Lexmark - Get Faster Insight and Analytics by Rapidly Deploying In-Memory Computing

SAP Sapphire Session 4857 – May 2013

Keith Moody, VP & CIO



Lexmark



Banking



Retail



Manufacturing



Healthcare



Education



Government

Lexmark International

A Valued Partner to Businesses and Government Institutions Worldwide

Headquarters: Founded: Distribution: Employees: 2012 Revenue Lexington, Ky. 1991 170+ Countries 12,000 \$3.8 Billion

Lexmark's Strengths

Technology Ownership Industry Experience Customer Intimacy



Lexmark

Customer Focus					

Print Less. Save More.

Streamline Processes

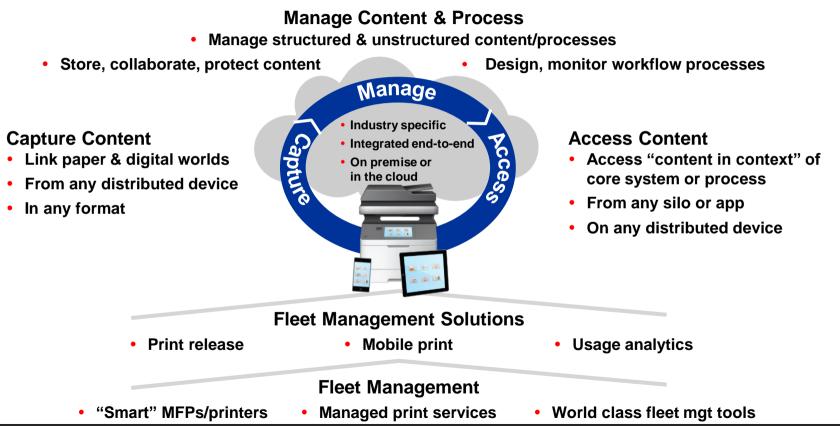
Better Manage Information



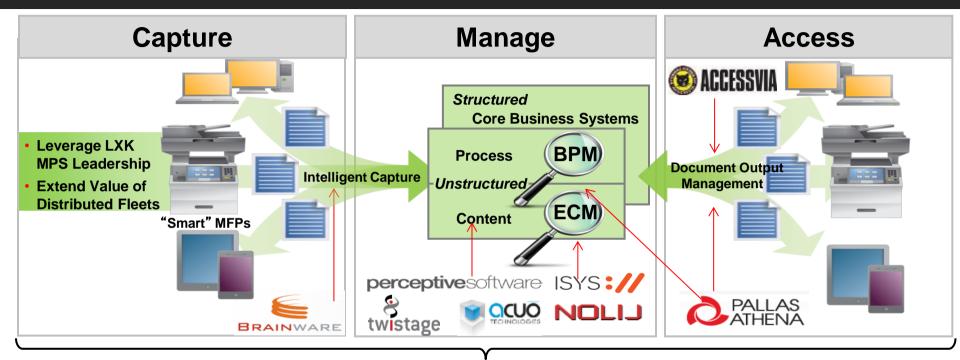
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Lexmark's Strategic Vision

Business Process Solutions



Lexmark - Differentiated Capability





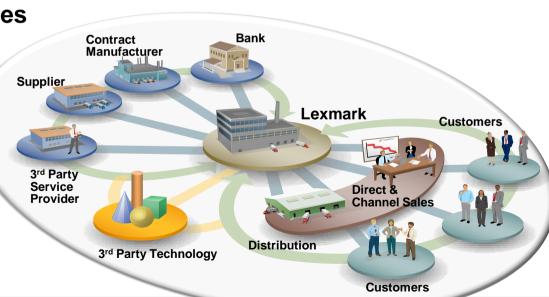
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Industry-Specific Solutions



Business Model

- Partner leveraged design, build, ship, service
- Direct demand generation and channel partners
- Multi-tier distribution
- Solutions configured to customer needs
 - Hardware, software, services
 - Branded and 3rd party
- Managed and Cloud Services





SAP Analytics Program

Objectives

- From reporting to analytics
- Self-service business intelligence
- Distributed capabilities with centralized governance

Enablers

- Business Objects
 - Analysis for OLAP/Office, Explorer, Visual Intelligence, Web-Intelligence, Dashboards, Crystal
- HANA
 - Operational analytics
 - BW migration
 - Platform for targeted analytical solutions
- Organization readiness

SAP Applications

Planning

- Business Planning and Consolidation (BPC)
- Supply Chain Management (APO)
- Profitability and Cost Management (PCM)

Analytics

- Business Warehouse (BW)
- Business Warehouse Accelerator (BWA)
- Business Objects (BO)
- HANA
- BW on HANA

- In Production
- Being deployed



Approach

1.Proof Of Concept by outsourcing partner for initial learning and scoping

2.SAP Rapid Deployment Solution for operational reporting

- 8 weeks
- HANA installation
- 5 initial reports leveraging key ECC tables
 - Inventory, sales orders, billing, revenue account
- Explorer, Crystal and Web-I front ends

3.SAP Value Partnership

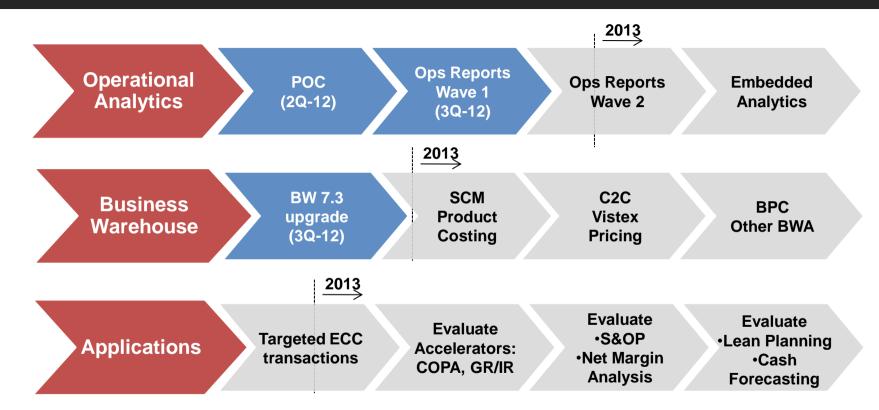
- Lexmark roadmap based on SAP roadmap and Lexmark priorities
- Prototype of Dashboard, Mobile and Visual Intelligence

4.Deployment and knowledge transfer with internal and partner resources

- Additional 20 reports



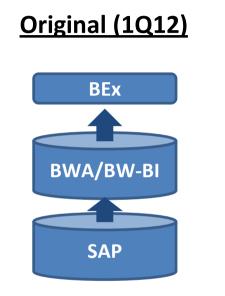
HANA Roadmap



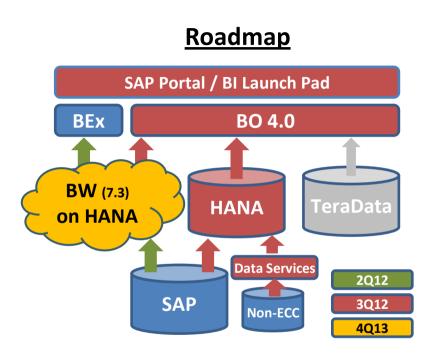
Deliver new content and new technology platform at the same time



SAP BI Landscape Evolution



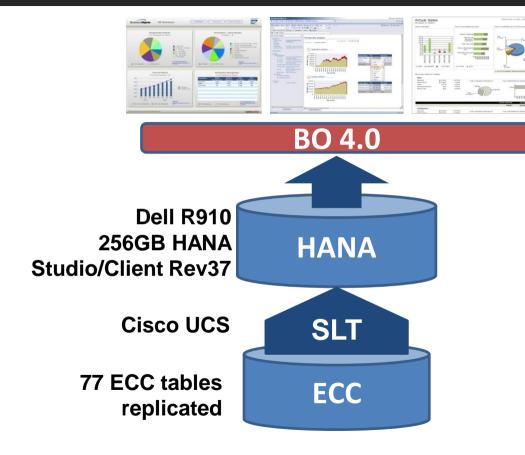
- Analysts focus BEx reports
- Daily batches for data



- Self-service reporting tools
- Enable real time



HANA Solution for Performance Analytics



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Wave 1 – Key Operational Reports

- Billing Documents Analysis
- Revenue Account Details
- Delivery Prioritization
- Inventory Management
- Backorder Monitoring

Wave 2 – Additional Key Reports

- Accounting Close Management
- Finance Dashboard
- Finance Explorer Views
- Sales Dashboard
- 'Flash' Report

Performance Improvement Examples

Report	Records	Pre- HANA seconds		With HANA seconds	Performance Gain
General Ledger Details	710M	140	ECC report	26	5X
Stock Overview	1.4M	165	BWA report with limited details	7	24X
Open Outbound Deliveries	12M	150	BWA report with limited details	16	9Х
Sales Order Analysis	32M	190	BWA report	8	24X
Billing Document Analysis - YTD	38M	n/a	BWA needs filter, or time-out after 30mn	14	129X
Billing Document Analysis - 1 month	38M	300	BWA report	5	60X



Lessons Learned

Expected

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- 3x-20x report performance gain
- Large data selection possible (inventory for all plants)

- Patch frequency
 - R22 to R37 in 8 weeks (R52 now)
- Tuning required for performance and optimization
- SP4 needed for BO 4.0
 - Hierarchies, filtering, labeling, ...

Not Expected

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- KT time faster than expected
- Development cycle time improved 2x to 3x

- Compression ratio not achieved immediately
- Rapid log files growth requires frequent clean-up
- Volume growth monitoring and optimization needed



Next SAP BW Priorities

BW migration for HANA

- Expected Benefits
 - Load performance
 - Transformation and calculation performance
 - Simplified modeling shorter cycle time to develop
 - BWA progressive decommissioning
- Priorities
 - Start migration of BWA supported reports
 - Re-model SCM and Product Costing
 - Activate workspaces
 - Consume-to-Cash analytics
 - Vistex and Pricing analytics
 - Sales Operations analytics
 - Leverage HANA for BPC BPC 10 upgrade pre-requisite



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