



Migrate your COBOL applications to a cost-effective, high-performance platform.

Dell Enterprise COBOL



Modernize legacy systems with high-performance COBOL solutions

Dell Enterprise COBOL provides a powerful environment for you to develop and deploy robust, business-critical COBOL applications on scalable open systems. A cost-effective alternative to legacy mainframe and Micro Focus® COBOL dialects, Dell Enterprise COBOL is well-suited to mission-critical interactive and batch environments, as well as standalone application deployments.

Maximize the value of existing resources

You can lower your total cost of ownership (TCO) without impacting existing development teams using Dell Enterprise COBOL. Core components of the technology include:

- Powerful COBOL compiler
- Streamlined, portable run-time environment
- Flexible Visual Studio-based integrated development environment (IDE)
- Graphical and command-line source-level debugger
- Range of data access capabilities to simplify transitions to Dell

Supporting the ANSI-85 standard and legacy COBOL dialects, the Dell Enterprise COBOL Compiler produces optimized, portable object code that you can deploy on a variety of Linux® and Microsoft Windows® platforms to take full advantage of 32-bit or 64-bit deployments.

The Dell Enterprise COBOL compiler handles the majority of operational analysis and execution instructions performed by alternative platforms during runtime. This approach can significantly improve critical runtime performance.

Develop and deploy robust, business-critical COBOL applications on scalable open systems.

Key benefits

- Offers a cost-effective alternative to legacy mainframe and Micro Focus COBOL
- Supports ANSI-85 standard and legacy COBOL dialects
- Produces reliable and efficient object code that can be deployed on a range of platforms
- Complies with standard external file handler (EXTFH) and external sort module (EXTSM) interfaces
- Includes a powerful COBOL compiler, streamlined runtime environment, source-level debugger and a portable indexed file system
- Provides a flexible environment for integrating with external software

The Dell Enterprise COBOL runtime environment can also enhance performance by optimizing access to COBOL data types using native memory. With this memory management technique, COBOL data is loaded in a single operation when possible, as opposed to one byte at a time. The runtime environment has been designed to minimize overhead and deliver improved performance in common enterprise scenarios, as well as inter-language calls such as C calling COBOL or COBOL calling C.

Debugging and diagnostics

The Dell Enterprise COBOL runtime environment includes sophisticated, remote debugging capabilities. You can choose to use a command-line debugger, a graphical standalone debugger or the debugging capabilities found in the Visual Studio IDE to perform source-level debugging activities.

When regular debugging techniques are not able to address a production error or a problem cannot be easily reproduced, the Abend Diagnostic Snapshot (ADS) facility is available to help you report on the state of an application at the moment of the error. This report can be used to identify the root cause of an issue by providing all pertinent information, including:

- Execution environment setting details such as the program version, runtime framework and loaded programs in use
- The names of the COBOL program, paragraph and source file, as well as the source line number of the code that was executing when the exception occurred

- The COBOL call stack at the time the exception occurred, including the names of all programs in the stack and the names of the associated source files
- A dump of COBOL working-storage memory, including each data-item name, length, value and hexadecimal byte dump of the data-item contents

Robust and comprehensive data access

The modular design of Dell Enterprise COBOL supports a wide range of data access options.

The technology supports all common COBOL file organizations and record types. This includes indexed, relative, binary sequential and line sequential file organizations, with fixed and variable length records. Dell Enterprise COBOL also supports EXTfH and EXTSM interfaces. Dell Enterprise COBOL has a built-in embedded structured query language (ESQL) compiler that translates embedded SQL (EXEC SQL) statements to JDBC calls, and also supports Pro*COBOL, DB2 and other precompilers.

The Dell Enterprise COBOL platform also includes JISAM, a portable indexed sequential access method file system that enables fast access to data files.

COBOL for business-critical operations

Dell Enterprise COBOL provides an alternative to legacy COBOL platforms commonly found running business-critical transaction processing systems. Extensive COBOL dialect support makes

it easy for you to migrate existing applications with little to no application code change. Valuable application code can be quickly replatformed and distributed on a wide range of open systems.

Dell Enterprise COBOL technology is integrated with Dell Mainframe Re-hosting software to offer an established and scalable platform to re-host mission-critical online and batch mainframe assets to open systems. Dell's mainframe re-hosting software uses existing skill sets, application code and administrative tools on open systems help improve the bottom line and better prepare an enterprise to sustain competitive advantages in the future.

The COBOL software's Java Invocation API also provides seamless integration between COBOL programs and Java Enterprise Edition (JEE) server environments. With Dell Enterprise COBOL technology, COBOL programs can be called directly from Java programs. Our innovative framework enables you to natively call legacy COBOL programs from Java servlets, web services, Enterprise JavaBeans or any other Java program.

For more information about any of our service offerings, please visit Dell.com/services and Dell.com/appmod or contact your Dell representative.



Scan or click this code to learn how Dell Services can help your organization.

Product and service availability varies by country. To learn more, customers and Dell Channel Partners should contact their sales representative for more information. Specifications are correct at date of publication but are subject to availability or change without notice at any time. Dell and its affiliates cannot be responsible for errors or omissions in typography or photography. Dell's Terms and Conditions of Sales and Service apply and are available on request. Dell and the Dell logo are trademarks of Dell Inc. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell disclaims proprietary interest in the marks and names of others. © 2013 Dell Inc. All rights reserved. February 2013 | Dell Enterprise COBOL Datasheet.indd | Rev. 1.2

