



Contents:

- Overview on SAP Net Weaver Business Client (NWBC)
- Installing the SAP Net Weaver Business Client
- Setting up the backend system
- Personalizing SAP Net Weaver Business Client

- This chapter gives an overview of SAP NetWeaver Business Client and highlights its advantages; we will answer the question what actually defines the SAP NetWeaver Business Client and its constituent parts. We will then see how to install SAP NetWeaver Business Client on the PC . Moreover we will see how to configure a backend system so that the SAP NetWeaver Business Client works with your local backend system. Finally we will discuss the opportunities of personalization.

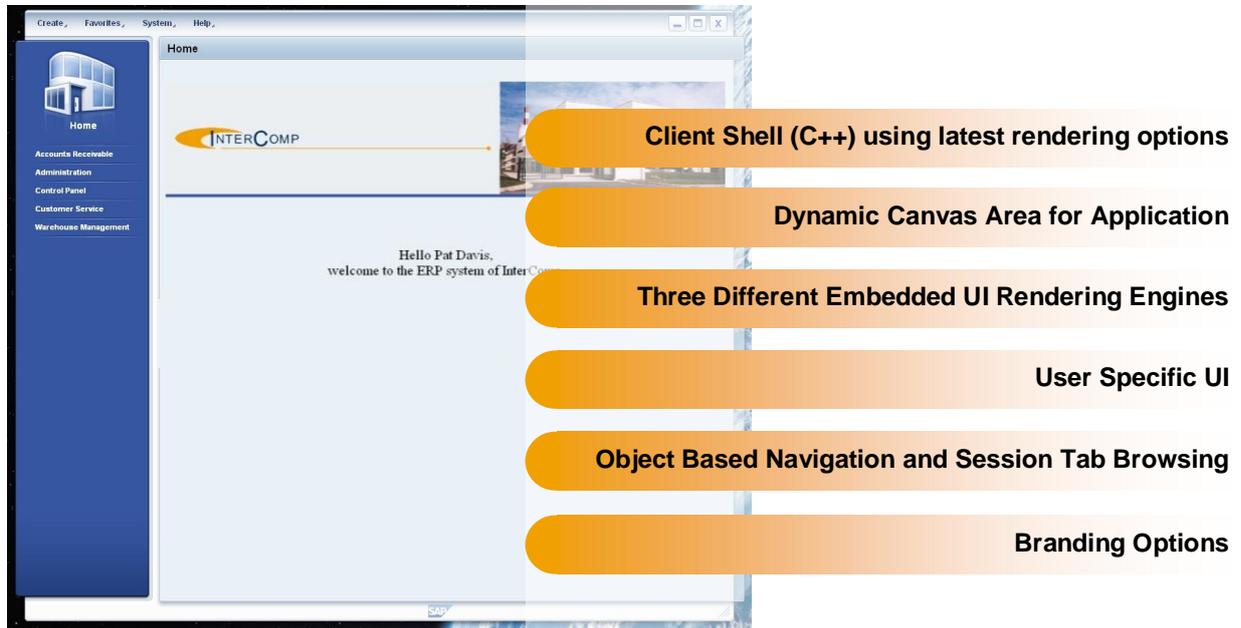


At the conclusion of this unit, you will be able to:

- Explain the SAP NetWeaver Business Client
- Describe the installation procedure of the SAP NetWeaver Business Client and its components
- Summarize the settings required to enable a backend system for the SAP NetWeaver Business Client
- Do some customer specific personalization to SAP NetWeaver Business Client

- At the end of this chapter you should be able to explain SAP NetWeaver Business Client and name the major points that constitute the client. You should be able to carry out and describe the installation process as well as to install all the essential components for the client.
- Furthermore you should be able to configure the backend system so that the SAP NetWeaver Business Client can connect to it.
- You will be enabled to carry out user as well as customer-specific/ personalization with the client.

The SAP NetWeaver Business Client – Main Features



Client Shell (C++) using latest rendering options

Dynamic Canvas Area for Application

Three Different Embedded UI Rendering Engines

User Specific UI

Object Based Navigation and Session Tab Browsing

Branding Options

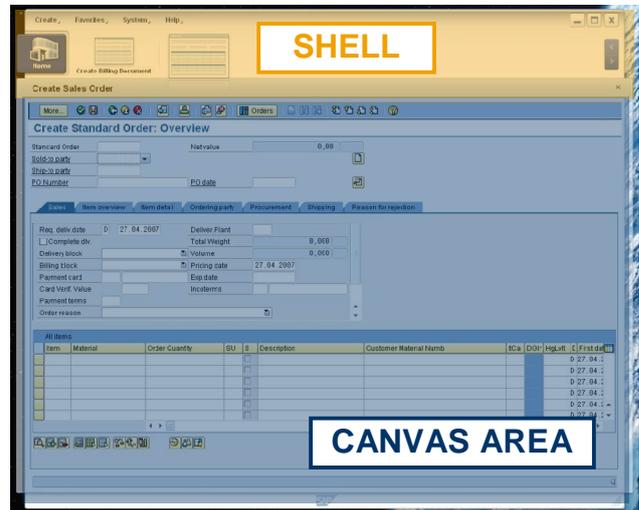
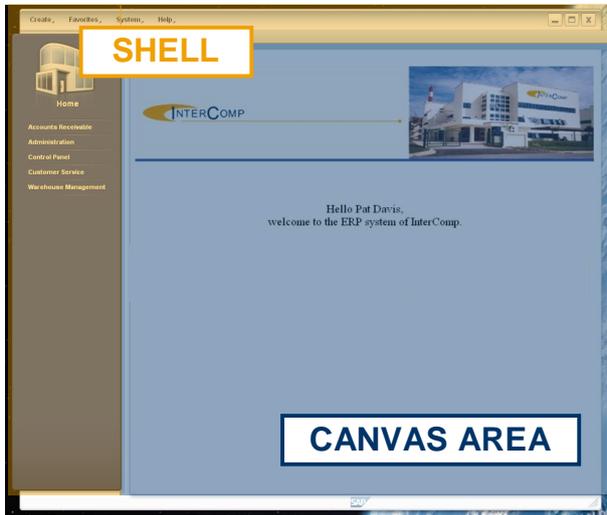
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- We will now come to essential new feature introduced within SAP All-in-One; the SAP NetWeaver Business Client.
- The SAP NetWeaver Business Client is a local client and therefore has to be installed locally on your PC.
- The client offers three different rendering engines: this means that there are various options to visualize different UI technologies in this client. This will be discussed in more detail in later slides.
- Another main feature of the client is the object-based navigation. On the basis of business objects, the client enables to simplify the navigation considerably and to reduce the number of clicks for the user.
- Additionally, the SAP NetWeaver Business Client introduces several options to personalize it and the users environment.

Shell and Canvas Area



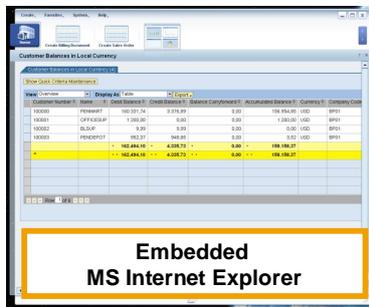
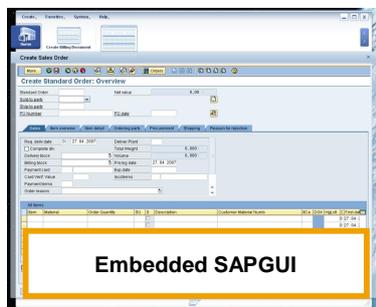
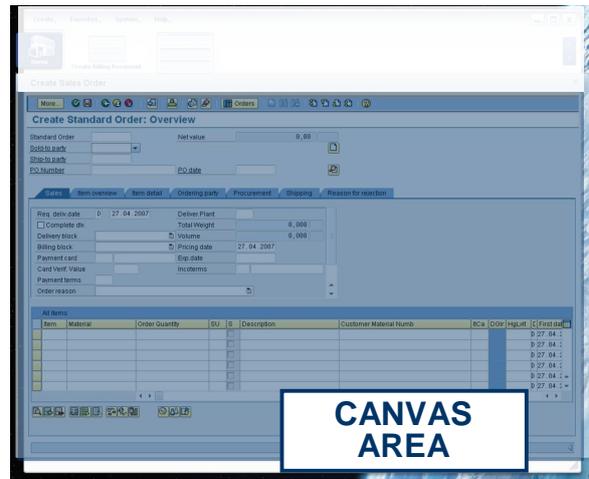
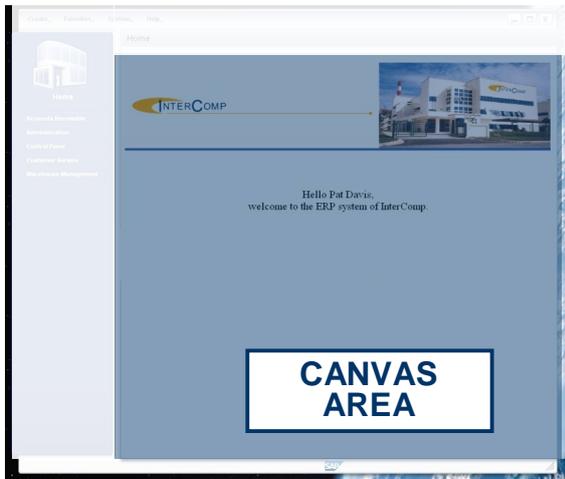
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- Focusing on the client, we have two major areas, the shell and the canvas area.
- In the shell area, the control elements of the client are integrated. This is for example displayed with the menu at the top and the navigation on the left side. Further elements of the shell are the tools to close the client or an application window.
- The second area of the client is the canvas area. In this area the application is displayed. On the left screenshot you can see that the canvas area shares the screen size with the navigation area. Consequently, space for an application is limited on horizontal space. If we started an application with a chart, it would be of much advantage for the end user to have maximum of space, especially in the horizontal position. While designing the client, exactly this was an argument to allow the navigation panel to be hidden while a application is started.
- On the right picture we can see that the canvas area increases horizontally as soon as an application is launched. Now the Shell Area is only visible at the top, the navigation bar has finally disappeared and the application area shows maximum of space on the screen.

Canvas Area in Detail



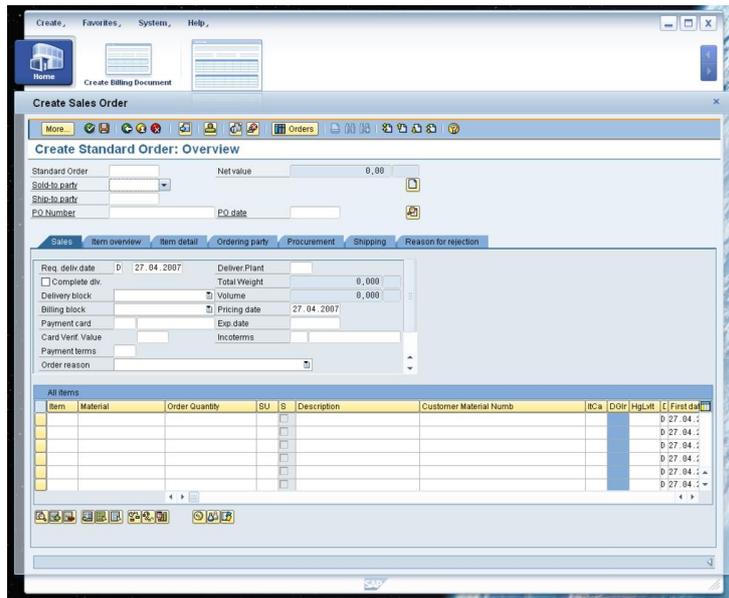
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- We will now have a closer look on the canvas area, the area where the application is displayed. This area can display various UI technologies which is supported through three different rendering engines.
- The first example is SAP GUI. The canvas area includes with it the opportunity to render standard SAP GUI transactions. For this application SAP GUI is fully running inside the SAP NetWeaver Business Client.
- Microsoft Internet Explorer offers the second option as rendering engine. MS Internet Explorer offers various ways to display UI techniques like HTML pages, Web Dynpros or other supported UI elements.
- The third alternative, which is however only a future prospect, is the SAP Smart Client. This will be another option available in 2008. In this rendering engine there will be further options available to improve the UI features of the SAP NetWeaver Business Client.

Canvas Area in Detail: Embedded SAPGUI



Embedded SAPGUI

- Enables SAP and SAP Partners to use traditional SAPGUI transactions where necessary
- Allows customers to decide for “expert like” transactions if wanted
- Allow SAP Partners to leverage on efforts spent with GUIXT

- One of the rendering engines which can be used embedded in the canvas area is the standard SAPGUI. Being just slightly limited, SAPGUI is fully supported within the SAP NetWeaver Business Client's canvas area. The only limitation is: the rendering of SAP R/3 modal graphics (like RZ01) which isn't supported. By fully embedding SAPGUI into SAP NetWeaver Business Client, SAP and Partners can keep traditional transactions on the screen as required. Additionally, tools like GUIXT from Synactive perfectly work on top.

Canvas Area in Detail: Embedded MS Internet Explorer

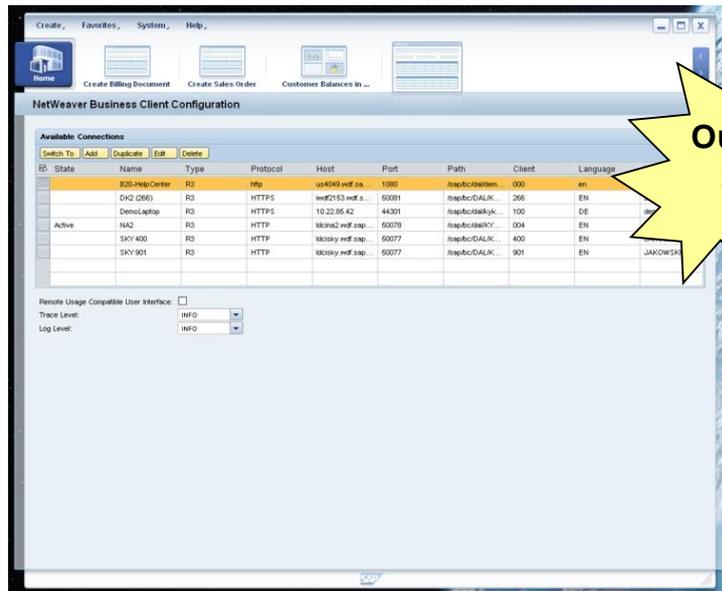
Customer Number	Name	Debit Balance	Credit Balance	Balance Carryforward	Accumulated Balance	Currency	Company Code
100000	PENMART	160.331,74	3.376,89	0,00	156.954,85	USD	BP01
100001	OFFICESUP	1.200,00	0,00	0,00	1.200,00	USD	BP01
100002	BLSUP	9,99	9,99	0,00	0,00	USD	BP01
100003	PENDEPOT	952,37	948,85	0,00	3,52	USD	BP01
		162.494,10	4.335,73	0,00	158.158,37		
		162.494,10	4.335,73	0,00	158.158,37		

Embedded MS Internet Explorer

- Allows rendering of several UI technologies like HTML, BSP (Business Server Pages), WD for ABAP

- The second UI rendering engine embedded in the canvas area is the MS Internet Explorer. The MS Internet Explorer is plugged into the SAP NetWeaver Business Client and allows rendering of many different UIs. These UIs start with WebDynpro for ABAP, BSP (Business Server Pages), HTML, Flash and those which are normally supported by the IE. In SAP All-In-One, SAP is primarily using Web Dynpro for ABAP, BSP and HTML.

Canvas Area in Detail: Embedded SAPGUI



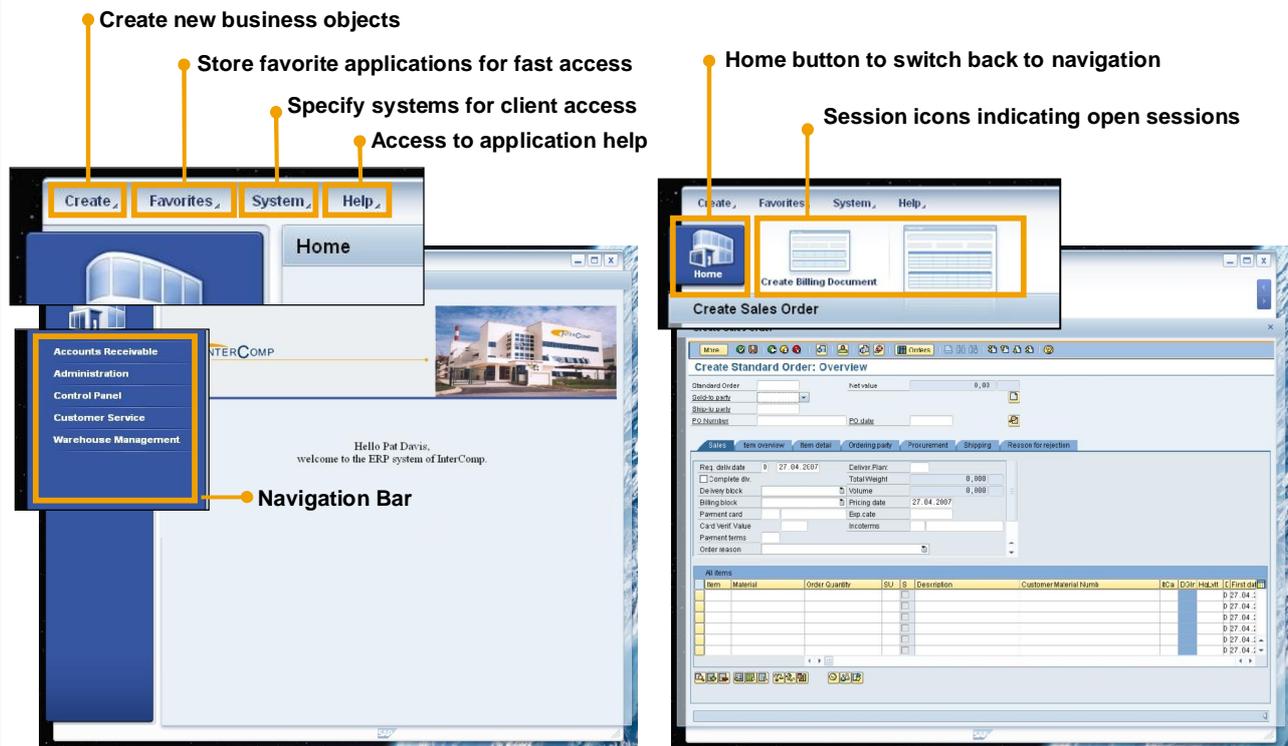
Outlook
2008

Embedded SAP Smart Client

- Not enabled yet, but planned for 2008 SAP Smart Client increases performance for WD for ABAP and introduces new features like smooth scroll bars, table caching and more

- NOTE: SAP Smart Client is currently not enabled in NWBC but planned for 2008.
- The third rendering engine used within the canvas area is the SAP Smart Client. This technology can be alternatively used to render Web Dynpro for ABAP. The advantage here is a higher performance compared to IE as well as some additional features like smoother scrollbars, table caching, drag&drop capabilities and more.

Shell Area in Detail



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- As said in previous slides, the shell holds several elements which are used to initiate actions or to operate the client.
- On the top left of the client, you will find the menu bar of the SAP NetWeaver Business Client with its various items. A very interesting part here is the create button, which allows to quick access transactions, which create business objects. This will be shown in detail later.
- Besides the create button, there is the favorites menu item, which allows a user to store most important transactions as shortcut. The system menu offers the place where system access can be defined while the help button finally leads into the online application help.
- On the left side, you see the navigation bar or navigation panel. These navigation elements are based on the authorization settings of the user. In the screen shot above, you see the content of a huge set of different roles. In a real environment, this would be reduced to a few folders, as a standard user doesn't hold authorization for so many different roles in the company.
- The top of the client provides the so called session bar. The session bar shows up all applications (sessions) currently open in the client. Specific icons indicate, whether an open application is a transactions or a report.

Transaction Launch Pad

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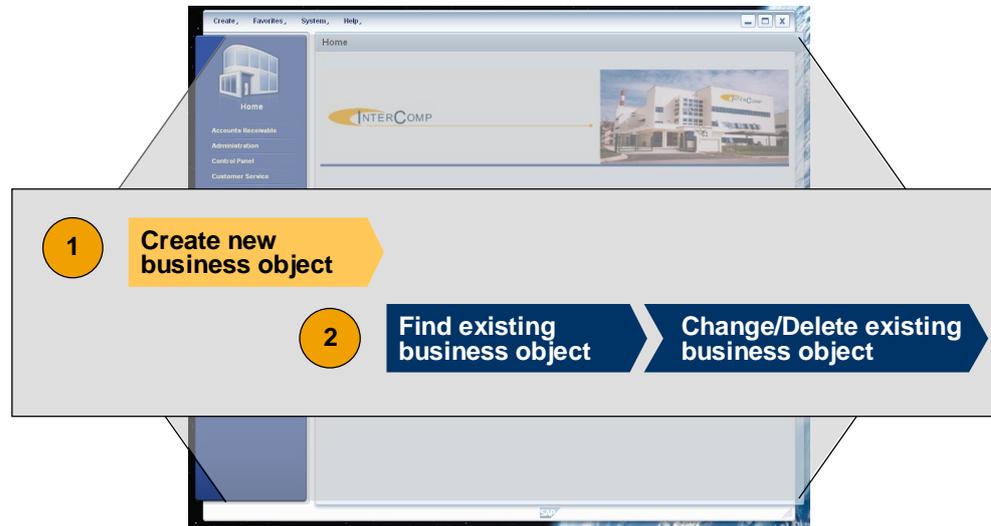
Sales Document	Description	Document Date	Net value	PO number	Curr.
42	Standard Order	15.05.2007	163,02	100002-150507-0001	USD
41	Standard Order	11.05.2007	65,75	2007-05-11-004	USD
40	Standard Order	11.05.2007	125,40	2007-05-11-002	USD
39	Standard Order	11.05.2007	125,40	2007-05-11-001	USD
38	Standard Order	10.05.2007	62,70	100001-100507-0001	USD
37	Standard Order	10.05.2007	37,62	100002-100507-0001	USD
36	Standard Order	08.05.2007	62,70	100002-080507-0001	USD
35	Standard Order	07.05.2007	62,70	100002-070507-0003	USD
34	Standard Order	07.05.2007	62,70	100002-070507-0002	USD
33	Standard Order	07.05.2007	62,70	100002-070507-0001	USD
32	Standard Order	04.05.2007	75,24	100000-040507-0001	USD
31	Standard Order	03.05.2007	1.315,00	123456789	USD
30	Standard Order	02.05.2007	62,70	100002-0012	USD
29	Standard Order	02.05.2007	50,16	100002-0003	USD
28	Standard Order	24.04.2007	62,70	100002-240407-02	USD

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- Somehow in between of the shell and the canvas area, you will find the transaction launch pad, depending on the fact whether there are transactions maintained for the specific navigation folder or not.
- Based on the granted authorization of the user, the transaction launch pad shows up specific links to transactions or reports. Like in the session bar, the icons left of the link provide an indication whether it links to a transaction or a report.

Object Oriented Navigation with NWBC



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- With the new client in SAP All-in-One, a new navigation paradigm is introduced. Instead of an transactional focused navigation, the SAP NetWeaver Business Client focuses more on business objects.
- A business objects can be a sales order, a billing document or any other business related object in the system. In all cases, a user will face two situations in daily work.
- On the one side, this is the case that a new business object shall be created. Instead of browsing through navigation folders it would be highly appreciated to have a short cut to the transaction where the business object (e.g. a sales order) can be created.
- In the other case, the user would need to change or even delete an existing business object. For sure, in this situation, it is highly accepted, that a user needs to navigate at least a bit to find the right business object to maintain.

Object Oriented Navigation with NWBC

Menu “Create”

Immediately through the menu item “new” a user can start creating a new object..

For example:
User wants to create a new sales order

The screenshot shows the SAP NetWeaver Business Client interface. On the left is a navigation tree with folders like 'Accounts Receivable', 'Administration', 'Control Panel', 'Customer Service', 'Quotations', 'Sales Orders', 'Billing', 'Complaints', 'Customers', 'Credit Management', 'Executive Transactions', and 'Warehouse Management'. The 'Sales Orders' folder is selected. A 'Create' menu is open, showing options: 'Create', 'Favorites', 'System', 'Customer', 'Quotation', and 'Returns'. The 'Create' option is highlighted. In the background, a 'Sales Orders' table is visible with columns: Sales Order #, Sales Order Type, Block Reason, Sold-to party, Net value, Currency, Created by, and Created. The table contains three rows of data.

Sales Order #	Sales Order Type	Block Reason	Sold-to party	Net value	Currency	Created by	Created
56	Standard Order	Credit limit	100000	9,99	USD	DUESPOH_KT	27.04.20
46	Standard Order	Export papers missing	100000	9.990,00	USD	BADGLEY_T1	10.04.20
34	Standard Order	Credit limit	100006	263,00	USD	KREIM	29.03.20

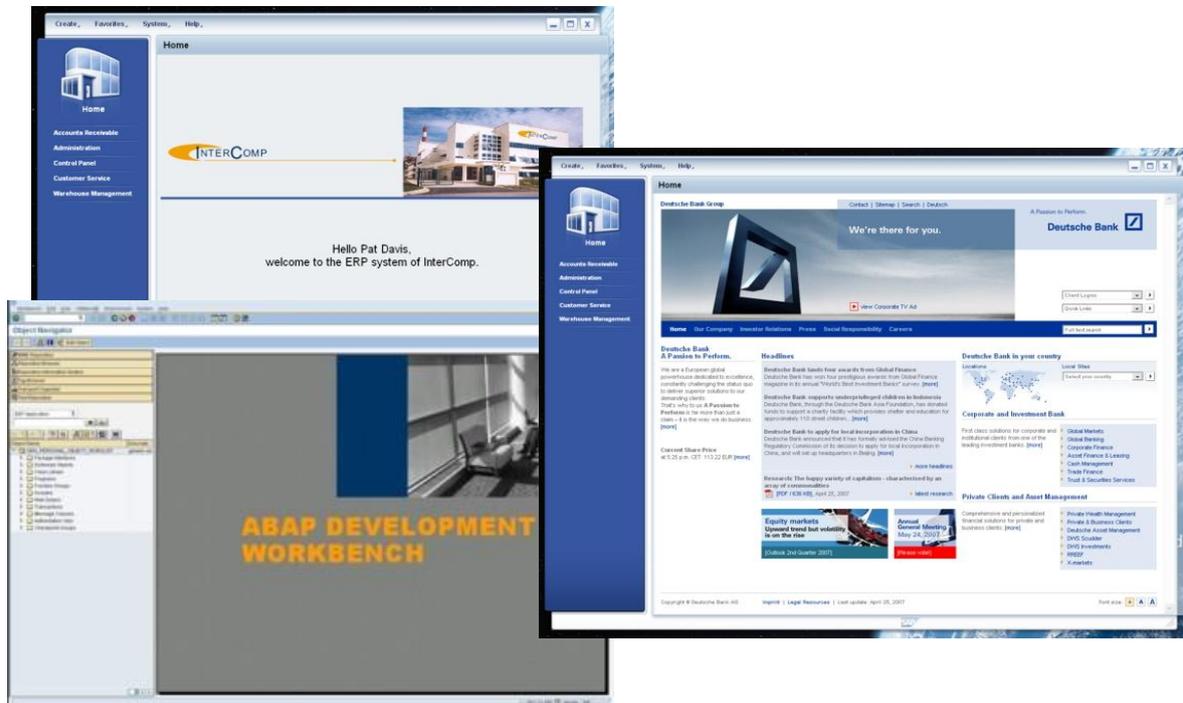
POWER lists

Connected to most of the navigation folders, they provide access to existing business objects.

For example:
Navigating to the “Sales Orders” Folder within Customer Service will immediately provide a list of open sales orders.

- The SAP NetWeaver Business Client was designed, to serve both cases the best.
- Creating a new business objects becomes quite easy through pressing the create button in the client menu and choosing the business object. Immediately, a new session starts within the client and the required transaction comes up.
- The other case – where an existing object should be maintained – can be served quick and easy, as well. This is supported by the so called POWER Lists in SAP All-in-One, where relevant business objects are pushed to the user at exactly the place the user wants them to be.
- In a later chapter, we will come back to the POWER Lists in more detail.

Personalization: Adding Main Homepage



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- As said in the beginning, one of the features of the SAP NetWeaver Business Client is the option to personalize it to customers needs.
- One aspect of this is changing the homepage which gets visualized after the client is initially started or after the user has double clicked on the home button.
- This homepage can be – based on the embedded MS Internet Explorer - any kind of resource like a HTML page, a BSP page or anything similar.

Step 1: Decision to take – External vs. internal page

External page

- Nothing more to do in this step

Internal page

- Create BSP Application in SE80
- Create page
- Upload necessary images to MIME repository, if required

Step 2: Add page to the NWBCClient.ini file at “My Documents” folder



- In general, a question might be, whether the homepage should be an external or internal page. Internal in this case means, that the page would be hosted within the backend system. In this case, a BSP page might be the choice. An external page would be any page externally of the backend system, like an intranet page of the customer.
- In both cases, the pages needs to be specified for the client. This can be done in the .ini file of the client, which is located as described above.
- Note: The SAP NetWeaver Business Client updates the .ini file every time it is ended by the user. As a consequence, changing the .ini file while having the client running will result in loss of the data you have entered as soon as you close the client afterwards. So make sure, that the client is shutdown before entering data to the .ini file.

Personalization: Adding Customer Logo



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- Another possibility to personalize the client is to add a company logo to it. This “branding option” can be easily used by adding a graphic file to the right location.
- To do this, you just need to have the company logo in PNG format at hand and put it into the folder \program files\SAP\frontend\sapgui. Please be aware, that the file needs to be named “logo.png” to get recognized by the client. Immediately after startup, the client will show the logo instead of “Powered by SAP NetWeaver”.

Step 1: De-Installation of Previous SAPGUI and/or NWBC Versions

If there is an older version of NWBC on your machine, start de-installing NWBC & SAPGUI. Otherwise, just de-install SAPGUI.

- Press Start → Control Panel choose “Add or Remove Programs”
- Choose “SAPGUI” and/or “SAP NetWeaver Business Client” and click remove

Ensure that following folders are empty / deleted:

C:\Program Files\Common Files\SAP Shared
C:\Program Files\SAP\FrontEnd
C:\Program Files\SAP\Business Explorer

- The next slides show the sequence to install the SAP NetWeaver Business Client. Please follow all steps to make sure that the client is installed correctly on your local PC.

Step 2: Reboot your client system

Step 3: Install SAPGUI 7.10

<https://portal.wdf.sap.corp/go/software>

Check "Select all"

Step 4: Reboot your client system

Step 5: Install SAP NetWeaver Business Client

<https://wiki.pal.sap.corp:8443/display/NWBC/Installation>

Check "Select all"

Step 6: Apply HotFix for IE7 (optional)

In case you have IE7 installed on your client system,
please apply the "winhttp" patch

\\pwwdf1018\NWBC\winhttp_patch



- Be aware, that the links shown on the slides represent SAP internal links, which cannot be accessed from outside SAP.
- If you are a partner, you need to get in contact with the SAP SME Solution Centers to get a copy of the client.

In case of a script error at first start up perform the following action:

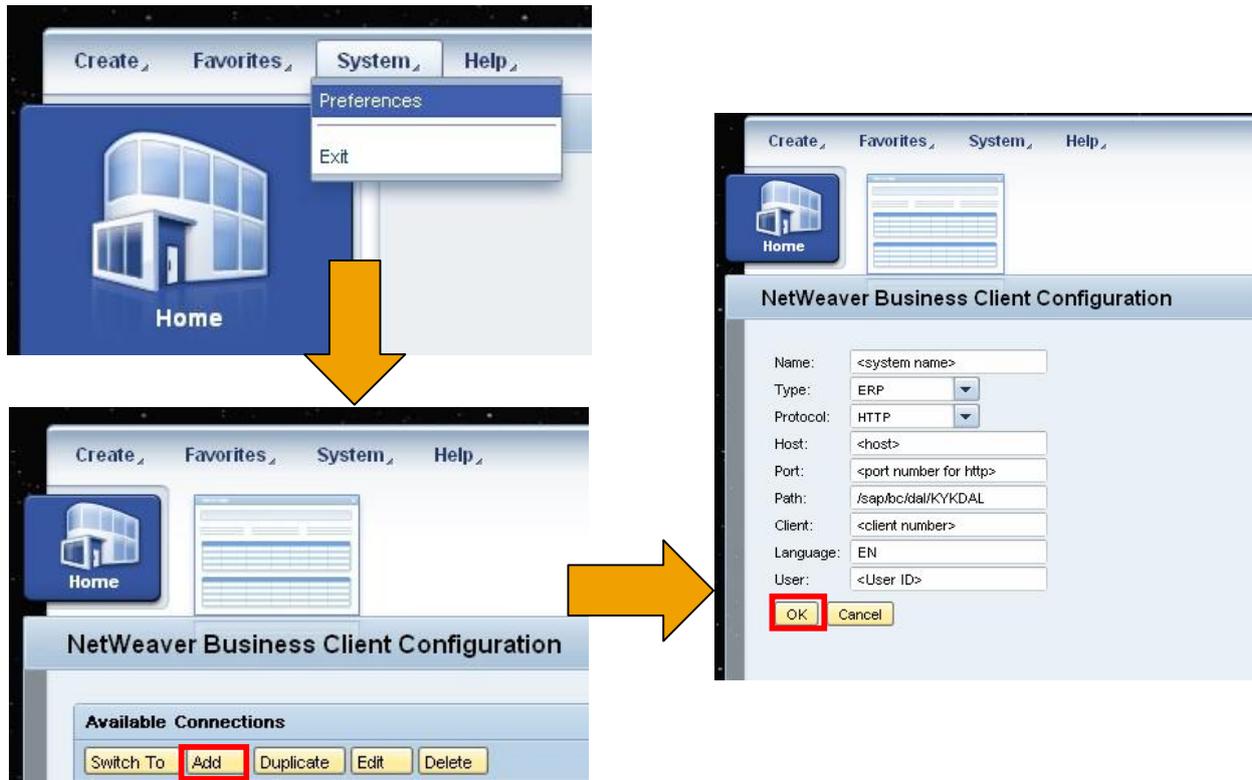
- 1. Open a command prompt**
- 2. Change directory to C:\Program Files\SAP\FrontEnd\SAPgui**
- 3. Start “nwbcclient.exe /Register”**

Note: You won't see any confirmation message

In case of a memory error, make sure that the .ini file exists at the “\my documents” folder

- In some cases, it might be possible that you face a scripting error. In this case follow the sequence above.
- Additionally, you might see a popup showing a memory problem. The real problem behind this could be a missing .ini file.

Configuration of SAP NetWeaver Business Client



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- After you have successfully installed the client on your local PC, you need to specify the system(s) you want to connect to with the client. If you know the SAP Logon application, this will be very familiar to you, as the required data and the way it needs to be maintained is partly similar to it.
- Start the client and press the system button on the menu bar and choose the preferences. In the upcoming screen, press the "add" button to be able to add your system settings to the client.
- In regards to the port information you need to enter, you should consult transaction MICM, which offers you a view on the http and https ports, used in your backend system.

Connecting Available Systems

To connect to a system, or to switch from one system to the other, just select the specific line item and press the button „Switch To“

Available Connections									
Switch To Add Duplicate Edit Delete									
State	Name	Type	Protocol	Host	Port	Path	Client	Language	User
	WDA Testsuite	R3	http	us4184.wdf.sap....	1080	/sap/bc/dal/demoA	000	en	
	DK2 262	R3	HTTP	iwdf0511.wdf.sa...	50080	/sap/bc/dal/KYK...	262	EN	
	SKY 262	R3	HTTP	ldcisky.wdf.sap....	50077	/sap/bc/dal/KYK...	262	EN	
	Q3Y_003	R3	HTTP	ldciq3y.wdf.sap....	50021	/sap/bc/dal/KYK...	003	EN	
	DKY 800	R3	HTTP	iwdf0351.wdf.sa...	8000	/sap/bc/dal/KYK...	800	EN	
	KYD 807	R3	HTTP	ldcikyd.wdf.sap....	50070	/sap/bc/dal/KYK...	807	EN	
Active	SKY 400	R3	HTTP	ldcisky.wdf.sap....	50077	/sap/bc/dal/KYK...	400	EN	
	DK2 (263)	R3	HTTP	iwdf0511.wdf.sa...	50080	/sap/bc/dal/KYK...	263	EN	

- Once you have a system or multiple systems added to the client, you can connect to the system by selecting the individual system and by pressing the “switch to” button.
- Immediately, a logon pop-up will come up and you can login to the system.
- Note: Be aware, that the client keeps up the session where the systems list is shown even if you are connected to the system now. Simply press the “home” button, to see the navigation panel and to start work.
- The next time you start the client, it will immediately connect you to the system you have been connected last time. So there will be no need to open up the preferences screen again.

SAP NetWeaver Business Client : Exercise



As practice, please perform the following exercises:

- Install the SAP NetWeaver Business Client to your local PC
 - Download the NWBC installation package to your local PC
 - Start the installation procedure and follow the instructions
- Try to connect your backend system with the SAP NetWeaver Business client
 - Start the SAP NetWeaver Business client and define a connection to your backend system
 - Try to establish the connection
- Enable your backend system to access it via SAP NetWeaver Business Client
 - Add the necessary service to the backend system and start it
- Try to connect your backend system with the SAP NetWeaver Business client, again

- To do some practice, you should perform these exercises now.
- If you have questions please ask you instructor for assistance.



You are now able to:

- Explain the SAP NetWeaver Business Client
- Describe and perform an installation of the SAP NetWeaver Business Client
- Set all parameters necessary to enable the SAP NetWeaver Business Client in your system
- Personalize the SAP NetWeaver Business Client if necessary

- With this, we have ended this chapter.

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