

Visual COBOL

Visual COBOL is a suite of software products designed to meet the needs of IT organizations with existing application investments written in the COBOL language.

Product Highlights

Advanced COBOL application development tools available within Visual Studio and Eclipse provide developers with a modern development experience, consistent with that of Java and C# developers, facilitating fast, agile development and easy onboarding for new staff.

Patented compiler technology offers flexible deployment options across native platforms including Windows, UNIX and Linux systems as well as managed code environments such as .NET and the Java Virtual Machine (JVM). Existing COBOL applications seamlessly integrate with C# or Java systems enabling faster development and service delivery.

Business Benefit

Visual COBOL provides IT organizations with the ability to create new customer value from existing application investments. By re-using core application logic, Visual COBOL removes the risk associated with re-write or replacement strategies which expose the business to uncertain cost and extended delivery time frames.

With Visual COBOL, organizations can quickly and safely respond to new business requirements with predictable and highly cost-effective results.

Feature Overview

- High-performance and optimized COBOL runtime environment
- Highly compatible upgrade path for existing Micro Focus Net Express and Server Express users

- The leading COBOL application development toolset available within Eclipse or Visual Studio
- Integrated application analysis and refactoring tools to accelerate modernization tasks and ease maintenance
- Application development and deployment across Windows, UNIX and Linux platforms
- Extensive 3rd party support including application servers, databases and middleware components
- Direct generation to Java bytecode and Microsoft Intermediate Language (MSIL) for deployment to the Java Virtual Machine (JVM) or .NET platforms
- A modern COBOL language syntax supporting new language constructs for object-oriented development and traditional procedural styles
- A toolkit for web services and API development using SOA, REST and JSON technologies based on existing COBOL applications.
- Advanced diagnostics tools including patented reversible debugging aids for RHEL Intel systems

Detailed Feature Overview

Patented Compiler Technology

The Visual COBOL compiler includes patented technology that offers unique and highly versatile options for COBOL application development. COBOL programs can be compiled to a variety of executable formats including:

- **Intermediate code (.int)** a Micro Focus platform portable executable format

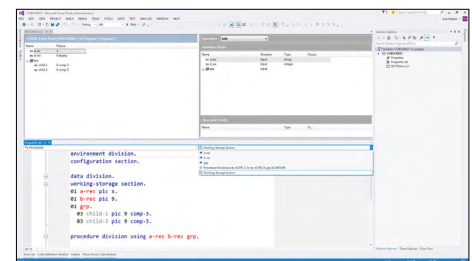


Figure 1. Creating a RESTful web service using the Micro Focus Interface Mapping Toolkit (IMTK)

- **Generated code (.gnt)** a Micro Focus executable format optimized for the target platform
- **Shared Object (.so)** native shared object executable format for UNIX/Linux platforms
- **Windows Executable (.exe/dll)** native Windows executable formats
- **Java bytecode (.class)** COBOL compiled to Java bytecode and executable with the JVM
- **.NET Assembly (.exe/dll)** COBOL compiled to MSIL and executable within the Microsoft Common Language Runtime (CLR).

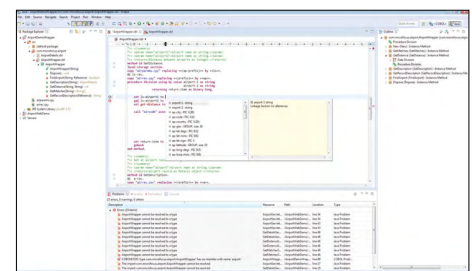


Figure 2. COBOL development using Eclipse

The Visual COBOL compiler offers support for a wide variety of modern and older COBOL dialect variants and includes ANSI and ISO standards, Enterprise COBOL and many others.

High-Performance COBOL

Runtime Environment

Micro Focus COBOL Server provides a high-performance, platform-portable runtime environment for the execution of COBOL applications.

Consistent application behavior is provided across supported platforms and through use of a portable API layer, enabling developers to follow a write-once, deploy-anywhere approach.

Cross-Platform Deployment

The Micro Focus COBOL compiler and COBOL runtime system provides ubiquitous platform coverage enabling COBOL applications to be deployed across a range of distributed systems, ensuring compatibility and consistent behavior across different platforms. Standard library routines callable from COBOL

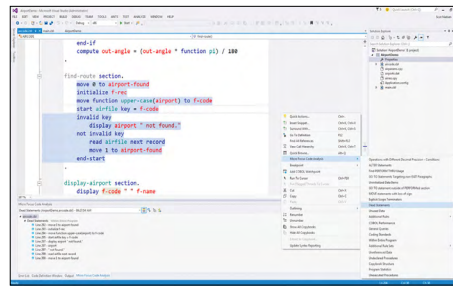


Figure 3. Rules-based analysis available within Visual Studio and Eclipse can be used to identify dead code and adherence to coding standards

applications enable application developers scope to write-once, deploy-anywhere yet still access operating system level functionality.

ISVs can target multiple platforms with the same COBOL codebase, increasing market coverage and reducing application testing overheads. Application owners can swiftly change operating platforms to take advantage of commodity hardware and more agile, flexible deployment options.

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The latest release of Visual COBOL includes support for the Docker container platform, further increasing flexibility for application development and deployment. New product packaging options enable Docker deployment to both Windows Server and Linux platforms.

System Requirements

Products

Application development

- Visual COBOL for Visual Studio
- Visual COBOL for Eclipse
- Visual COBOL Development Hub

Integrated development environments

- Visual Studio 2017, 2019
- Eclipse 4.7 (Oxygen), 4.8 (Photon)

Application deployment

- COBOL Server

Platforms

Microsoft Windows

- Windows—8.1, 10
- Windows Server—2008 R2, 2012 R2, 2016, 2019

IBM AIX

- 7.1, 7.2

HP-UX

- 11.31 2018 release onwards for Itanium

Solaris

- 11 SPARC
- 11 Intel

SUSE

- 12 SP4, 15—64-bit only on Intel and z Systems
- SUSE 15

Red Hat

- 6, 7 on Intel and z Systems

Oracle Linux

- 6, 7, 8 on Intel
- Red Hat Compatible Kernel
- Oracle Unbreakable Kernel

CentOS

- 7, 8 on Intel

Ubuntu

- 18.04 64bit on Intel

Java

- Oracle Java 8, 11
- Adopt Open JDK 8, 11

Java Application Servers

- Tomcat 9
- JBOSS EAP 7.1, 7.2
- IBM WebSphere Liberty 19.0
- Oracle WebLogic 12c
- IBM WebSphere 9.0

.NET

- All framework versions supported
- .NET Core 3.1 on Windows and Linux

Relational Databases

- Oracle 18c, 19c
- SQL Server 2014, 2016, 2017, 2019
- IBM DB2 LUW 10.5, 11.1, 11.5
- EDB PostgreSQL 10.5 and above, 11.x
- MySQL 5.7

Middleware

- Oracle Tuxedo and Tuxedo ART 12.1.3c
- IBM TXSeries for Multiplatforms 9.1

Docker

- Community and Enterprise Editions:

Windows Server 2016, 2019

- Red Hat 7 docker-ce v1.1+
- SUSE 12
- OpenSUSE 15
- Ubuntu 18.04

podman/OCI

- Red Hat 8.1+