

REDUCE THE RISK OF AN IMS “PRODUCTION DISRUPTION”

Reduced staff and a growing database environment — which includes adding new data to be stored, retrieved and manipulated on a daily basis — increase an organization’s risk of “production disruption.” Compuware File-AID for IMS enables application developers to do more with fewer resources.

With powerful selection, search and editing capabilities to simplify the process of building and maintaining an IMS data environment, File-AID for IMS provides secure, managed access to IMS data. By providing a shop-wide process, it decreases the risk of a “production disruption,” reduces the waste of individual approaches to data access and pleases your auditors.

SECURITY FIRST

File-AID for IMS translates ISPF-like commands into IMS database calls. Database integrity is maintained by IMS and existing packages, such as RACF, CA-Top Secret or CA-ACF2. File-AID for IMS also contains a security exit for added control.

Using COBOL or PL/I segment layouts, developers can easily edit the contents of a segment occurrence with File-AID for IMS. Because security is such an important consideration in the IMS environment, File-AID for IMS creates an audit trail report that displays each database segment whether added, changed or deleted. When developers use COBOL or PL/I layouts to edit the database, File-AID for IMS issues a report in the same layout. A before-and-after view clearly displays the contents of individual fields in each changed segment.

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EDIT - HFHNNR0.H019999.ORDER1DB ----- (DBD-ORDER1DB)- LINE 00001
COMMAND ==> _____ SCROLL ==> PAGE
PARENT:
SEGMENT: ORDER      CONCATENATED KEY: 00000000004900
-----LEVEL NUMBER/DATA-NAME----- -FORMAT- -----FIELD VALUE-----
01 ORDER-SEGMENT
 05 ORDER-KEY
   10 ORDER-PREFIX          Z   5  K 00000
   10 ORDER-NUMBER          Z  10  K 0000004900
 05 ORDER-PURCHASE-NUMBER  P  13  1234567890123
 05 ORDER-DATE-YYMMDD      C   6   000929
 05 ORDER-STATUS           C  32  IN-PROGRESS
      (POS 31-32)
 05 ORDER-TOTAL-AMOUNT     PS  7  2 8335.74
 05 ORDER-NEXT-ITEM-SEQUENCE P   5   10
 05 ORDER-CUSTOMER-KEY
   10 ORDER-CUSTOMER-PREFIX Z   5   00000
   10 ORDER-CUSTOMER-ID    C  32  BESTBOLTS
      (POS 31-32)
 05 ORDER-PURCHASE-TYPE-KEY
   10 ORDER-PURCHASE-TYPE-PREFIX Z   5   00000
   10 ORDER-PURCHASE-TYPE   Z   3   001

ENTER UNFMT TO SWITCH TO UNFORMATTED MODE, CHAR TO SWITCH TO CHARACTER MODE
418 @:00.1 02/15

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Using COBOL or PL/I segment layouts, developers can easily edit the contents of a segment occurrence with File-AID for IMS.

EASY TO USE

File-AID for IMS has a familiar, ISPF-like interface so novice and experienced developers can view, analyze and change IMS data using formatted, full-screen displays.

File-AID for IMS also provides IMS-tailored commands to increase power and flexibility. A parent segment and its children, for example, can be copied or repositioned in the database using either a specific COBOL-formatted key or a command such as PARENT, CHILD or TWIN.

In addition, File-AID for IMS provides effortless database navigation by changing the cursor location in Edit and Browse for both formatted and unformatted modes. The product allows users to scroll forward and backward throughout the database based on preset bookmarks. A specific scroll amount can also be applied, or the MAX operand can be used to expedite data manageability. This functionality allows users to move throughout the database with ease, and set specific locators to track their navigation.

Developers can choose from three editing modes in File-AID for IMS to accomplish tasks. Developers can edit the contents of a segment occurrence using COBOL or PL/I segment layouts by identifying the field name and value. The unformatted mode permits editing of a segment occurrence in hexadecimal representation, and the character mode displays multiple segment occurrences in hierarchical order, one segment per line.

GET THE BIG PICTURE

File-AID for IMS graphically displays database hierarchy and positioning, allowing developers to easily traverse the database hierarchy and to understand the relationships between databases when tracking IMS data-related problems.

PROTECT SENSITIVE DATA

Compuware offers powerful integration between its File-AID/RDX, File-AID/Data Solutions, File-AID for IMS, File-AID for DB2 and File-AID/EX products to help companies address data privacy requirements in the test environment. Our unique solution spans both zSeries mainframe and distributed platforms, and uses consistent data disguise techniques across all environments.

File-AID for IMS provides a single-step process to extract IMS data to use with File-AID/Data Solutions. Upon request, File-AID for IMS will create the necessary XREF during extract to prepare files for disguising production data with File-AID/Data Solutions.

CREATE SUBSETS OF IMS DATA

To create subsets of complex databases, use the powerful extract and load functions of File-AID for IMS. Developers use flexible selection criteria to retrieve the precise database subset needed. File-AID for IMS automatically extracts logical- and application-related segments to create synchronized subsets of production data for testing. The tool also supports loading extracted data into an existing, empty or uninitialized database, including generating the JCL necessary to initialize the new database.



The Hierarchy Display screen enables developers of all skill levels to easily become familiar with traversing the database hierarchy.

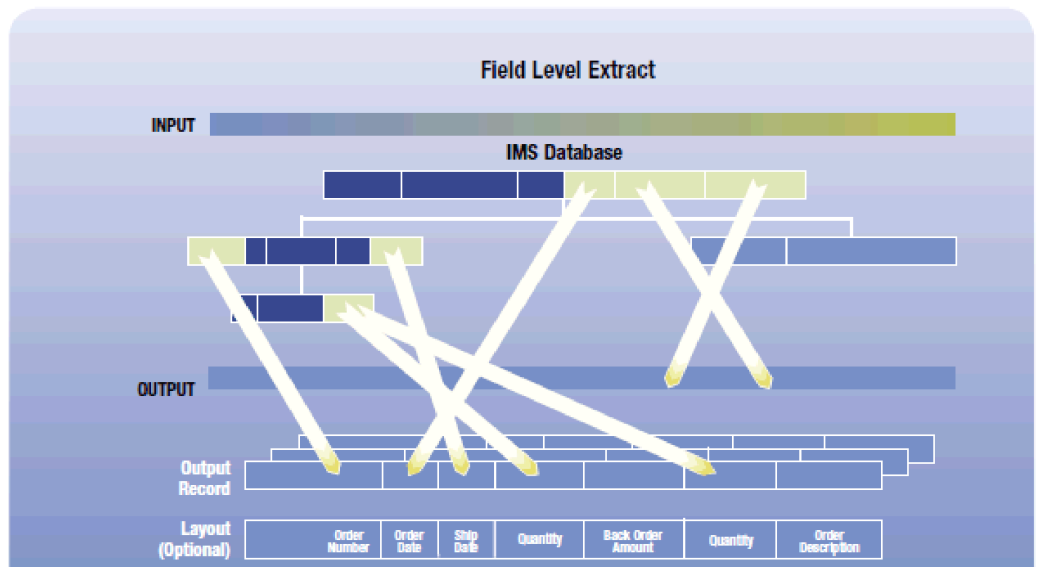
INTEGRATION WITH OTHER COMPUWARE TOOLS

File-AID *for IMS* interfaces with Compuware Hiperstation to help testers deal with file-related issues, including building test data and backing up test data files. When used with Compuware Abend-AID, File-AID *for IMS* speeds resolution of data-related production problems. Abend-AID recognizes the erroneous IMS data and automatically initiates a File-AID *for IMS* session. A hot-key interface provides developers with direct access to File-AID *for IMS* for scanning files and databases and finding incorrect data contributing to the error.

File-AID *for IMS* interfaces with File-AID/RDX to create a related set of data that includes IMS, VSAM and DB2 data. File-AID *for IMS* uses a key file, created by File-AID/RDX while extracting DB2 and/or VSAM data, to extract specific IMS data. This results in a complete subset of production data across data environments for testing.

COMPLETE IMS ENVIRONMENT SUPPORT

When working in the ISPF environment, File-AID *for IMS* permits access to both online (through BMP or DBCTL) and offline IMS databases. The File-AID *for IMS/DC* option provides transaction access to databases online to IMS. Similarly, developers can use the File-AID *for IMS/CICS* option for transaction access to IMS databases that are online to CICS.



The Field Level Extract capability enables developers to extract IMS segment fields to an output record.

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File-AID for IMS/FLEX Models
Option ==> _____

Enter number or service name.
Enter END command to cancel MODEL command.

FLEX Examples      Environment      Primary Action
F1 MULTXREF        E1 TYPE        P1 COUNT
F2 UPDTXTR         E2 PSB         P2 INSERT
F3 UPDEXIST        E3 SET         P3 PR (print)
F4 DLETSEG         E4 SETEXTRACT  P4 SELECT
                   E5 TITLE

SELECT sub-commands  object keywords  optional keywords
S1 SEL-CHANGE       B1 SEGMENT      O1 MAXIMUM
S2 SEL-COUNT        B2 CHILD        O2 SE (set)
S3 SEL-DELETE       O3 SKIP         O3 SKIP
S4 SEL-EXTRACT      O4 ST (start)   O4 ST (start)
S5 SEL-INSERT       O5 WHERE        O5 WHERE
S6 SEL-PRINT

Note: New users are encouraged to use the "Example Sets". These
examples are taken from the File-AID for IMS/FLEX reference
manual.
    
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The FLEX menu makes it easy to select the appropriate action for the creation of batch jobs

ADDED FLEXIBILITY

File-AID *for IMS/FLEX* extends the powerful file and data management capabilities of File-AID *for IMS* to the batch environment, so IT teams can schedule tasks for off hours, and handle high-volume changes more effectively.

File-AID *for IMS/FLEX* also effectively manages production fixes or maintenance modifications to large volumes of production data.

EASILY EXPORT DATA TO OTHER APPLICATIONS

When applications span processing environments, data creation is even more complicated. The File-AID *for IMS/FLEX* Field Level Extract capability builds output datasets from fields contained in any segments in an IMS path, eliminating the need for custom programming. This function creates datasets for loading DB2 tables, populating distributed databases and other user-provided application programs. Developers can build dataset records to contain a complete segment, a subset of the fields in a segment or fields from multiple segments in an IMS path. An additional layout dataset option provides reformatting, browsing, editing and other similar activities for a COBOL or PL/I layout.

To learn more about Compuware File-AID, please visit:

compuware.com/file-aid

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