BMC Solutions for IMS

Strategy and Roadmap for IMS Symposium

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March 2015

Legal Notice

Agenda

- **Strategy**

- **Recent enhancements**

- **Future plans**

Forces Affecting IMS Landscape

Top IT Priorities

1 — Cost Optimization

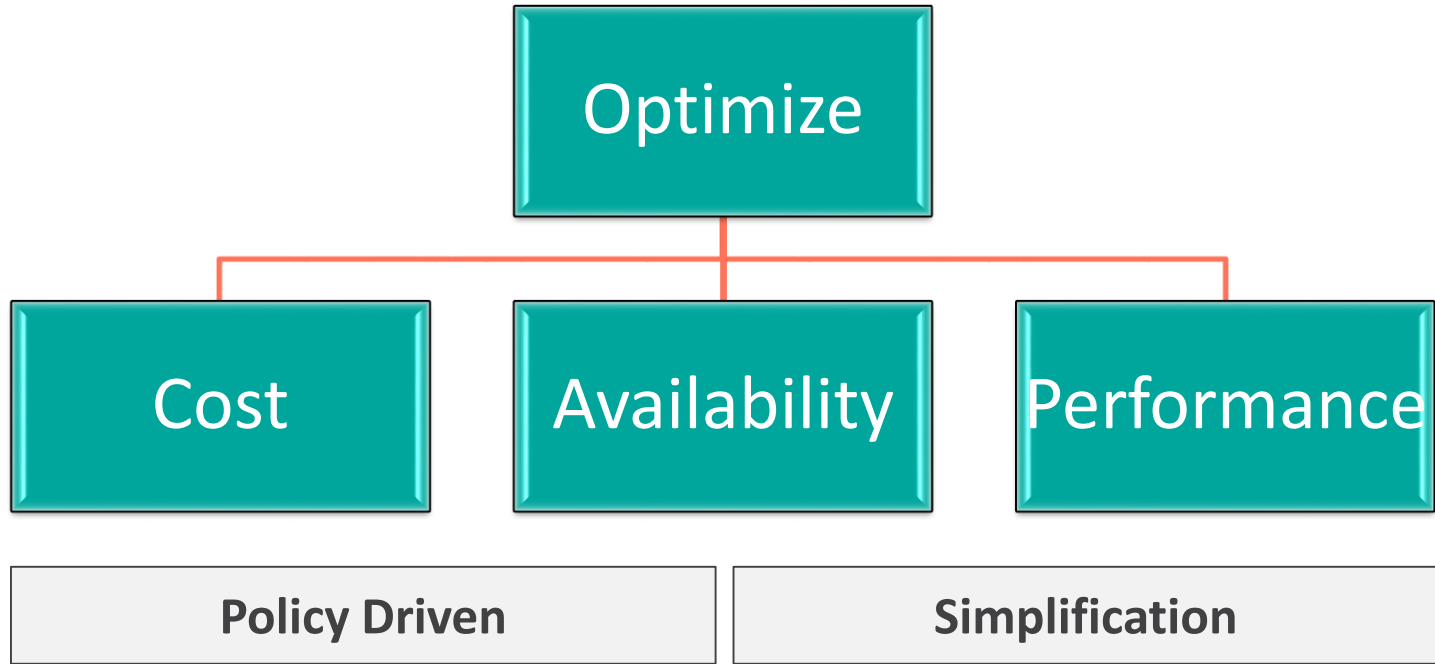**2** — Application Availability

3 — Skill Loss

IMS Strategy Foundation

Optimize – Lower Cost

Specialty Processors

Subsystem Placement

Application Optimization

Optimize – Maximize Availability

Outage free Reorgs/IC

Dynamic Defrag

Workload Avoidance

Optimize – Maximize Performance

64-bit addressing

Faster I/O technology

Hardware changes

Recent Enhancements

Database Products for IMS™ Advisors and Toolkit – January 2014

- Support for IMS Version 13.1
- DBRC List History window graphically presents information from the LIST.HISTORY command and you can also initiate DBRC commands for the selected object and monitor the results
- Historical Analysis Wizard helps you analyze Advisor historical data for statistics of interest
- Recovery Advisor available in MAXM Database Advisor
- The Recovery Wizard now supports recovery to alternate database data sets
- New threshold parameters for freespace and RAA/DOVF space utilization

MAXM Database Advisor for IMS – Database Exceptions are the DBA's Work List

- When exceptions exist that becomes the DBA's priority work list
- These are the correlated exceptions
- Increases DBA effectiveness by 50%

Recovery Wizard – guided workflow

Monitor Recovery View

Database Products for IMS™ Advisors and Toolkit – October 2014 SPE

- IMS Status Monitoring feature enables Advisor to detect and report exceptional status conditions for IBM IMS online systems, for example, Advisor can tell you if a system is unavailable or has any locked, in-error, or unavailable objects

- Recovery Advisor provides new parameters for detecting exception conditions and controlling how exception data is handled

- New MEMBERTYPE keyword controls how the Build IDCAMS Control Statements tool constructs data set members to contain the created IDCAMS statements

  - DBD - Build a single member for the selected object

  - DDN - Build a separate member for each data set that belongs to the selected object

- WTO messages that report exception conditions now include the related exception ID

- Schedules window now provides a RUN button

MAXM Reorg/Online – January 2014

- Support for IMS Version 13.1 across all products

- Reorganize all partitions of a High Availability Large Database (HALDB) in parallel

- Make changes to HALDBs during the reorganization process

- zIIP exploitation using Extended Buffer Manager component (also in Pointer Checker Plus)

Fast Path/EP Series 3.11 – January 2014

- Support for IMS Version 13.1

- Support for 64-bit storage

- 64-bit storage EXEC statement for offline processing

- Support for IBM IMS zIIP Sort

- Fragmentation Factor now included in the record layout of the history file

- Fast Path Indexer/EP now builds all partitions

Fast Path Online Restructure/EP 3.11 – January 2014

- Support for IMS Version 13.1
- Restructure Activity data set contains a log of actions performed during the online restructure process
- Restructure Activity Report provides information about actions performed during the online restructure process for an area
- Restart function enhancements
  - Detects when a modified ACB member is reloaded by DELTA IMS
  - Adds information to the AMSPDS data set when DBRC registration is updated
- Echo deleted DBRC registration information in PFPPRINT

Backup and Recovery Products 4.6 – January 2014

- Support for IMS Version 13.1
- Enhanced techniques for recovery to alternate data sets
- Support for DBDEF command and associated keywords
- Substitution variables in IDCAMS statements
- User-defined substitution variables in data set names
- Timestamps with microsecond values
- SMS classes for sort work data sets

Additional Products – January 2014

- Support for IMS Version 13.1 across all products

- Extended Terminal Assist
  - Display the contents at a specified address in the main storage of an IMS DLI/SAS region

- Energizer for IMS Connect
  - Route DRDA messages through the IMS Common Services Layer (CSL) ODBM address space to provide round-robin distribution
  - IRM message now includes user-defined fields for a Virtual Exit
  - Trusted IP address can support a table of IP addresses and DNS names

- Message Advisor
  - Writes new types of records to the IMS log during IMS restart to document the presence of Message Advisor and the actions taken
  - New Queue Protection Facility (QPF) command keywords and parameters

Application Restart Control 4.0 - December 2014

- ARC Family includes support for DB2, IMS, and VSAM

- Currency

  - Support most recent COBOL version

  - Support IMS Vnext for customers in the IBM QPP

- Enhanced RRSAF support

  - Enable two phase commit processing with DB2 and MQ that use RRSAF

Recent New Mainframe Products

- **Application Accelerator for IMS**
  - Monitors and analyzes IMS DL/I and BMP batch applications
  - Recommends and dynamically implements optimal resource settings for DL/I and BMP batch applications — with no JCL or application changes required
  - Reduces both CPU and elapsed time
- **Subsystem Optimizer for IMS (Subzero)**
  - Remove requirement that CICS and IMS/DB reside on the same LPAR
  - Save MLC costs by optimizing subsystem placement
  - Mainframe and IMS continue to be a focus for BMC

Recent Releases – December 2014

- Application Accelerator for IMS (AAI) 1.2 - Support additional situations in BMP processes
  - Support SSAs that are using Boolean AND operators so you can specify more complex criteria when selecting Segment Search Arguments (SSA)
  - Support for PROCSEQ to read a database through a secondary index for faster direct access to the data and processing via an inverted structure
  - Support the use of POS=M to provide multiple positioning for PCBs to reduce processing needed to reposition in a database and support Hogan application
  - Provide support for the "F" command code in SSAs

BMC Subsystem Optimizer for zEnterprize® (Subzero)

The Why…

— IBM requires that CICS, DB2, and/or IMS DB run on the same LPAR if a CICS transaction access DB2 or IMS DB

— Increases MLC since all are billed at the combined peak

The How…
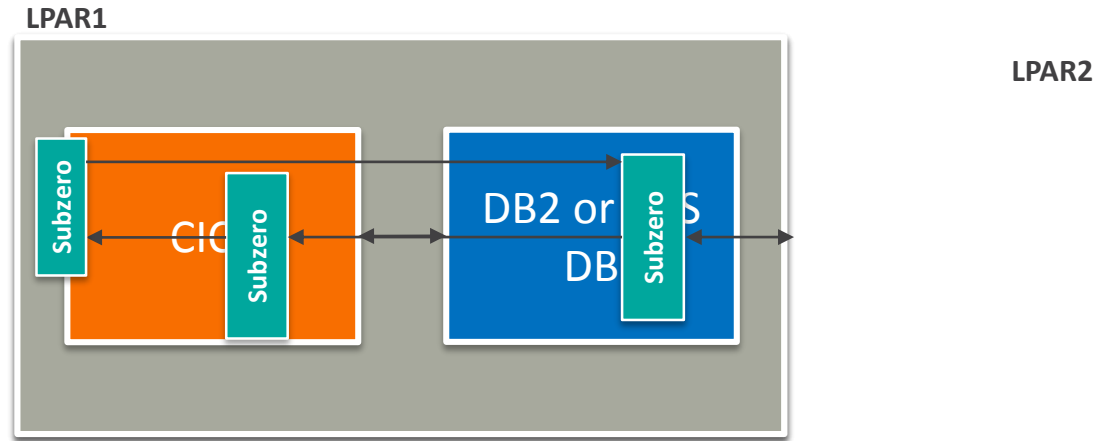
— Remove this IBM requirement and lower MLC

— No application code changes required

— Utilizes IBM published facilities

The What…

— Flexibility on where you can run CICS, IMS, and DB2

— Enhanced system redundancy and recovery options

— Further workload balancing options

BMC Subzero basics

1. CICS application SQL or DL/I calls are intercepted by Subzero
2. Subzero routes the data access request to the appropriate DBMS
3. DB2/IMS DB processes the data request and returns the requested data
4. Subzero routes the result set back to the initiating CICS application

Future Plans

What's ahead

- Merge features/functions from our IMS product offerings
  - Merge selected capabilities from Neon products into go forward heritage BMC products
  - JCL compatibility and JCL generator
- Support IMS V-next
  - As always we are partnering with IBM to support our customers
- Maximize availability in Reorgs and Image Copy processes
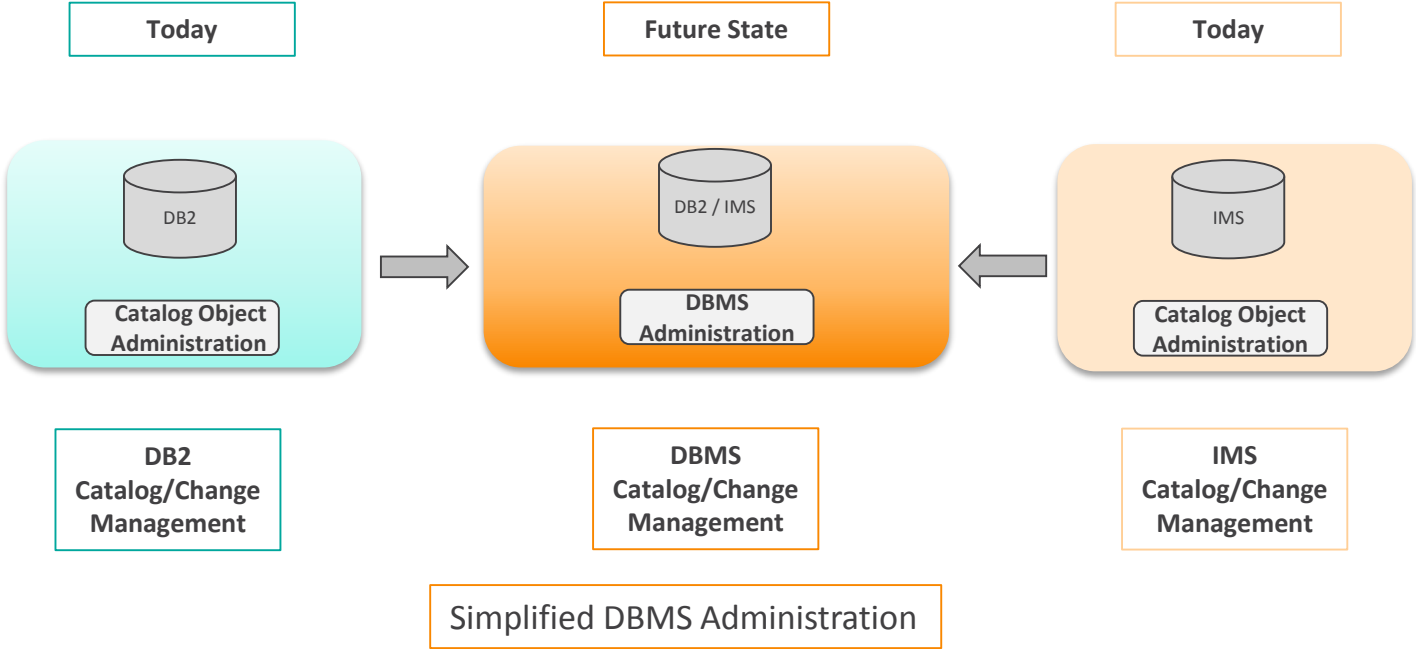
Fast Path Products Version 4.00 Enhancements

- Fast Path Online REORG/EP

  - Can use private area buffer pool

  - Supports database buffers "above the bar"

  - Issues in EXTEND IOVF with SDEP segments present resolved

- Fast Path Online Analyzer/EP

  - Performance improvement when handling very long twin changes

  - Miscellaneous report enhancements

Policy Based DBMS Management

Business Needs

SLAs

Thresholds

Product Execution

Current Advisor Technology
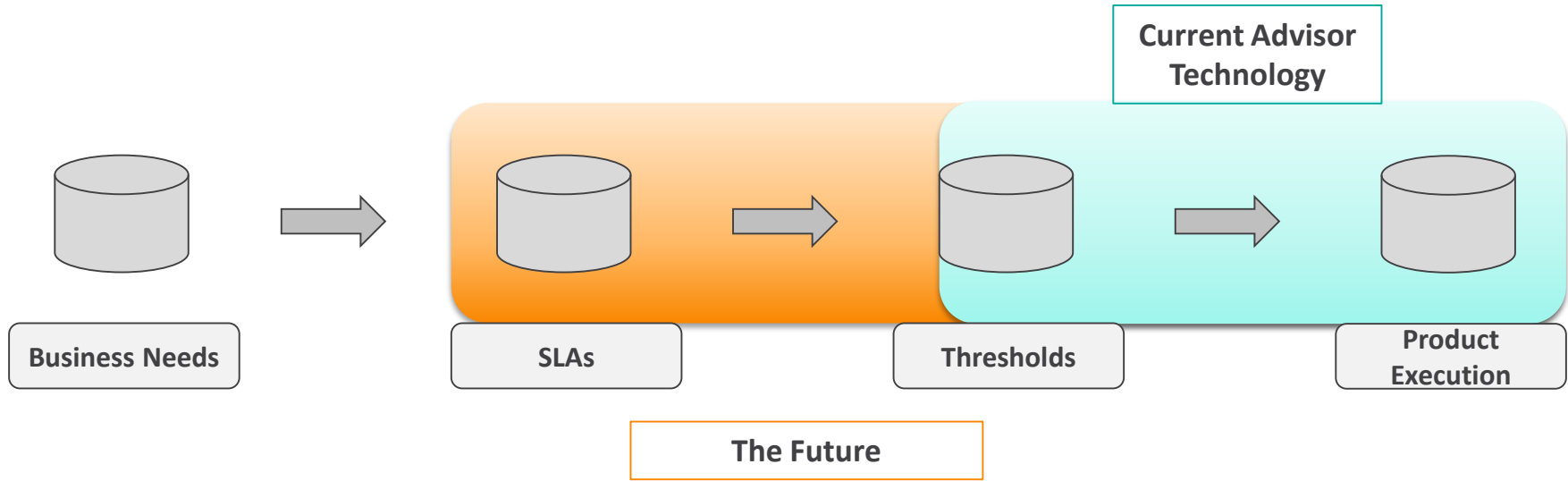
The Future

Optimize – DBMS Administration

Our Commitment to the Future

Support new releases

Exploit new capabilities

Invest in new talent

Summary

- BMC IMS products lead the market in ROI
    - Continue to be the innovator in this space
    - Flagship products evolve to participate in future strategies
- We are passionate about understanding customer needs
- Looking to the future
    - New innovations coming to light
    - Enabling the workforce of the future

Thank You

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Bring IT to Life.™