

GET JUST THE DATA YOU NEED

The ever-growing amount of data maintained within today's IT organizations can make testing more difficult and time-consuming. Using full copies of production data may no longer be feasible because they cause long testing cycles. However, IT professionals need data that represents production. Compuware offers a solution.

Compuware File-AID/Related Data XPERT (RDX) offers developers and database administrators an efficient way to extract, load, protect and delete synchronized subsets of related DB2 and MVS data. File-AID/RDX uses an ISPF-like interface to create and populate test tables that reflect production relationships accurately using a relevant subset of the data, all without coding SQL or writing independent programs. Data related by referential integrity (RI) or application-defined relationships (AR) is copied within the respective DB2 and MVS environments with full support for all relational constraints.

VIEW ALL RELATED OBJECTS

DBAs and developers often need to see all of the objects related to a specific, driving object. File-AID/RDX displays the complete set of related objects, cascading down through the dependent objects until all relationships are shown. File-AID/RDX presents this information in a tabular or graphical format, making it easy to visualize the related structure.

GAIN MORE CONTROL OF EXTRACTS

Getting just what you need is easy. File-AID/RDX enables you to generate and execute an extract from a single screen. If the selection criteria require changes, the user can optionally specify new selection criteria. After the new selection criteria are entered, the extract can be executed from that screen.

Users can also extract related DB2 data from the most recent full Image Copy using the IBM DB2 Batch Utility (DSNUTILB). With this option, you can execute the extract outside of your production environment. What does this mean to you? Image Copy enables users to run an extract — without impacting the batch window. Image Copy avoids the unpredictability of scheduling an extract job during the time-constrained batch window.

Extract criteria also can be shared across DB2 subsystems, giving you the option to apply it to a different subsystem.

```
File-AID/RDX ----- Extract - DB2 Driving Object ---- JCL ready to SUBMIT
OPTION ==>                                         Scroll ==> CSR
                                                SITE Profile: RDXQUICK

Primary Commands: MVS driving object, Edit JCL, Go to submit job

Specify table to drive extract process from:
SSID           ==> D901
Location       ==> D901CW01      (* or pattern for selection list)
Creator        ==> DSN8910      (* or pattern for selection list)
Table Name     ==> ACT          (* or pattern for selection list)

Specify New Selection Criteria ==> N      (Y = Yes; N = No)

Extract Information:
File name      ==> FRSAMP.EXTRACT

Relationship information:
File name or pattern ==> FRSAMP_RELATION
```

The File-AID/RDX user interface enables a novice user to generate an extract with minimal input, yet provides flexibility to allow an expert user to fine-tune File-AID/RDX to their exact specifications.

PROTECT SENSITIVE DATA

Data privacy regulations and corresponding litigation are an increasing concern across industries. Therefore, IT staffs are looking for ways to protect their production data from unauthorized viewing — especially during application testing, when sensitive data can be very vulnerable to fraud or theft.

Compuware Data Privacy solutions span both mainframe and distributed platforms, and use consistent data disguise techniques across all environments. The powerful integration between File-AID/RDX, File-AID/Data Solutions and File-AID/EX provides a unique solution to help companies address data privacy requirements in the test environment. This combination of File-AID products provides the following comprehensive functionality to ensure the privacy of your test data:

Encryption: Replace sensitive values with arithmetically formulated data using an encryption key.

Masking: Conceal only portions of a field.

Aging: To protect dates that may or may not need to maintain birth-year integrity, this File-AID combination provides an aging function that allows dates to be aged according to the business need.

Data Generation: With this technique, you can generate fictitious data from scratch or from some other source.

Translation: This is a very effective way to replace values consistently with fictitious, readable values, like names (e.g., replacing Rosemary with Susan) or birthdays (e.g., month and day only so the original birth year is retained).

To help create and manage privacy specifications, Compuware includes a workbench that allows users to define, update and manage privacy criteria in a commonly shared repository. Once defined, privacy specifications can be applied in the File-AID Related Extract component.

File-AID/RDX Benefits

- Completes more test cycles in less time
- Allows an easy refresh or related tables
- Preserves data integrity and data relationships
- Provides self-sufficiency for developers
- Ensures high-quality testing by allowing you to create a reusable test environment in which sensitive data is protected

IMPROVE CONTROL AND FLEXIBILITY OF PROFILES

File-AID/RDX supports profiles, which are saved sets of variables that control the execution and flow of the product. You can customize File-AID/RDX to meet your installation's standards. Profiles can be site-wide, specific to groups or applied to an individual user. With profiles, administrators can implement File-AID/RDX with greater control and flexibility. The profile feature ensures individual users do not exceed their profile-defined parameters.

QUICKLY CREATE TEST DATA FOR DISTRIBUTED APPLICATIONS

Distributed applications in development often lack test data. Creating this data from scratch is a tedious process. To create a meaningful data sample, you must copy synchronized subsets of all related objects required for testing the applications. Using File-AID/RDX and File-AID/EX, you can easily populate test databases with related mainframe data. File-AID/EX easily loads data into Oracle, Sybase, Microsoft SQL Server or DB2. Simply change the creator, table and view names to load the exact set required by your target database. Column mappings can be defined between source and target tables to accommodate differences in column names, types and lengths.

```
File-AID/RDX ----- Extract Menu -----
Option ==> _                               Scroll ==> CSR
                                           PFHKFLO Profile: RDXMENU
                                           SSID: D901

Primary commands: menu-number, ALL, REference, REQuest, MODE
Line commands: S or / to create flow through selected options.

Description ==> DB2-DSN8910.ACT

Current Values
- 1 Driving Object          DB2-DSN8910.ACT
- 2 Extract Scope and      Dir=Y, Par=Y, Sib=N, Ind=N, Cycles=*
  Detailed Extract Views  23 of 23 Relationships Active
- 3 Unrelated Objects      None
- 4 External Key File      None
- 5 Selection Criteria     None
- 6 IMS Key File           There are no IMS Relationships defined
- 7 Extract File DISGUISED PFHKFLO.FRSAMP46.EXTRACT
- 8 Continue with load     No
- 9 Save Extract Request   Request has not been saved
- 10 View JCL
- 11 Submit JCL
```

The Extract Menu utilizes profiles to speed up the process of building an extract request.

```

File-AID/RDX ----- Extract Reference List ----- Row 1 to 15 of 64
Command ==> _ Scroll ==> CSR

Primary Commands: New, Find, Size, Detail, REQuest
Line Commands: G = Go C = Change Selection & Go S = Select M = Modify
                I = Info D = Delete from list L = Lock U = Unlock

Request  Extract File Name                                     RT L YY/MM/DD
-----  -----
FRXVAL3  PFHKFL0.FRSAMP45.EXTPDS (FRXVAL3)                       E   09/02/24
RDXTST   PFHKFL0.FRSAMP45.EXTPDS (RDXTST)                         E   09/02/24
RDXTST   PFHKFL0.FRSAMP45.EXTPDS (VAL1)                          E   09/02/24
ABTST    PFHKFL0.FRSAMP45.EXTPDS (VAL1)                          E   09/02/24
         PFHKFL0.FRSAMP45.EXTPDS (VAL1)                          E   09/02/24
NEWCOL   PFHKFL0.FRSAMP45.EXTPDS (NEWCOL)                         E   09/02/24
         PFHKFL0.FRSAMP45.EXTPDS                               E   07/06/13
EEED801  PFHKFL0.EXTRACT                                          E   07/06/13
EEEEEE   PFHKFL0.EXTRACT                                          E   07/06/13
EXTMENU  PFHKFL0.FRSAMP45.EXTPDS                                  E   07/06/12
FARDX1   PFHKFL0.FRSAMP45.EXTPDS                                  E   07/06/12
MODEL2   PFHKFL0.FRSAMP45.EXTPDS (MODEL2)                        E   07/06/12
MODEL2   PFHKFL0.FRSAMP44.EXTPDS                                  E   07/06/12
MODEL    PFHKFL0.FRSAMP45.EXTPDS (MODEL)                         E   07/06/11
MODEL    PFHKFL0.FRSAMP44.EXTPDS                                  E   07/06/11

```

Displayed here is an Extract Reference List of a previously executed saved request.

```

File-AID/RDX ----- Graphical Relationship Display ----- Row 1 to 15 of 15
Command ==> _ SCROLL ==> PAGE

TAB to Table and press ENTER for an Option List
* Denotes the table is involved in additional relationships

DB2-CUSTOMER_TABLE
├── DB2-ORDER_TABLE
│   └── * DB2-ORDER_LINE_TABLE
└── DB2-CONTACT_TABLE

DB2-PART_TABLE
├── * DB2-ORDER_LINE_TABLE
└── DB2-SUPPLIER_TABLE

```

Defining an application relationship is easy with File-AID/RDX.

EASY ACCESS TO SAVED REQUESTS

The Extract Reference List enables you to choose from previously executed saved extract requests, which can be executed directly from the list. Previously saved extract requests are configured to roll off when a maximum number of entries is reached. These can be locked on the list via a single command. A similar Load Reference List is also available. You can save all extract and load requests in a user-specified repository for reuse. This functionality greatly enhances the ability of business analysts and other nontechnical users to modify and execute extracts without assistance.

EASILY DEFINE AND ACCESS RELATIONSHIPS

File-AID/RDX supports both RI and AR for extracting and creating synchronized subsets of test data. Existing relationships can be loaded automatically. AR data is easy to add and are stored in the File-AID/RDX repository along with RI information.

This relationship repository, a VSAM dataset, is the single source for relationships that are required to extract and load relationally intact sets of objects. File-AID/RDX lets you define object relationships that allow flexible mapping between objects using full or partial columns.

The Relationship function provides the means of defining relationships between objects. These are shared between Compuware File-AID *for DB2*, File-AID/RDX and DBA-XPRT *for DB2*. For reference, you can print a report listing all relationships in the relationship dataset.

SAFELY PURGE DB2 DATA

To maintain high application performance, production databases should only contain necessary rows. The extract, load and delete capabilities of File-AID/RDX make it an excellent tool for safely purging production data. Archived data can be viewed and restored.

ENTERPRISE-WIDE DATA MANAGEMENT

File-AID provides an enterprise data management workbench, enabling you to quickly and easily find, create, extract, transfer, convert, load, edit, protect, age and maintain data. With File-AID, you can focus on the real job at hand — developing and maintaining applications that meet business needs.

To learn more about Compuware File-AID/RDX, visit:

compuware.com/file-aid

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