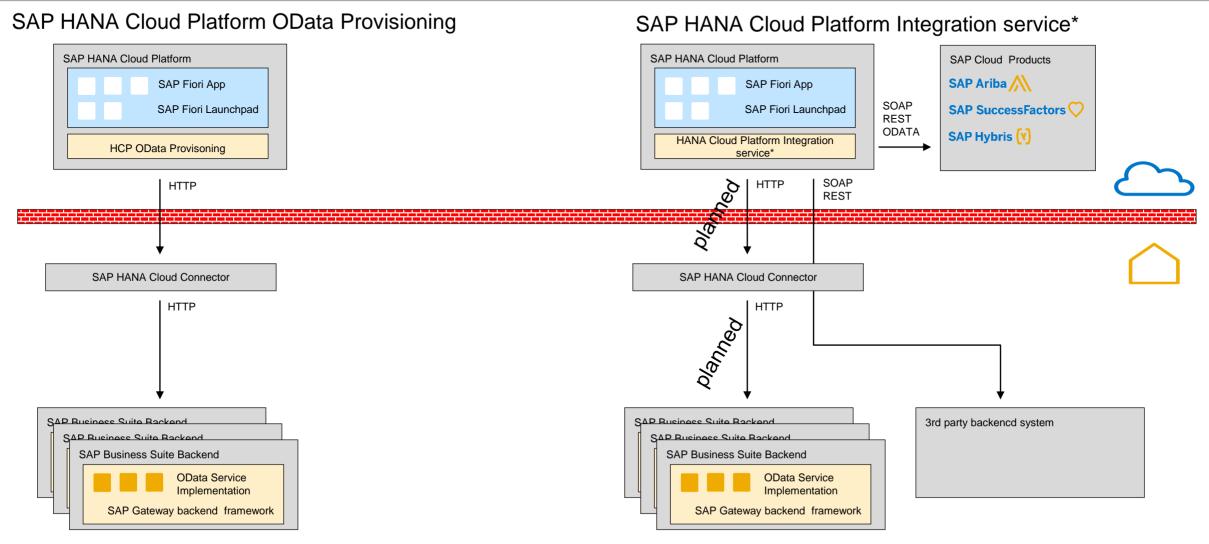
Notifications support for SAP HANA Cloud Platform mobile services and SAP Mobile Platform 3.0







HCP OData Provisioning vs SAP HANA Cloud Platform Integration service*



^{*} Previously called SAP HANA Cloud Integration

OData v4: Aggregation: Simple Composable Query Language

GET Sales

	_				SAPI
ID	Category	Product	Country	Customer	Amou. Preview
1	Non-Food	Paper	USA	Joe	1
2	Food	Sugar	USA	Joe	2
3	Food	Coffee	USA	Joe	4
4	Food	Coffee	USA	Sue	8
5	Non-Food	Paper	USA	Sue	4
6	Food	Sugar	Netherlands	Sue	2
7	Non-Food	Paper	Netherlands	Sue	1
8	Non-Food	Paper	Netherlands	Sue	2
•		. 5.15 5 .		3.3	_

GET Sales?\$apply=groupby((Product),aggregate(Amount with sum as Total))

Product	Total
Coffee	12
Paper	8
Sugar	4

OData v4: Instance annotations

- Define additional information for the payload, for example
 - A property is read-only for a single instance
 - Conditional formatting on UI level
- Instance-level annotations override the annotation specified at the metadata level



Product1	Description read only	On Stock
Product2	Description editable	Shipped within 3 weeks
Product3	Description read only	On Stock

OData v4: Additional topics

Generic CDS view provisioning

- CDS views will be automatically published as OData v4 services
- No additional development efforts

New Service Catalogue

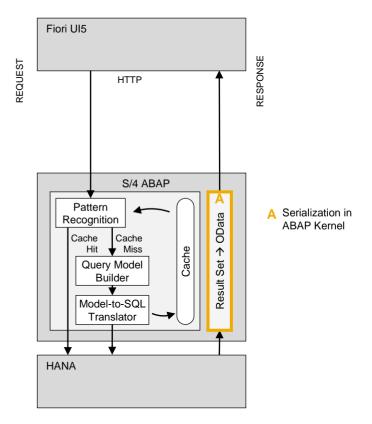
Feature parity with OData v2 stack

- Multi-Origin
- Soft-State
- Read Access Logging
- Deep Insert

Performance improvements in OData v2

Optimized for Co-Deployed scenarios and analytical scenarios

- Batch at once optimize data access in (analytical) read only scenarios
- Simple Transformation Support of \$expand



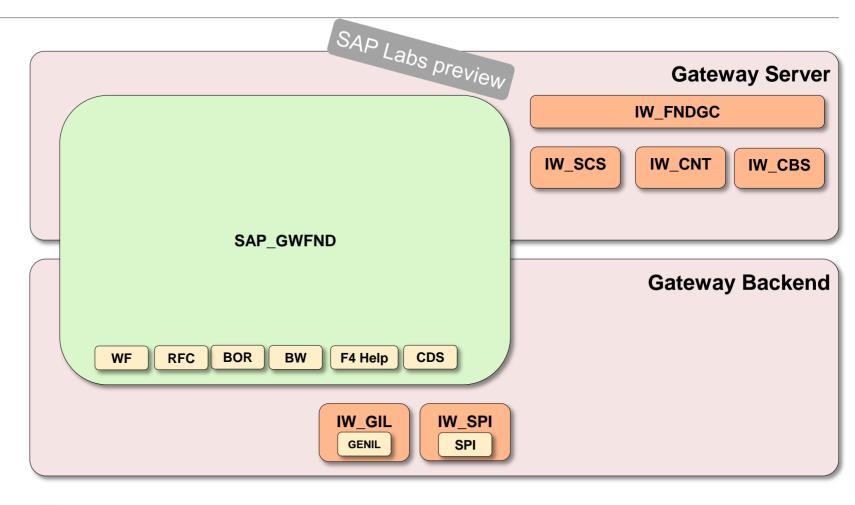
Planned Add-on structure

IW_PGW becomes part of software component SAP_GWFND

Only one software component

Uninstallable Add-ons (not supported for S/4HANA)

- IW SCS 200
- IW CNT 200
- IW CBS 200
- IW GIL 100
- IW SPI 100
- IW_FNDGC 100



= uninstallable add-on



Product Road Map

- Today
- Planned
- Future



SAP Gateway

Product road map overview - key themes and capabilities

Today

OData v2 service development and service provisioning

- Odata service development
- Support of multiple backend systems

OData provisioning in other SAP products

- SAP Mobile Platform 3.0
- SAP Process Integration
- SAP Fiori Cloud
- SAP HANA Cloud Platform

OData v4.0

- Code-based service development
- Cross service navigation Reuse of services
- Generic F4-Help provisioning

Performance improvements in OData v2

New notification channel

Workflow integration

SAP NetWeaver 750 SP04

Planned

OData v4.0

- Aggregation e.g. \$apply with groupby
- Instance annotations
- Service catalogue
- Feature parity with OData v2 stack
 - Deep Insert
 - Multi-Origin
 - Soft-State
 - RAL

New notification channel

- Continuous improvements
- SAP Fiori launchpad support via WebSockets in SAP Fiori 2.0
- Notifications support for SAP HANA Cloud Platform mobile services and SAP Mobile Platform 3.0

Performance improvements in OData v2

- Optimizations for Co-Deployed scenarios and analytical scenarios
 - Batch at once
 - Serialization of \$expand via ST

Future Direction

OData v4.0

- Asynchronous Requests & Callback on Completion
- Offline: Delta Links & Callback on Change
- Feature parity with OData v2 stack

New notification channel

- Push-notifications for business objects
- Feed update notifications

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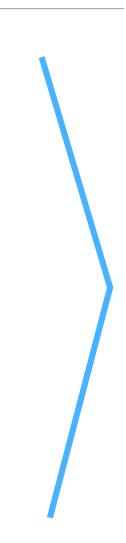
OData v4: Future topics

OData v4.0

- Asynchronous Requests & Callback on Completion
- Offline: Delta Links & Callback on Change
- Feature parity with OData v2 stack

New notification channel

- Push-notifications for business objects
- Feed update notifications





Thank you

Road map contacts for customers and partners

André Fischer

andre.fischer@sap.com

Product Manager

Key links for more information

For customers and partners

Key links

SAP Road Maps http://www.sap.com/roadmaps

IT Planning Resources https://websmp206.sap-ag.de/~sapidb/011000358700001160122012E

SAP Community Network http://scn.sap.com/community/netweaver-gateway

SAP Partner Portal http://partner.sap.com/gateway

SAP Gateway productivity accelerator https://tools.hana.ondemand.com/#gateway

SAP Online Help http://help.sap.com/nwgateway

http://scn.sap.com/community/developer-center/netweaver-gateway

https://account.hanatrial.ondemand.com/

Gateway as a Service – trial

SAP Developer Center

Where to go to provide product feedback and ideas

http://service.sap.com/influence Influence programs

SAP User Groups http://www.sapusergroups.com/

Customer

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