3. SAP Master Data Management

Designed to provide unified view of data from distributed and heterogeneous environment.

Able to:

- Have central repository that is master store of all data.
- Have a virtual master or copy of all data in a unified schema.

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<thead>
<tr>
<th>Prod #</th>
<th>Description</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Uniform</td>
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<tbody>
<tr>
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<td>Work Gloves</td>
<td>Clothing</td>
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</tbody>
</table>
Importance of Data Unification

JP Morgan Chase

“Without a Master Data Management (MDM) capability, we believe it will be challenging for any company to move to a services-oriented architecture.”

SAP NetWeaver Master Data Management: The Backbone of Your ESA Solution, Michael Briles
4. SAP Business Intelligence (Information Warehouse) (BI)

Support decision-making requirements of the entire enterprise regardless of data sources of access methods

Data acquisition, data warehousing, OLAP, planning framework, BI tools, dashboards and analytical applications; with pre-configured content using best-practice models.

**SAP NetWeaver Business Intelligence**

*is an enterprise-class, complete, open and integrated solution that delivers actionable insights.*

- Open, well documented APIs and interfaces along with full functionality to integrate structured and unstructured, heterogeneous data
- Convert data into information, and ensure information is delivered at the right time to the right person in the right format to support business decision making
- Scalable and reliable BI solution that is tightly integrated with SAP NetWeaver, source transactional systems and partner’s complementary tools
5 Types of Business Intelligence

Data Mining and Statistical Analysis
Enterprise Reporting
Ad Hoc Reporting
Alerts and Information Distribution
Multi-Dimension and OLAP

Changing Business Reporting

From:
  Standardized static business reporting (data dump)
  Typically textual
  Often paper-based
  Broad distribution

To:
  Alert-only reporting, Dashboards
  Graphical, electronic reporting (visually appealing)
  Content suits decision making
  Information available ‘anywhere’

http://www.youtube.com/xcelsius2008#p/u/0/DOOpFTkDiZg
Business Intelligence Key Capabilities

Data Warehousing – BW Administrative Workbench
- Extraction and transformation of business information
- Data warehouse management
- Business modeling

BI Platform
- Online analytical processing (OLAP)
- Data mining
- Alerting
- Meta data repository
- Planning framework

Suite of Tools – BW Business Explorer (BeX)
- Query design
- Managed reporting and analysis
- Visualization – web application design

5. SAP Enterprise Portal (EP)

Key components:
- **Knowledge Management**—Organize text documents by structuring and classifying them so relevant information is available. Version control.
- **Content management**—Author and publishing information in portals.
- **TREX**—information retrieval solution—builds taxonomy tree of organization data.
- Collaboration Room and **Real-time Collaboration** (RTC) – supports teams.
- Use of **Adobe Flex Framework** and Interactive Forms for providing Rich Internet Applications (RIA)
6. SAP Mobile Infrastructure

7. SAP Composite Application Framework (CAF)

Model-driven development environment that allows applications to be created through modeling.

- Code and interfaces generated visually.
- Framework for modeling (metadata) and tools.
- Visual Composer and related toolsets.
- Focus on business logic instead of programming syntax.

CAF Goal: “Build composite business applications on top of other applications without writing a single line of code.”
CAF Architecture

Composite Application Framework Building Blocks for Realizing the ESA, Mario Herger

Design Time
Process Modeler
- Guided Procedures
- Templates
UI Modeler
- WebDynpro
- Pattern Config
Service Modeler
- Services
- Templates
Object Modeler
- Business Objects
- Templates

Run Time
Metadata
- Processes
- Workflows

Process Framework
- Guided Procedures
- Universal Worklist
- Adhoc Workflow Runtime

UI Framework
- UI Components
- UI Patterns
- WebDynpro Runtime

Service Framework
- Composite Services
- External Services
- BO Services
- Generic Services

Object Framework
- Business Objects
- Lifecycle methods

Data Access Framework

UXI, KM, MM, DB

UDDI, WSDL

Composite Application Framework Building Blocks for Realizing the ESA, Mario Herger
8. SAP Lifecycle Management

Functionality within SAP to manage business processes.
Examples:
- Project Systems/Project Management
- Plant Maintenance
- Asset Lifecycle Management
- Quality Management
- Environment, Health, and Safety
- Product Data Management
- Label Management

Focus on ensuring data not lost and remains accessible.
Compliance

“...worldwide storage of compliant records will increase from 376 petabytes in 2003 to more than 1,600 petabytes in 2006...”

*Compliance Pipeline, March 2004*

The worldwide capacity of compliant records stored on disk-based solutions will increase at a compound annual growth rate of 172%

*ESG Compliance report, June 2003*

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DART (Data Retention Tool)
The Information Lifecycle

Documents/Data Created → Subsequent Documents/Data Created → Documents/Data Cleared, Business Done → Online Storage
Time Required Expires

Documents/Data Archived → Documents/Data Retrieved and Viewed → Documents/Data Retention Expires → Documents/Data Destroyed

8 Major NetWeaver Components

- SAP Mobile Infrastructure
  - Tight coupling and alignment with SAP business solutions
- SAP Enterprise Portal
  - Business packages
  - Collaboration
- SAP Business Information Warehouse
  - Business content
  - Tight integration to SAP
  - Open architecture (third-party products)
- SAP Master Data Management
  - Enables information integrity across the business network
- SAP Exchange Infrastructure
  - Proxy generation and mapping tools
  - Integration directory
- SAP Web Application Server
  - Proven, scalable, comprehensive toolsets
  - Leverage existing infrastructure/skill sets