Session ID: ESA107
Roadmap for
SAP NetWeaver
& Microsoft .NET

This presentation is delivered to you jointly through the Collaboration Technology Support Center of SAP and Microsoft
For a better understanding of this presentation please note:

- The CTSC focuses on technical guidance and information around integration of SAP and Microsoft product stacks.
- The CTSC maintains a neutral position between SAP and Microsoft.
- This presentation is a jointly agreed presentation of the CTSC.
- This presentation may only be used without alterations and deletions.
The Collaboration Technology Support Center

The SAP and Microsoft Alliance

NetWeaver and .NET Interoperability Roadmap

The Collaboration Technology Support Center

Summary and Q&A
The Collaboration Technology Support Center

The SAP and Microsoft Alliance

NetWeaver and .NET Interoperability Roadmap

The Collaboration Technology Support Center

Summary and Q&A
1993
APRIL 1993
Agreement between Bill Gates and Hasso Plattner

JULY 1995
Microsoft selects SAP for its global finance implementations

OCT 1997
DCOM Component Connector availability

MARCH 2000
mySAP.com solutions on Pocket PC

APR 2003
Windows Server 2003 support

OCT 2004
PDK for Microsoft .NET and .NET Connector v2.0

APR 2005
Announcement of joint Mendocino product

1994
APRIL 1994
First R/3 Release on Windows NT

AUGUST 1995
Microsoft SQL Server Support

OCT 99/ FEB 00
Microsoft and SAP partner for mySAP.com and Windows 2000 launch

NOV 2001
Microsoft uses mySAP SCM to manufacture the Xbox

NOV 2002
mySAP CRM Mobile Client on Tablet PC

MAY 2004
SAP NetWeaver and Microsoft .NET interoperability announcement

2005
NOV 2001
Microsoft uses mySAP SCM to manufacture the Xbox

MARCH 2000
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APR 2003
Windows Server 2003 support

OCT 2004
PDK for Microsoft .NET and .NET Connector v2.0
“More than any other company we work with, SAP has strong influence on our product development, and we see that growing in the future.”

Bill Gates, Chairman and Chief Software Architect, Microsoft

„This relationship consists to 95% of partnership and 5% of competition.“

Henning Kagermann, CEO, SAP AG (CeBIT, Germany 2003)
Openness

- Full interoperability for .NET and J2EE
- Platform independent

Business Value

- Innovative business processes
- Flexible business strategies
- Easy development of best practices
- Reduced total cost of ownership

SAP NetWeaver™

- PEOPLE INTEGRATION
  - Multi channel access
  - Portal
  - Collaboration

- INFORMATION INTEGRATION
  - Bus. Intelligence
  - Knowledge Mgmt
  - Master Data Mgmt

- PROCESS INTEGRATION
  - Integration Broker
  - Business Process Mgmt

- APPLICATION PLATFORM
  - J2EE
  - ABAP
  - DB and OS Abstraction

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Open and connected
- Connected Systems
- Efficient Operations
- Connected Productivity
- Trustworthy Computing

Business Value
- Trustworthy Computing
- Low TCO
- Quick time to value
- High Scalability and Reliability
- Accelerates Implementations of Microsoft and Partner Solutions
- Large Developer base
Importance of Interoperability: Development

From J2EE Versus .NET: The Divide Inside IT, September 2004

Primary Development Platform: App Delivery Teams Favor J2EE; Others .NET

<table>
<thead>
<tr>
<th>Job title category</th>
<th>J2EE</th>
<th>.NET</th>
<th>(n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application delivery</td>
<td>61%</td>
<td>39%</td>
<td>67</td>
</tr>
<tr>
<td>Senior IT and IT strategy</td>
<td>54%</td>
<td>46%</td>
<td>87</td>
</tr>
<tr>
<td>General IT management</td>
<td>30%</td>
<td>70%</td>
<td>108</td>
</tr>
<tr>
<td>Other IT</td>
<td>38%</td>
<td>62%</td>
<td>50</td>
</tr>
<tr>
<td>All respondents</td>
<td>44%</td>
<td>56%</td>
<td>322</td>
</tr>
</tbody>
</table>

Base: 322 North American software decision-makers

*“All respondents” includes 10 respondents with business-focused titles – too few to include in this chart.
Source: Forrester’s Business Technographics® April 2004 North American Benchmark Study
Interoperability Matters!

Customers are faced with choosing the best technology components from both SAP and Microsoft and having an integration between those for their specific needs.

Therefore, interoperability of SAP and Microsoft is of utmost importance.
Microsoft and SAP Raise the Stakes for Web Services for the Enterprise
Companies Deepen Relationship Through Broad Integration of SAP NetWeaver With Microsoft .NET

NEW ORLEANS, WALLDORF, Germany, and REDMOND, Wash. — May 12, 2004 — Microsoft Corp. and SAP AG today announced a significant expansion of their long-standing relationship based on a shared commitment to Web services as the foundation for the next generation of enterprise software. The two companies detailed a road map for deeper integration between Microsoft® .NET and SAP NetWeaver®, the companies’ respective strategic platform initiatives, allowing customers to get more out of business-critical SAP® applications and technologies running in collaboration with Microsoft .NET. The jointly developed solutions will greatly enhance access to SAP NetWeaver functionality for developers using Microsoft Visual Studio® .NET and will increase the interoperability between SAP solutions and the Microsoft Office System.

SAP and Microsoft Announce First Joint Product Designed to Revolutionize How Information Workers Access Enterprise Applications

New product, code-named "Mendocino," will present SAP processes and data within familiar, easy-to-use Microsoft Office software.

COPENHAGEN, Denmark -- April 26, 2005 -- SAP AG and Microsoft Corp. today announced they are jointly developing and planning to offer a new product, code-named "Mendocino," that will help companies gain a competitive advantage by revolutionising the way information workers access, analyze and use enterprise data to make better business decisions. "Mendocino" will link SAP process functionality directly to Microsoft® Office applications. Users of this product, the first to be developed jointly between SAP and Microsoft, will enjoy the familiarity of Microsoft Office as they access SAP’s best practice business processes and information. The announcement was made at SAPPHIRE® ’05, SAP’s international customer conference being held in Copenhagen, Denmark, April 26-28.

This roadmap contains the current status for existing or announced interoperability scenarios between SAP NetWeaver and Microsoft .NET.

- Solution ready
- Solution announced
- Collaboration Brief on SAP Developer Network (SDN)

Development Interoperability
- SAP Enterprise Portal Development Kit for .NET (PDK .NET)
- SAP connector for Microsoft .NET 2.0

People Integration
- Mendocino (Technical Preview 4Q05)
- Identity Management

Information Integration
- Document Management Interoperability (2005)
- Content Management Integration

Process Integration
- Web Services Collaboration (Ongoing)
- BizTalk Server and SAP XI Interoperability

Application Platform
- Windows and SQL Server (Ongoing)

(Status: September 2005; list is incomplete; This presentation reflects current planning. Contents may be changed without prior notice, and are in no way binding upon SAP)
The SAP and Microsoft Alliance

NetWeaver and .NET Interoperability Roadmap

The Collaboration Technology Support Center

Summary and Q&A
Interoperability

- Develop iViews using Microsoft Visual Studio .NET
- Integrate Microsoft based applications into EP
- Seamless integration with SAP Enterprise Portal 6.0
- Leverage resources around Microsoft .NET framework and ASP.NET
- Israeli Ministry of Finance: „Our .NET developers were comfortable using the SAP portal development kit for .NET within just two hours.”

Product Roadmap

- First Prototype shown at Sapphire 2003 by Shai Agassi (SAP) and Eric Rudder (MSFT)
- Download from SAP Developer Network
PDK .NET: Architecture

Visual Studio .NET

- .NET Server
  - .NET iView
  - .NET Portal Services
  - SAP .NET Controls
  - SAP connector for .NET

Deployment

Interoperability Framework

SAP J2EE – EP 6

- .NET Proxies & Managers (iViews & Services)
- Portal Services
What is a .NET iView?

- .NET iView can be developed like an ASP.NET page
- Access to Enterprise Portal services offers true integration
- SAP .NET Controls provide a set of .NET user interface controls that support SAP unified rendering

The .NET Server

- ASP.NET Networking process is used to run the .NET iViews. IIS is not being used
- Interoperability Framework allows API calls from the Java stack to the .NET stack and vice versa.
PDK .NET: Visual Studio Integration

- SAP Menu
- Solution Explorer
- SAP Server Explorer
- SAP UI Controls
- Context Sensitive Help

Microsoft

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Example: Find Route using MapPoint Web Service
What's new in PDK for .NET Patch 3?

- Enhanced debugging on shared portal server
- IntelliSense in HTML
- New and Enhanced Controls
  - Listbox (enhanced)
  - Combobox, SAPRequiredValidator, RadioButtonGroupByKey (new)
- Portal System Template
- Server-Side Events
- Others
  - Installation & Upgrade Tool
  - MMC Snap-In for SAP Portal Runtime
  - CCMS Monitoring Tools Integration
  - High Availability through clustering, load balancing and failover mechanisms
**Highlights**

- Access SAP business objects and function modules in .NET based applications
- Extend mySAP applications with .NET components

**Version 2.0**

- Support for C# and VB .NET
- Seamless integration into Visual Studio
- Drag-and-Drop Proxy Generation
Development Paths for SAP-centric Applications

„Whatever technology you prefer, ...
Development Paths for Microsoft-centric Applications

... key to interoperability is a Service Oriented Architecture.™
People Integration

SAP NetWeaver™
- **PEOPLE INTEGRATION**
  - Enterprise Portal
  - Mobile Infrastructure
  - PDK for .NET

- **INFORMATION INTEGRATION**
  - Bus. Intelligence
  - Knowledge Mgt.
  - Master Data Mgt.
  - T Rex Search

- **PROCESS INTEGRATION**
  - Exchange Infrastructure
  - Advanced Web Services

- **APPLICATION PLATFORM**
  - Solution Manager
  - .NET Connector

Microsoft .NET
- **PEOPLE INTEGRATION**
  - Mendocino
  - Office System
  - Windows XP
  - Windows Mobile

- **INFORMATION INTEGRATION**
  - Sharepoint
  - Exchange
  - Content Mgt. Srv.
  - SQL Analysis/Rep.

- **PROCESS INTEGRATION**
  - Advanced Web Services
  - BizTalk Server

- **APPLICATION PLATFORM**
  - Single Sign-On
  - Active Directory
  - System Center
  - Windows Server / SQL Server

Microsoft.NET Framework
Visual Studio Portal

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Project Mendocino

Uniting the Universes of the Desktop and the Enterprise

1st joint product of SAP and Microsoft extending partnership to the next level

Designed for information workers who spend a lot of time in Microsoft Office

Extends selected SAP business processes into Microsoft Office manager and employee self-services for Mendocino version 1.0

Instantly usable
Revolutionizes access to enterprise applications

Shortest time-to-value
Higher productivity and better decision making for enterprise information workers
New Scenarios

- **Time management** – Use Outlook calendar as front-end for SAP time reporting
- **Budget monitoring** – Receive reports in your Outlook Inbox and work offline
- **Leave management** – Add leave requests as calendar items integrated with SAP approval guidelines
- **Org management** – Up-to-date information about employees integrated in Outlook contacts
- **Personnel Change Requests** – Trigger changes to personnel using Infopath forms
Timeline

2005
Limited Customer Preview Release
Q4 2005

2006
Mendocino General Availability

2007

Limited Preview Release Late 2005
Employee and Manager Role

General Availability Second half 2006
General Availability

Highlights

- Built on XML support in Microsoft Office System
- Expose enterprise business objects (entities) of interest
- Relate entities across multiple LOB systems
- Contextually access and act on entities using smart tag/attached schema Office documents
- Mendocino uses future version of IBF
Identity Management: User Management

**SAP NetWeaver™**
- Enterprise Portal
- mySAP ERP HCM
- mySAP Business Suite

**w/o MIIS**
- Use as user repository
- Create and modify users
- Synchronize user data
- CUA

**with MIIS**
- Import/export Employee data
- Create and modify users

**Microsoft Active Directory**

**Microsoft Windows Server**

**Collaboration**

Brief available

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Identity Management: Single Sign-On / Authentication

SAP NetWeaver™ - Portal Framework

User (Windows Workstation)

SSO or Authentication

SAP Enterprise Portal

mySAP Business Suite

Microsoft Active Directory

Microsoft Windows Server

SAP Kerberos Ticketing Bridge

Kerberos Ticket

SAP Logon Ticket

SAP Logon Ticket

Identification

Microsoft .NET Application

SSO or Authentication

SAP
eEnterprise
Portal

mySAP Business Suite

Microsoft Active Directory

Microsoft Windows Server

Collaboration Brief available

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Identity Management: Single Sign-On / Authentication

- Microsoft Active Directory
- Microsoft Windows Server
- User (Windows Workstation)
- Kerberos Ticket
- SSO: Windows Integrated Authentication
- Microsoft .NET
- Share Point Portal Server
- User mapping
- mySAP Business Suite
- Microsoft .NET Application
- Authentication

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Why SAP Mobile Infrastructure?

- Runs on PocketPC 2003, Win32Real End-to-End solution
- Complete solution for enterprise mobility
- Platform independent
- Support open Industry Standards
- Back-End Integration of SAP and non-SAP systems
- Central Administration and Maintenance
- Support for Customer-specific development

Valuable Benefits

- Mobile Service/ Sales for handheld using CRM
- Mobile Sales for handheld using R/3
- Mobile Asset Management
- Mobile Procurement
- Mobile Time and Travel
- …
**Product Overview**

- Windows Sharepoint Services ship with Windows Server 2003
- Sharepoint Portal Server integrates corporate WSS sites and adds services (search, navigation)
- WSS and SPS as a document collaboration tool and portal platform

**Interoperability**

- Unified view from SAP Knowledge Management to locally stored documents and outside repositories
- Leverage the investment in Microsoft document repositories
- Portlet (iView, WebPart) Syndication through WSRP not yet possible

**Product Roadmap**

- Microsoft will provide WebDAV Connector for Sharepoint
- Access Sharepoint document libraries using SAP WebDAV Repository Manager
Product Overview

- Exchange Server offers Public Folders of interest
- WebDav Repository Manager for SAP EP connects to Public Folders

Interoperability

- Unified view from SAP Knowledge Management to outside repositories

Product Roadmap

- Exchange specific Repository Manager solution described in Collaboration Brief

Collaboration Brief available
Microsoft Content Management Server

- Content Management Server (CMS) is a comprehensive solution for content creation, publishing, and storage

- Microsoft Word, FrontPage as Simple Content Editing Tools

- CMS iViews from Spell GmbH to publish content and support Business Managers and Business Users inside SAP Enterprise Portal

SAP Business Package for Web Editing

- Publish content of Microsoft Office documents in SAP Enterprise Portal

- Consulting Solution of SAP Consulting Germany
**SAP NetWeaver™**

- **People Integration**
  - Enterprise Portal
  - Mendocino
  - Office System
  - Mobile Infrastr.
  - PDK for .NET
  - Windows XP
  - Windows Mobile

- **Information Integration**
  - Bus. Intelligence
  - Knowledge Mgt.
  - Master Data Mgt.
  - TReX Search
  - Sharepoint
  - Exchange
  - Content Mgt. Srv.
  - SQL Analysis/Rep.

- **Process Integration**
  - Exchange Infrastructure
  - Advanced Web Services
  - Advanced Web Services
  - BizTalk Server

- **Application Platform**
  - Solution Manager
  - Single Sign-On
  - Active Directory
  - System Center
  - .NET Connector
  - Web Appl. Server
  - Windows Server / SQL Server

**Microsoft .NET**

- **Microsoft .NET Framework**
- **Visual Studio**

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### Interoperability

- Reliable messaging between SAP XI 3.0 and Microsoft BizTalk 2004 is possible using SOAP compliant communication
  - including QoS Exactly Once
- Both companies drive advanced Web service protocols standards enabling reliable and transacted interoperability
  - BPEL4WS
  - WS-I Basic Profile
  - WS-RM (Reliable Messaging)
- BizTalk Server Adapter for *mySAP Business Suite (SAP certified)* using SAP connector for Microsoft .NET

<table>
<thead>
<tr>
<th></th>
<th>SAP XI 3.0</th>
<th>Microsoft BizTalk Server 2004</th>
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<tbody>
<tr>
<td>Monitoring</td>
<td>Central Monitoring</td>
<td>Business Activity Tracking</td>
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<tr>
<td>Messaging</td>
<td>Integration Engine</td>
<td>Orchestration Engine</td>
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<td></td>
<td>Adapter Engine</td>
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<td>Transport</td>
<td>Adapters</td>
<td>Adapters</td>
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<tr>
<td>Repository</td>
<td>Integration Repository / Integration Directory</td>
<td>BizTalk Configuration Database</td>
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<tr>
<td></td>
<td>System Landscape Directory</td>
<td>BizTalk Assemblies</td>
</tr>
</tbody>
</table>

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Microsoft Platforms

Windows Server: New x64-bit Architecture

- Major improvement of price/performance based on new processors AMD Opteron and Intel EM64T processors
  - 64-bit addressability, while maintaining support for 32-bit applications
  - multi-core chip enhancements
- x64 will become the mainstream technology following x86
- SAP will fully support this new architecture

SQL Server 2005

- Major enhancement regarding High Availability and easier administration with SQL 2005
  - Database Mirroring
  - Database Snapshot
  - Table Partitioning
  - Online Index (Re)build
  - Fast Recovery
- Available November 2005
Monitoring and System Management

Microsoft Operation Manager
MOM (Tidal Horizon for SAP)
- Automated problem identification and analysis of multiple SAP instances with capture of real time work processes
- Automates daily SAP Administrator checklist
- Analyzes individual applications and transactions

SAP Solution Manager
- Problem identification and analysis of systems and business processes for ABAP and Java applications
- Automates SAP Administration tasks
- Provides statistical reports along with recommendations and integration to SAP Service Delivery (SAP EarlyWatch Alert and Service Level Reporting)

Collaboration Brief available
The SAP and Microsoft Alliance

NetWeaver and .NET Interoperability Roadmap

The Collaboration Technology Support Center

Summary and Q&A
The Microsoft-SAP CTSC

"The Collaboration Technology Support Center is a joint team of experts from SAP and Microsoft that provides guidance and help for better integration between SAP and Microsoft products."

The CTSC maintains a neutral Position between SAP and Microsoft towards customers and partners.

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Relationship Triangle: Customer, SAP, Microsoft

Customer

SAP Microsoft
 Competence Center

Collaboration
Technology Support Center (CTSC-MS)

Partner

Development

Consulting
Sales

SAP

Microsoft

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The CTSC Engagement Model

Roll-In
- Initiate
- Assess

Roll-Out
- Present
- Transfer

Consulting
- New Scenario?
- Business Case
- CTSC Steering Committee
- Existing Solution?
- Partner
- Prototype / CTSC Lab
- Document Solution

Collaboration Brief
- Customer Reference
- Success Story
- Case Study
- Event / Webcast
- Customer Briefing

SAP Developer NetWork (SDN)
- Microsoft WebSite
- SAP or MSFT Development
- Customer
- Partner

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Customer Reference
Success Story
Case Study
Event / Webcast
Customer Briefing
SAP Developer NetWork (SDN)
Microsoft WebSite
SAP or MSFT Development
Customer
Partner

CTSC Steering Committee
.NET Interoperability in SAP Developer Network

.NET Interoperability

New PDK for .NET Release
02 June 2005
The newly released Portal Development Kit (PDK) 1.0 Patch 3 enables .NET developers to build, debug, and deploy applications for SAP Enterprise Portal (SAP EP) in the MS Visual Studio .NET environment. See http://sdn.sap.com (POF 352 KB) in the PDK for .NET 1.0 Patch 3, including enriched design-time environment, new and enhanced .NET Framework controls, enterprise-level administration capabilities, and backwards compatibility.

Developing Views for SAP Enterprise Portal with the Portal Development Kit for .NET
12 May 2005
Guru Kreller describes how to build an app using the SAP Portal Development Kit for .NET (NET PDK). The .NET PDK allows developers to use Microsoft development tools such as Visual Studio .NET to create applications that can be integrated with SAP. The .NET PDK tools are also available for SAP developers who want to create .NET-based applications that run on SAP NetWeaver. The examples in the article illustrate how SAP developers can create .NET-based applications that run on SAP NetWeaver.

Popular Documents
Updated 02 June 2005
- Integrating Windows File Servers into the SAP (UI5) Platform Using SSO and the WebClient Directory Manager (POF 572 KB)
- Using SAP Logon Tickets for Single Sign On to Microsoft-Integrated Web Applications (POF 309 KB)
- SAP NetWeaver .NET Controls Versus ASP .NET Controls (POF 4 KB)
- SAP Technical Brief for SAP NetWeaver™ Platform and Microsoft Active Directory (POF 221 KB)

Microsoft Cluster Server and SAP NetWeaver
02 June 2005
Application Developer Thomas Jung discusses the integration of Microsoft Cluster Server with SAP NetWeaver. The article covers how to configure the cluster, how to ensure that the cluster is properly configured, and how to ensure that the cluster is properly managed.

NET Code Sample: Create a Hyperlink in the SAP Table Control
12 May 2005
This code snippet is used to create a hyperlink in the SAP table control of the Portal Development Kit for .NET.

Microsoft Content Management Server Integration with SAP Enterprise Portal
28 April 2005
This technical paper details an integration solution that enables the user to navigate over Microsoft CMS content without leaving the SAP Enterprise Portal (SAP EP) context. The Microsoft CMS content are displayed in a tree-based structure. Different nodes, or entities, can be specified in the standard SAP EP Navigation (POF 209 KB).

Featured Weblog
The Mendocino Experience
In this SDN exclusive, SAP Executive Board member Shlomo Agassi shares his personal view on why "Mendocino," the first product to be developed and delivered jointly by SAP and Microsoft, is a milestone in the enterprise software landscape.
SAP Interoperability with Microsoft

Microsoft and SAP share a commitment to Web services as the foundation for the next generation of enterprise software. The two companies have established a roadmap for deeper integration between Microsoft .NET and SAP NetWeaver, the companies’ respective strategic platform initiatives, allowing customers to get more out of business-critical SAP applications and technologies running in collaboration with Microsoft .NET.

The jointly developed solutions will greatly enhance access to SAP NetWeaver functionality for developers using Microsoft Visual Studio .NET and will increase the interoperability between SAP solutions and the Microsoft Office System. Intrinsic support for industry-standard Web services integration techniques promises to make business integration faster, cheaper and easier, and further unlock the value of business information to enhance productivity and spur better business decision-making.

Overall
- Microsoft and SAP Customer Information Center

Press Releases and Analyst Reports
- SAP and Microsoft Announce First Joint Product Designed to Revolutionize How Information Workers Access Enterprise Applications (April 26, 2005)
- Microsoft and SAP Deliver on Plans to Deepen Integration of SAP NetWeaver and Microsoft .NET (January 12, 2005)
- Microsoft and SAP Raise the Stakes for Web Services for the Enterprise (May 12, 2004)
- Gartner FirstTake: Microsoft/SAP Alliance Advances Platform Interoperability (May 12, 2004)

Webcasts
- Hearing Kagermann and Bill Gates at SAPPHIRE 04

Microsoft on Interoperability with SAP

Solutions
- Solution Guide for RealTime Enterprise Line-of-Business

SAP on Interoperability with Microsoft

Solutions
- Clicking the following link opens the article in Adobe Reader, which you can download from the Adobe site.
  - SAP Technical Brief on SAP NetWeaver Platform and...
Documents for Interoperability NetWeaver and .NET

Collaboration Briefs in SAP Developer Network

- Using SAP Logo Tickets for Single Sign on to Microsoft based web applications
- Creating users in Active Directory from employee data stored in SAP HR
- Integration of Outlook Web Access (OWA) into SAP Enterprise Portal
- SAP Enterprise Portal Development Kit for Microsoft .NET 1.0 (PDK for .NET)
- SAP CCMS Monitors Microsoft Windows Eventlog
- Access to the SAP BW ODS BAPI using C# and SAP .NET Connector 2.0
- Access SAP BW OLAP BAPI Using C-Sharp and SAP .NET Connector 2.0
- Microsoft Content Management Server Integration with SAP Enterprise Portal
- Integration of Windows File Servers into the SAP KM platform using SSO and the WebDAV repository manager
- Interoperability between SAP Enterprise Portal 6.0 and Microsoft SharePoint 2003

General Documents

- Solutions in Detail: SAP NetWeaver and Microsoft .NET
- Technical Brief: SAP Connector for Microsoft .NET
- Technical Brief: SAP NetWeaver and Microsoft Active Directory
- Success Story: PDK .NET at Government of Israel
- Success Story: EnBW Central User Administration
CTSC Collaboration Brief

Documents key interop scenarios

- Concepts
- Step-by-step samples
- More than 10 papers under way or available already

Help others understand Interoperability

- Become an author
- Talk to us at ctsc@sap.com ctsc@microsoft.com
Further Information

Public Web

www.sap.com
SAP Customer Services Network: www.sap.com/services/
http://www.sdn.sap.com ➔ SAP NetWeaver ➔ .NET Interoperability
http://service.sap.com ➔ microsoft
http://www.microsoft-sap.com
http://www.microsoft.com/windowsserversystem/interop ➔ SAP

Related SAP Education Training Opportunities

http://www.sap.com/education/

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## Related Workshops/Lectures at SAP TechEd 2005

<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>CD100</td>
<td>Portal Development Kit for .NET, Lecture</td>
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<tr>
<td>CD352</td>
<td>Content Creation with PDK for .NET, Hands-On</td>
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<tr>
<td>UP355</td>
<td>Integrating Windows File Servers into Knowledge Management with SSO and WebDAV, Hands-On</td>
</tr>
<tr>
<td>UP259</td>
<td>Using SAP Mobile Application Studio to Customize mySAP CRM Field Applications, Hands-On</td>
</tr>
<tr>
<td>UP260</td>
<td>Web-Based Authoring with SAP NetWeaver Portal &amp; Knowledge Management, Hands-On</td>
</tr>
<tr>
<td>IM255</td>
<td>MS Excel Integration with the New Business Explorer Analyzer, Hands-On</td>
</tr>
</tbody>
</table>

... or meet us at the Microsoft booth
Questions?

Q&A
Please complete your session evaluation.

Be courteous – deposit your trash, and do not take the handouts for the following session.

Thank You!