fact sheet fact sheet fact sheet

I/O NAVIGATOR™

Putting the Power of Knowledge in Your Hands

I/O Navigator tests all database access before and after database conversion. It verifies that the IDMS data can be accessed correctly and navigated properly in SQL. In combination with the Forecross Data Evaluator, which is used to verify the content of the data, I/O Navigator ensures a successful conversion of the schema, data, and database access programs.

I/O Navigator generates a schema-specific COBOL program that can be run in the current environment then converted to SQL and run in the target relational environment.

The generated program executes every type of access possible for each record, including all set-related accesses for record-to-record and index sets, as well as area scans and cascading ERASE statements.

Fully test your migrated database… before you even begin converting programs

Finally, the generated I/O Navigator program produces data files for 'before and after' comparison, with audit information critical to the entire migration process.

I/O Navigator can dramatically decrease testing time – which is usually the biggest and costliest part of any migration project.
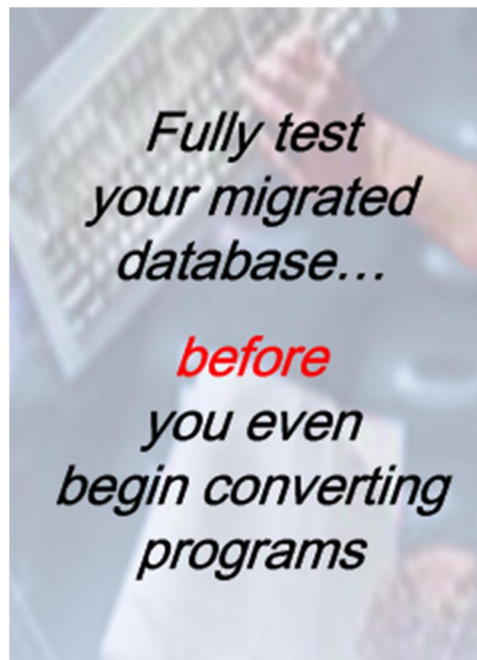
When to Use

In any IDMS to SQL modernization project, a thorough test plan has many components. Two of the key components are:

1. Database validation – to ensure that the database was completely and accurately built and loaded in the target environment

2. Business logic validation – to ensure that the application programs were accurately translated and that the business results they provide are functionally equivalent to the original source.

Normally, once the IDMS database has been extracted and loaded into the relational environment, the most efficient way to verify that both the database and business logic translations are correct, is to execute the converted programs against the new database.

However, the complexities of large legacy migration projects may render this 'normal' approach unworkable. Corporate or governmental regulatory requirements could cause a delay in the programs being ready for translation; IT resource constraints could cause a similar delay; or it could be that the database conversion must take place long

FORECROSS®

505 Montgomery St, 11th Floor
San Francisco, CA 94111
Tel 415-543-1515

www.forecross.com

before the application conversion (if this will happen at all), in order to make the database – a corporate asset independent of the applications that maintain it – available to the business in support of other initiatives.

In short, I/O Navigator can independently verify the accurate conversion of an IDMS database to SQL, long before or completely independent of the business logic conversion that traditionally accompanies it.

Features

- One I/O Navigator program per schema

- Flat file results that can be automatically compared (before and after) and archived for audit compliance

- Supports all Convert/IDMS-DB schema customization options including access to Direct Records, Primary and Foreign key customizations and Bill of Materials structures

Benefits

- **Earlier identification of SQL-related Performance Issues** – I/O Navigator program can be analyzed with SQL run-time analysis tools to identify possible performance issues early in the project

- **Earlier Validation of Schema and Data Conversion** – It is no longer necessary to wait for the business logic programs to be migrated before testing can begin

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

FORECROSS

505 Montgomery St, 11th Floor
San Francisco, CA 94111
Tel 415-543-1515
www.forecross.com