



DBICF

Database Integrity Control Facility for IMS

Workbench for IMS and DBRC

- /** Simplify IMS administration, management and operation
- /** Simplify the use of Data Base Recovery Control (DBRC)
- /** Simplify database repair and reduce the duration of IMS outages
- /** Maintain IMS data integrity in normal and abnormal situations
- /** Provide a focal point for the service and maintenance of IMS databases
- /** Maintain an audit trail of DBRC commands and IMS utilities

Overview

DBICF (the Database Integrity Control Facility for IMS) simplifies and automates the use of DBRC, both with and without IMS data sharing. *DBICF* provides an ISPF interface to DBRC commands and IMS utilities to simplify database repair operations and reduce operational outages. *DBICF* can generate batch jobs for standard housekeeping as well as recovery procedures for an entire IMS system. *DBICF* includes predefined queries that provide quick access to system information for DBA's, operators and systems programmers. RECON and ICF catalog data can also be copied to a DB2 table to allow ad hoc SQL queries. *DBICF* maintains a complete audit trail of DBRC commands and IMS utilities.

Benefits

- Automate IMS database management on a routine and exception basis
- Shield users from DBRC command syntax and ensure DBRC commands are specified correctly
- Automate procedures for image copy, recovery, authorization and database sharing
- Automate disaster recovery procedures for IMS databases or an entire IMS database system
- Minimize data entry and avoid input data redundancy
- Reduce the expertise needed to control IMS systems and data
- Organize and control IMS databases more efficiently

Features

- Supports DBRC in all IMS and CICS environments - with and without data sharing
- Takes preventive and corrective actions to protect databases against operational errors
- Snapshots RECON data to a DB2 table for SQL reporting
- Generates utility jobs needed to backup, recover, monitor and reorganize IMS databases
- Performs consistency checking for all databases registered with DBRC
- Determines whether IMS batch jobs can be started
- Supports Remote Site Recovery (RSR) and Sysplex data sharing
- Controls back-out of IMS batch jobs that do not complete successfully and generates recovery jobs automatically if the backouts fail
- Generates jobs to image copy all databases, related databases or just those databases updated since the last image copy
- Creates IMS test databases automatically, using either current or previous databases content

Operation

DBICF makes it easy to manage and maintain your IMS database systems. The product provides an intuitive and task oriented interface that lets you perform a multitude of functions with a single tool. *DBICF* contains functions that:

- Provide DBRC operational support
- Support RECON management and maintenance
- Generate recovery jobs for IMS database datasets (that can run in single or parallel mode)
- Compare the RECON dataset with the Data Base Description (DBD) library, MVS Dynamic Allocation (MDA) members and databases specified in the IMS system definition
- Generate the MDA source statements necessary to dynamically allocate IMS databases
- Provide DBA's with quick access to system information such as online displays of backup history, space allocation, database/dataset reference and access intent
- Allow any generated job to run as a started task

Data Base Information Retrieval Facility

The Data Base Information Retrieval Facility (DBIRF) provides additional reporting capabilities about IMS databases. DBIRF extracts RECON, VTOC and VSAM catalog data and loads it into a DB2 table. You can then query this information via predefined reports and ad hoc SQL queries.

Prerequisites

DBICF requires the following software:

- IMS/ESA Database Manager Version 5 Release 1 (5695-176) and subsequent releases
- OS/390 V1R2 and subsequent releases

The optional Database Information Retrieval Facility requires the following additional software:

- DB2 V4.1. and subsequent releases
- PL/I V2.3 or PL/I for MVS and VM

Who will Use DBICF

Application Developers	✓
End Users	
DBAs	✓
Operations	✓
Technical Support	✓
Systems Programmers	✓

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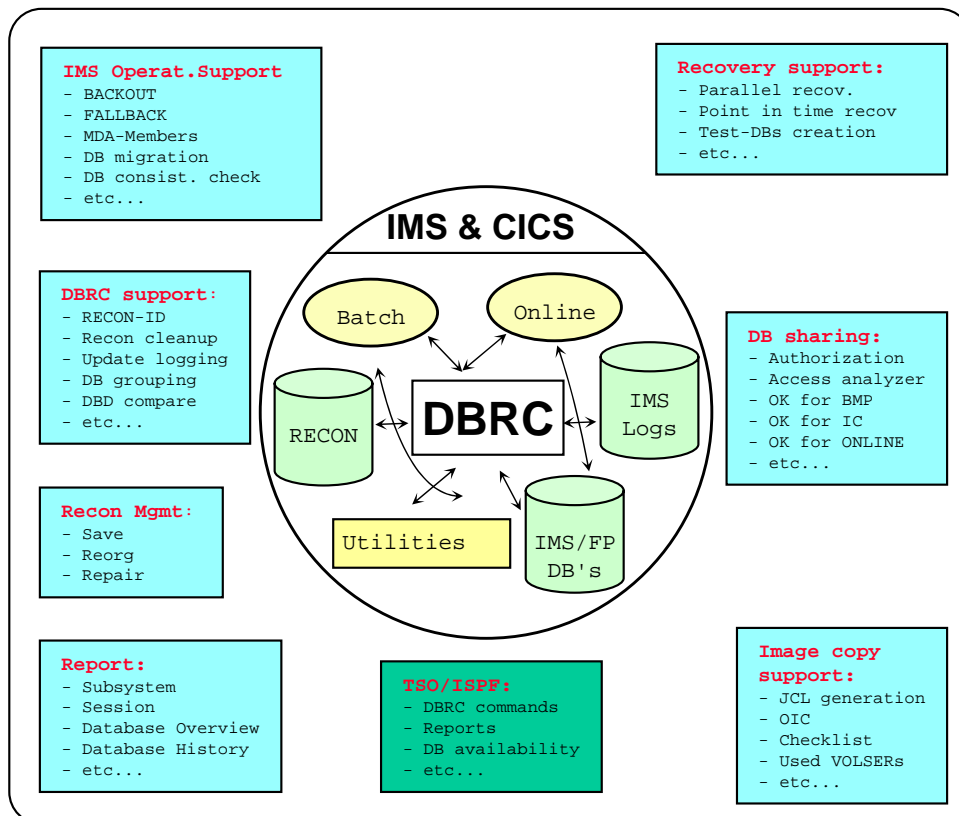


Figure1. DBICF Functional Overview