



Standard Slides

SAP NetWeaver Developer Studio

September 2007

Integrated environment for developing Java programs

- Coding, Modeling, Deploying, Debugging, Monitoring, Testing, ...

Based on open-source platform Eclipse

- Plug-in architecture allows to add tools and combine them with others



www.eclipse.org

Current releases

(SAP NetWeaver '04 / 7.0 aka. 2004s)

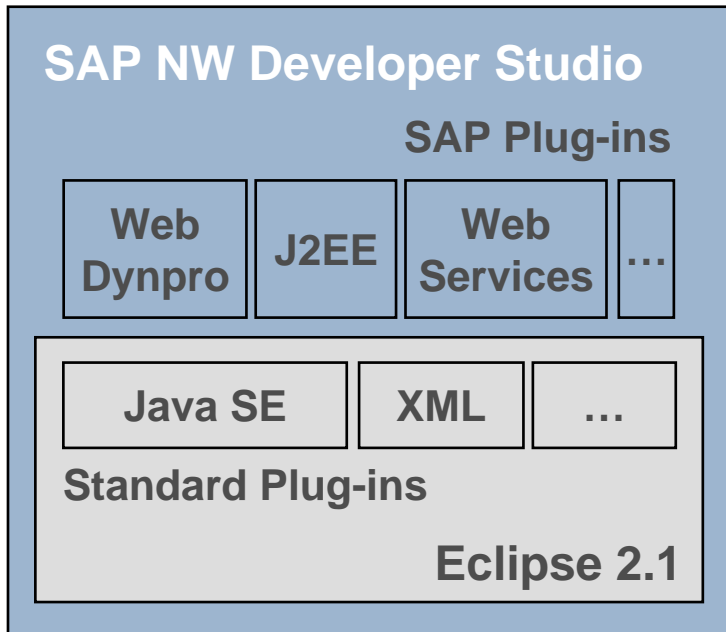
- target SAP customers and internal SAP app development
- focus on SAP-specific programming models
 - Web Dynpro for UI development
 - assumes SAP NWDI (“SAP NW Development Infrastructure”) for life-cycle management

Forthcoming releases

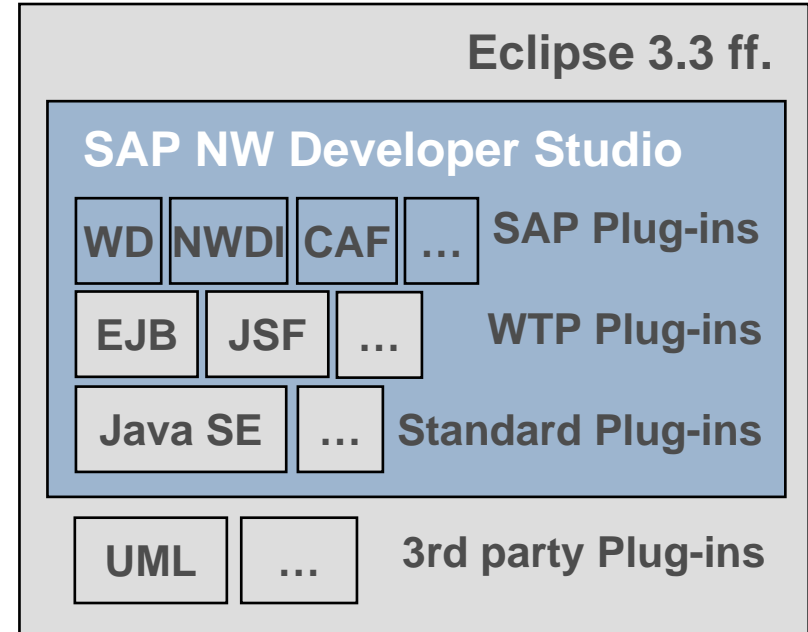
(SAP NetWeaver CE 7.1 ff.)

- target also ISVs and the SAP Developer Network community
- stronger focus on standards
 - Java EE 5 (JAX-WS, EJB 3.0 / JPA)
 - e.g. Web Dynpro on top of EJB
 - works with NWDI or any external software life-cycle management environment

NetWeaver '04 / 7.0 (aka. 2004s)



SAP NetWeaver 7.1 ff.



SAP NetWeaver Developer Studio will open up to coexist with 3rd party and open-source plug-ins

- certification process available for ISVs

→ <http://www.sdn.sap.com/irj/sdn/sdnservices/icc>



Portal



Render



Device



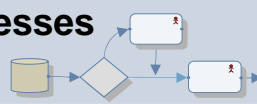
Voice



Office

SAP NetWeaver Composition Environment

Orchestrate **processes**
and services



Model and
compose **views**



Consume and
build **services**



SAP NW Dev Studio
Java EE 5 Server



SAP NW Composition Environment (CE) is a standards-based platform for building and running applications following Enterprise SOA principles

Access to SAP business semantics

- Enterprise Services Repository (ESR) and UDDI Service Registry included
- Out-of-the-box connectivity to SAP ERP services via ES Workplace (on SDN)

Designed for lean consumption, holistic solution life-cycle management, and model-driven development

- install time complete product < 1h, for Java EE scenario only < 20 min

Ramp-up starts in Q2 / 2007

- Staged delivery of features, starting with pure Java EE 5 scenario

Open-source project WTP („Web tools project“)

- Enhances the Eclipse platform with Java EE development tools
 - Source and graphical editors, Java EE project types, models, ...
 - Tools for Web services
 - Database access and query tools (DALI)
- <http://www.eclipse.org/webtools/>

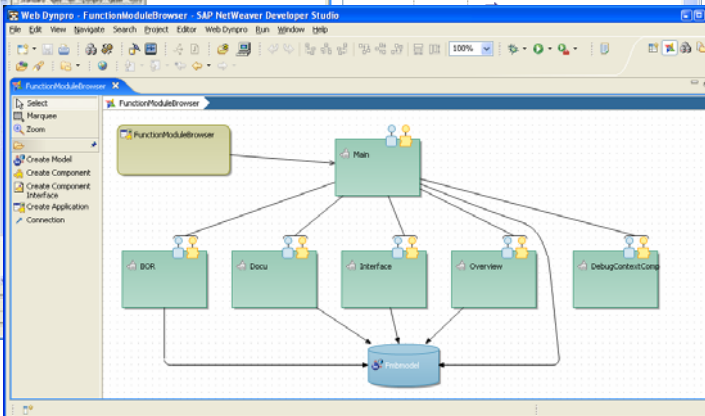
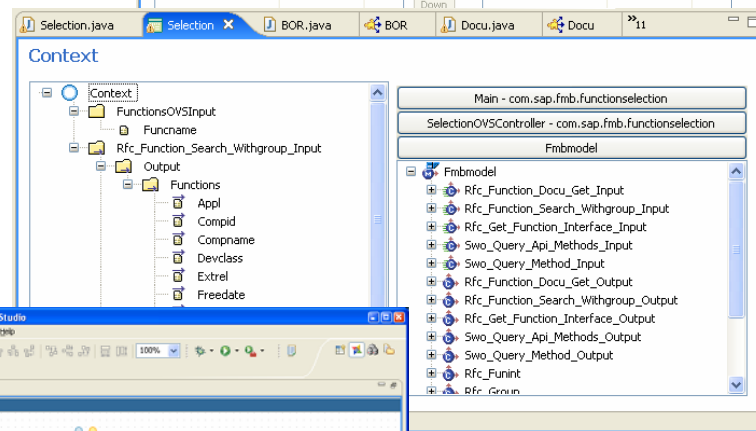
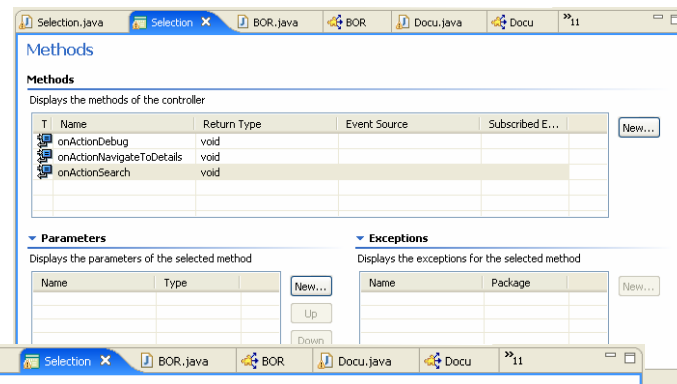
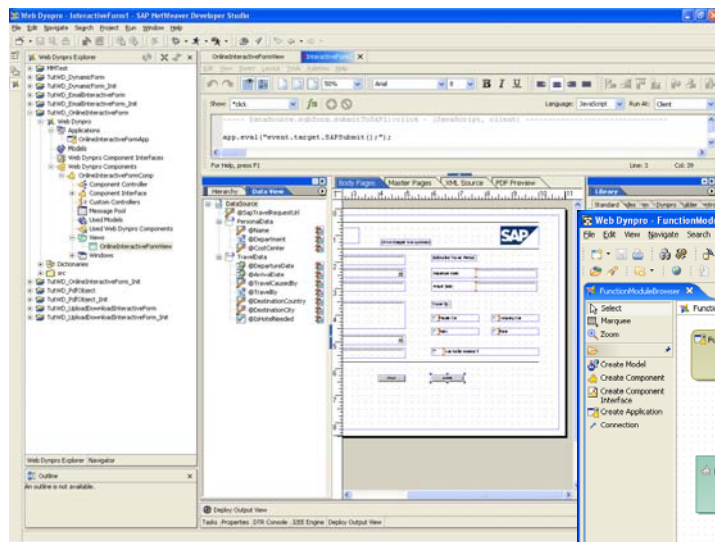


CE release of NWDS uses WTP as its Java EE tool set

- SAP NetWeaver Composition Environment 7.1 comes with WTP 1.5, which supports J2EE 1.4
 - switch to Eclipse 3.3 / WTP 2.0 planned for SP03 (Q4/2007)
- SAP NetWeaver Developer Studio enhancements:
 - wizards for Java EE 5 features (EJB 3.0, JSF, ...)
 - some special features, e.g. on-the-fly debugging
- Note: Deployment on other servers, e.g. JBoss, is still possible!

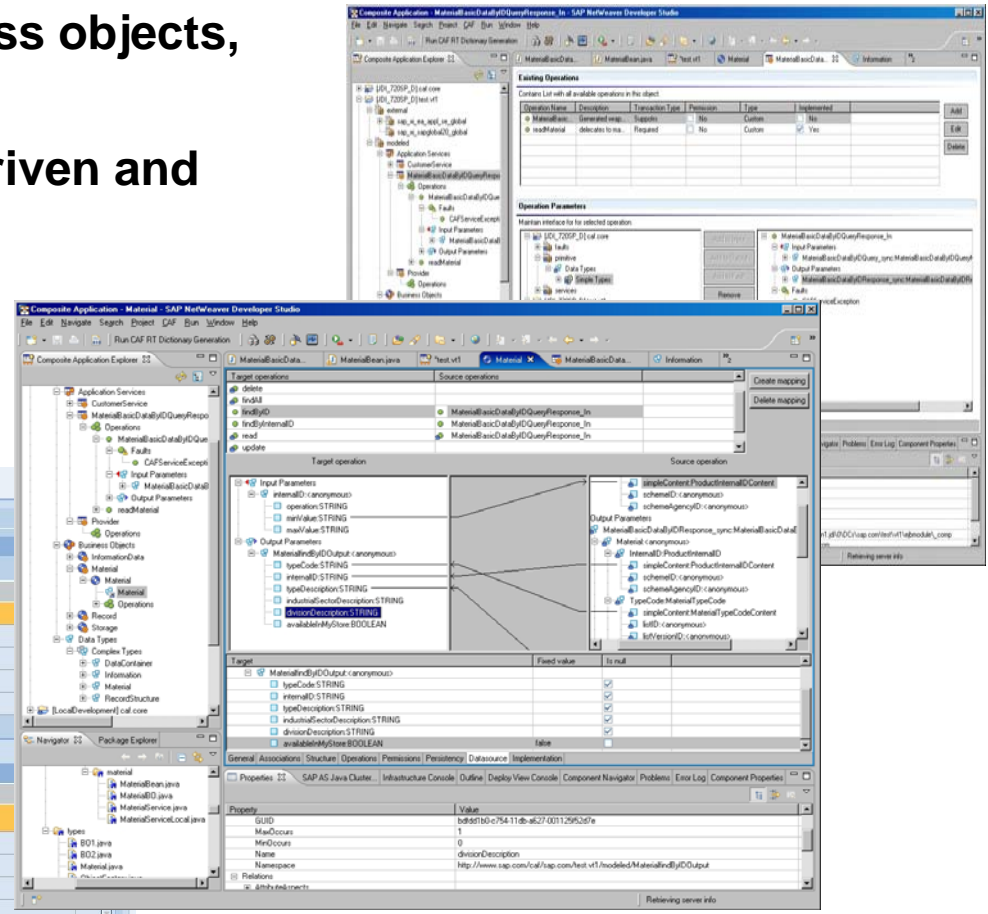
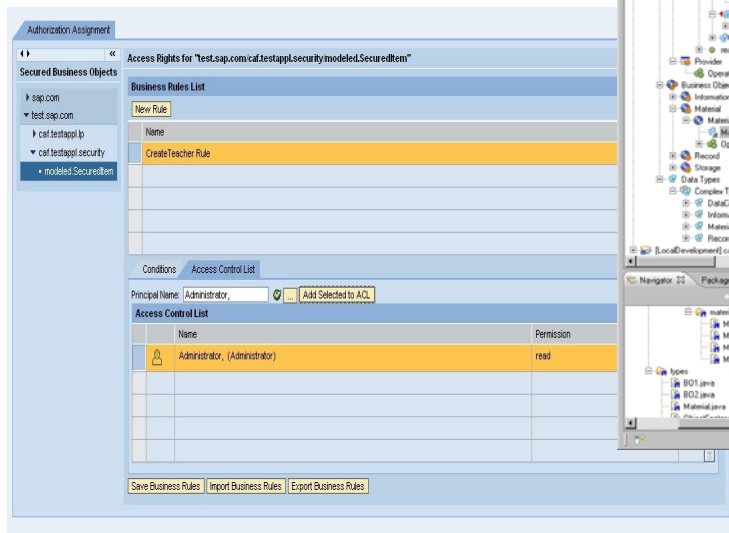
Model-driven creation of business applications

- **Independent of client technology**
 - HTML, Rich Client, Adobe, Mobile
- **Synergy between graphical modeling and Java coding**
- **End-to-end development support**
 - from modeling down to debugging



Standard-based construction and composition of business services

- Comprehensive environment for modeling services, business objects, data types, etc. in Java
- Synergy between model-driven and code-centric approaches
- Built-in best practices and SAP integrations



SAP NetWeaver Developer Guide available as online help

The screenshot shows the 'Welcome' page of the SAP NetWeaver Developer Studio. It features a navigation bar with icons for Overview, Tutorials, Samples, What Next?, and Workbench. Below the navigation bar, there is a main content area with a welcome message and several sections: 'Standard Java Enterprise Development', 'Developing Applications with Java EE 5', 'Developing Web Services', and 'Developing User Interfaces with Web Dynpro'. The 'Developing Applications with Java EE 5' section includes a brief description of the development process.

The screenshot shows a page titled 'DEPLOYING AND RUNNING THE SAMPLES'. It provides an overview of the steps to perform the available sample applications. Below the title, there is a section for 'JAVA EE 5 / J2EE SAMPLES' with a table for 'CONVERTER APPLICATION'. The table has columns for 'Standards Compliance' (Java EE 5), 'URL' (http://<host>:<port>/ConverterW...), and 'Use Cases' (The application represents a simple solution for currency conversion). Below the table, there are instructions on how to get the application running, including steps like 'Import the sample application' and 'Open the Servers view'.

The screenshot shows the 'Help - SAP NetWeaver Developer Studio' window. It features a search bar and a 'Contents' pane on the left. The 'Contents' pane lists various guides, including 'Workbench User Guide', 'Java Development User Guide', 'Platform Plug-in Developer Guide', 'JDT Plug-in Developer Guide', 'Plug-in Development Environment Guide', 'SAP NetWeaver CE Developer Studio Documentation', 'Developing Applications', 'Using the Development and Production Infrastructure', 'API Reference', 'Dictionary Runtime', 'Security', 'Engine', 'Open SQL', 'Java Resource Adapter', 'Common Model Interface', 'Web Dynpro Runtime', 'Dali Object-Relational Mapping Tool User Guide', 'Visual Editor for Java User Guide', and 'Web Application Development User Guide'. The main content area displays the 'Developer's Guide' section, which includes an introduction to the SAP NetWeaver Composition Environment (SAP NetWeaver CE) and a list of sections covered in the guide, such as 'Developing Applications' and 'Using the Development and Production Infrastructure'.

The screenshot shows the 'Overview' page of the SAP NetWeaver Developer Studio. It provides information about the programming model support and more. Below the title, there are sections for 'Overview', 'Tutorials', 'Samples', and 'What Next?'. The 'Overview' section includes a brief description of the programming model support. The 'Tutorials' section offers several step-by-step tutorials for quick access. The 'Samples' section provides a set of sample applications ready to be imported into the workspace. The 'What Next?' section offers access to further information about the SAP NetWeaver Application Server.

- Welcome Pages
- Tutorials / Samples
- Reference Applications