

Product News Flash

Mainstar[®] : VCR[™] 3.02

New Enhancements

VCR 3.02 offers new product features and enhancements.

- Volume Clone and Rename:
 - IBM extended address (EAV) volume support.
 - IBM Incremental FlashCopy support.
 - IBM Space Efficient FlashCopy support.
 - EMC TimeFinder/Clone support.
 - Consistency Group support has been added for both IBM FlashCopy and EMC TimeFinder/Clone.
 - Allow a slow copy when fast replication preferred is specified and no fast replication is available.
- Selectable feature, Fast Table Space Refresh for DB2 (FTR):
 - EMC TimeFinder/Clone Mainframe data snap support.
 - Option to always copy indexes for selected table spaces.
 - Option to mask column data during table space data set copy.
 - Two new commands to tailor the performance of DFSMSdss copy commands.
 - Seven new keywords have been added to the SET command to provide greater functionality.
- VCR and FTR
 - ISPF Interface
 - The prefixes used by VCR and FTR have been changed and require a migration

VCR: Support for IBM Extended Address (EAV) Volumes

Support for extended address (EAV) volumes has been added. EAV volumes introduced new types of DSCBs. VCR now supports the new DSCB types.

VCR: IBM Incremental FlashCopy Support

VCR provides an option to invoke Incremental FlashCopy.

The COPY command, DATA-MOVER keyword, INCREMENTAL(YES) will request ADRDSSU invoke Incremental FlashCopy instead of FlashCopy. All Incremental FlashCopy rules must be followed.

VCR: IBM Space Efficient FlashCopy Support

VCR provides an option to invoke Space Efficient FlashCopy. The COPY command, DATA-MOVER keyword, FCSETGTOK will request ADRDSSU invoke Space Efficient FlashCopy. A Space Efficient FlashCopy operation is useful when a DB2 system clone is required for a short period of time such as to read reports from it on a daily basis.

Example

```
COPY DATA-MOVER(PGM(ADRDSSU) -  
  FCSETGTOK) -  
  FROM-STORAGEGROUP(SRCSG) -  
  TO-STORAGEGROUP(TGTSG) -  
  USERCATALOGS( CAT.SOURCE CAT.TARGET ) -  
  CATWORK( CLONE.WRK.* ) -  
  CATWORK-ATTR( UNIT(SYSDA) SPACE(2 2) CYLINDERS) -  
  JOURNAL-DDN(JOURNAL)
```

VCR: EMC TimeFinder/Clone Mainframe Snap Support

EMC storage customers can use VCR to invoke TimeFinder/Clone Mainframe volume snap to copy storage volumes. TimeFinder/Clone supports consistent and differential options. EMC TimeFinder/Snap virtual volume cannot be invoked directly, but can be used and automated using documented procedures. Both the COPY and COPYCHECK commands contain changes for this support.

The DATA-MOVER PGM sub-keyword, EMCSNAP, will request that EMC TimeFinder/Clone operations be used. Other new DATA-MOVER sub-keywords have been added to request specific TimeFinder/Clone functionality. The EMCSNAP keyword addition to COPY command is:

- DATA-MOVER([PGM(ADRDSSU | **EMCSNAP** | NONE)]

The source and target volumes will be online at the time of the COPY command. The existing keywords for specifying source and target volumes are used for SNAP processing:

- FROM-STORAGEGROUP/TO-STORAGEGROUP
- FROM-USER-STORAGEGROUP/TO-USER-STORAGEGROUP
- FROM-VOLSER/TO-VOLSER

VCR: Consistency Group Support for IBM and EMC

Consistency Group support has been added for both IBM FlashCopy and EMC TimeFinder/Clone.

The COPY command, DATA-MOVER keyword, CONSISTENT(NO|YES) will request the consistency group option in either IBM FlashCopy or EMC SNAP.

VCR: Allow a slow copy when FASTREP(PREF) is specified

VCR has been extended to allow a slow copy process when FASTREP(PREF) is specified. Previously, FASTREP(PREF) only supported fast copy processes and FASTREP(NONE) had to be specifically specified to invoke slow copy method.

FTR: EMC TimeFinder/Clone Mainframe Snap Data Set Snap

FTR will invoke EMC TimeFinder/Clone Mainframe Data Set Snap for EMC storage customers using TimeFinder/Clone. The DATA-MOVER PGM sub-keyword, EMCAPI, will request EMC TimeFinder/Clone be used.

Specify the following in the COPY command to utilize EMC's SNAP DATASET facility to make the copies: DATA-MOVER(PGM(ADRDSSU | **EMCAPI** | NONE).

FTR: Option to Always Copy Indexes

FTR provides an option to always copy indexes. This enhancement adds a MVFINI PARMLIB member entry and a new COPY command keyword to allow FTR to always copy indexes for all table spaces selected.

The following new keyword and values are added to the DSN_COPY_OPTIONS section of MVFINI.

- ALWAYS_COPY_INDEXSPACES = Y | N

The following new COPY command keyword and values have been added:

- ALWAYS-COPY-INDEXSPACES (Y | N)

FTR: Option to Mask Column Data

FTR now provides options to mask one or more columns during the table space refresh process. The masking changes are made during OBID translation step based on masking rules

that are enabled during the copy. All referential integrity columns will have same masking function applied. Many types of data masking functions are provided, such as:

- STATIC RULE , FIELD = CONSTANT VALUE
- MASK RULE, FIELD = [a-z0-9]*10
- PATTERN RULE (Sir | Mr) Bill
- RANDOM RULE, FIELD = RAND(1, 100)
- USER EXIT RULE , FIELD = USER_EXIT()
- SEQUENCE RULE , SEQ(1, 1)
- SCRAMBLE RULE , SCRAMBLE(FIELD)
- CURRENT DATE, CURRENT TIME, CURRENT TIMESTAMP RULES
- CURRENT USER RULE.

Masking features provides data security anonymity. For example, column data changes could be applied to social security and credit card numbers, names, and addresses.

FTR: Commands to Adjust Performance of DFSMSdss Copy

Two new commands are provided to allow users to adjust performance of DFSMSdss copy commands. These commands were previously available as settings in the parmlib and are now available as commands to provide greater flexibility. The two commands are:

- DSNS-PER COPY() – indicates how many data sets to send to DFSMSdss in a single copy command.
- DSS-COPY-COMMANDS() – indicates the number of DFSMSdss copy commands to send to DFSMSdss in a single invocation.

FTR: New SET command Keywords

Seven new keywords have been added to the FTR SET command to provide greater functionality. The keywords include:

- DB2-PLAN – provides for the specification of the DB2 plan name for source and target DB2 subsystem connects.
- MAX-COPY-RC – specifies the maximum return code for dataset copy. When the specified return code is exceeded, the job ends in error.
- MAX-RC – specifies the maximum job return code. When the specified return code is exceeded, the job ends in error.
- MAX-SUBTASKS – specifies the number of subtasks to start.
- MERGE-PRINT – message output to CKZPRINT and CKZLOG can be combined into CKZPRINT.

- TCPIP-SERVER-PORT – specifies the port the TCPIP server uses to wait for requests from the source job and the source job uses to connect to the TCPIP server job.
- TCPIP-STC-NAME – specifies the name of the TCPIP address space the source job and TCPIP server connect to.

All but keyword MERGE-PRINT exist in the FTR PARMLIB using underscores rather than dashes.

VCR and FTR: ISPF Panels

This release of VCR and FTR offers an ISPF interface. This interface is available for both DB2 system cloning and DB2 table and index space refreshes. This feature allows the user to create the necessary jobs using interactive panels if desired.

Example ISPF panels are shown below:

```

Volume Clone and Rename      Primary Option Menu
Option ==> _____
0  User settings              User ID . . : CSCHEW
1  Clone                     System ID . . : RS25
2  Administrator functions   Appl ID . . : MVF
X  Exit                      Version . . : 3.2

```

```

Volume Clone and Rename      Clone
Option ==> _____
1  DB2 subsystem clone
2  DB2 tablespace clone

```

The ISPF interface requires a VSAM data repository to hold cloning and refresh profile information for both DB2 system cloning and table space refreshes.

VCR and FTR: Product Prefix Change and Migration Requirement

The prefixes used by VCR and FTR have been changed to MVF. Prior VCR and FTR prefixes were not registered with IBM so there could be a conflict with other products. The new single prefix, MVF, has been registered with IBM. We apologize for any inconvenience.

- The prefix change requires a migration. The migration is fully documented in the. *VCR V3.02 Installation & Maintenance Guide*. If procedures (PROC) were used during VCR

or FTR implementation, the impact is much less; only procedures would need to change, instead of all the JCL.

In summary, the migration requires some JCL changes:

- Program names executed need to be changed
 - Some DD names that include “VCR” and “FTR” need to be changed
 - Names of some distributed data sets have changed
- Separate VCRINI and FTRINI parmlib members are consolidated into a single MVFINI. To ease migration, a job is provided which will migrate VCRINI and FTRINI parmlib members into a single MVFINI. This job changes entry names and merges the sections as necessary into the MVFINI.

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