SAP NetWeaver Business Client
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Agenda

SAP NetWeaver Business Client in a Nutshell
- The Place of SAP NetWeaver Business Client in the UI Solution Map of SAP – What is NWBC?
- User Interface Clients
- New Content for the Business Suite

SAP NetWeaver Business Client in Detail
- A Business User’s View: Working with the SAP NetWeaver Business Client
- A Customizing View: Roles, Menus, Branding
- An Administrator’s View: Admin Configuration

Summary and Outlook
- Roadmap
- Upcoming Business Suite Content powered by SAP NetWeaver Business Client Version 3.5

Further information - Links
SAP NetWeaver Business Client (NWBC) in a Nutshell
## All User Interface relevant items at one place

**SAP NetWeaver Business Client in the UI Solution Map**

<table>
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<tr>
<th>UI Solutions</th>
<th>Products</th>
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<td><strong>User Interface Clients</strong></td>
<td>Desktop</td>
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### Desktop
- **SAP NetWeaver Business Client (NWBC)**
- **SAP GUI**
- **SAP Business One Client**
- **SAP Crystal Dashboard Design**
- **SAP Business Explorer Analyzer**
- **SAP BusinessObjects Analysis (edition for Microsoft Office)**

### Browser
- **SAP NetWeaver Portal Client**
- **SAP Business ByDesign Client**
- **SAP Web UI Client**
- **SAP BusinessObjects BI Launch Pad**
- **SAP Business Explorer Web Analyzer**
- **SAP BusinessObjects Web Intelligence**
- **SAP BusinessObjects Explorer**
- **SAP BusinessObjects Analysis (edition for OLAP)**

### Mobile
- **iOS based**
- **BlackBerry based**
- **Android based**

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In a Nutshell: SAP NetWeaver Business Client 3.0 and 3.5

- Single point of entry for all business applications
- Harmonized user experience
- Role-based access
- Provides personalization & productivity functions
- Desktop and zero-footprint flavor available
- Non-SAP Portal integration option
- Optimized content especially for SAP Business Suite
In a Nutshell: Integrating Multiple UI Technologies Into a Single Client

The shell
- Comprehensive navigation functions
- Additional functions
- Retrieves roles content either from a Web AS role repository (PFCG) or a portal role repository (PCD) via a set of web services

The content area
- Unified environment with embedded rendering engines
Comparison: NWBC for Desktop and NWBC for HTML

NWBC for Desktop
- Installed on desktop
- Embeds SAP GUI for Windows
- Full range of functions
- Can leverage SAP Enterprise Portal role content
- Runs on Windows XP, Vista and Windows 7

NWBC for HTML
- Zero installation, browser-based
- Uses SAP GUI for HTML
- No search, overflow menu, dropdown menus or drag & drop of work centers
- No side panel
- Can run on Linux or Mac OS
# User Interface Clients

## Major clients for Desktop & Browser

<table>
<thead>
<tr>
<th>Client Type</th>
<th>Key Attributes</th>
<th>Typical Use Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SAP Logon / SAP GUI</strong></td>
<td>- Classic transaction launcher&lt;br&gt;- Menu-based access&lt;br&gt;- Desktop integration</td>
<td>- ABAP environment&lt;br&gt;- Focus on Dynpro transactions</td>
</tr>
<tr>
<td><strong>SAP NetWeaver Business Client</strong></td>
<td>- Includes SAP GUI (embedded)&lt;br&gt;- Role-based access&lt;br&gt;- Application launcher&lt;br&gt;- Browser functionality integrated&lt;br&gt;- Desktop integration</td>
<td>- Mainly ABAP environment&lt;br&gt;- Focus on multiple UI technologies&lt;br&gt;- Access to one main system&lt;br&gt;- Partial access to other systems</td>
</tr>
<tr>
<td><strong>SAP NetWeaver Portal Client</strong></td>
<td>- Includes SAP GUI (embedded)&lt;br&gt;- Role-based access&lt;br&gt;- Application launcher&lt;br&gt;- Collaboration enablement&lt;br&gt;- Content Mgmt. enablement</td>
<td>- ABAP and Java environment&lt;br&gt;- Focus on multiple UI technologies&lt;br&gt;- Additional focus on portal like scenarios&lt;br&gt;- Access to a large set of systems</td>
</tr>
</tbody>
</table>
New content for the Business Suite
Content for all business areas

### ERP 6.0
- **Enhancement Package 2**
  - Sales Order Management
  - Travel Management
- **Enhancement Package 3**
  - Procurement
  - Quality Management
- **Enhancement Package 4**
  - Product Development
  - Talent Management

### SCM 7.0
- Transportation Management
- Supplier Network Collaboration

### SRM 7.0
- Complete user interface changed to Web Dynpro ABAP using Floor Plan Manager (FPM)
  - New WD ABAP applications
  - New Power Lists

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New content for the Business Suite
In numbers
SAP Business All-in-One - Now with a New Face

Sales scenario

Make-to-Stock Production - Process Industry
QM for Procurement with Vendor Evaluation
Cash Position & Liquidity Forecast
Project with Fixed-Price and T&M Billing
Time & Travel Management
C-Level Dashboards

Business area
Sales, Purchasing, Accounting
Manufacturing
Manufacturing
Financials
Project Management
Human Resources
Cross-Applications
SAP NetWeaver Business Client in Detail
Working with the SAP NetWeaver Business Client
Multi Windows paradigm

Launch applications in-place or in new window
Applications can be started in-place or in a separate NWBC window, as in the browser. This can be either pre-defined within the role or controlled by the user.

Window Manager
The Window Manager helps you find your application by giving you an overview of the opened NWBC windows.
Working with the SAP NetWeaver Business Client
Navigation Made Easy

Menu Bar
- Gives access to favorites, history, settings and the help
- It can be customized

Navigation Panel
- Allows a more detailed multi-level navigation for the specific work center
- Can be collapsed allowing more canvas space

Quick Launch
- Direct application launch and search
- Quick navigation within NWBC using the breadcrumb

Navigation Tabs
- Navigation tabs sequence and their icons can be personalized
- Quick navigation enables you to navigate quickly to a specific entry
Working with the SAP NetWeaver Business Client
Integrated Searches & Quick Launch in NWBC for Desktop

Search Bar
- A search function is always available in the top area
- Search providers are configured either on the client or the server and include Desktop search

Quick Launch
- Enables to search and trigger applications
- Same search providers as for search bar

Enterprise Search Integration
All ES connectors configured and active on the Web AS are automatically offered as search providers in the NWBC for Desktop searches

New with NWBC 3.5
Working with the SAP NetWeaver Business Client
SAP Easy Access Consumption

SAP Menu
The SAP menu (transaction SE43) or start menu assigned to a user can be displayed instead of the user menu.

Easy Access Favorites
System favorites can be displayed in the Favorites menu or as a work center.
Side Panel and improved SAP GUI integration

- Side Panel: Adding value to existing applications without modification
- Navigation SAP GUI ↔ WDA
- Data exchange with side panel applications, tagging infrastructure

Content

- SAP Financials (with SAP ERP EhP 6.0)
- Create own content using WDA Page Builder
- Other content using integration in PFCG

Software requirements

- SAP NetWeaver Web Application Server 7.31
- NWBC for Desktop 3.5
- At least SAP GUI for Windows 7.20 PL8
A Customizing View of SAP NetWeaver Business Client
Role-based Navigation

- Roles are defined matching the real life roles that people play within a work situation.
- The NWBC runtime retrieves all roles assigned to a specific user and makes them available to the shell.
- For Web AS connections, you can create or adapt the navigation in transaction PFCG, tab Menu.
- A set of attributes is specifically dedicated to the navigation frame presentation. Access these attributes by selecting Other Node Details and Menu Options.
A Customizing View of SAP NetWeaver Business Client

Image Assets

**Branding**
- Enables you to display an image, typically the company logo, in the navigation panel, and navigate, for example, to your corporate portal when selecting the image
- Maintain in table NWBC_CFG

**Work Center Icons**
- You can replace the default icons for Work Centers with other images
- Configure in role maintenance (PFCG)
- NWBC for Desktop only

New with NWBC 3.5
An Administrator’s View of SAP NetWeaver Business Client
Administrator Controlled Settings and System Configuration

Connections
- NWBC uses HTTP/S connections for its server communications
- The administrator can predefine systems and add role- or client-specific search providers

Advanced NWBC admin configuration
- Extended capabilities to also control menus, view options and runtime behavior (max number of sessions…)
- Central admin configuration

System Configuration
- Activation of ICF services and logon tickets (MYSAPSSO2 cookies)
- Whitelist maintenance for server external content

New with NWBC 3.5
Summary and Outlook
Summary

- Rich desktop client that offers a single point of entry to SAP and non-SAP applications
- Enhances the user experience & helps to increase productivity
- Low TCO as it runs on a standard ABAP server and does not require additional server installation
- Dedicated content available across SAP’s portfolio
- Available as desktop and zero-footprint client
Side Panel adds instant value to more than 500 SAP GUI applications

- In Financial Accounting, Controlling, FSCM
- 70 reusable CHIPS with master data details, analytics, notes, attachments and more
- One central role that contains the definition of the Side Panels for each transaction

Benefits

- Improved user productivity
- Easy configuration & extension
- Low implementation costs

Software Requirements

- SAP NetWeaver Web Application Server 7.31, usage with older releases via additional Web AS
- NWBC for Desktop 3.5, not supported with browser clients
- At least SAP GUI for Windows 7.20 PL8
The planner’s single point of entry to APO

Solution Enhancements

• Home Page consisting of several CHIPS for alert overview, favorite reports and selections with direct navigation to planning applications
• Better alert overview via user defined queries; re-designed alert monitor
• Easy check of KPI’s for location products, resources, characteristic value combinations

Benefits

• User efficiency: Quick access to all decision-relevant planning information, both APO internal and external
• Home Page can be adapted to customer’s needs without modification: Page Builder and chips enable customizing and personalization

Software Requirements

• SAP NetWeaver Web Application Server 7.31
• NWBC for Desktop 3.5, SAP GUI for Windows 7.20 PL8
## UI Client Roadmap*

### SAP NetWeaver Business Client

<table>
<thead>
<tr>
<th>Version 3.0</th>
<th>Version 3.5</th>
<th>Outlook</th>
</tr>
</thead>
<tbody>
<tr>
<td>(NW 7.00 / 7.01 / 7.02)</td>
<td>(NW 7.03)</td>
<td></td>
</tr>
<tr>
<td>• ABAP based application launcher</td>
<td>• Multiple shell windows for parallel navigation</td>
<td>• Tabbed Browsing</td>
</tr>
<tr>
<td>• Desktop version (Microsoft Windows)</td>
<td>• Side panel</td>
<td>• Additional theming and branding options</td>
</tr>
<tr>
<td>• Browser version for zero-footprint</td>
<td>• Lean top level navigation options</td>
<td>• Open Search standard support</td>
</tr>
<tr>
<td>• SAPGUI &amp; MS Internet Explorer as rendering engines</td>
<td>• SAP Easy Access consumption: Menu and favorites integration</td>
<td>• Multi system support by shell</td>
</tr>
<tr>
<td>• Tight integration to PFCG roles</td>
<td>• SAP Enterprise Search enabling</td>
<td>• Push channel functionality</td>
</tr>
<tr>
<td>• Multi system support by roles</td>
<td>• Central administrator configuration</td>
<td>• On-Demand integration</td>
</tr>
<tr>
<td>• Multiple windows concept (including window manager)</td>
<td>• Improved ABAP server performance</td>
<td></td>
</tr>
<tr>
<td>• Search (e.g. external search providers)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Quick launch option</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Availability for SAP ERP 6.0

- EhP 1,2,3 & SAP NetWeaver 7.00 SP21
- EhP 4 & SAP NetWeaver 7.01 SP06
- EHP 5 & SAP NetWeaver 7.02

### Availability for SAP ERP 6.0

- EhP 6 & SAP NetWeaver 7.03
- Backward compatible with SAP NetWeaver 7.00, 7.01, 7.02

### Availability for SAP SCM 7.0

- EhP 2 & SAP NetWeaver 7.03

* This is the current state of planning and may be changed by SAP at any time.
Further Information (1)

**SAP Public Web**


Help Portal:
[http://help.sap.com/saphelp_nw70ehp2/helpdata/en/31/8dd113b8ba4832aeaaaf4b756e1eed/frameset.htm](http://help.sap.com/saphelp_nw70ehp2/helpdata/en/31/8dd113b8ba4832aeaaaf4b756e1eed/frameset.htm)

**Related SAP Education and Certification Opportunities**


Training course NWBC10
## Further Information (2)

<table>
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<th>SAP Notes</th>
<th>Description</th>
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<tr>
<td>Note 900000</td>
<td>- Netweaver Business Client – FAQ</td>
</tr>
<tr>
<td>Note 1029940</td>
<td>- NetWeaver Business Client requirements and restrictions</td>
</tr>
<tr>
<td>Note 1368177</td>
<td>- SAP NWBC 3 Rel for SAP BP Pkgs on SAP ERP 6.04 &amp; SAP SRM 7.0</td>
</tr>
<tr>
<td>Note 1400383</td>
<td>- SAP BAiO: SAP NWBC 3.0 &amp; EhP4 for SAP ERP 6.0 (ABAP), Config</td>
</tr>
</tbody>
</table>
Appendix
In Detail: Enterprise Search Enabling

All ES connectors configured and active on the Web AS are automatically offered as search providers in the Desktop Client’s searches.
Client Installation

Operating System
Currently available for the following Microsoft Windows platforms: XP SP3, Vista, 7

Hardware
The prerequisites are the same as for the SAP GUI (see notes)

Recommendations
- At least 1 GB memory (the actual memory consumption depends on the number of windows open)
- Minimum screen size of 1024x768 (though your screen should preferably be larger)
- The NWBC application (using .NET3.5 and WPF) running on the desktop consumes main memory in the magnitude of 100 MB

Software (see notes)
- NWBC 3.0: At least SAP GUI 7.10 PL 15 or 7.20 PL 2
- NWBC 3.0: At least Microsoft .Net 3.0, but version 3.5 SP1 is highly recommended
- NWBC 3.5: : At least SAP GUI 7.20 PL 8, Microsoft .Net 3.5 SP1

NWBC for HTML
- No desktop installation is required.
- Browsers need minimal resources to render the HTML representation of the navigation tree
- Current browser supported: IE6,7,8, Firefox 3.5, 3.6 & Safari 4,5
- Refer to the PAM for details under NetWeaver 7.0 -> Browser Support
Installation & Configuration
Server configuration steps

Operating System

- SAP Crypto Library installation
- System Profile Configuration
  - Full Qualified Domain Name (FQDN)
  - Define http(s) settings, (SMTP for completeness)
  - Enable SSO2 cookie acceptance and creation
  - SAP Crypto Library

ABAP Configuration

- Configuration of Trust Manager
- Verify that https service is activated
- Activate enterprise business functions necessary for your scenarios
- Activate SICF Services
- Maintain service default_host/sap/bc/nwbc
- Enable SAP NWBC 3.0 use maintaining the required client dependent table entry in NWBC_CFG
- Enable enhanced role functionality for SAP NWBC
- Assign required roles to the user you want to use for logging on to backend via SAP NWBC 3.0

For further details, refer to Note 1400383 - SAP BAiO: SAP NWBC 3.0 & EhP4 for SAP ERP 6.0 (ABAP), Config
NWBC does not change the performance behavior of the contained applications.

The application footprint is the same as if it was running in a stand-alone scenario.

<table>
<thead>
<tr>
<th>NWBC for Desktop</th>
<th>NWBC for HTML</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Network</strong></td>
<td></td>
</tr>
<tr>
<td>2 HTTP requests ONCE at startup with a payload of typically 50 KB (this depends on the role setup).</td>
<td>Each interaction step: 1 HTTP request with a payload of typically 20 KB.</td>
</tr>
<tr>
<td><strong>Server</strong></td>
<td></td>
</tr>
<tr>
<td>1 ABAP session ONCE at startup with a lifetime of 15 seconds and main memory consumption of approximately 3 MB.</td>
<td>Each interaction step: 1 ABAP session with a lifetime of 15 seconds and main memory consumption of approximately 3 MB.</td>
</tr>
</tbody>
</table>
NWBC: Adding Value Step-by-Step

**First Steps**
Roll out NWBC to users in a small area

- Most of the applications used are based on Dynpro technology
- SAP GUI is the client of choice

**Adding Web Dynpro**
Add Web Dynpro apps including Power lists provided by SAP

- Users focus on SAP GUI screens.
- They also use some Power lists provided by SAP
- Web Dynpro applications are added

**Increasing the Scope**
Create/configure Power lists and add other SAP apps.

- Customers use the Power List Framework to create new Power lists.
- End users also access BSP apps and non-SAP apps via URL.

**Fine-tuning**
Add Business Objects apps e.g. dashboards and analytics apps.

- Users also work with Crystal reports and other Business Objects apps.
- The side panel is used to display extra information.
- Roles are configured for cross-system scenarios.

A basic scenario for NWBC

A possible first addition

Logical next moves

Highly-enhanced environments