

Custom SAP Fiori “Approve Invoice” app

Proposal

+ PO

→ integrated APPROVE Fiori add-on



VPA [to see with c/o on configuring on the way to do]

Microsoft Partner

Gold Application Development
Gold Collaboration and Content
Gold Customer Relationship Management
Gold Enterprise Resource Planning
Silver Application Integration
Silver Business Intelligence
Silver Management and Virtualization



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Approval for use			
Delaware Consulting	Name	Signature	Date
Setup by:	Jonathan Belliot		01/08/2016
Approved by:			

Distribution	
(e.g. name customer)	(name contact person)
RTL Group	Jean-Marc Lemljin

Change History		
Version	Date	Description
1.0	01.08.2016	Initial version



1 Introduction

Delaware Consulting thanks you for the trust you put in our company.

Kurlo 2
PD.

We are pleased to submit our proposal for the “**Fiori Approve Invoice**” project at RTL Group.

As an experienced IT service provider with many successful project references we believe we can offer compelling value to this project.

This offer contains the following solution components:

General configuration

- Validate the SAP Fiori landscape

EXISTING

what if not ok ?

App specific developments and documentation

- Realize the app backend, gateway and Fiori frontend (SAPUI5) developments
- Write technical documentation
- Write training documentation

App specific configuration

- Integrate the app into and configure the Fiori launchpad

Extra service

- Go live support

*Pre-study required
on internal / vpn adu)
+ setup
Web display*

The app specific developments and documentation listed above will be offered in three different variants:

- App development at Delaware Belgium with basic technical documentation and roll-out documentation
- App development at Delaware Belgium with training documentation and roll-out documentation
- App development at RTL Group Luxemburg with basic technical documentation and roll-out documentation

We are looking forward to partnering with RTL Group !

2 Why Delaware Consulting

The partnership between Delaware Consulting and SAP goes back to 1995, when Delaware decided to offer mid-sized companies the far-reaching functionality and continuity of the SAP platform.

Today, Delaware Consulting implements the full SAP solution portfolio, customized to the needs of both SMEs and large enterprises. Consultants at Delaware oversee every step of the IT project - from blueprint to Application Management Services. In this way, Delaware Consulting puts itself forward as a reliable long-term partner, committed to the continuous function of the hard- and software of its customers, for many years after the go-live.

The title of Gold SAP Partner serves as a testament to the deep-rooted expertise and professional approach of Delaware's dedicated SAP team and underlines the company's leading position in the SME market.

Delivering solutions, both home and abroad.

As a leading provider of state-of-the-art IT solutions and services based on the Microsoft, SAP and OpenText technology platforms, Delaware Consulting is committed to the motto 'Combining strengths, delivering solutions': to work as a team, in close cooperation with customers, colleagues and business partners.

On an international level, Delaware strongly believes in a 'GLocal' approach: a winning combination of Local entrepreneurship and Global vision and collaboration. The first tenet allows full integration in the local business community whilst ensuring autonomy of the entities. In turn, the global framework enables smooth international collaboration and exchange of people, knowledge and tools. That way, we can increase our continuity and flexibility and provide top-quality services at premium rates to customers anywhere in the world.

Today, the Delaware Consulting team consists of 700 professionals spread across offices in Belgium, the Netherlands, Luxembourg, France, China, Singapore, Philippines, Hungary and the US. Committed to sustainable growth while maintaining its own identity, Delaware Consulting is continually strengthening and expanding its operations in order to give customers the best possible support.

Business Benefits

A winning mobile strategy starts with a winning platform. Invest in a platform that allows you to:

- Set up your SAP mobile Business Applications.
- Speed up your enterprise mobile application development and access back-end data from any mobile device.
- Increase your company's security and mobility.
- Outclass the competition through instant access to relevant information and systems.

1 Unwire Your Business via SAP Fiori

'Connectedness' is the keyword of today's society. The latest technological innovations in smartphones and tablets grant people availability and information anywhere and anytime. Mobile phone subscriptions have exceeded the 7 billion mark, and with around 11 billion downloads to date, apps have conquered the world in a heartbeat.

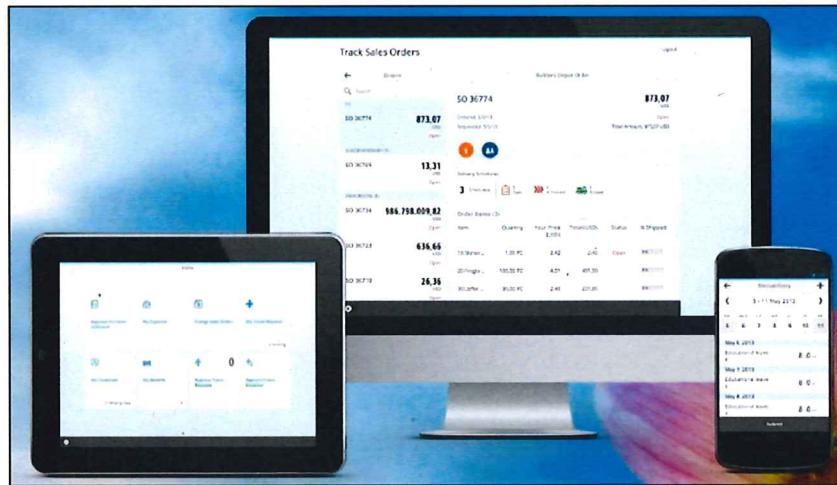
It comes as no surprise that people expect the same kind of connectedness and availability in their work. Through access to the business system at any time and place, mobility has the potential to increase efficiency and productivity and reduce costs. Furthermore, it offers a unique opportunity to support work in new and exciting contexts.

Running parallel with the rising demand for mobile applications is the need for a mobile platform that is at once reliable and flexible. Composed of state-of-the-art technology, this efficient Mobile Application Platform offers all you need to:

Simply and quickly develop mobile applications that give business users secure access to diverse business data on a broad range of mobile devices.

Deploy standard SAP mobile business applications that accelerate business processes and enhance productivity.

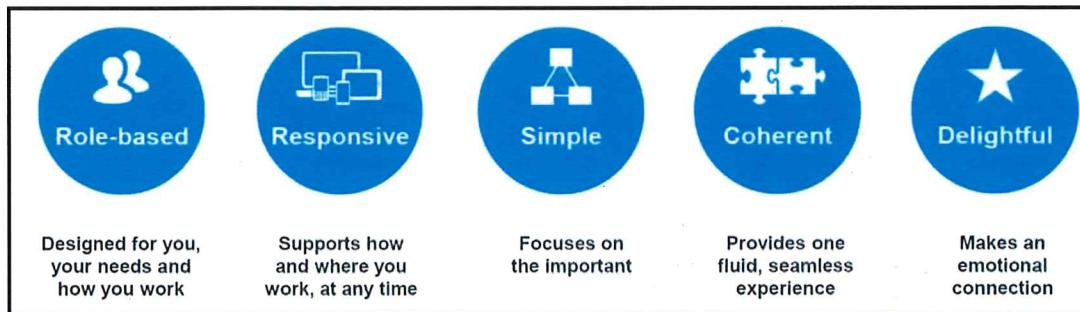
Consumer User Experience is the new standard for Enterprise Applications, via SAP Fiori we can provide immediate impact by renewing the user experience of the most broadly and frequently used SAP software functions that can be accessed from mobile and desktop devices.



SmartVU

1.1 What is SAP Fiori

- SAP Fiori is the new user experience (UX) for SAP software.
- It applies modern design principles for a completely reimagined user experience.
- SAP Fiori UX is the new face of SAP to business users in all lines of business across devices and deployment options.
- It provides optimal usability for simplified business interactions and ease of use.



- Which standard Fiori Applications that are available can be found here:
<https://fioriappslibrary.hana.ondemand.com/sap/fi/externalViewer/#/detailInfo>

2 Project request

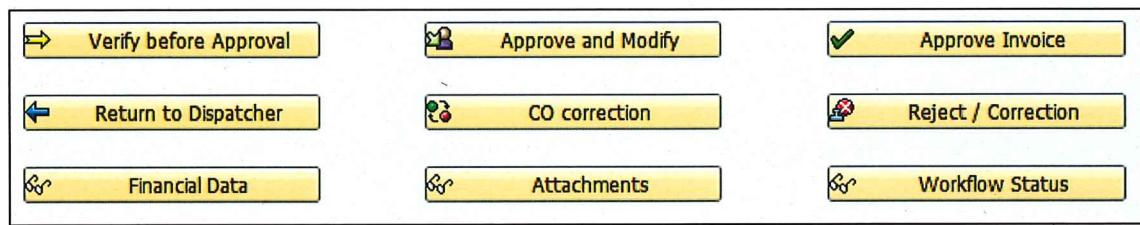
2.1 General

As a result of some short discussion about the current invoice approval process at RTL Group, Delaware Consulting was asked to propose the creation of a custom Invoice Approval Fiori application.

If somebody wants to approve an invoice at this moment, they have to login to the SAP GUI, navigate to their inbox, find the correct invoice and chose of the many options displayed in the second image below.



be connected to the lan/WAN
expensive vpn / rsa key solution
CITRIX → SAP PORTAL



The need to have this web-enabled arose so SAP Fiori was chosen as a possible solution which comes with many advantages:

- Time gain
- Free from location
- Increase in efficiency
- Faster access to information, resulting in faster business decisions
- Simplification of process
- ..

RTL Group has a potential migration to SAP HANA planned, which would allow them to make use of some standard Fiori applications, but these will not be applicable for the complex approval process in place.

Part of the reason for the proposal request is that this Fiori application can be written and used on the current SAP landscape (gateway has to be validated).

The app will have limited functionalities, which are described in the next chapter, and might be co-developed with the RTL Group internal SAP developers.

This will depend on which of the following development tracks will be chosen:

- App development at Delaware Consulting Belgium with basic technical documentation and roll-out documentation
- App development at Delaware Consulting Belgium with training documentation and roll-out documentation
- App development at RTL Group Luxembourg with basic technical documentation and roll-out documentation

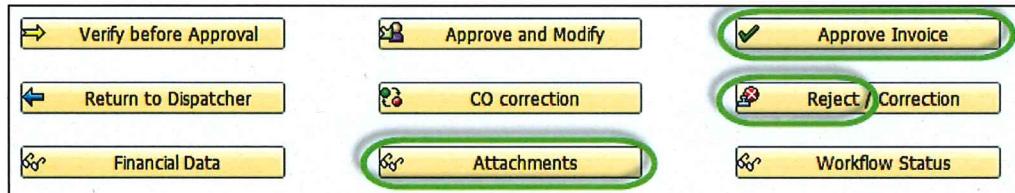
Note:

"App development at Delaware Consulting Belgium" means that the development works will be executed in Belgium, at Delaware Consulting, but on a remotely accessible RTL Group SAP Gateway and SAP ECC system.

2.2 Fiori application scope

It will be limited to a number of currently available functionalities in SAP GUI, since we want to keep this light weight.

The functionalities indicated with a green circle, together with the display of some basic data, will be implemented.



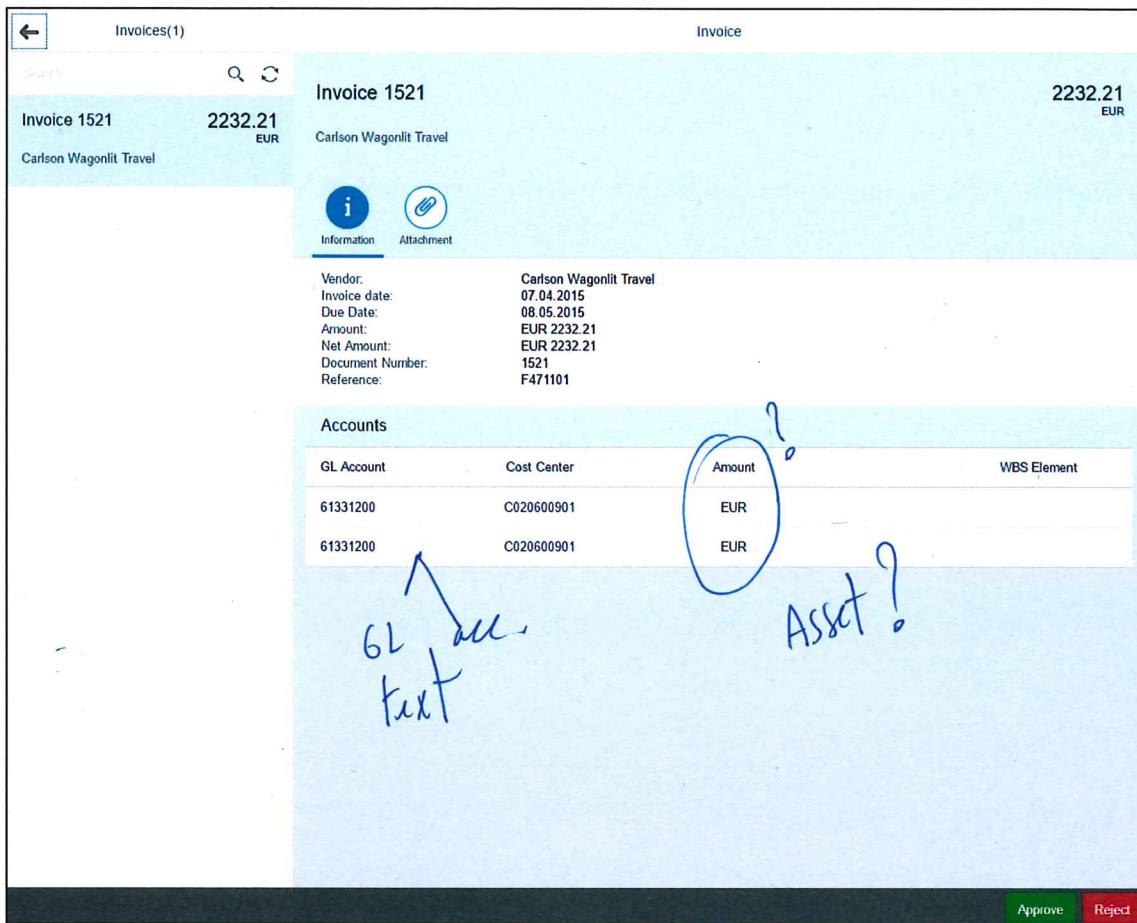
- Display basic header data
- Display basic line items data
- Approve Invoice
 - Possible comment
- Reject Invoice
 - Mandatory comment
- View attachments

To be more explicit

! names .

In addition to this we will implement the Fiori application in the Fiori Launchpad and setup the security configuration (SAP roles), together with the responsive design.

2.3 Fiori application design



Invoices(1) Invoice

Invoice 1521 2232.21 EUR
Carlson Wagonlit Travel

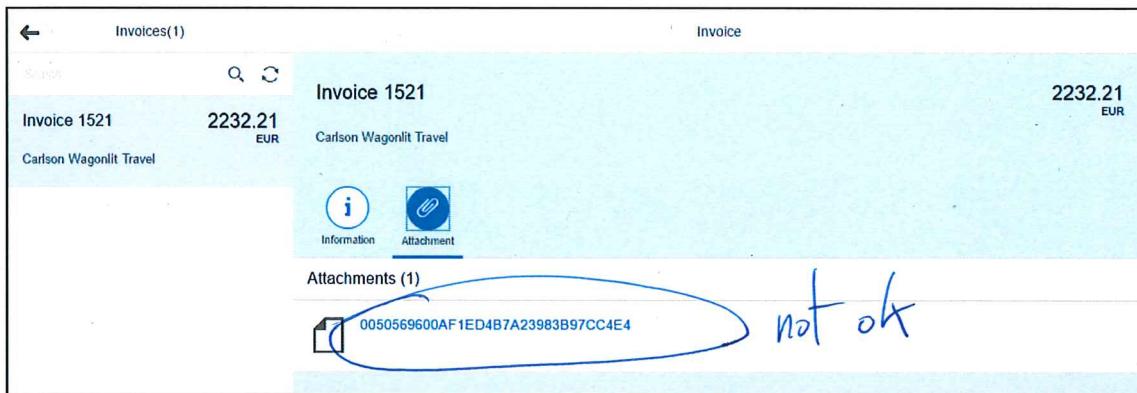
Information Attachment

Vendor:	Carlson Wagonlit Travel		
Invoice date:	07.04.2015		
Due Date:	08.05.2015		
Amount:	EUR 2232.21		
Net Amount:	EUR 2232.21		
Document Number:	1521		
Reference:	F471101		
Accounts			
GL Account	Cost Center	Amount	WBS Element
61331200	C020600901	EUR	
61331200	C020600901	EUR	

Approve Reject

Left side a list of invoices to be approved, complete with an in app, on the fly search options that will check the content of the left column.

Two tab pages, one for general header information, with potential item information, and one for an attachment list where you can open de PDF on your mobile devices by clicking the link.



Invoices(1) Invoice

Invoice 1521 2232.21 EUR
Carlson Wagonlit Travel

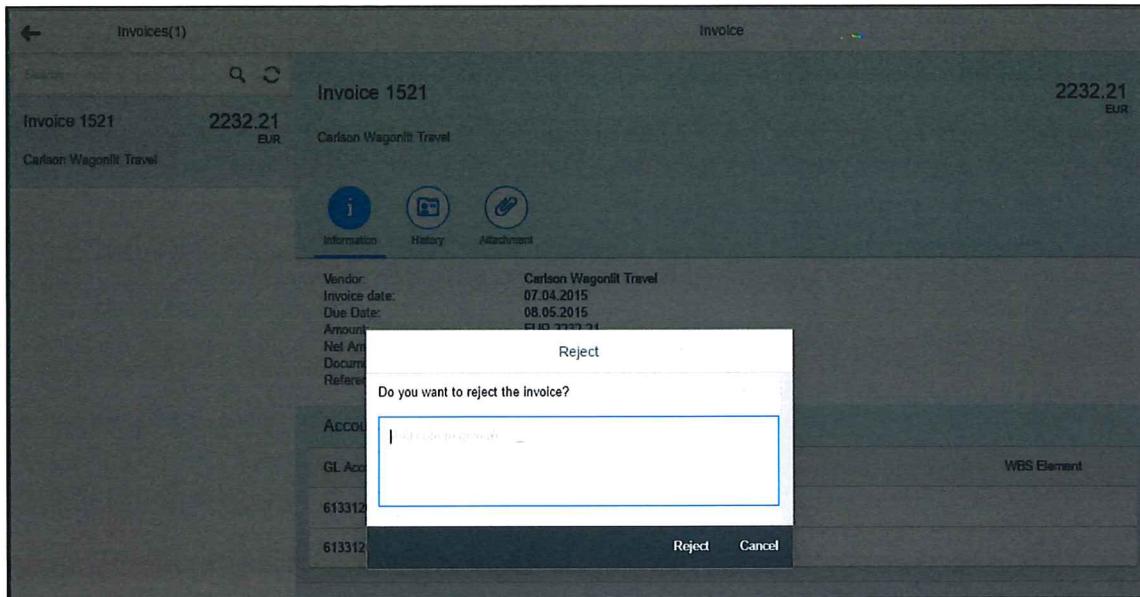
Information Attachment

Attachments (1)

0050569600AF1ED4B7A23983B97CC4E4

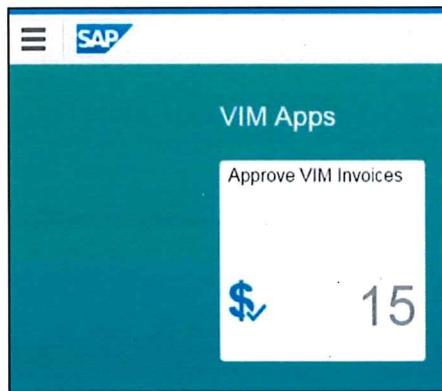
not ok

Two buttons at the bottom, one for approval and one for rejection.



A pop-up screen where you can enter a comment for approval and where you have to enter a comment when rejecting.

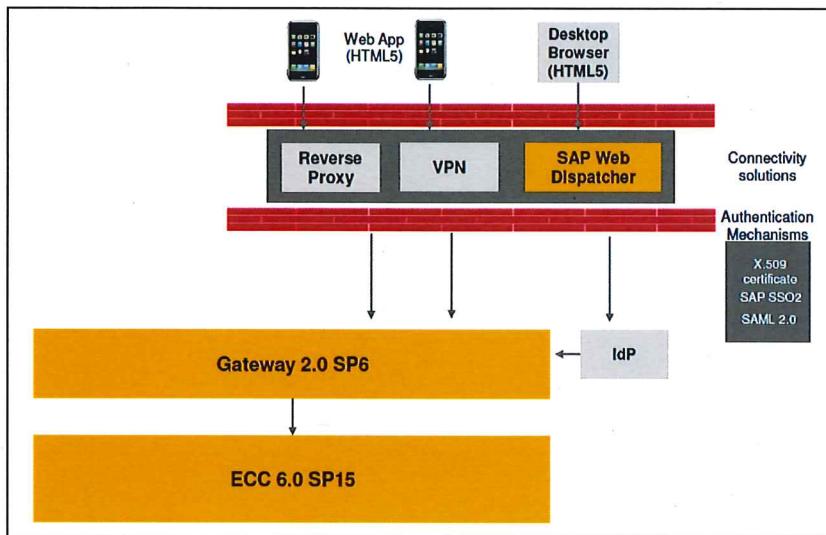
2.4 Fiori Launchpad integration



3 Architecture

3.1 Web Dispatcher

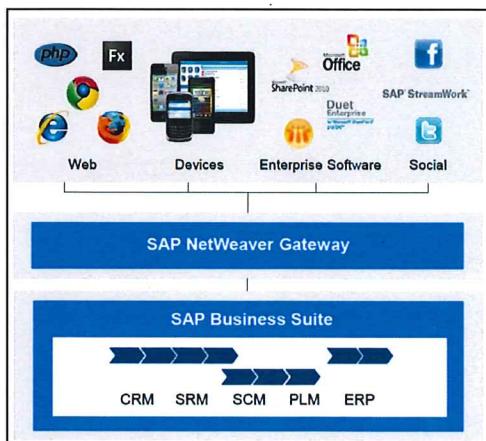
In order to secure your gateway and backend system from external traffic you need to implement a web dispatcher into the SAP landscape. This will allow you to navigate to a development, quality or production system, based on a port.



Delaware can also provide this installation and configuration.

3.2 SAP NetWeaver Gateway

SAP NetWeaver Gateway is the integration layer between the mobile Application and the SAP backend system.



It is based on the OData protocol which is a REST based open web protocol for sharing data in a standardized format for easy consumption by other systems. It uses well known web technologies like HTTP, Atom Publishing protocol and JSON.

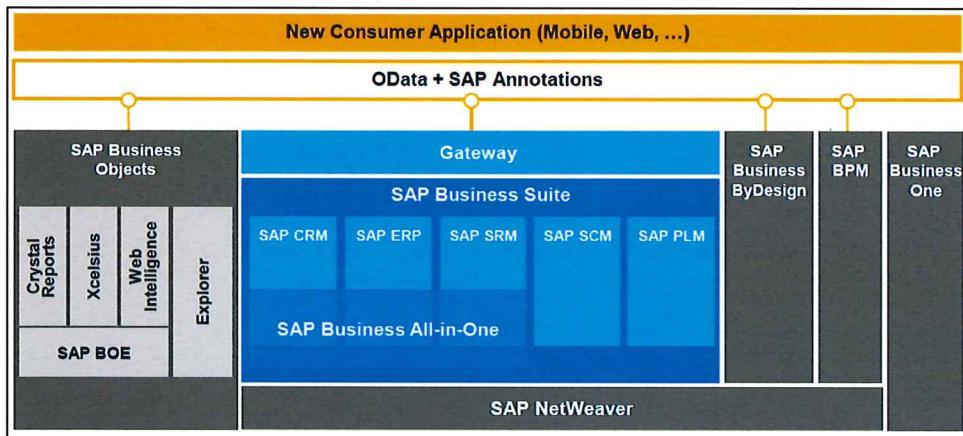
OData provides an entire query language directly in the URL. Having a query language in the URL basically means that by changing the URL, the data returned from an OData feed (endpoint) also changes. Being able to control what data you get back from the consumer side means that the OData feed has complete control over what parts of the content to use.

OData also offer more than just exposing content, it offers full CRUD support by using the different HTTP methods:

- GET: Gets one or many entries.
- POST: Create a new entry.
- PUT: Update an existing entry
- DELETE: Remove an entry.



The basic idea is to make it easy to break down the data silos and let content increase its value by making it available for web technologies.

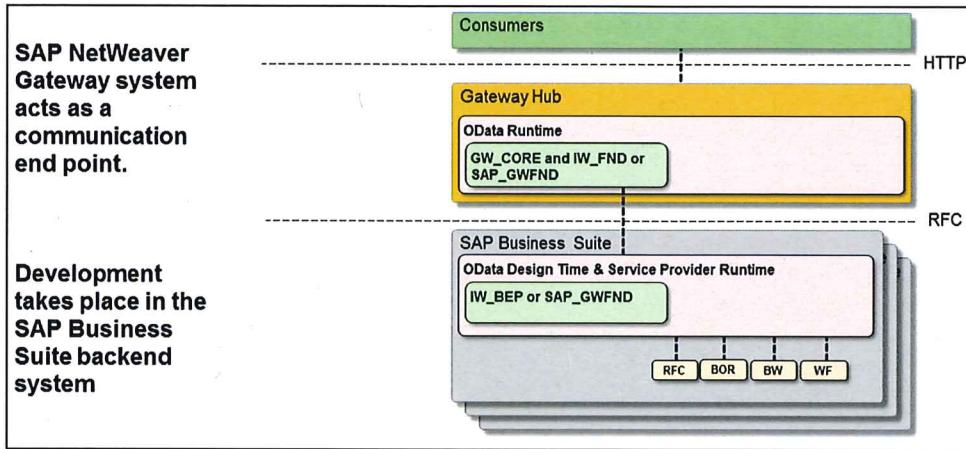


SAP NetWeaver Gateway is SAP Best Practices when it comes to exposing SAP data to an external application or platform.

3.3 SAP NetWeaver Gateway deployment

The SAP best practice in SAP Gateway server deployment is the HUB with development in the backend.

In this scenario all NetWeaver Gateway components are deployed on a separate instance and the development of the NetWeaver Gateway services are also performed on the SAP backend:



Pro's:

- Routing and composition of multiple backend 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).
- 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.

Con's:

- Additional server needed for NetWeaver Gateway.

4 Prerequisites

In order for this proposal to be valid, the following prerequisites and constraints should be taken into account.

- The backend processing does not need to be completely written, reusable function modules or classes are in place that can be used for functions such as approve and reject. Meaning any special flow that needs to be taken into account is written in a reusable way and is easily integrated in the new custom code.
 - The content server with the attachments is publically accessible, otherwise opening attachments won't be possible in the Fiori application.
 - SAP Gateway 2.0 already installed is at least a 7.40 NetWeaver installation.
 - When development is done at Delaware Consulting, both the ECC and Gateway server should be remotely accessible.
 - An RTL Group resource with expert functional & technical knowledge of the RTL Group invoice approval flow will be available during the course of the developments.

1) More precise
2) ✓
3) ✓

5 Budget

We are proposing to do this at a fixed price depending on the chosen development formula.

This budget proposal is only valid if all the prerequisites have been fulfilled.

The budget will contain the following topics:

- Installation SAP Web Dispatcher & Validation + installation Gateway server (and potential SAP_UI patching)
- Fiori app development
 - Backend ABAP coding
 - SAP Gateway development
 - SAPUI5 development
- Technical ~~rollout~~ documentation and or technical (training) documentation
- Potential on the project RTL Group SAP development resource training
- Go-live support
- Project Management

| done
already
may be
checked
very likely

5.1 App development

5.1.1 Solution one

This solution contains the following deliverables:

- App development at Delaware Consulting Belgium
- Basic technical documentation
- Roll-out documentation
- Integration in SAP Fiori Launchpad
- Go-live support

Days	Rate	Total
2 (BE)	€ 1 100,00 (PM)	€ 2 200,00
20 (BE)	€ 950,00 (Senior)	€ 19 000,00
Total		€ 21 200,00

Constraints

No offline functionality.

Gateway server approved.

5.1.2 Solution two

This solution contains the following deliverables:

- **App development at Delaware Consulting Belgium**
- **Technical training documentation**
- Roll-out documentation
- Integration in SAP Fiori Launchpad
- Go-live support

Days	Rate	Total
2 (BE)	€ 1 100,00 (PM)	€ 2 200,00
22 (BE)	€ 950,00 (Senior)	€ 20 900,00
Total		€ 23 100,00

Constraints

No offline functionality.

Gateway server approved.

5.1.3 Solution three

This solution contains the following deliverables:

- **App development at RTL Group Luxemburg and on the project training of RTL resources**
- **Technical training documentation**
- Roll-out documentation
- Integration in SAP Fiori Launchpad
- Go-live support

Days	Rate	Total
2 (BE)	€ 1 100,00 (PM)	€ 2 200,00
26 (BE)	€ 950,00 (PM)	€ 24 700,00
Total		€ 26 900,00 + Travel Expenses



Constraints

No offline functionality.

Gateway server approved.

5.2 Functional coverage

The senior or expert technical Delaware consultant will combine strengths with the RTL Group invoice approval expert so no additional functional budget is required here.

5.3 Infrastructure setup

For the infrastructure budget we will set the following deliverables:

- Installation SAP Web Dispatcher in DMZ (DEV – QAS – PRD)
- Validation SAP Gateway (DEV) & SAP_UI component patching
- Installation SAP Gateway (QAS – PRD)
- Technical documentation
- Go-live support

Days	Rate	Total
4 (BE)	€ 950,00 (Senior)	€ 3 800,00
Total		€ 3 800,00

Constraints

The hardware is available.

Single-Sign-On is not included.



5.4 Overview

Topic		Price
Development Offer	Solution One	€ 21 200,00
or	Solution Two	€ 23 100,00
or	Solution Three	€ 26 900,00 + Travel Expenses
Plus		
Infrastructure Offer		€ 3 800,00