BW Repository Manager and BEx Portfolios
04/16/04
Amelia Lo
SAP NetWeaver RIG
Agenda

SAP NetWeaver

Repository Manager: Overview

Repository Manager: Realization

Integration: TREX – search & indexing

Integration: Collaboration

Discussion
SAP NetWeaver 2004, the Enabler of Change

CTC
Change the Company

Innovation

Growth

Low TCO

RTC
Run the Company

Business Objectives
- Flexibility in Business Strategies
- Innovative Business Processes
- Sustainable Cost Structure

Technology Objectives
- Delivery of superior Business Value
- Open, Flexible Architecture
- TCO Reduction across entire IT Landscape

PLATFORM delivers the enabler of change: SAP NetWeaver 2004
RIG Lighthouse Scenarios

Proving the point of Implementation Readiness of Cross NetWeaver Scenarios (10 Scenarios, 7 Subject Areas):

- **BW Repository Manager**  → Integration of EP, BI
- **Information Broadcasting**  → Integration of EP, BI
- **BI: XML/XI Staging and Extraction**  → Integration of XI, BI, WAS
- **UDDI Registry**  → Integration of WAS, BI, WS
- **Integrated Development Platform**  → Integration of WAS, PDK, BI SDK
- **Workflow and Alert Resolution**  → Integration of XI, WAS, EP
- **Central Alert Management**  → Integration of WAS, BI
Swim Lane for the Lighthouse Scenario 1

- **TREX**
  - Execute Query Search
  - Build Taxonomy

- **KM**
  - KM Repository Manager
  - Store in KM

- **BW**
  - BW Meta Data Repository BW Documents
  - Query Pre-calculation (Broadcast)
The Scenario

- A development project team need to assess the design and prototype of the HR Executive Analytics

- Business requirement
  - The team needs a place to Collaborate, to enable online discussion
  - Easily access the design material: BW MetaData Repository
  - Ability to search for BW queries, cockpits, meta data by keyword,
  - Publish the prototype into Collaboration room
  - Ability to access project documents and other unstructured information
Collaboration with SAP NetWeaver

- **Designer**
  - Search BW/HR MetaData
  - Team discussions
  - Industry best practices

- **Project Manager**
  - Activity assignment and tracking
  - Review the design and deliverables
  - Issue discussion

- **Executive**
  - Provide Requirements
  - Review deliverables
  - Feedback

- **Developer**
  - Review Requirements
  - Develop deliverables
  - Feedback

- **HR Manager**
  - Provide Requirements
  - Review deliverables
  - Feedback

**Integration**

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SAP NetWeaver

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Discussion
What is a Repository Manager (RM)

- RM is a Connector between an “Information Source” and the Repository Framework (RF) within Knowledge Management (KM) Platform.

- RM is responsible for converting the repository’s internal representation of stored information into the unified aspects of the RF and vice versa.

- RM stores items and their properties with external repositories to enable the Knowledge Management capabilities to integrate information of all kinds of sources.

- RM enables the access to all repository services under the KM platform (i.e. subscription, discussion, collaboration, search & indexing)
Motivation of BW Repository Managers

Integration

- Seamless Integration of BW metadata and documents with Enterprise Portal 6.0 and KM
- Enable the access of all SAP BW metadata, master data, queries, web templates and transactional documents in Enterprise Portal 6.0
- Leverage SAP NetWeaver Knowledge Management Services such as subscription, feedback, discussion, collaboration, rating, search & Indexing
- Enable BEx Information Broadcasting to add links to online queries or Web applications to the BEx Portfolio for EP integration

Status: Q1 2004
* Restricted & release dependent availability (detailed information via your SAP contact)
** As pilot partners for connector (‘repository manager’) implementation
*** As consulting offer by Documentum

Connectors (‘Repository Manager) as of today (more to come):
- Windows File Server
- Web Servers
- WebDAV compliant servers
- SAP PLM DMS*
- SAP Knowledge Warehouse*
- Lotus Notes
- FileNet**, IXOS**, Documentum***
- EP KM repository (internal KM database)
Delivered BW Repository Managers

Repository Managers in BW 3.5

- BW MetaData Repository
- BW Document Repository
- Standard KM Documents Repository used for Pre-calculated web templates and history

Prerequisites

- SAP Enterprise Portal 6.0 SP4
- SAP BW 3.5
BW Repository Managers

- Better integration of BW documents and metadata documentation into EP 6.0
- Enable KM services like subscription, retrieval, discussions for documents as well as for metadata documentation
- Enable EP based TRex Search

**BW Server**

1. Access to generated metadata documentation (e.g. query documents)
2. Access to meta-, master- and transaction data documents in BW

**BEx Portfolio with Flexible UI**

**Repository Services**

- Collaboration
- Search & Indexing
- Subscription
- Discussion-forums

**BW Document Repository Manager**

**BW Metadata Repository Manager**

**Repository Manager CM Store**

3. Precalculated web templates & workbooks
Agenda

SAP NetWeaver

Repository Manager: Overview

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Integration: TREX – search & indexing

Integration: Collaboration

Discussion
Set Up BW Repository Managers in EP

- **Pre-requisite Technical Setup**
  - BW 3.5 and EP 6.0 Integration (RFC connections, SSO and certificate export/import etc.)

- **Configure BW Repository Managers in EP 6.0 SP4**
  - Setup BW Document Repository Manager
  - Setup BW MetaData Repository Manager

- **Setup the Links to BW MetaData and Documents**
Configure BW Repository Manager

Enterprise Portal ➔ System Administration ➔ System Configuration ➔ KM ➔ configuration

Go to Content Management ➔ Repository Managers ➔ BW Document Repository or BW Metadata Repository

**Welcome Amelia Lo**

- Keystore Administration
- UM Configuration
- System Landscape
- Service Configuration
- Knowledge Management
  - Configuration
  - Index Administration
- Universal Worklist Administration
- Yahoo! Model Account Administration
- Portal Licensing

**KM Configuration**

- **You are here:**
  - Configuration
  - Content Management
  - Repository Managers
- **Folders**
  - Protocols
  - Repository Filters
  - Repository Managers
  - Repository Services
  - Global Services
  - User Interface
  - Utilities
  - Form Based Publishing

**BW Document Repository**

Provides read and write access to the Documents on BW Systems

**BW Metadata Repository**

Provides BW metadata objects as read only resources
Set up a BW Metadata Repository

Important properties to set:

- **BW Backend system**: Here you have to enter the corresponding BW System Alias.
- **Prefix**: Here you have to enter the prefix of the RID / URL of all resources of this BW Metadata Repository Manager.

![BW Metadata Repository Diagram]

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Set up a BW Document Repository

Important properties to set:

- **BW Backend system**: Here you have to enter the corresponding BW System Alias.
- **Prefix**: Here you have to enter the prefix of the RID / URL of all resources of this BW Document Repository Manager.

<table>
<thead>
<tr>
<th>BW Document Repository</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BW Document Repository AB5</td>
<td>AB5CLNT003_DED</td>
</tr>
</tbody>
</table>

**View "BW Document Repository AB5"**

- **Alias of BW System**: AB5CLNT003_DED
- **Description**
- **Prefix (must start with /)**: /bw_doc
- **metadata.repository.manager**
- **Active**
Once you have created the BW repositories you can use them to set up links to BW documents.
SSO from Portal to BW Must Be Setup for Each User !!!
Agenda

- SAP NetWeaver
- Repository Manager: Overview
- Repository Manager: Realization
  - Integration: TREX – search & indexing
- Integration: Collaboration
- Discussion
What is Retrieval and Classification (TREX)?

TREX (Text Retrieval and Information Extraction) is ... 

- ...an integrated Search and Text-Mining Engine
- ...more than an Index Search Engine
- ...a support for automatic Information Structuring
- ...able to automatically classify documents into taxonomies
- ...able to index multiple Languages and Repositories
- ...able to integrate internal and external Information
TREX Architecture
Required setup in BW Repositories for TREX

Enterprise Portal ➔ System Administration ➔ System Configuration ➔ KM ➔ configuration ➔ Content Management ➔ Repository Managers ➔ BW Document Repository or BW Metadata Repository

1. Select Property Search Manager
2. Select Repository Service “Property”
Creating an index

Create an index by defining an ID (has to be unique among your index IDs).

System Administration -> System Configuration -> Knowledge Management -> Index Administration

The field Name is displayed to users in the search options.

For the service select TREX Search, TREX Search and Classification or TREX Classification for this index.
Assigning Index to the Repository

As the next step you assign a repository/folder to the index.
Define Taxonomies for classification structures

Detailed Navigation
- Keystore Administration
- UM Configuration
- System Landscape
- Service Configuration
- Knowledge Management
- Configuration
- **Index Administration**
- Universal Worklist Administration
- Yahoo! Model Account Administration
- Portal Licensing

Index Administration

ZRMTEST

An index enables the use of multiple taxonomies that provide classification structures for documents. Category matching determines how readily documents are automatically classified.

<table>
<thead>
<tr>
<th>Taxonomies</th>
<th>Automatic Classification</th>
<th>Category Matching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Auto EBC</td>
<td>Example-Based</td>
<td>✓</td>
</tr>
</tbody>
</table>

Related Links
- Repositories
- Crawler Monitor
- TREX Monitor
Permissions for Indexes

The administrator can set permissions for each index (read or write). The set of indexes that is used in quick search and the indexes that appear in the advanced search dialog depends on the users permissions for that index.

Example: A content manager has setup a certain area where he stores documents for managers. He creates an index for that area and gives only the managers read access for that index. Managers will see the index, and it will be search if the do a quick search in the portal. All other users will not see the index.
Documents to be searched need to have been regularly indexed

An individual index is built for each language
Agenda

SAP NetWeaver
Repository Manager: Overview
Repository Manager: Demo (screenshots)
Integration: TREX – search & indexing
Integration: Collaboration
Discussion
KM Platform as an integration level for collaboration

Knowledge Management – Repository Framework (Information Services)

Collaboration Framework

Enterprise Portal

Collaboration Room
Real-Time Collaboration
Groupware Integration
3rd party synchronous collaboration

WebDAV
File Server
Web
PLM-DMS
KM
Others…

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Collaboration Room (1)

Room Overview:

- Detailed Navigation
- Team Member list
- Task list
Collaboration Room (2)

Shared Documents:

Welcome Amelia Lo

Welcome To Room: Lighthouse

Room Documents

Lighthouse > HR Exec Analytics Project Document

- Name: 3/5/04 9:50 AM
- Size Rating: 246 KB
- Modified: 3/22/04 11:28:24 PM

HR Executive

Board

Decisions Strategies

Peer

Communicate

Manager

Employee

OB

HR Department

manage

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A discussion consists of one or more discussion topics. Within a topic, you can post messages concerning new posts using subscriptions.

A discussion topic consists of a series of replies, called posts, to an initial topic. You can reply to the topic or to individual posts. If you subscribe to the topic or a post, a notification is sent to you when someone posts a reply.

**Topic:** HR Exec Analytics Information PPT

**Lo, Amelia** 302204 11:43:46 PM

Hello Project team,

I would appreciate to have your thoughts on how well the information PPT is in terms of communicating the key message to customers, partners and consultants in the field. The key message should be that role, task oriented user friendly delivery of the appropriate amount and nature of the information the audiences' needs, in this case HR executive to perform their daily tasks.

Warm regards,

Amelia
Information Broadcasting Target: Collaboration Rooms

Queries, Web Apps & Worksbooks can be broadcasted into Collaboration Rooms

Collaboration Rooms Services
- Chat
- Application Sharing
- Notes
- Meeting Pad
- Discussion Forums

Instant Messaging

My Portal Contacts
Collaboration along Business Processes: Integration of mySAP Business Intelligence
Q&A