



Update on the SAP GUI Family

Q1/2018

PUBLIC



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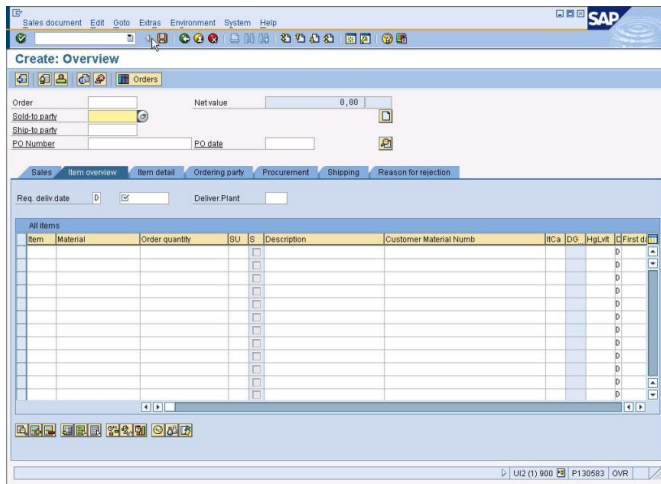
Agenda

- **What is the SAP GUI Family**
- SAP GUI for Windows
- SAP GUI for HTML
- SAP GUI for Java
- SAP GUI and SAP Business Client in S/4HANA
- SAP Screen Personas 3.0

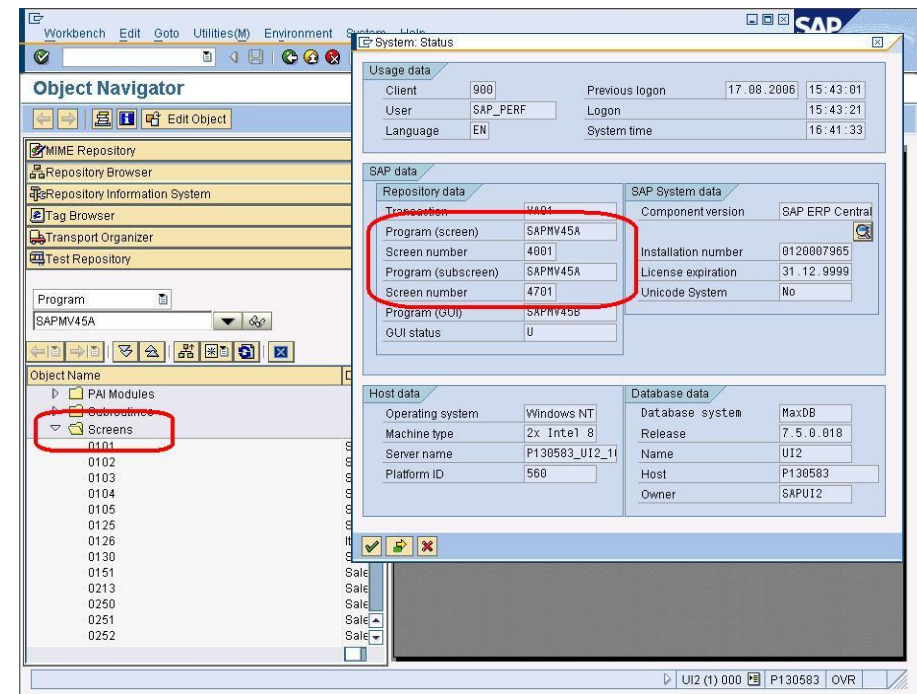
Technologies Covered in This Presentation

This presentation is about the Dynpro-based front end technologies.

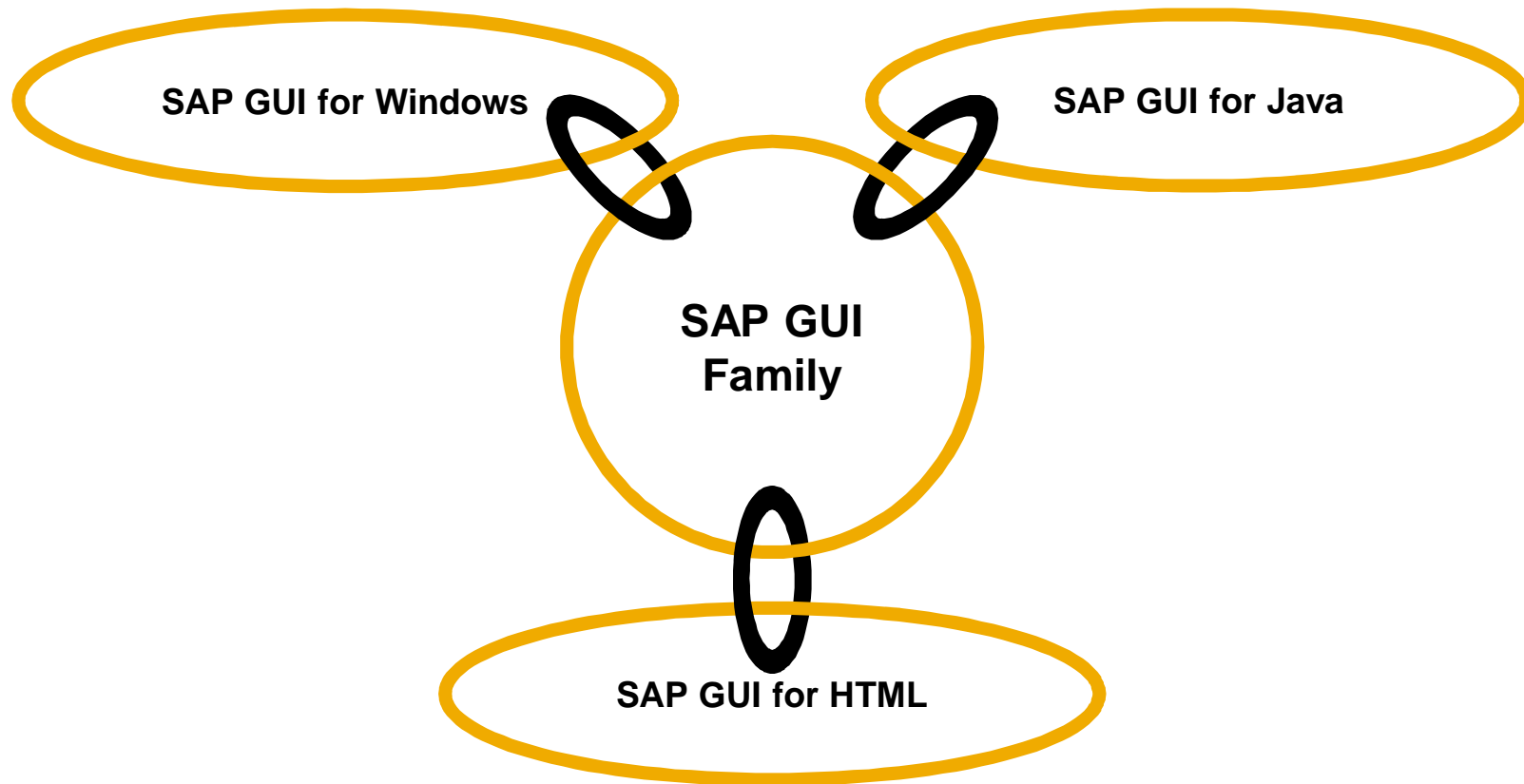
Dynpro is the abbreviation for
DYNamic PROgram



In English DYNPROS are
Usually called screens



The members of the SAP GUI Family



The Fundamentals of the SAP GUI Family

Separation of user interface and SAP system

- Changes in the GUI do not affect business rules and logic
- Business data reside in the back end system

Why are there multiple GUIs for the same applications?

- Different client operating systems (Windows, Linux, ...)
- Different user experience (power user, plant worker, ...)
- Different tasks (developer, clerk, worker, ...)
- Different environments (standalone client, portal integration, ...)

Best fit into the existing infrastructure

- Low or high bandwidth available
- Use of terminal servers possible
- Available for all supported back end releases

SAP GUI for Windows

The screenshot displays the SAP GUI for Windows interface for the 'Create Rush Order - Overview' screen. The top navigation bar includes the SAP logo and the title 'Create Rush Order - Overview'. Below the navigation bar, there are several tabs: 'Display', 'Propose Items', 'Header Output Preview', 'Reject Document', 'Loading Units and Aggregation Categories', and 'More'. The main area contains various input fields for order details, including 'Rush Order', 'Sold-To Party', 'Ship-To Party', 'Cust. Reference', 'Net Value', 'Cust. Ref. Date', 'Deliver Plant', 'Total Weight', 'Volume', 'Pricing Date', 'Pyt Terms', 'Inco. Version', 'Incoterms', and 'Inco. Location1'. A table at the bottom is titled 'All Items' and has columns for 'Item', 'Material', 'Req. Segment', 'Sea...', 'Collect...', 'Theme', 'Order Quantity', 'Un', 'S', and 'I'. The 'Item' column has a search icon, and the 'Material' column has a search icon. The 'Req. Segment' column has a search icon. The 'Sea...' column has a search icon. The 'Collect...' column has a search icon. The 'Theme' column has a search icon. The 'Order Quantity' column has a search icon. The 'Un' column has a search icon. The 'S' column has a search icon. The 'I' column has a search icon. The bottom right corner has 'Save' and 'Cancel' buttons.

SAP GUI for Windows - Create Rush Order - Overview

Navigation: Display, Propose Items, Header Output Preview, Reject Document, Loading Units and Aggregation Categories, More, Exit

Fields:

- Rush Order: []
- Sold-To Party: AN_BP_0001
- Ship-To Party: AN_BP_0001
- Cust. Reference: 1
- Net Value: 0.00 EUR
- Cust. Ref. Date: []
- Deliver Plant: []
- Total Weight: 0.000
- Volume: 0.000
- Pricing Date: 16.01.2018
- Pyt Terms: 0003 | 14 days 3%, 20/2%, 30 net
- Inco. Version: []
- Incoterms: EXW
- Inco. Location1: Walldorf

Navigation: Sales, Item Overview, Item Detail, Ordering Party, Procurement, Shipping, Configuration, Reason for Rejection

Table: All Items

Item	Material	Req. Segment	Sea...	Sea...	Collect...	Theme	Order Quantity	Un	S	I
[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]	[]	[]	[]

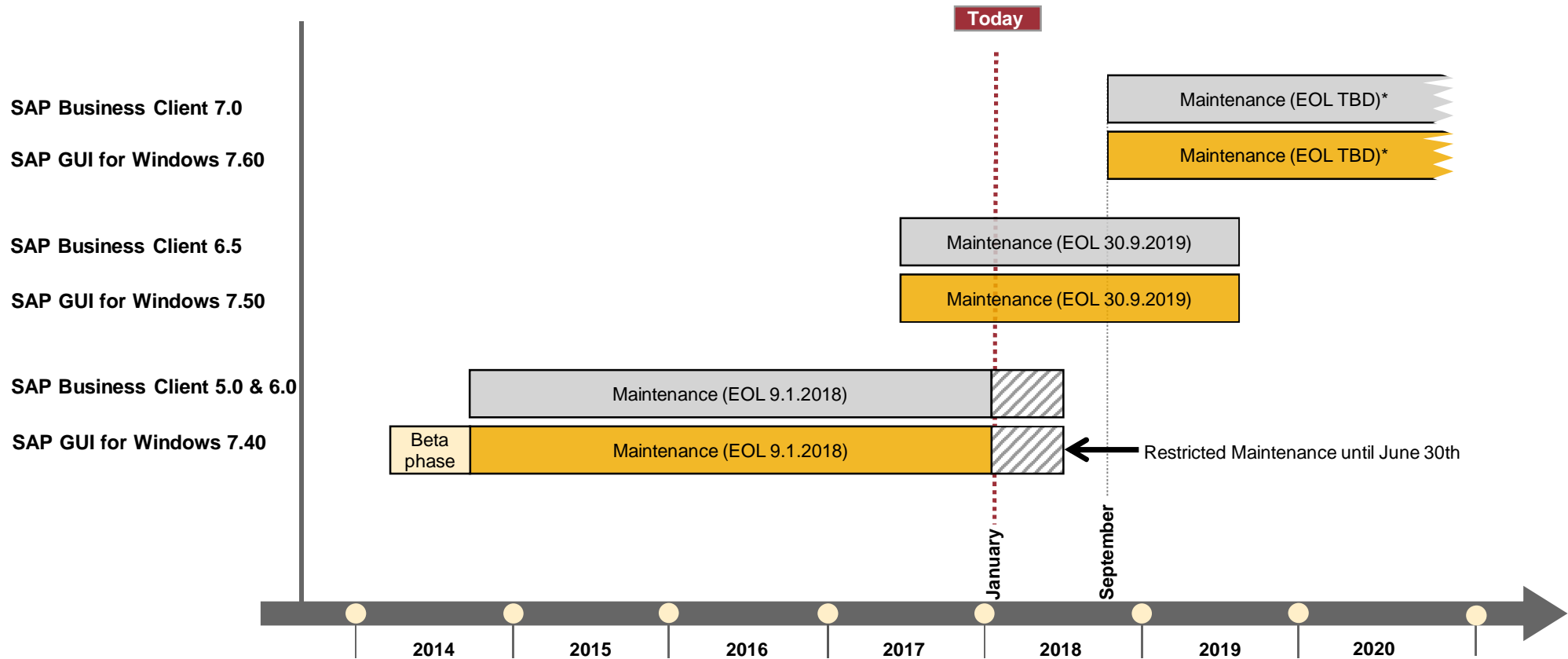
Buttons: Save, Cancel

What's new in SAP GUI for Windows 7.50

The following new features are included

- Introduction of a new visual theme called “Belize” for S/4HANA 1610 and newer releases (on premise only)
- Productive support for SAP Screen Personas 3.0 (see note 2080071 for details)
- Removal and replacement of librfc32.dll by NWRFC (see note 2256415 for details)
- Unified SAP Service Landscape is now default (see note 2107181 for details)
- The administrator rule file saprules.xml can now be stored centrally on a webserver (see note 2562697 for details)
- Blue Crystal design is the new default theme
- New Blue Crystal color themes can be set per system and client like already known from Signature design

Support timeline



Refer to [SAP Note 2302074 \(SAP Business Client\)](#) and [SAP Note 147519 \(SAP GUI for Windows\)](#) for details

**This is the current state of planning and may be changed by SAP at any time.*

Supported operating systems and Office versions

SAP GUI for Windows 7.50 is supported on

- Windows 7 (Business Editions), 32 and 64 (AMD64, EM64T) bit versions
- Windows 8.1 (Business Editions), 32 and 64 (AMD64, EM64T) bit versions
- Windows 10 (Business Editions), 32 and 64 (AMD64, EM64T) bit versions
- Windows Server 2008, 32 and 64 (AMD64, EM64T) bit versions
- Windows Server 2008 R2, 64 (AMD64, EM64T) bit version
- Windows Server 2012 and Server 2012 R2 64 (AMD, EM64T) bit versions
- Windows Server 2016 64 (AMD, EM64T) bit versions

§ Details can be found in note 66971

Microsoft Office Support

- Since SAP GUI for Windows 7.30 patch 7 we support the 64 bit version of the Microsoft Office for SAP Desktop Office Integration.
- With SAP GUI for Windows 7.40 patch 5 we support Microsoft Office 2016
- Since Microsoft Office 365 ProPlus (msi or Click2Run) installs Office 2013 or Office 2016 it is also supported in the same way.

§ Details can be found in note 722513

SAP GUI for HTML

The screenshot displays the SAP GUI for HTML interface for creating a delivery order (Terminauftrag anlegen). The browser address bar shows the URL: <https://sap/bc/gui/sap/its/webgui/?sap-client=003&sap-language=de#>.

Terminauftrag anlegen: Übersicht

Navigation: Anzeigen | Positionen vorschlagen | Vorschau für Kopfnachricht | Beleg ablehnen | Ladeeinheiten & Summenkategorien | Mehr | Beenden

Form fields:

- Terminauftrag:
- Nettowert:
- Auftraggeber:
- Warenempfänger:
- Kundenreferenz:
- Kundenref.datum:

Tabbed menu: Verkauf | **Positionsübersicht** | Positionsdetail | Besteller | Beschaffung | Versand | Konfiguration | Absagegrund

Form fields (continued):

- * Wunschlieferdatum:
- Auslieferwerk:
- Komplettlief.: ☐
- Gesamtgewicht:
- Liefersperre:
- Volumen:
- Fakturasperre:
- Preisdatum:
- Zahlungsbeding.:
- Inco/Version:
- Inco/terms:
- Inco. Standort:

Buttons:

Table: Alle Positionen

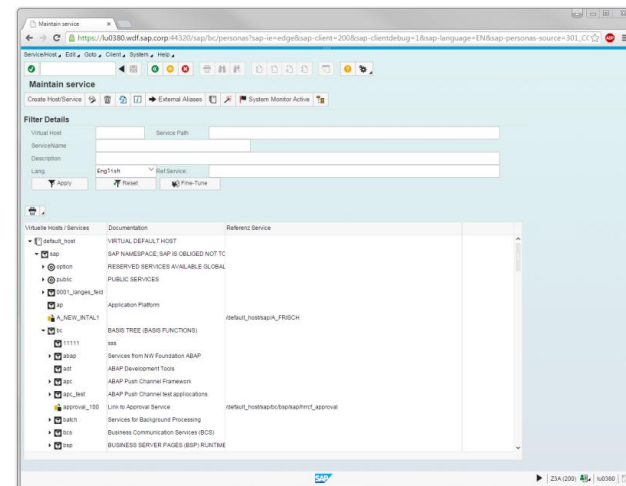
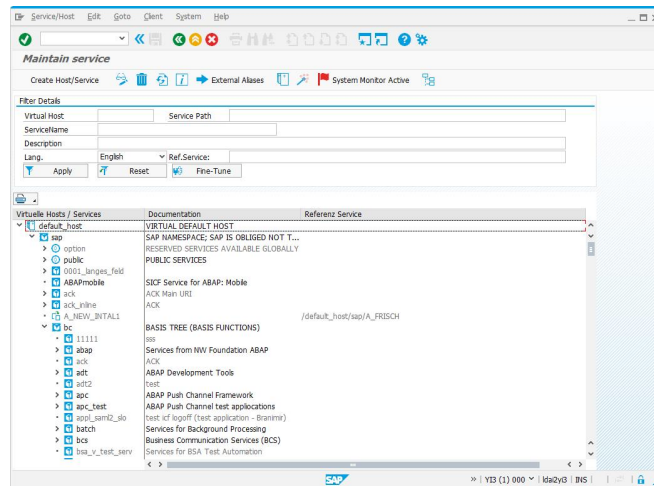
Pos	Material	Bedarfssegment	Sal...	Sal...	Kollek...	Thema	Auftragsmenge	ME	E	Positionsbezeichnung	Kundenmaterialnummer
<input type="checkbox"/>											
<input type="checkbox"/>											
<input type="checkbox"/>											

Buttons:

What is the SAP GUI for HTML?

The SAP GUI for HTML is an application running on the SAP Internet Transaction Server (ITS)

- It extends the reach of SAP systems into the web
- It generically maps SAP Dynpro-based screens to HTML
- It has zero footprint on the client PC
- Drives transactions within the SAP system
- Can be used with all SAP releases currently supported



What do I need to get it

Good news, everyone!

- Virtually nothing. It's already in your ABAP system
- HTTP infrastructure must be activated (ICM, ICF)
- Webgui service must be activated (TA: SICF)
- And we require a few technical services (see note 2213657 for details)

However

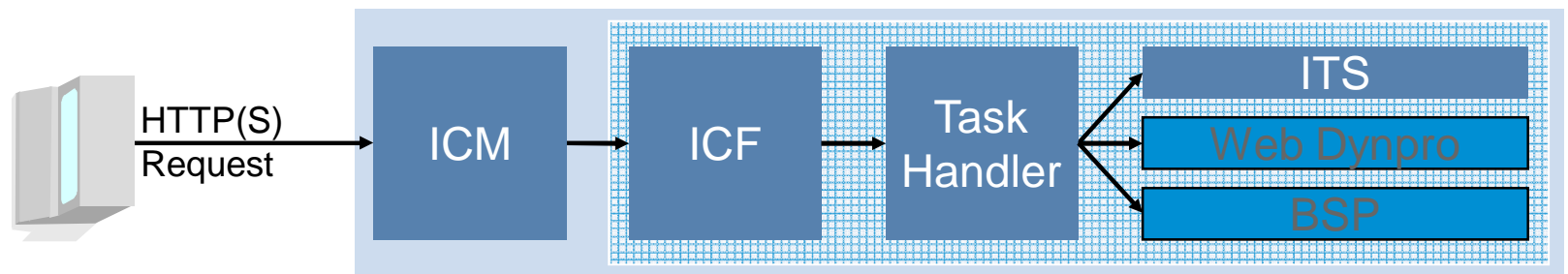
- If you have more than one application server you need some kind of Load-Balancing device
 - You can either use the SAP Web Dispatcher
 - Or any other HTTP Load-Balancer

Which Version of SAP GUI for HTML do I have?

- Most of ITS and SAP GUI for HTML is part of the ABAP Kernel
- The version of your ABAP Kernel is also the version of ITS / SAP GUI for HTML

How does it work?

- You start the “Webgui” service just like any other SAP web service
- Default URL: `http(s)://host.domain/sap/bc/gui/sap/its/webgui`
- ICM is executing the responsible ICF node
- ICF calls the ITS handler
- ITS executes the called Dynpro screen and hands over the response to SAP GUI for HTML
- SAP GUI for HTML creates the HTML code needed to paint the screen in the browser and passes that code all the way back to ICF / ICM
- Browser paints the HTML page created by SAP GUI for HTML



SAP GUI for HTML: Client platforms

§ Internet Explorer on Windows

- Internet Explorer (by Microsoft supported versions only)

Microsoft Edge

- See note 2345137 for requirements

§ Mozilla Firefox

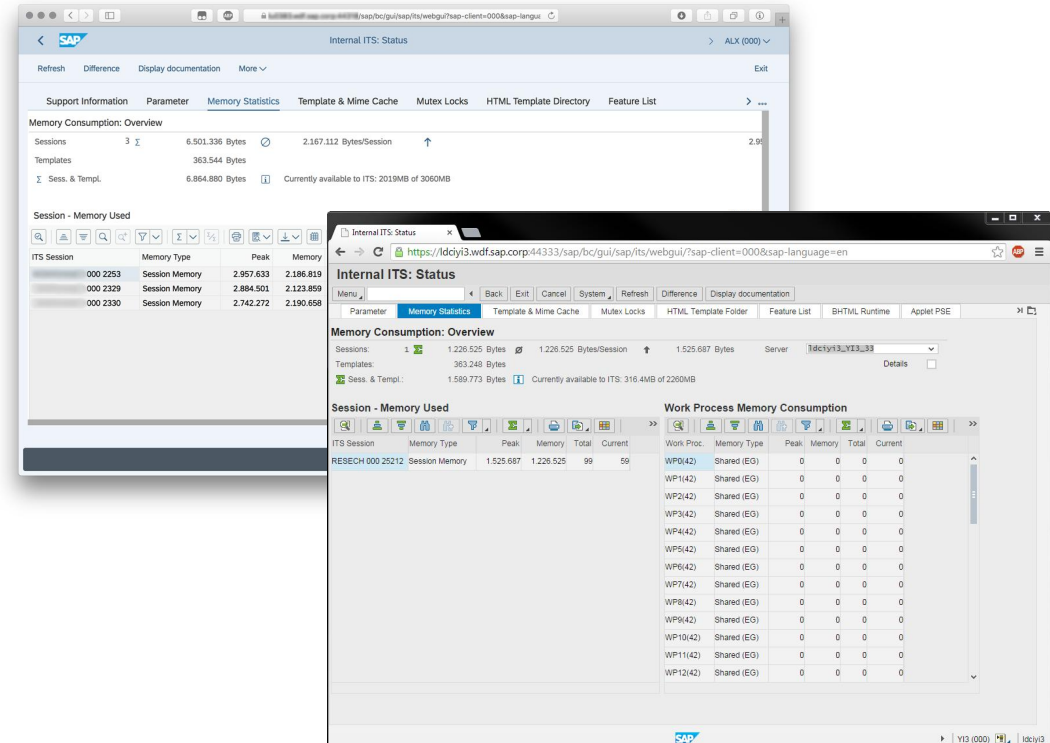
- Supported version see note 990034
- Windows; Linux; OS X

§ Safari

- OS X (by Apple supported versions only)

§ Google Chrome

- Current version on Windows



For details please check the Platform Availability Matrix: <http://service.sap.com/pam>

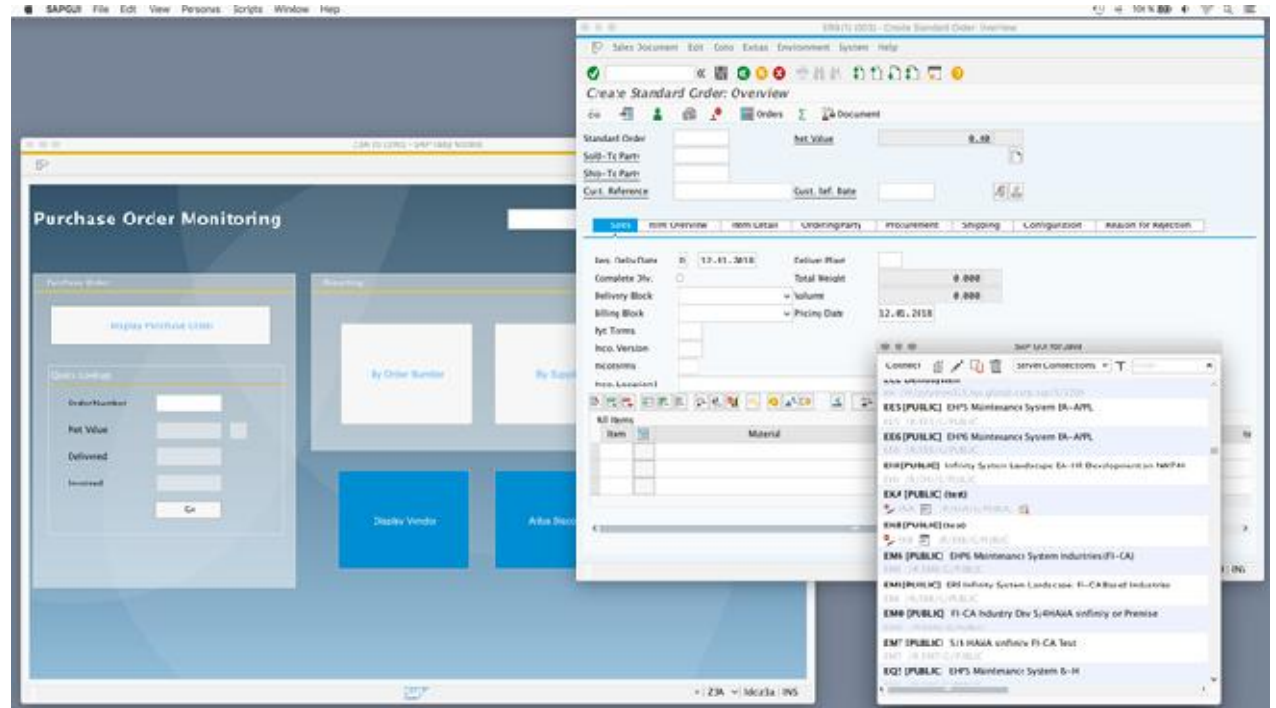
Limitations of the SAP GUI for HTML

Because of the technical attributes of HTML or the Web Browser, the use of SAP GUI for HTML is somewhat restricted as compared to the use of a GUI, which works on operating system level.

- The controlling of an OLE automation server is not possible
- Keyboard navigation is limited as known from other web applications
- Office integration is view only
- It does not support multiple sessions. If you need multiple sessions you have to do multiple logins.
- Some controls (like the advanced ABAP Editor Control) in SAP GUI for Windows used for special purposes are not available in SAP GUI for HTML
- To see if a transaction is supported for use with SAP GUI for HTML check in transaction SE93
- Anyway most of the transactions work perfectly

§ For detailed information see note 314568

SAP GUI for Java



What is the SAP GUI for Java?

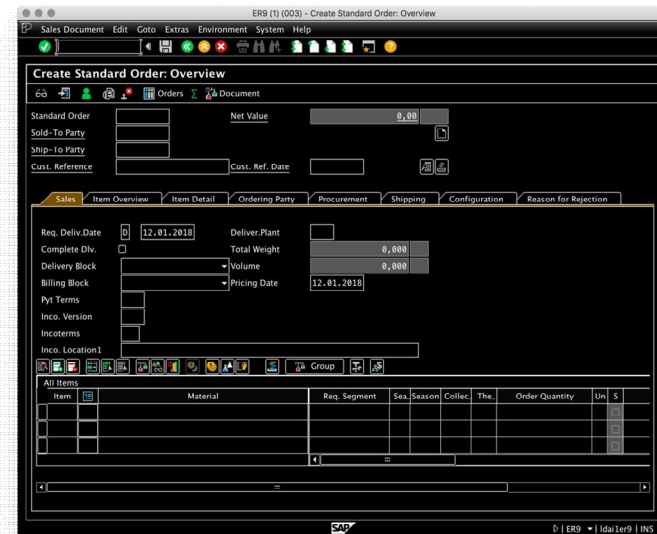
The SAP GUI for Java is unified SAP front end running on Linux, OS X and Windows

- The technology behind is a combination of Java and C/C++ running with the same codebase on all platforms
- All rendering is done in Java using Swing and JavaFX components to provide highly portable and consistent functionality on all supported platforms
- The corresponding components of the standard ActiveX controls used in SAP GUI for Windows are reimplemented as JavaBeans
- Already existing C/C++ libraries on the respective platforms are used for functions such as network communication, protocol handling or RFC
- It can be used with all SAP releases currently supported

What's new in SAP GUI for Java 7.50

The following new features are included

- Support for new OS versions
- Support for SAP Screen Personas (see note 2505697 for details)
- Color schemes for Blue Crystal Theme (per system, per client, set by backend)
- Improved High Contrast Theme



Supported operating systems

SAP GUI for Java 7.50 is supported on

- Linux Red Hat Enterprise Linux 7
- Linux Fedora 26, 27
- Linux openSuSE Leap 42.2 & 42.3, SLED 12, SLES 12
- Linux Ubuntu 16.04
- OS X 10.12 (Sierra), 10.13 (High Sierra)
- Windows 7 (Business Versions, 32 & 64 bit)
- Windows 8.1 (Business Versions, 32 & 64 bit)
- Windows 10 (Business Versions, 32 & 64 bit)

§ Java 8 is required

Detailed requirements regarding supported operating systems and Java Virtual Machines for SAP GUI for Java are documented in SAP note 2511185.

Limitations of the SAP GUI for Java

Limitations compared to SAP GUI for Windows

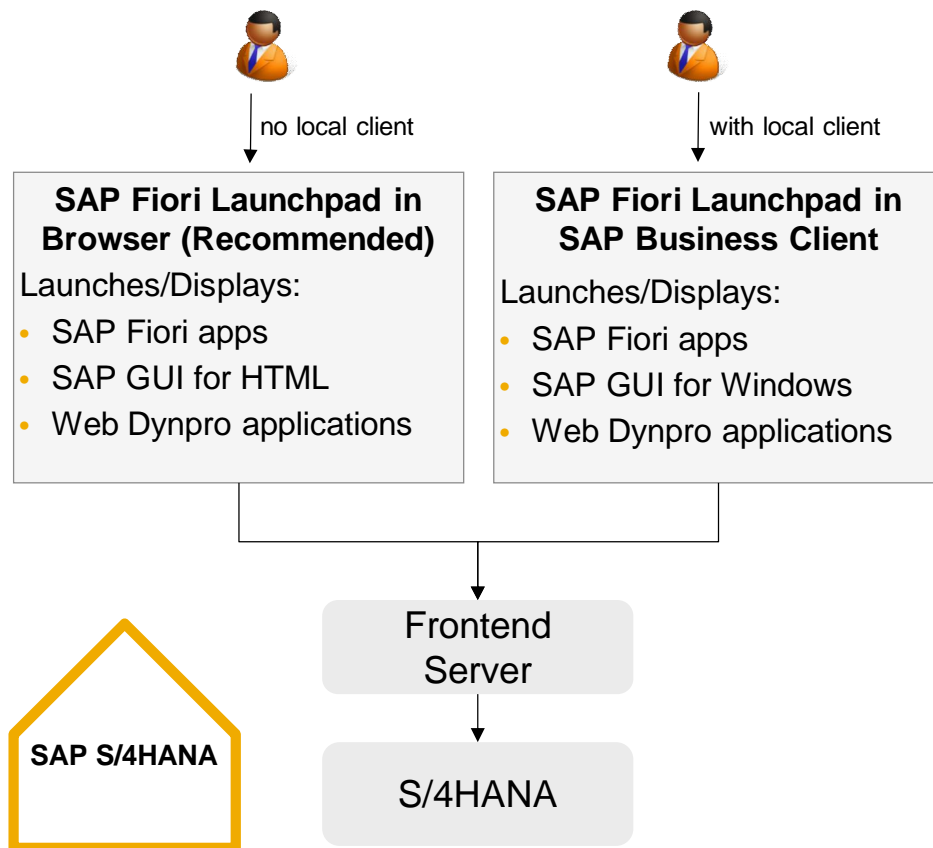
- Office integration into SAP transactions is not available
- Some GUI components like the BEx explorer are not available
 - Some controls in SAP GUI for Windows used for special purposes are not available as JavaBean in SAP GUI for Java, for example
 - SAP SmartForms
 - advanced ABAP Editor Control
- Graphical screen painter is not available
- To see if a transaction is supported for use with SAP GUI for Java check in transaction SE93
- Anyway most of the transactions work perfectly

SAP GUI and SAP Business Client in S/4HANA

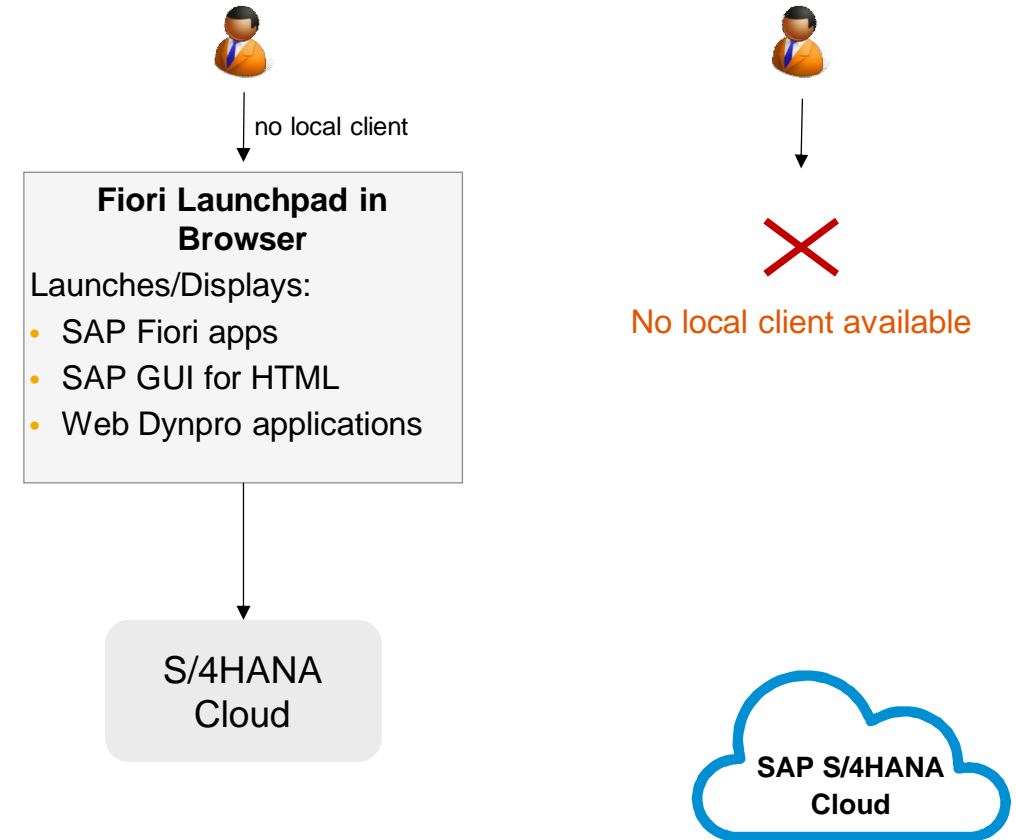


Client Options for SAP S/4HANA

SAP S/4HANA



SAP S/4HANA Cloud



This is the current state of planning and may be changed by SAP at any time.

Old theme and new SAP Fiori Visual Theme - side by side

Sales Document Edit Goto Extras Environment System Help

Change Standard Order 29851: Overview

Standard Order: 29851 Net Value: 3,067.50 USD

Sold-To Party: C0016 Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

Ship-To Party: C0016 Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

Customer Refere: Customer Ref. D: Base Values

Sales Item overview Item detail Ordering party Procurement Shipping Configuration Reason for rejection TM Status

Req. Deliv.Date: 08.04.2016 Deliver.Plant: Total Weight: 91,155 KG

Complete Div: Volume: 0,000

Billing Block: Pricing date: 08.04.2016

Card type: Exp.date:

Card Verif.Code:

Pyt Terms: 0001 Pay immediately w/o deduction

Inco. Version: Inco. Location1: CIF Inco. Location2: Order Reason: Sales Area: S001 / S1 / S1 Sales EMEA, Direct Sales, Tools

Item	Material	Se...	Se...	Colle...	Theme	Order Quantity	Un	S	Description	Customer Material Numb
10	F-09					2,000	EA	✓	Crimping Pliers	
20	F-08					5,000	EA	✓	Welder	
30	F-07					10,000	EA	✓	Orbital Sander	
40	F-06					10	CV	✓	Blade Set	
50	F-05					11,000	EA	✓	Sawblade	



SAP Change Standard Order 29851: Overview

Display Display Document Flow Status Overview Propose Items Header Output Preview Reject Document Enhanced Material Search More

Standard Order: 29851 Net Value: 3,067.50 USD

Sold-To Party: C0016 Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

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Pyt Terms: 0001 Pay immediately w/o deduction

Inco. Version: Inco. Location1: CIF Inco. Location2: Order Reason: Sales Area: S001 / S1 / S1 Sales EMEA, Direct Sales, Tools

All items

Item	Material	Se...	Se...	Colle...	Theme	Order Quantity	Un	S	Description	Customer Material
<input type="checkbox"/>	10 F-09					2,000	EA	✓	Crimping Pliers	
<input type="checkbox"/>	20 F-08					5,000	EA	✓	Welder	
<input type="checkbox"/>	30 F-07					10,000	EA	✓	Orbital Sander	
<input type="checkbox"/>	40 F-06					10	CV	✓	Blade Set	
<input type="checkbox"/>	50 F-05					11,000	EA	✓	Sawblade	

Elements of the SAP Fiori Visual Theme for Classic Applications

One visual design “Belize” for all Fiori applications: same colors, control design and form factor

Text toolbar
instead
of Icons

Right-aligned
labels

New icons

Condensed
table rows

Change Standard Order 29851: O...

Display Display Document Flow Status Overview Propose Items Header Output Preview Reject Document More Exit

Standard Order: 29851 Net Value: 3,067,50 USD

Sold-To Party: C0016 Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

Ship-To Party: C0016 Andersons and Sons / 45 45 Lispenard Street 7E / New York 10013

Customer Refere: Customer Ref. D: Z Base Values

Sales Item overview Item detail Ordering party Procurement Shipping Configuration Reason for rejection TM Status

* Requested Deliv.Date: 08.04.2016 Delivering Plant: Cancellation Date:

All items

Item	Material	Sea...	Sea...	Collec...	Theme	Order Quantity	Un	S	Description	Customer Mater
10	F-09					2,000	EA	<input checked="" type="checkbox"/>	Crimping Pliers	
20	F-08					5,000	EA	<input checked="" type="checkbox"/>	Welder	
30	F-07					10,000	EA	<input checked="" type="checkbox"/>	Orbital Sander	
40	F-06					10	CV	<input checked="" type="checkbox"/>	Blade Set	
50	F-05					11,000	EA	<input checked="" type="checkbox"/>	Sawblade	

Save Cancel

Merged Fiori header

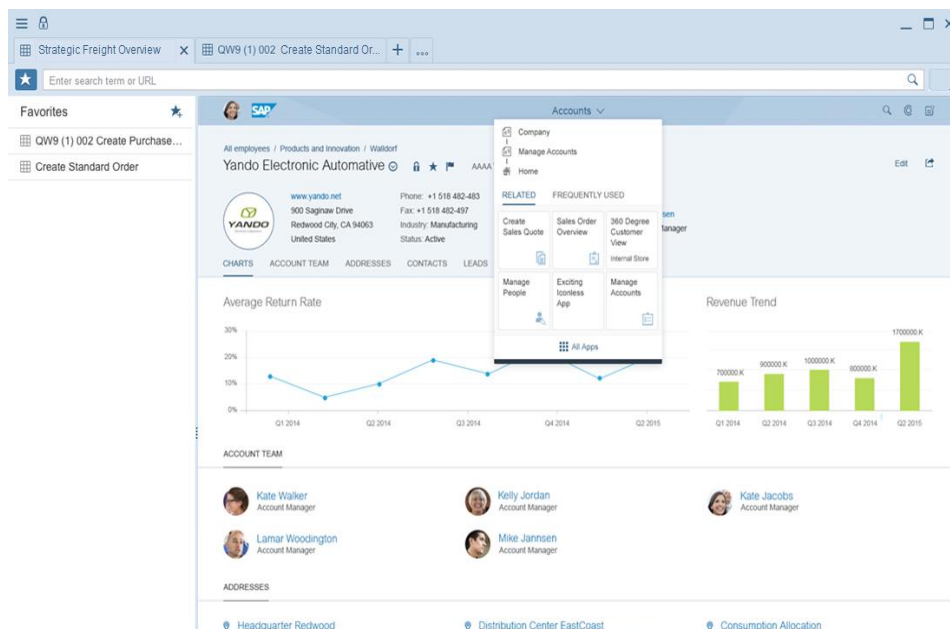
Tab strips with SAP
Fiori visualization

New footer with
processing and
closing actions,
e.g., **Save**

SAP Business Client 6.5 – Embedding Scenarios

Fiori launchpad and Fiori apps on dedicated tab

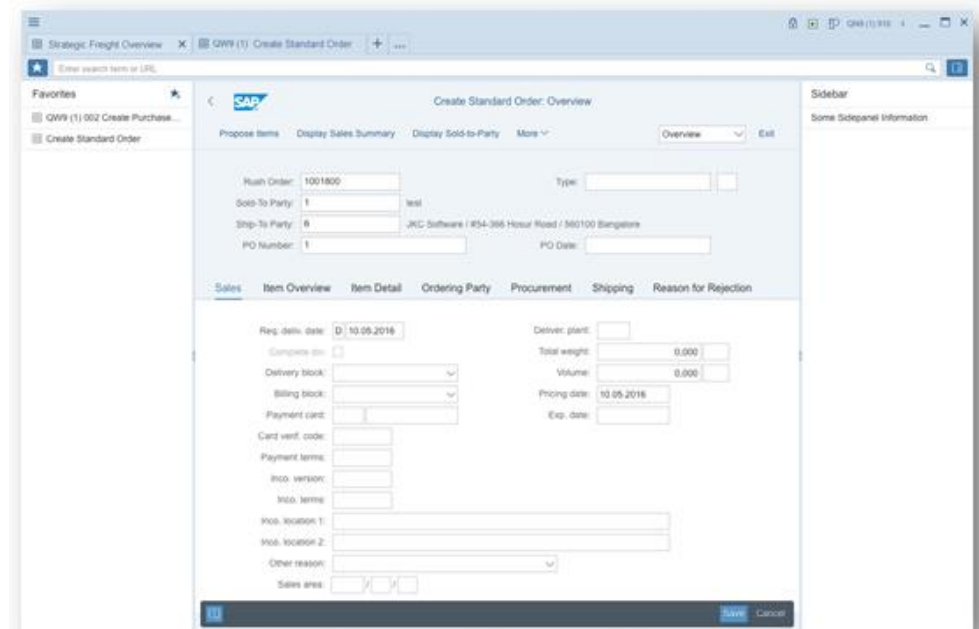
Y Full shell header including SAP Fiori Launchpad functionality (e.g. “Me” area, branding, search, etc.)



SAP GUI for Windows 7.50

Y Minimal shell header including “Back” button, branding and title

Y For other functions switch to FLP tab



Availability of the SAP Fiori Visual Theme for Classic Applications

Availability of SAP Fiori visual theme “Belize”

SAP GUI for HTML	S/4HANA 1610 / Cloud 1608
SAP GUI for Windows	SAP GUI for Windows 7.50 (*)
Web Dynpro ABAP	NetWeaver 7.51 / SAP_UI 7.51
SAP Business Client	SAP Business Client 6.5 (*)

Usage of old themes

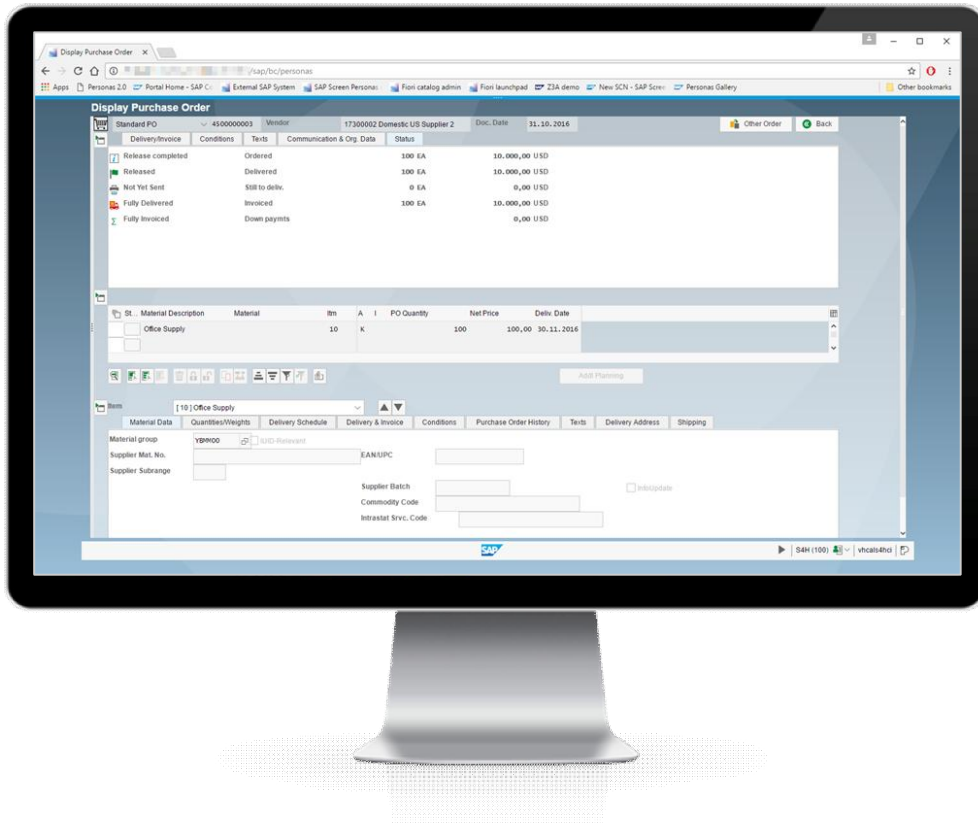
- Y Switch back to old theme possible (except SAP Fiori launchpad)
- Y All new features switched off
- Y Please note: SAP strongly recommends the use of the new SAP Fiori visual theme

(*) Belize theme only supported when connected to S/4HANA system starting with S/4HANA 1610 FPS2

SAP Screen Personas 3.0



SAP Screen Personas 3.0 improves ERP usability



Simplify SAP S/4HANA or ECC screens

- Simplify complex classic UI screens
- Match your corporate branding
- Apply Fiori design to custom transactions

Easier SAP Fiori integration

- Embed flavors into SAP Fiori launchpad
- Build Fiori designs with pre-made Fiori themes, templates, styles, icons

Built into SAP GUI for HTML

- Render in a browser
- Embed in Fiori Launchpad, Portal, NWBC
- Run screens in SAP GUI for Windows and in SAP GUI for Java

SAP Screen Personas fits into the Fiori UX vision

Cloud	LOB Cloud Apps	SOH (HEC)	S/4HANA Cloud	
	Convergence towards Fiori Design (limited)	Fiori Fiori Cloud	Fiori SAP Belize Theme SAP Screen Personas	Out-of-the-Box
	Custom Fiori (SAP CP)	SAP Screen Personas Custom Fiori	Custom Fiori (via SAP Cloud Platform)	Do-It-Yourself
On-premise	ECC	SOH	S/4HANA	
	Fiori Fiori Cloud	Fiori Fiori Cloud	Fiori SAP Belize Theme Fiori Cloud	Out-of-the-Box
	SAP Screen Personas Custom Fiori (SAP CP)	SAP Screen Personas Custom Fiori (SAP CP)	SAP Screen Personas Custom Fiori (SAP CP)	Do-It-Yourself

More information about SAP Screen Personas

Product Page	www.sapscreenpersonas.com
Getting Started resource page	https://blogs.sap.com/2014/04/25/sap-screen-personas-getting-started/
Productivity Power Play (video series)	http://videos.personas.help
SAP Screen Personas Flavor Gallery	http://link.personas.help/SAPScreenPersonasFlavorGallery
OpenSAP course	https://open.sap.com/courses/sps2
SAP Press e-book	https://www.sap-press.com/using-sap-screen-personas_3975/



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