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**Convert/IDMS-DB** is a fully automated migration solution that converts your existing IDMS-DB COBOL and PL/I programs, data and databases into “ready-to-test” applications supporting any ANSI standard SQL environment including DB2, Oracle, or MS SQL Server. The resulting converted applications are functionally identical to their IDMS counterparts.

Convert/IDMS-DB is superior to anything the competition has to offer because it:

- Has no 'black box' tools or run-time routines to maintain or depend on after the migration.
- Creates a true relational SQL database design from the IDMS schema - with all primary and foreign keys properly implemented.
- Doesn't generate "junction" tables to implement SQL relationships. This results in an architecture that has superior usability and exceptional performance because there is no unnecessary I/O.
- Can perform automated data analysis - long before the data conversion phase. This unique process identifies any bad data that may be hiding in the database and provides clients with the ability to specify how identified anomalies should be handled.
- Can perform hash totaling of the IDMS database through database sweeps (so all records are read) then the hash totals can be compared to those created during Data Conversion to verify that no data was lost. These hash totaling programs can also be customized by the client, if desired, to do specialized data validations.
- During data conversion, can generate hash totals on any display numeric or packed

decimal field – which can then be used in conjunction with IDMS or SQL queries to aid in verifying that all IDMS data has been moved to SQL.

- Guarantees that no data will be left behind at extract time. Other vendors use a data extraction method that can easily overlook data records under certain conditions. Waiting until production implementation to learn that you've lost critical data is avoided with Convert/IDMS-DB..

### Conversion Output

All IDMS-DB components are converted to equivalent relational database components:

- DML statements in IDMS-DB programs are converted to ANSI standard SQL statements
- The IDMS schema is converted to DDL for the target environment
- A set of programs is generated to convert your data from the current IDMS environment to the target relational environment

### Customization Options

Convert/IDMS-DB includes a wide variety of user program customization options including:

- Renaming of programs, copybooks and other components
- Whether COBOL SELECT statements are to be generated as SELECT \* or as SELECT fieldname
- Whether COBOL PERFORM statements are to be generated as PERFORM *sectionname* or as PERFORM *paragraphname* THRU *paragraphname*-EXIT
- The type of library control cards to be used for COBOL programs and copy members (IEBUPDTE, CA-Librarian, CA-Endevor, etc.)



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- Whether existing IDMS statements should be removed from the converted program or left in the program and converted to comments

Convert/IDMS-DB also provides a number of standard schema customization options:

- Whether data access should be via a TABLE or VIEW
- Whether SQL host variables should be generated as 01 LEVELs or 05 LEVELs
- Whether SQL host variable prefixes should be generated
- What format should be used for DATE and TIME fields (ISO, US, European or Japanese)
- What structural changes should be made to the relational database (such as group and elementary item selection, date and time field designations, primary and foreign key modification)
- Renaming of all tables, views and columns

**Benefits**

Pressure to reduce IT costs and deliver more value is constant. Paying multiple license fees for redundant DBMS or TP technologies and keeping qualified staff who know these sunsetting technologies is costly. Many legacy applications are still getting the job done, so redeveloping them from scratch, especially when subject matter experts are about to retire, cannot be cost-justified. Automated legacy modernization is key to solving this problem.

By converting legacy mainframe applications from ADSO to COBOL, you are able to:

- Minimize reliance on scarce (often expensive) trained personnel – thereby reducing application maintenance costs
- Eliminate escalating (often redundant) software license fees
- Enhance application portability

Key benefits of using Convert/IDMS-DB for your redeployment include:

- **Reduced Time** – by leveraging the benefits of automation. This reduces client personnel costs, increases project personnel focus on quality results, and enables application maintenance to continue with minimal disruption

- **Reduced Risk** – by ensuring that, through automation, all program functionality is moved completely and accurately to the new environment.
- **Reduced Cost** – automation, and expertise in applying it, will result in a project of higher accuracy in a shorter duration. Direct vendor fees and internal staffing costs are reduced accordingly.
- **Partnering with the Best** – Forecross has the best migration software, experience and methodology, along with the most complete end-to-end automation for IDMS to SQL migrations.

**Forecross Software Solutions**

**Redeployment Solutions:**

**Languages:**

From: ADS/O, PL/I, COBOL, CSP, IMSADF II

To: COBOL, C# .NET, VB .NET, IBM EGL (Java), .NET COBOL

**User Interfaces:**

From: IDMS-DC, IMS-DC

To: CICS including mainframe CICS, the TXSeries for AIX, Windows, Solaris, HP-UX, other transaction servers (UNIKIX, MicroFocus CICS Option)

**Database Platforms:**

From: IDMS, IMS, VSAM

To: DB2, Oracle, SQL Server

**Solution Enhancement Tools:**

I/O Navigator  
Data Evaluator  
DBAdvisor  
TestSentinel

**XML Solutions:**

L2X SmartXML Series



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