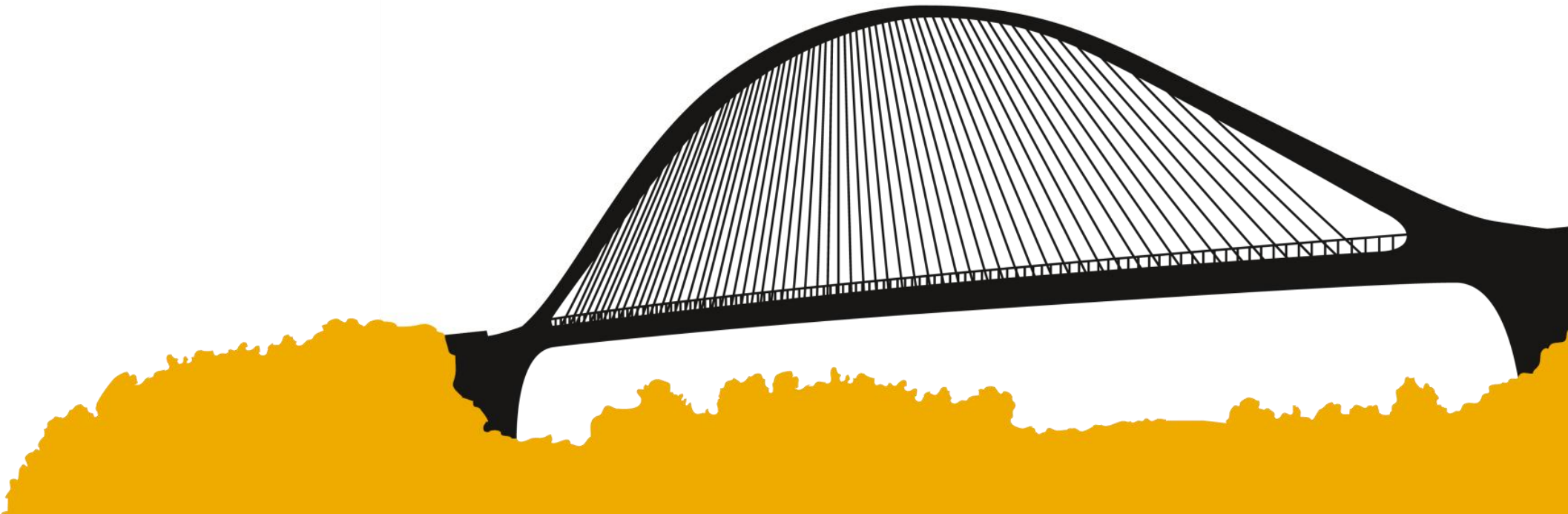


# SAP Gateway Deployment Options

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# What You Will Learn in This Video

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<b>Goal</b>	Find the ideal deployment approach for your existing landscape and use case
<b>Audience</b>	System landscape architects and system administrators
<b>Level</b>	General overview with few technical details
<b>Agenda</b>	Separation NetWeaver 7.40 versus older NetWeaver releases and system prerequisites  The three deployment options  Further information

# Which Prerequisites Your System Needs to Fulfill

## Option A:

**< NW7.40**

→ you need to deploy the components GW\_CORE, IW\_FND and IW\_BEP

	SAP Gateway server functionalities	SAP Gateway backend functionalities
NW7.31 and earlier	GW_CORE, IW_FND	IW_BEP
as of NW740	SAP_GWFND	SAP_GWFND

## Option B:

**NW7.40**

→ which includes SAP\_GWFND  
(containing functions of GW\_CORE, IW\_FND and IW\_BEP)

## SAP Note 1942072:

**SAP NetWeaver Gateway 2.0 Support Package stack definition**

<http://service.sap.com/sap/support/notes/1942072>

# The Three Deployment Options

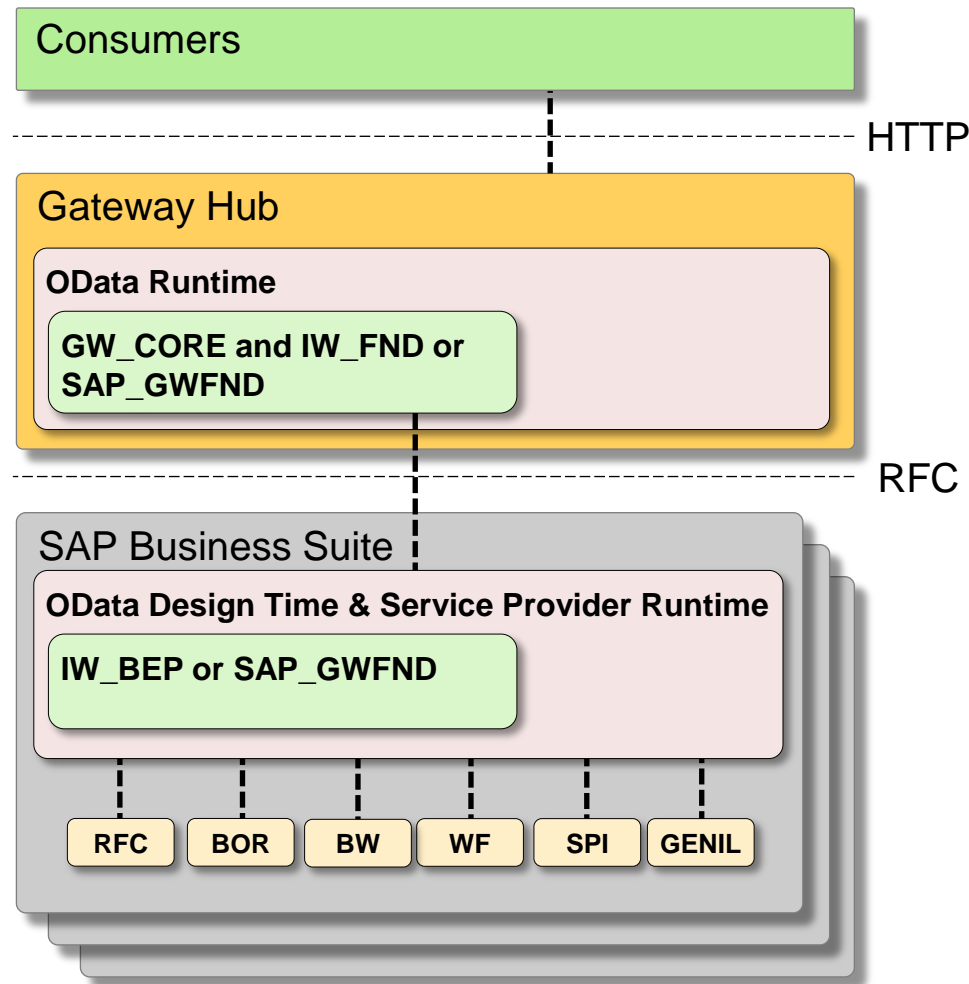
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1. SAP Gateway **hub deployment**  
with service development in the SAP Business Suite backend
2. SAP Gateway **hub deployment**  
with service development in the SAP Gateway hub
3. SAP Business Suite **embedded deployment** and service development

# Hub Deployment with Service Development in the SAP Business Suite Backend

SAP Gateway system acts as a communication end point.

Service development takes place in the SAP Business Suite backend system.



## Advantages of this scenario:

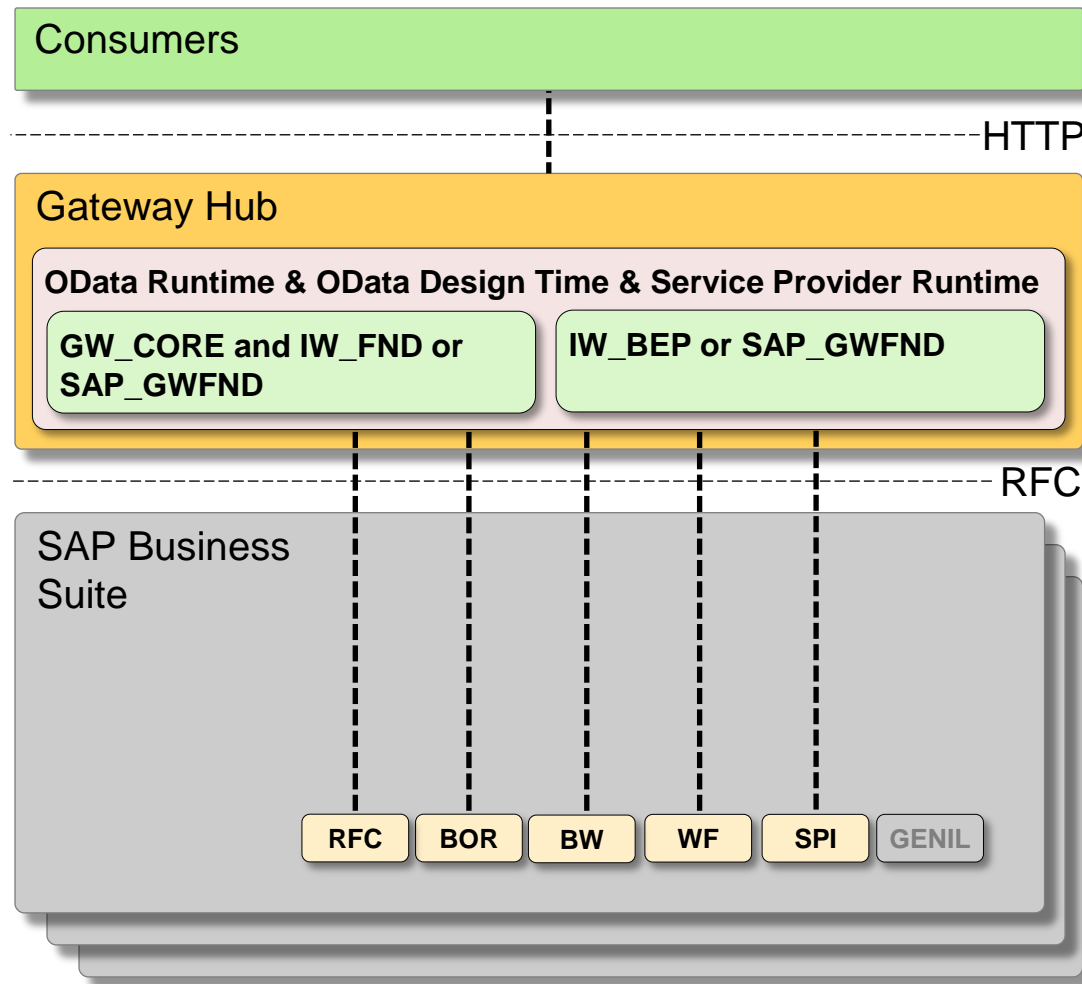
- Routing and composition of multiple systems is supported
- Single point of access to backend systems
- Hub system can be based on a newer release (7.31 or 7.40) that supports additional authentication options (Kerberos, SAML Browser protocol)
- Hub system can be based on a newer release (7.31 or 7.40) that supports SAPUI5
- Enhanced security because of no direct access to the backend system
- Direct local access to metadata (DDIC) and business data, meaning easy reuse of data

# Hub Deployment with Service Development in the SAP Gateway Hub

SAP Gateway system acts as a communication end point.

Service development takes place in the SAP Gateway hub system.

SAP Business Suite backend systems are not touched.



## Advantages of this scenario in addition to the ones mentioned in the 1<sup>st</sup> scenario:

- No need to install (and upgrade) SAP Gateway components in the backend
- Services developed by partners do not need any deployment in the backend systems

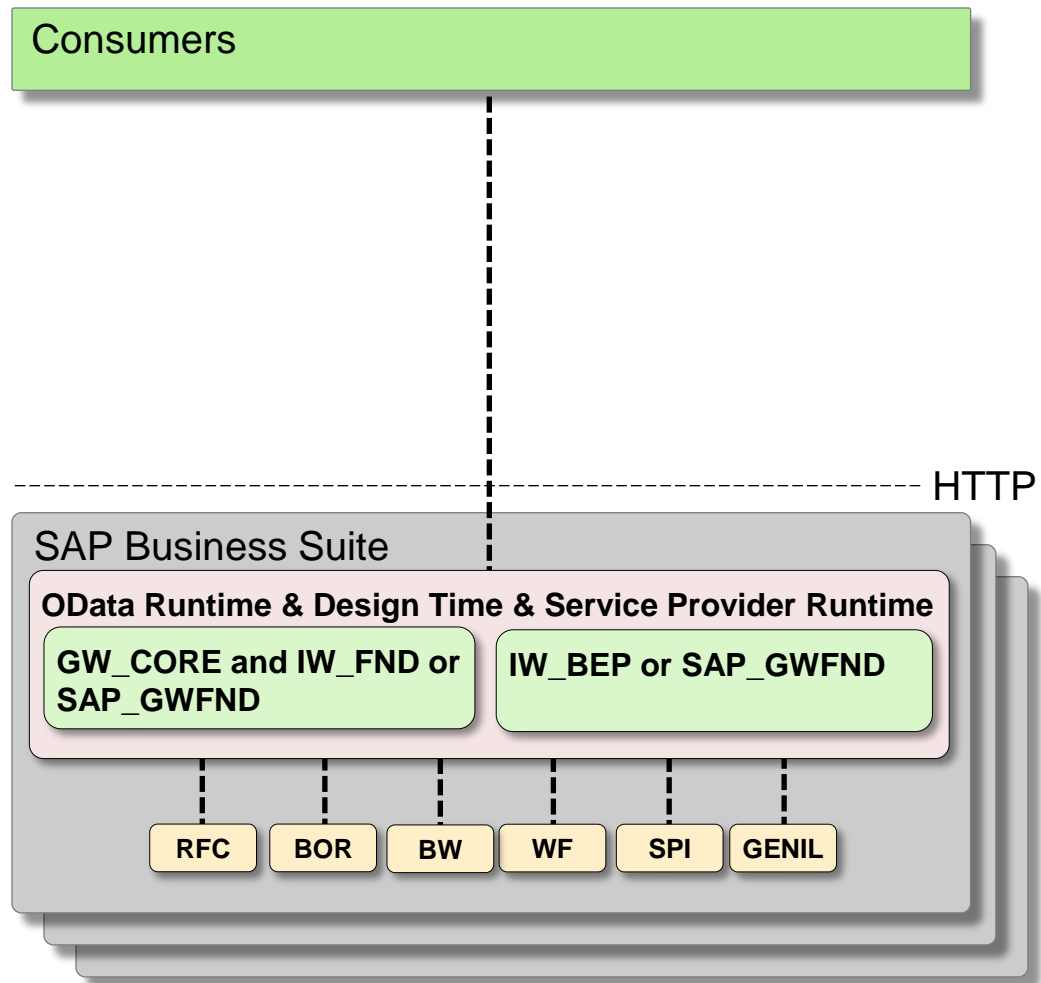
## Disadvantages:

- Access is limited to remote-enabled interfaces (RFC function modules, BAPIs, BW Easy Queries, SPI Objects)
- Remote-enabled interfaces might not be optimally suited (e.g. they might not offer appropriate filter options)
- GENIL objects cannot be accessed remotely
- Additional server needed for SAP Gateway
- **No** direct local access to metadata (DDIC) and business data, meaning reuse of data is limited to remote access as mentioned above

# Embedded SAP Business Suite Deployment and Service Development

Service development takes place in the SAP Business Suite backend system that is the same as the SAP Gateway system.

Additional security component needed for extranet scenarios.



## Advantages:

- Less runtime overhead as remote calls are reduced

## Disadvantages:

- If multiple SAP Business Suite systems are used, SAP Gateway system would have to be configured multiple times
- If embedded deployment is chosen, the system must not be used as a hub for additional backend systems. As a result Routing and composition cannot be used.
- Upgrade of components in a SAP Business Suite backend system is usually only possible once or twice a year for larger companies

# Further Information

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## **Blog ‘Deployment Options in a Nutshell’**

<http://scn.sap.com/community/netweaver-gateway/blog/2013/05/27/sap-netweaver-gateway-deployment-options-in-a-nutshell>

## **SAP Help Portal**

[http://help.sap.com/saphelp\\_nw74/helpdata/en/3e/b1ea508f88bb7ee10000000a445394/content.htm?frameset=/en/93/338c8dde0245f4b514e4d00f879b48/frameset.htm](http://help.sap.com/saphelp_nw74/helpdata/en/3e/b1ea508f88bb7ee10000000a445394/content.htm?frameset=/en/93/338c8dde0245f4b514e4d00f879b48/frameset.htm)

## **SAP Community Network / SAP NetWeaver Gateway**

<http://scn.sap.com/community/netweaver-gateway>

## **SAP Gateway Self-Paced Learning**

<http://wiki.scn.sap.com/wiki/pages/viewpage.action?pageId=318672261>

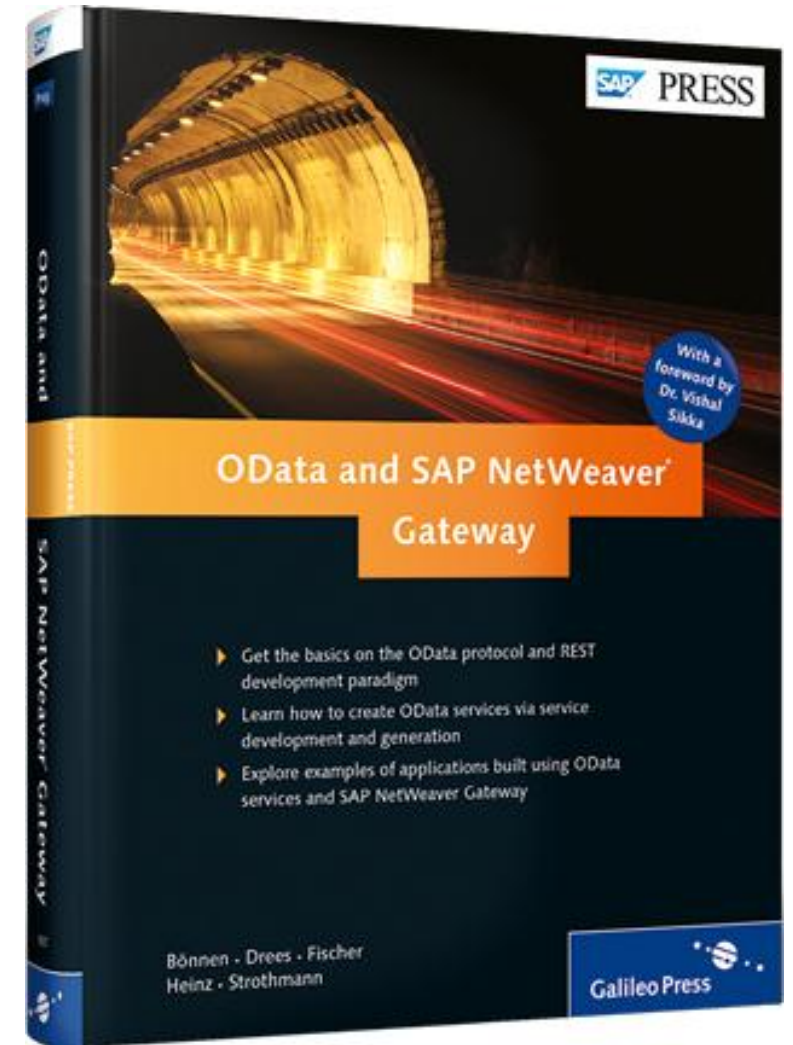


# Further Information

## Book now available as print and e-book edition!

<http://www.sap-press.com/products/OData-and-SAP-NetWeaver-Gateway.html>

- Get the basics on the OData protocol and REST development paradigm
- Learn how to create OData services via service development and generation
- Explore examples of applications built using OData services and SAP NetWeaver Gateway
- With a foreword by Dr. Vishal Sikka



**Thank you!**

