

# SAP NETWEAVER GATEWAY ON WFTCLOUD

## SAP NETWEAVER GATEWAY

### A BRIDGE TO NON-ABAP & DEVELOPER COMMUNITIES

SAP NetWeaver Gateway technology provides a simple way to interact with SAP applications through variety of devices, environments and platforms based on market standards. The framework enables development of innovative, people centric solutions that bring the power of SAP business software into new experiences, such as: social networking and collaboration environments; mobile and tablet devices; and rich internet applications. The framework supports rapid innovation while ensuring security, integrity, management and optimized maintenance of the core SAP systems. Completely flexible, the software offers connectivity to SAP applications using any programming language or model without the need for SAP knowledge by taking advantage of REST services and OData/ATOM protocols. It taps REST, SOAP and the Open Data Protocol, or OData, to allow non-SAP developers to link SAP applications to social media applications, cloud-based data sources, and mobile devices.

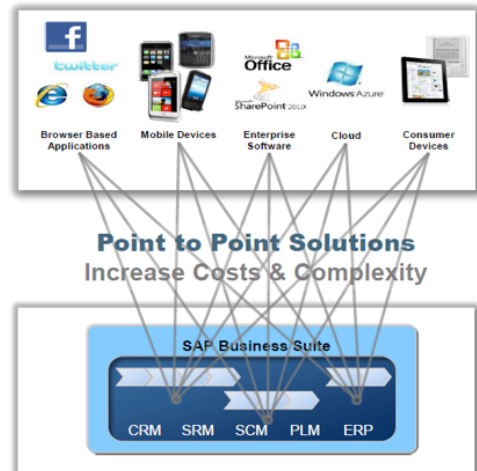
#### SAP NetWeaver Gateway functions as such a bridge:

- **A bridge to non-ABAP platforms:** Gateway makes data persisted in SAP Business Suite components easily accessible by lightweight applications running on non-ABAP platforms
- **A bridge to new developer communities:** Gateway offers a framework for providing simple REST-based APIs to non-ABAP developer communities, exposing content from RFCs, BAPIs, and ABAP Dynpro screens as well as other data from the SAP Business Suite
- **A bridge that simplifies complex data structures to make them more lightweight:** The multifaceted, comprehensive business objects of the SAP Business Suite can be reduced to simpler data structures

#### A bridge that can provide agility for deploying lightweight applications.

Because of its key role in business processes, many companies follow application lifecycle management best practices for the SAP Business Suite. Lightweight applications can follow a more agile development and deployment model, compared with methodologies such as creating ABAP Add-Ons.

#### Without Netweaver Gateway Point to Point Solutions will Increase Costs & Complexity



**Mobile devices** are driving a proliferation of lightweight applications. Many companies now offer iPad/iPhone, Android, and Blackberry apps, as well as apps for other types of devices. Because mobile application proliferation is occurring at an unprecedented rate, it is easy to conflate the ease of consumption of Gateway services with their use in mobile apps. In fact, however, any type of app can consume Gateway services. Gateway's openness is key.

#### Here are some examples of Gateway application scenarios:

- Any external office or collaboration application (like Duet Enterprise for Microsoft SharePoint and SAP)
- Desktop machines using web-based applications running PHP, Java, Ruby, or any other programming or scripting language
- Native applications on mobile devices
- Embedded devices such as manufacturing robots or route planning software in satellite navigation systems
- Any other business scenario you can think of involving some programmable device that can speak HTTP

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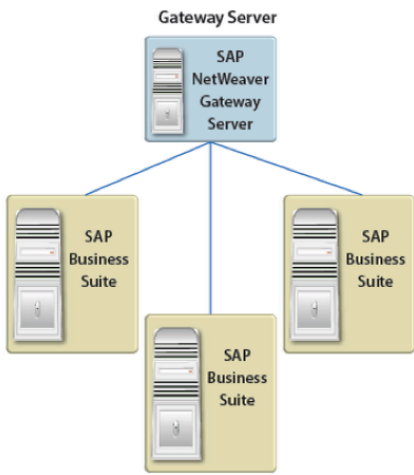
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## SAP NetWeaver Gateway can be deployed in one of two ways in an SAP landscape: DEPLOYMENT OPTIONS

- Standalone, shown on the left in the below Figure, in which SAP NetWeaver Gateway is deployed on a dedicated server
- Embedded, shown on the right. Gateway is installed as an ABAP Add-on and runs on the same system as the SAP Business Suite, so no dedicated server is required to run Gateway

Please note that SAP NetWeaver 7.02 is required to support deployment of SAP NetWeaver Gateway.

SAP NetWeaver Gateway is installed on a dedicated system



SAP NetWeaver Gateway is installed on the same system as the SAP Business Suite

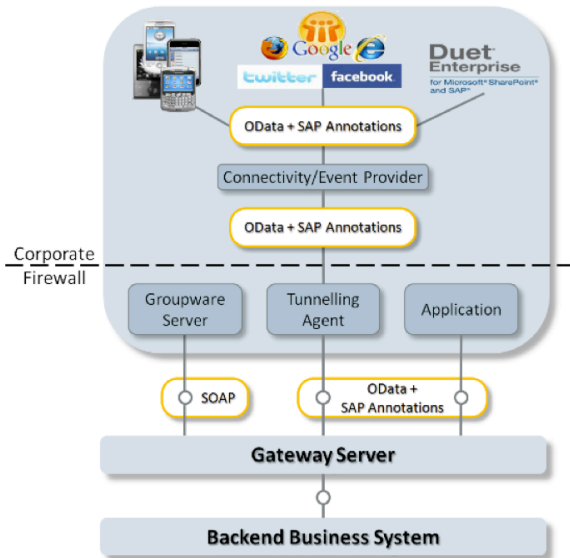


### Key Benefits

The SAP NetWeaver Gateway interface:

- REST-enables your SAP system, thereby lowering the data consumption barrier to the point that no specialist knowledge of an SAP system is required before SAP business data and functionality can be consumed.
- Hides the technical complexities of your SAP system landscape behind a single interface that is easy-to-use and non-proprietary.
- Makes your SAP business data and functionality accessible to any external device or system that can:
  - Communicate using the HTTP(S) protocol
  - Understand [OData](#) messages
- Provides Service Provisioning tools that allow the quick REST-enablement of existing ABAP functionality.
- Provides plug-ins for well-known IDEs such as Eclipse, Visual Studio 2010 and XCode.
- Is installed as a set of ABAP add-ons; therefore, it will not interfere with your existing productive software.

### SAP Netweaver Gateway Topology



### Using Netweaver Gateway

#### From black box to open

- Any environment, any platform, any experience

#### From business process centric to people centric

- Optimized for user interaction scenarios

#### From version specific to timeless

- Non-disruptive, any SAP Business Suite version

#### From SAP developers to non-SAP developers

- No SAP knowledge required

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