

B97

Customer Presentation - IMS Tools Migration

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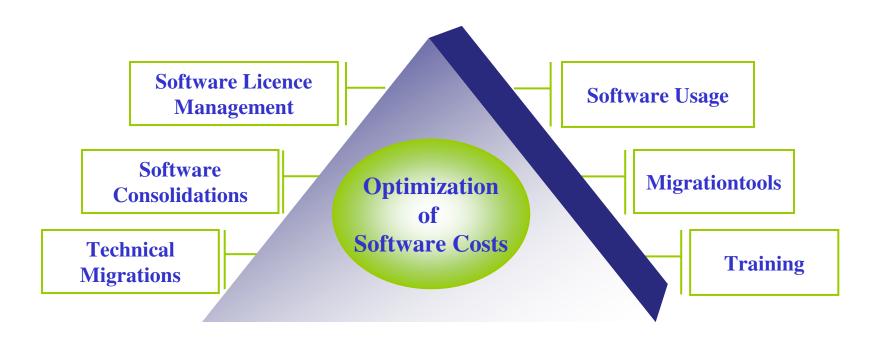
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Range of Services



SE-Consulting GmbH





Migration Methodology



From the plan ...

- technical project management
- precise utilization analysis of existing products
- migration and training concept
- installation and customization of the software solution
- adaptation of exits and usermods
- product deployment
- trainings

- management of the technical workflow
- cooperation with the software provider
- adaptation to customer's environment
 - production preparation
 - quality assurance
 - handover to production

... to production



ISV Migrations



What SEC did in the past ...

from	to	number of projects	tasks
BMC Software	IBM	4	Vendor Replacement between 6 and 14 IMS products, between 3 and 12 DB2- products, MainView Automation
Computer Associates	IBM	3	Vendor Replacement between 6 and 10 products
Compuware	IBM	3	Vendor Replacement between 2 and 3 products
Compuware	Macro 4	2	Vendor Replacement between 2 and 3 products





The Mission

Replace all BMC-products within 24 months in all data centers in Germany matching T-Systems SLAs and solve special tasks like:

DB2 Recovery for SAP & IMS Accounting/Reporting

The Objective

Reduction of software costs



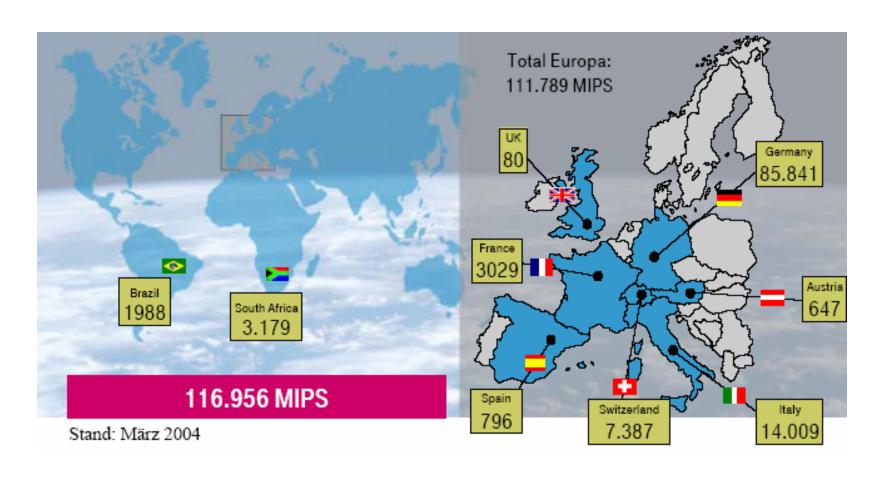


Some customer facts:

- > 32 data processing centers with high bandwidth back bone
- > z/OS capacity of 116.956 MIPS (March 2004)
- ➤ 31.365 Open System Servers
- Biggest network in Europe
- Workflow and services for over 97.000 workstations
- Biggest SAP-Installation in Europe
- Over 50 international outsourcing customers:
 Deutsche Telekom, Airbus, BLG, DaimlerChrysler, EADS, Henkel, MTU, Schufa, TechData, Unilever, ...

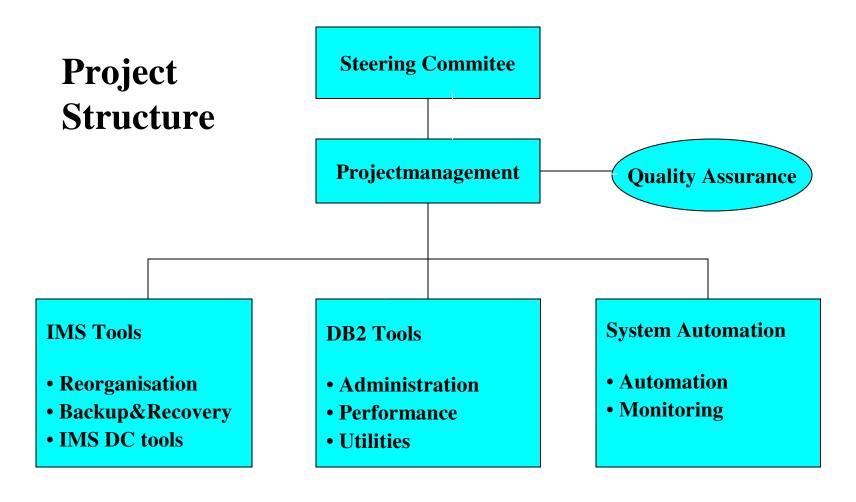
















Project Progress

- ➤ until end of 2003: 21 IBM IMS-, 20 IBM DB2-, 2 IBM CICS solutions implemented
- by end of 2003: more than 250 T-Systems employees trained on IBM IMS & DB2 tools with internal courses
- by mid of 2004: all 150 IMS LPARs migrated
- by fall 2004: DB2 V8 ESP with System Recovery fully tested and implemented to replace the BMC solution named "Smart Recover for SAP"
- by end of 2004: IMS Accounting & Reporting (Mainview IMS Offline) replaced using CA NeuMICS





- May 2005: 3 SysPlexes migrated from BMC MainView Automation to Tivoli SA
- by mid of 2005: 190 of 250 DB2 LPARs migrated
- until today: several workarounds developed to provide same functionality as BMC products





Project Documentation

- Checklists of implementation deepness (used functions)
- > Test plans & scenarios
- Project plans
- > SLAs & acceptance criteria
- Benchmarks
- Documentation of technical problems & requirements
- Status presentations
- Change Management





Migrated IMS Tools

BMC Product	IBM Product	
IMS DC/IMS TM	IMS DC/IMS TM	
Data Packer IMS	IBM IMS HD Compression Extended	
Message Advisor for IMS	IBM IMS Queue Control Facility	
Ultraopt/IMS	IBM IMS Network Compression Facility	
Database Integrity Plus	IBM IMS Library Integrity Utilities	
Extended Terminal Assist Plus & Delta IMS/Virtual Terminal	IBM IMS Extended Terminal Option Support	
Delta IMS & DeltaPlex	IBM IMS Command Control Facility	
Delta IIVIS & Deltar lex	IBM IMS High Performance Sysgen Utilities	
IMS Database Reorganization	IMS Database Reorganization	
Fast Reorg Facility/EP	IBM IMS Parallel Reorganization	
Unload Plus/EP for IMS	IBM IMS High Performance Unload	
Loadplus/EP for IMS	IBM IMS High Performance Load	
Secondary Index Utility/EP	IBM IMS Index Builder	
IMS Backup&Recovery	IMS Backup&Recovery	
Image Copy Plus	IBM IMS Image Copy Extensions	
Recovery Plus for IMS	IBM IMS Image Copy Extensions	
Pointer Checker Plus	IBM IMS High Performance Pointer Checker	
Change Accumulation Plus	IBM IMS High Performance Change Accumulation	





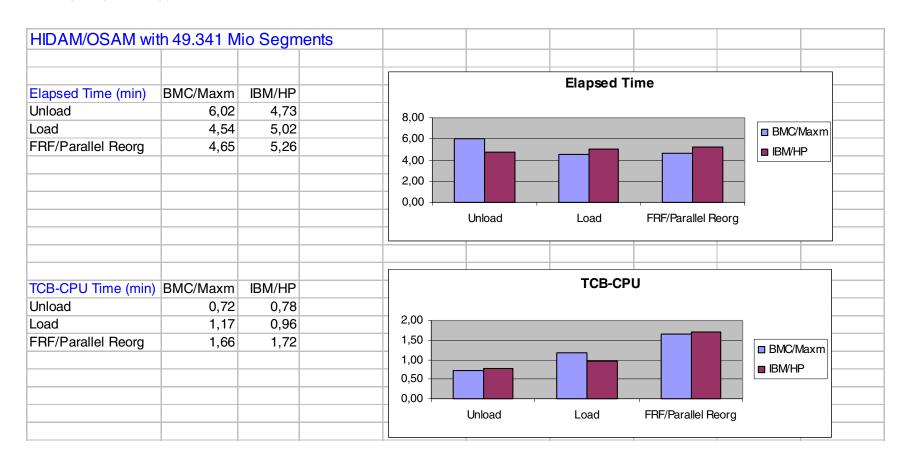
Lessons learned

- **>** Benchmarks
 - Static runtime environment
 - Adjust default settings to have comparable results
 - Bitmap issue
- Image Copy Compatibility
 - Compressed IC
 - Special considerations to decompress image copies
- User Exits
 - Exit interfaces
 - Return code exit
- User Defined Unload Formats





Benchmark







Migration Tools & Addons

- > ETA TSS Converter
 - Convert ETA or DELTA/VT terminal definitions to ETO Support
- ➤ Mainview AutoOperator Rules Analyzer
 - Analyze the AutoOperator rules dataset
- SMF Record Analyzer
 - Identify jobs run with BMC utilities by analyzing SMF records
- > JCL Converter
 - Convert JCL and utility control statements
 - Using different sources
 - Analyze Job Scheduler definitions





Migration Tools & Addons cont.

- ➤ IMS Pointer Checker Extension
 - ISPF interface to IBM's Pointer Checker
 - Threshold monitoring for IMS databases
- ➤ Variable Unload Formats
 - Unload, Sort, Reload of IMS databases in various formats



Any Questions?