

IDEAL and Datacom Migration



Highlights:

- Eliminate steep IDEAL and Datacom licensing fees; lower TCO as much as 70%
- Migrate complete legacy environments
- Consolidate technology portfolio by moving CA Datacom to any popular relational database
- Enhance data access and flexibility
- Transform CA Datacom access directly to embedded SQL or rapidly rehost programs with CA Datacom DBNTRY calls intact

Deliver a cost-effective, flexible path forward for legacy applications and data

With efficient indexing mechanisms and the ability to handle large data volumes, CA IDEAL™ and CA Datacom® systems have driven some of the world's largest processing environments. But today, the cost and complexity involved in maintaining these legacy systems may have your organization looking for alternatives.

Clerity has the tools, skills, and methodologies to safely move valuable CA IDEAL and Datacom assets to cost-effective open systems. Our automated, technology-based processes address all aspects of IDEAL Datacom migration. Under Clerity's approach:

- Data
 - CA Datacom data is moved to a reliable and easy to maintain relational database system (RDBMS).
- Programs
 - COBOL programs are migrated as COBOL programs with intact DBNTRY interfaces or embedded SQL calls.
 - CA IDEAL programs, panels, and reports are migrated to COBOL programs and maps with DBNTRY interfaces or embedded SQL calls.
- Related facilities and utilities
 - Dataqueries are mapped to a combination of relational views and stored procedures to facilitate reporting requirements.
 - CA Datacom utilities are replaced with RDBMS procedures and utilities.
- Online and batch environments; third-party software
 - Online transaction processing (OLTP) and batch environments, as well as third party software tools are rehosted with UniKix™ software technology and mainframe rehosting reference architecture from Clerity.

Though a complimentary discovery service, Clerity will work with your team to review corporate IT objectives, and then develop the appropriate migration plan for your CA Datacom workloads. Our deep service bench, comprehensive understanding of mainframe and distributed platforms, and proven migration methodologies mean no disruption to ongoing operations, minimal risk for your migration, and rapid return on investment for your chosen solution path.

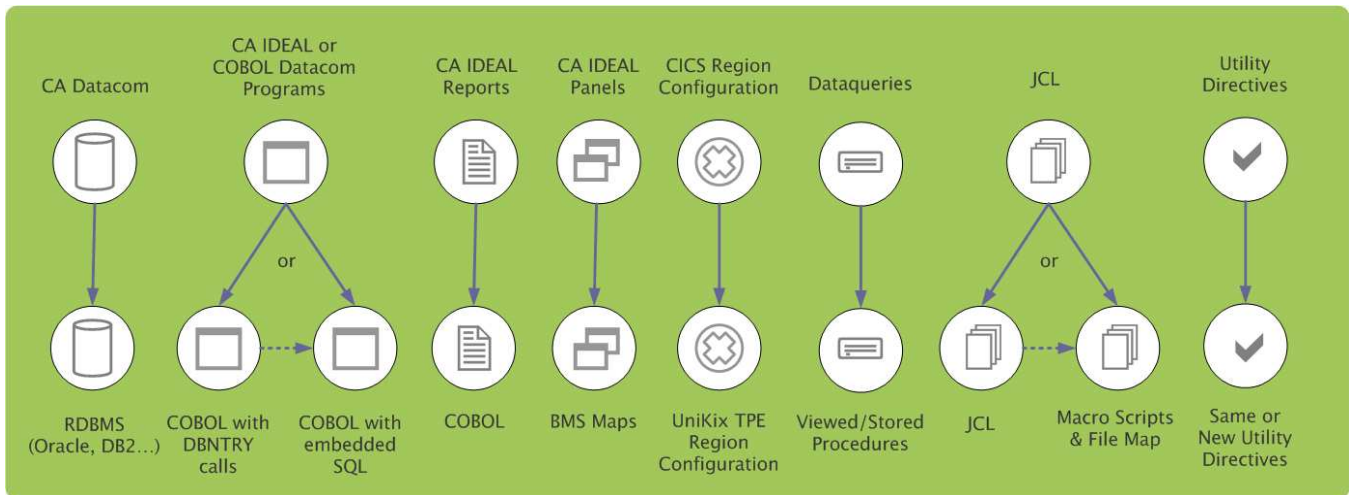


Figure 1. Complete IDEAL Datacom Migration Approach

Data definition and data migration

In any CA Datacom migration, Clerty addresses the required mappings, relational database definitions, and conversion of CA Datacom data into a format that can be loaded in the target Oracle® database, IBM® DB2® database MySQL, or other RDBMS environment.

Our data migration process takes the native binary file as produced on the legacy system, then goes through a full import process on the target environment. That process includes EBCDIC to ASCII conversion, de-duplication of records and rows with the same keys as needed, data cleansing, and bulk import into the target RDBMS database.

Throughout the process, Clerty performs stringent testing of migrated data between two environments to insure that desired results have been achieved and to mitigate migration risk.

CA-IDEAL programs

As depicted in Figure 1, *Complete IDEAL Datacom Migration Approach*, Clerty’s migration process covers all aspects of the CA IDEAL programming environment.

- Programs are migrated to industry standard COBOL.
- Panels are converted to BMS MAPS or moved to a modern, Web-based user interface.
- Reports are moved to equivalent COBOL programs.

Data access

Depending on your technology requirements, desired project timeframe, and targeted return on investment, Clerty has two methodologies to address programs accessing CA Datacom.

Approach 1 - Rehost

If your focus is on retaining current skill sets, minimizing code change, and delivering a rapid migration, Clerty’s rehosting approach to CA Datacom access may be the appropriate solution.

In this approach, legacy COBOL programs are quickly moved to a distributed environment with CA Datacom DBNTRY interfaces intact; legacy CA IDEAL programs with CA Datacom access are moved to COBOL as well. Then COBOL programs on the new target platform continue to behave as if they are directly accessing CA Datacom, but behind the scenes all requests and operations are mapped to a RDBMS database.

Software enables the mapping of CA Datacom DBNTRY calls to the underlying replacement database for development and execution environments. An application development facility with a data dictionary and a convenient graphical user interface (GUI) is also provided to generate this mapping software to use high-performance static SQL based upon your particular data access criteria and usage.

Approach 2 - Migrate/Transform

If you are concerned about the availability of future CA Datacom programmers or would like to move to a completely native solution, Clerty can move all CA Datacom data access interfaces to embedded SQL standardized for relational databases.

Clerty’s transformational process addresses:

- Converting DBNTRY calls to SQL
- Reporting SQL errors rather than Datacom errors on the target platform

- Replacing Datacom error handling where possible

Post migration, application developers create additional programs and directly use embedded SQL to issue requests to the target relational database.

A Phased Approach

These data access migration alternatives are not mutually exclusive; a phased solution approach can be implemented if desired. Your organization may initially choose to implement a rehosting cutover approach initially to rapidly reduce total cost of ownership and then translate program source code with embedded SQL down the road.

Dataqueries

Clerity's service team translates Dataqueries into views or stored procedures, so that query intelligence can then be combined in joins, ad hoc queries, etc.

Online and batch environments

In order to provide a complete migration solution, Clerity offers a suite of mainframe rehosting software that delivers OLTP and batch processing on a range of distributed platforms such as UNIX®, Linux®, Microsoft® Windows® and Linux on IBM® System z®.

UniKix™ Transaction Processing Environment (TPE) software provides general purpose, high performance transaction processing for production environments with EXEC IBM® CICS® and IBM® IMS® transaction interfaces. UniKix TPE software retains interoperability with rich set of end-user and application interfaces, and provides functionality such as BMS and VSAM file processing. End users and interactive applications can leverage the full interoperability capabilities of UniKix TPE software such as terminal connectivity facilitated by BMS maps, web browser interfaces, messaging, and various application to application communication interfaces.

UniKix™ Batch Processing Environment (BPE) software provides JCL translation, job/proc/step processing capabilities, GDG/concatenated data set support, and monitoring/accounting functionality for production batch application execution environments on open platforms. It is also integrated with multiple batch schedulers and print distribution facilities.

Complete end-to-end solutions

Clerity's deep mainframe and open systems service bench can provide project management for the complete lifecycle of any migration. Our service experts can tailor an IDEAL Datacom migration solution with the level of service

required to make your implementation successful, and our infrastructure experts can offer consultative advice for other necessary hardware and software components as required.

The combination of strong products, deep expertise, and flexible service offerings makes Clerity the best choice to migrate IDEAL and Datacom systems to a more cost-effective environment that encourages new business opportunities.

Find more details about this solution and others at www.clerity.com.

About Clerity

Clerity is a leading full-service provider of mainframe migration, modernization, and optimization solutions. Drawing from over 16 years of experience, Clerity recognizes that companies have significant investments in core applications and procedures and provides a wealth of low risk, high value tools, technology, and services to reduce IT costs without sacrificing current functionality and service level agreements. Headquartered in Chicago, Illinois with offices worldwide, Clerity has customers in all in major countries, including some of the largest financial services ISVs and Fortune-class end users.

Learn how Clerity can provide an evolutionary path forward for your application and data environments at www.clerity.com.



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