

BMC solutions for IMS™ Fast Path Reorg and Restructure

Reorganize and restructure Fast Path databases with integrity and no outage

PRODUCT DESCRIPTION

BMC solutions for Fast Path Reorg and Restructure enable you to reorganize an entire data entry database (DEDB) or selected portions of it and make structural changes – all without an outage.

BUSINESS CHALLENGE

Fast Path DEDBs provide superior transaction throughput, manageability, large data volume capacity, and speed. DEDBs process large volumes of data with a transaction rate higher than any other type of mainframe database; therefore, they require frequent reorganization because of high transaction activity. The speed and volatility of digital business demand that the DEDB structures need to change to meet application demands, and traditional reorganization tools require an outage to implement structure changes. Even planned outages are disruptive. You need to be able to reorganize to improve performance, deal with space issues, and implement the changes you need – and keep the databases and applications online and available as much as possible.

BMC SOLUTION

BMC solutions for Fast Path Reorg and Restructure enable you to reorganize parts of a DEDB or the entire DEDB without an outage – even when implementing structure changes. With these solutions, you can reorganize, analyze, and take image copies of DEDBs with one I/O, while the DEDB remains online, and you can extend DEDBs without taking them offline. The solutions reduce CPU costs by dramatically reducing the logging overhead for online reorganizations.

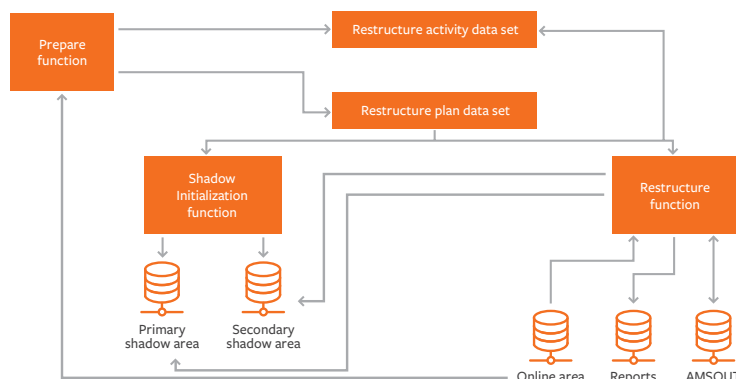
KEY FEATURES

BMC solutions for IMS Fast Path Reorg and Restructure enable you to:

- Reorganize only the parts of the database that need reorganization
- Implement structure changes with no outage
- Extend the size of DEDBs without an unload/reload
- Manage reorganizations through interactive charts and tables that display current state and historical information about jobs, databases, database partitions, data sets, and segments in the DBA Toolkit

KEY BENEFITS

- **Maximize application availability** by allowing structure changes during online reorganizations
- **Save resources** through concurrent online and offline reorganization, analysis, and image copying
- **Deliver optimal database performance**



PRODUCT DETAILS

Fast Path Online Reorg/EP reorganizes DEDBs and enables you to reclaim and/or extend space while the DEDBs are online and available. The patented Intelligent Reorg feature recognizes and reorganizes only UOWs that require reorganization without taking the database offline. This technique eliminates unnecessary I/O, and more importantly, dramatically reduces logging overhead on the IMS subsystem during an online reorganization. Intelligent Reorg also enables you to fine-tune a DEDB reorganization by selecting only the UOWs that extend into IOVF or only the UOWs that exceed a threshold percent of disorganization. You can reorganize only the UOWs that are disorganized, leaving organized UOWs unaffected. The patented online Extend function lets you increase the size of IOVF and sequential dependent segment (SDEP) storage portions of a DEDB during reorganization without taking the database offline.

Fast Path Online Restructure/EP enables you to perform a variety of structural changes to the database without impacting application availability. You can add, remove, and resize areas, as well as make randomizer changes. You can modify segment content, add segments at the end of a hierarchical path, add an SDEP, and modify lengths of variable length segments (decrease the minimum length or increase the maximum length). You can add, change, or remove a compression exit. If the DEDB uses BMC Fast Path Indexer/EP indexes or IBM native indexes and is being restructured, you can add, change, or delete indexes. The tool produces a restructure activity report data set, which is a sequential file containing a log of actions performed during the online restructure process. The report provides information about actions performed during the online restructure processes

for an area. Fast Path Online Restructure/EP automatically generates this report at restructure and restart function termination. You can also generate the report on demand. Use the tool for the following functions: prepare, shadow initialization, restructure, restart, back out, status, and reporting.

The **BMC IMS DBA Toolkit**, included with the Fast Path solutions, provides a single interface to all the IMS databases in your enterprise. With each BMC reorganization utility execution, information about what maintenance has been performed (and when) on a database is automatically recorded and accumulated into monthly and yearly reports so you can analyze trends. Interactive charts and tables display current state and historical information about jobs, databases, database partitions, data sets, and segments. A Disassembly function ensures that the source code for IMS control blocks is available.

The **BMC IMS console**, included with most database and TM solutions, provides a single, easy-to-use graphical user interface (GUI) for managing IMS systems and databases. Through the interface, you can view statistics for and perform operations on all your IMS databases, whether on one z/OS instance or spread across many instances in many physical locations.



FOR MORE INFORMATION

To learn more, please visit bmc.com/ims

About BMC

BMC helps customers run and reinvent their businesses with open, scalable, and modular solutions to complex IT problems. Bringing both unmatched experience in optimization and limitless passion for innovation to technologies from mainframe to mobile to cloud and beyond, BMC helps more than 10,000 customers worldwide reinvent, grow, and build for the future success of their enterprises.

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