Case Study: The development and implementation of a BI Self-Service framework to expose valuable SAP data to end users while ensuring system security

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Learning Points

- High level overview of the BI Self-Service Framework, how it was developed, and what it means to your organization
- Key aspects of the framework and what makes it successful
- Case Study: Leveraging the framework to deploy a self-service scenario for Material Master
Best Practices

- Engage customers early and often
- Include Business Intelligence self-service capability as a core deliverable
- Develop an environment of open communication between BI, BW, and Business Process teams
- Create an iterative approach to BI development and deployment
Agenda

- Navy ERP Overview
- Approaches to Self-service
- Definition and Tools
- Access Framework
- Security and Data Protection
- Metadata Management
- Next Steps
Running the Navy’s Business

**Navy Enterprise**
- Navy Total Obligation Authority (TOA) $137B+ in FY11
- Navy ERP managed $65B+ (47% of Navy TOA)

**Functionality**
- Integrated financial, acquisition, workforce mgmt and supply functions
- 48 legacy interface systems (500+ exchanges)

**Business Processes**
- Over 1,300 unique transactions
- 16M transactions per month
- 21 TB data volumes + 10%/year
- Definition and standardization of E2E processes
  - **Ongoing**
  - Supporting compliance, policy, mandates

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**Navy Financial System of Record**

- 61,000+ Projects tracking commitments, obligations, and expenses
Software Implementation Components

**CAPABILITIES CURRENTLY CONFIGURED**

**ERP CENTRAL COMPONENT (ECC) 6.0 ENHANCEMENT PACK 5 (EhP5)**
- Controlling
- Finance
- Workforce Mgmt.
- Time & Attendance
- Learning Solutions
- ESS/MSS
- Acquisition
- Project Systems

**SUPPLY CHAIN MANAGEMENT (SCM) 7.0; ENHANCEMENT PACK (EhP1)**
- Adv. Planning & Optimization
- Global Availability To Promise
- Demand Planning
- Service Parts Planning

**BUSINESS INTELLIGENCE**
- Business Warehouse 7.01
- Business Objects 3.1
- Dashboard Design

**CAPABILITIES NOT CURRENTLY CONFIGURED**
- Governance, Risk & Compliance (GRC)
- Procurement for Public Sector (PPS)
- CRM
- Real Estate Mgmt.
- Asset Mgmt. Functions
- Defense Forces Public Security (DFPS)
- Supplier Mgmt.
- Industry Solution Hospital
- Event Mgmt.
Navy ERP BI Environment
First Approach: Distributed BEx Query

- “Too Hard”
  - BEx is not an end user tool
  - Accreditation path challenges
  - Data dictionary/metadata dictionary not readily accessible

- Change Management Barriers
  - No active engagement with customers to build support for BEx approach
  - ECC alternatives in place (custom SE16 access)
Current Approach: SAP BusinessObjects Tools

- Include BI Tool Suite in Distributed Development Policy
- Active engagement with User Community
- Build universes for each Multiprovider
- Implement pre-built Navy Enterprise content for Webi and Crystal Reports
- Build and enable ECC equivalent data structures in BW
- Document BW Data Models and Data Dictionary and publish for use by User Community
Self Service: Our Definition

AUDIT READINESS/AUDIT ASSERTION

- SAP BW
- WEB INTELLIGENCE
- CRYSTAL REPORTS
- XCELCIUS

CAUSATIVE RESEARCH

EXTERNAL DATA SOURCES

BIG DATA (IN MEMORY COMPUTING)

DATA CALLS

ERROR CORRECTION
Self-Service Tools

PROFESSIONALLY INFORMED
- EXECUTIVES, MANAGERS

INFORMATION CONSUMERS
- BUSINESS ANALYSTS
- TECHNICALLY CAPABLE

EXPLORATION
- EXPLORER
- VOYAGER/BUSINESS EXPLORER (BEx)/PIONEER

OLAP ANALYSIS
- WEB INTELLIGENCE

AD-HOC QRA
- XCELSIUS

DASHBOARDS
- INTERACTIVE EXPERIENCE, RESPONSIVENESS

PRODUCTION REPORTING
- CRYSTAL REPORTS
- LIMITED

Real Experience. Real Advantage.
Security Flow – SSO SAP EP to BOE to SAP

CUA/ABAP Role: ZBOBJ4302_ACQUISITION_PORTAL

BW Authorization: ZBBS4302AG_ACQUISITION_BW

PORTAL ROLE:
BI Analytics Tab: … Acquisition Dashboard Tab…

BOE Group: BD6~100/ZBBS4302AG_ACQUISITION_BW
Mappted to BOE Group: ZBBS4302AG_ACQUISITION_BW

SSO Server

Directory Server

NetWeaver

SAP BW

WWW

SAP EP
Navy ERP Initial BI Content Access

Each Dashboard, Webi, or other content linked using iViews
Portal Tabs to Self-Service Tab

Portal Tabs
- iView-based
- Additional maintenance involved for portal roles
- Slower deployment
- Little Flexibility
- Not Scalable

Self-Service Tabs
- InfoView-based
- No portal authorizations, therefore less maintenance
- Faster deployment
- Layout more flexible
- Scalable
Current BI Access via InfoView
Security and Data Protection

- Navy ERP core developers retain overall control
- Leverage Existing BW Role Structure as much as possible
- Leverage User Management Working Group Process
Self-Service Access Example

- Authorization applied at 2 Levels
  - Access for InfoView (BI Analytics > Self Service)
  - Each folder level, starting at top level (Master Data)
Metadata Management

- Piloting Business Objects Metadata Manager (BOMM) for BW and BOE solution
- Exploring other methods and tools for ECC and SCM metadata
- Published ECC Models and Data Dictionaries on our File Share
- User Community is assisting with data definition validations
Next Steps

- Continue to work with community to obtain feedback, prioritize, and widen acceptance
- Enable additional content
- Complete Upgrade to BI 4.0
- Finalize Distributed Development Policy to include BI 4.0 tools
- Use Agile principles for faster content creation
- Finalize Metadata Strategy
Key Learnings

- Framework for leveraging SAP ECC data by End Users
- Sample security model
- Example of integration between SAP BusinessObjects and SAP Business Suite systems
Thank you for participating.

Please remember to complete and return your evaluation form following this session.

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