software AG

Adabas Delta Save

Glossary

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Adabas Delta Save

Table of Contents

Glossary

Glossary entries exist beginning with the following letters:

A

ADADSF	The Adabas load modules comprising the Delta Save Facility.
ADADSFN module	A load module of Delta Save Facility that is loaded to the Adabas nucleus and contains the program logic for recording changed RABNs in the DLOG area.
ADADSFR module	A load module of Delta Save Facility that is loaded for ADARES executions and contains the program logic for building the DSIM dataset.
ADADSFS module	A load module of Delta Save Facility that is loaded for ADASAV executions and contains the program logic for the input parts of SAVE DELTA, MERGE, and RESTORE DELTA processing.
Adalink	The teleprocessing-monitor-dependent interface module that connects the application/user to Adabas. The actual module name depends on the TP monitor being used; for example, the module name for linking to a batch or TSO program is ADALNK, and for CICS, the module name is ADALNC. The term "Adalink" refers to the module appropriate for the given environment. The terms "Adalink(s) and "ADALNKS" are synonyms.
address converter	Adabas stores each database record in a Data Storage block, identified by a relative Adabas block number (RABN). Each record's RABN is kept in a table called the address converter. The address converters, one for each database file, are stored in the Associator. Address converter entries are in ISN order (that is, the first entry tells the RABN location of data for ISN 1, the 15th entry holds the RABN location of data for ISN 15, and so on).
address space	The storage area assigned to a program task/work unit. In MVS, an address space is a region; in VSE, a partition; and in BS2000, a task.

In this documentation, the term "region" is used as a synonym for "partition" and "task".

C

consolidated delta save tape	A consolidation of the continual sequence of individual delta save tapes produced since creation of the last full save tape. The full save tape and the consolidated delta save tape together represent the database status following the most recent save operation.

D

database administrator (DBA)	Controls and manages the database resources. Tasks include defining database distribution, assigning a structure and resources, creating and maintaining programming and operation standards, ensuring high performance, resolving user problems, defining and teaching user training, controlling database access and security, and planning for growth and the integration of new database resource applications and system upgrades. Also known as the database analyst.
delta save	The ADASAV utility operation that saves only those blocks of the Adabas database that have been added or altered since the last full or delta save operation; also, the resulting save dataset.
Delta Save Facility	The optional Adabas feature that provides the ability to perform save operations that save only changed blocks of the database. Using the Delta Save Facility, you can make interim delta save tapes and then combine them into a final normal full database save tape.
delta save exits	ADADSF functional units that are called at certain times during operation to implement delta save functionality.
delta save identifier (DSID)	A DSID identifies each save dataset produced by the Delta Save Facility.
delta save logging	The process of recording changed RABN lists to the delta save logging (DLOG) area.
delta save logging (DLOG) area	The DLOG area is space allocated in the Adabas Associator to record the RABNs of changed Adabas blocks written to the database.

A DLOG area "detail entry" describes a changed block or range of blocks in the DLOG area.

A DLOG area "detail block" is a type of block that contains detail entries. |

delta save status	The current status of the Delta Save Facility. The possible status conditions are

not installed	DLOG area has not been defined, although the nucleus may be running with DSF=YES
disabled	DLOG area has been defined but no delta save logging occurs, and no delta save operations are possible
enabled	DLOG area is defined and delta save logging is being performed; delta save operations are possible.

delta save images (DSIM) dataset	An interim direct access dataset holding the images of all database blocks changed during an online save operation. These blocks are held for subsequent consolidation with the associated online save dataset. The DSIM dataset is a companion to the related online save output tape.

delta save images (DSIM) directory	A table of DSIM dataset contents which, after consolidation, is used to retrieve the database blocks stored in the dataset in ascending RABN sequence.

E

expanded file	A logical file comprising physical files in one or more locations. The physical files have the same field definition table (FDT), but non-overlapping ISN ranges. The data content of at least one field (the field value criterion) determines the physical file in which a data record is located.

F

field definition table (FDT)	A table that defines each file's record structure and content. There is one FDT for each database file. FDTs, stored in the Associator's fixed area, have three parts: the first is a list of the file's fields in physical record order, the second part is a "quick index" to the records in the first part, and the third part defines the files sub/super-fields and sub-/super-/hyper- and phonetic descriptors.

full save	An ADASAV utility save operation that saves the complete current database; also, the resulting save dataset.

I

internal sequence number (ISN)	Every Adabas record is assigned an internal sequence number (ISN) to identify the record. Each record keeps its original ISN, regardless of where it is located.
	Records in a physical database file have four-byte ISNs ranging from MINISN to MAXISN. In replicated files, a record has the same ISN in all file copies. In partitioned files, the ISN ranges are non-overlapping for each physical file.

M

merged delta save tape	The result of combining multiple consecutive delta save tapes into a single consolidated delta save tape.
merged full save tape	A save tape constructed by the Delta Save merging function, containing the complete database.

P

physical file	A physical file contains database records. Each physical file is identified by a file number. The number of physical files (and physical file numbers) per physical database is limited to 5000 or one less than the ASSOR1 block size, whichever is lower.

R

record buffer	The portion of the calling program's parameter area, called the user buffer, that contains the data transferred during Adabas read, search, and update operations. When reading data field definitions, Adabas also returns the field definition information in the record buffer.
recover mode	The creation of an interim DSIM dataset from sequential protection log (PLOG) datasets. This mode is used when normal DSIM dataset creation fails.
relative Adabas block number (RABN)	Adabas divides Data, Associator, and Work disk space into device-dependent logical blocks. The blocks in each of the three areas are numbered consecutively in ascending sequence beginning with RABN 1. The data blocks themselves as well as their addresses are referred to throughout Software AG publications as "RABNs". In other words, the sentence, "Adabas assigns RABNs 1-10 to the Associator" means ten Adabas storage blocks numbered 1-10 are assigned-not just the block numbers, whereas "Adabas assigns 50 RABNs to the Associator" means 50 blocks of storage with unspecified RABN numbers is assigned.

S

service   A processor of Adabas calls and issuer of replies. An Adabas nucleus is an example of a service (see also target).

T

target   A receiver of Adabas calls. A target maintains a command queue, and communicates with routers using ADAMPM. A target is also classified as a service. The Adabas nucleus is a target.

U

user   A batch or online application program that generates Adabas calls and uses an Adalink for communication.

Index

A

Adalink
  definition, 1
Address Converter (AC)
  definition, 1
Address space
  definition, 1

D

Database
  administrator
    definition, 2
Delta Save identifier (DSID)
  description, 2
Delta Save logging (DLOG) area
  description, 2
DSIM dataset
  definition, 3
  recover mode
    definition, 4

E

Exits
  DSF
    definition, 2

F

FDT (field definition table)
  definition, 3
Field
  definition table (FDT)
    definition, 3
Files
  partitioned logical
    definition, 3
  physical
    definition, 4
Full save tape
  definition, 4

I

ISNs
  definition, 4

P

Partitioned files
  definition, 3
Physical
  file
    definition, 4

R

RABN (relative address block number)
  definition, 4
Record buffer
  definition, 4
Recover mode
  DSIM dataset
    definition, 4

S

Save tape output
  definition, 4
Service
  definition, 5
Status
  DSF
    description, 3

T

Tapes
  merged full save
    definition, 4
  output
    save", "definition, 4
Target
  definition, 5

U

User
  definition, 5