CDB Software, Inc.

CDB/®Auto-Online Copy

CDB/Auto-online Copy for DB2® for z/OS™ creates SHRLEVEL REFERENCE Image Copy backups of DB2 data while providing full Read-Write availability to applications. Through flexible built-in automation, dynamic media selection and optimized parallel processing, CDB/ Auto-Online Copy streamlines the DB2 backup process for tens of thousands of objects, creating a hands-free Image Copy for all recovery needs while minimizing CPU and Elapsed times and leaving applications unaffected.

Key Benefits

•Built-In Automation

•Simple Restart

•Optimized Parallel Processing/Multi-Tasking

•Full Read-Write Availability

•Dynamic Decision Making

•Real-Time Statistics Processing

•Optimized multi-tasking and parallel processing through NGT Server Technology

The Challenge
Your mission critical DB2 data needs to be Image Copied to insure it can be quickly recovered if disaster strikes or in the event it is corrupted. The standard Image Copy/ Recover is the only recovery method that ensures recoverability in all events. The problem is that the standard Image Copy process is usually too slow and manually intensive to performed often enough to make it a viable choice.

Twenty years of developing DB2 applications and purchasing applications like Peoplesoft and SAP leave DBAs with thousands of DB2 objects to manage. Constantly changing table sizes, new tables, and new devices for processing and back-ups cause many job changes which introduce errors and outages.

The CDB Solution
CDB/Auto-Online Copy is an automated and fast way to perform DB2 SHRLEVEL REFERENCE Image Copies while leaving the objects completely available in RW status to all applications. CDB/Auto Copy makes up to eight copies in a single pass of the DB2 tablespace and produces an Image Copy equivalent to the DB2 Copy that is useable by the IBM DB2 Recover utility.

Built-In Automation
Only CDB has automation built into each utility. We do not require pre-processing of the Catalog or proprietary tables to determine

what objects need copying. True automation involves running one simple job with wild carded names that not only Copies the objects that need Copying, but also enforce your rules regarding number of days or number of incremental copies between full copies, what media each individual copy goes to, and stacks copies efficiently on tape. Once you realize what real automation is and work outside the boundaries that other products put on you, managing thousands of objects becomes easy and worry free. All dataset sizing, allocating, and extending are automated to your individual rules for error free execution. Real-Time Statistics are natively processed to drive teh copy process without the need for outside JCL Generators or monitors.

Full Availability
The copying of DB2 tables while keeping them available to applications for read-write access was also pioneered by CDB. CDB/Auto-Online Copy not only has all the features and automation but also produces SHRLEVEL REFERENCE Copies objects while they are online to your applications. With CDB/Auto-Online Copy your tables and indexes are never unavailable to applications, they are RW 100% of the time.

DB2 Log Independence
By working completely outside of DB2, not using DB2's Buffers or Logs, we use fewer resources and do not affect, and are not

Data Sheet

affected by, any processing on any other table in your system. The DB2 Log is key to transaction throughput and your data integrity. Log contention is a major performance issue with your applications. CDB never reads or writes the DB2 logs.

Important and unique features

• **Easy restart**
  With simple one step utility jobs and automation there is no manual intervention when restarting utility jobs. Just run the job again without any edits and it will automatically restart and always cleans up after itself. No Catalog issues, no orphaned datasets, no broken objects.

• **Dynamic Decision Making**
  Application activity can make achieving a sync point challenging. If your application workload does not allow a sync point CDB/Auto Online Copy can, at your option, automatically convert to a SHRLEVEL CHANGE copy to complete.

• **Space management**
  Dataset allocation is dynamically controlled using your rules. Whether you use SMS, Stogroups, or User Defined datasets we automate and control the allocations and extending of datasets.

• **GDGs**
  CDB automatically generates GDGs and GDG bases if they are not defined. CDB does not catalog incomplete copies or empty datasets, your GDGs do not get consumed with unusable copies.

• **Next Generation Server Technology**
  You don't have to separate your copies into multiple jobs to process them in parallel. CDB automatically processes objects in parallel and gives you the ability to control the degree of parallelism and resources used.

A single job can spawn multiple address spaces to better manage throughput and maximize parallelism. Work is automatically spread across address spaces and across the sysplex to manage memory and avoid bottlenecks. Return codes are passed back to the submitted job for easy maintenance.

• **Incremental copies**
  With CDB you can limit the number of days or number of incremental copies between full copies, your objects will never be far from a full copy.

• **DB2 RI**
  Your related tablespaces can be synchronized as a set for easy restoration of Referentially related objects.

• **No DB2 Log monitor**
  The before images of the changed pages being Copied on all members of the Data Sharing group are captured during the Copy. The DB2 Logs are not accessed. This process eliminates log contention and is very efficient.

• **Built-in Automation**
  True automation is part of the utility, not a separate product that generates JCL. With one statement you can copy everything that is copy pending. Copy automation can easily generate report files, update tables, or generate recovery jcl to send with your offsite copy.

• **Real-Time Statistics Processing**
  Natively manage RTS without a

third party processor to generate job statements. Simply submit a Copy and RTS tables are processed in real time and objects are evaluated based on company criteria at the system, application or object level with no extra maintenance required.

• **Outside of DB2**
  CDB Copy operates on the DB2 VSAM datasets outside of DB2 while DB2 is processing them. CDB does not use DB2's Buffers or Logs. CDB uses a fraction of the CPU that IBM and the others use. Your applications are safe and unaffected.

About CDB Software
CDB Software, Inc. is a leader in data management solutions for DB2 z/OS. CDB focuses its business on DB2 for z/OS to provide unique and innovative solutions that enable companies to expand their DB2 system to meet business needs while controlling the overall cost of the mainframe. Founded in 1985, CDB is a privately held corporation based in Houston, Texas with offices worldwide.

For more information visit:
www.cdbsoftware.com

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