

# NetCOBOL for .NET



*The only COBOL for .NET that supports the NeoKicks™, NeoBatch® and NeoData™ mainframe modernize-as-you-migrate solutions, Fujitsu® NetCOBOL® for .NET includes an enhanced COBOL compiler with language extensions and a code generator targeting the Microsoft® Intermediate Language (MSIL) for .NET Framework, support for ASP.NET Web Services through Windows Communication Foundation (WCF), and integration with the Microsoft® Visual Studio® Integrated Development Environment.*

## Introducing NetCOBOL for .NET

Microsoft .NET Framework is a rich programming platform that provides a true multi-language execution environment—the Common Language Runtime. Recognizing the benefits to be gained by COBOL applications and programmers in this environment, Fujitsu is enthusiastic about providing a well-integrated COBOL solution on the .NET platform.

## Features

NetCOBOL for .NET provides:

- Interoperability with other .NET languages, including object-oriented inheritance
- Tight integration with Visual Studio including support for designers and IntelliSense® features
- Compatibility with IBM COBOL
- Migration of mainframe CICS and batch applications with the help of NeoKicks and NeoBatch
- Transformation of VSAM data files to SQL Server using NeoData – with NO COBOL code changes
- Interoperability with COM and existing native code compilers
- Access to the large and well-designed .NET Framework class library from COBOL
- Use of tools developed for the Common Language Runtime (CLR)

## Benefits

Faster application development using the Visual Studio designers: Windows Forms Designer, Web Forms Designer, and Web Services and Components Designer.

- Easier access to system services
- Easier application deployment
- Easier Internet and database access

## Leveraging your Legacy Assets

NetCOBOL for .NET leverages your valuable COBOL assets by recompiling your existing COBOL business logic with the NetCOBOL compiler and extending its capabilities with the rich feature set provided by the .NET Framework. This makes it easy to develop sophisticated Web services applications, Web browser interfaces, Windows rich client interfaces, and database applications.

By providing excellent compatibility with IBM® COBOL, along with the supporting NeoKicks and NeoBatch products, NetCOBOL for .NET gives an excellent “migration with modernization” option for those seeking alternatives to expensive IBM mainframes.

## Designer Support

NetCOBOL for .NET is fully integrated with Visual Studio .NET, including important features such as support for Visual Studio’s Web Forms and Windows Forms. You can define and use numerous .NET elements including:

- Enumerations
- .NET arrays
- Interfaces
- Custom attributes
- Access attributes
- Delegates and events
- Program prototypes
- Static members

This means you can use COBOL code to support Web and Windows Forms and to create Web Services, extending your COBOL skills to work with the latest technologies.

It also means that screens migrated to .NET using the NeoKicks product can be enhanced using these user-friendly designers, while you or your developers continue to work in the language you know best.



## Overview

- A true COBOL-for-.NET product integrated with the .NET Framework, Visual Studio and other NET languages such as VB and C#
- Access and use the latest technologies such as ASP.NET and WCF from COBOL
- The foundation product for legacy modernization projects using NeoKicks, NeoBatch and NeoData
- Compatible with IBM® COBOL
- No runtime license fees for distributing applications built using NetCOBOL
- Speeds COBOL application maintenance and development

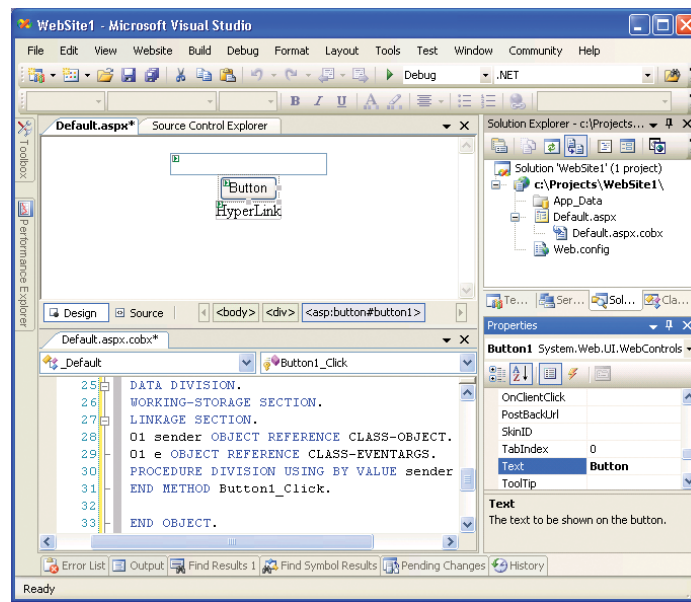
## Supported Platforms

- Windows XP
- Windows Vista
- Windows Server® 2003
- Windows Server® 2008

## IntelliSense Coding Aids

IntelliSense is a Visual Studio feature that speeds coding by sensing what you are entering and offering assistance to complete the statement, such as:

- Lists of available items
- Lists of applicable methods
- Display of method syntax
- Quick info provided when cursor hovers over a COBOL item
- Syntax errors highlighted as you type



Above: The beginnings of a simple ASP.NET page using the Web Forms Designer and NetCOBOL.

## Other Product Highlights

NetCOBOL for .NET features include:

- Verifiable (Web safe) code
- Embedded SQL supported
- USAGE POINTER items
- ANSI Code Page (ACP) to Unicode conversion routines
- Intrinsic conversions between COBOL and .NET data types
- Custom build steps
- Code outlining
- Embed COBOL in ASP.NET pages

77 String-1 USAGE OBJECT REFERENCE

INVOKE SYS-STRING

INVOKE SYS-STRING "Equals"

PERFORM VARYING I FROM 0 BY 1 UNTIL I >= Cnt

WORKING-STORAGE SYNTAX SECTION.

The word 'SYNTAX' is invalid in this context.

FIB\_COBOL  
FIBINSTANCE  
INT-ARRAY  
SYS-STRING System.String

Compare  
CompareOrdinal  
Concat  
Copy  
Equals  
Format  
Intern  
IsInterned  
IsNullOrEmpty  
Join

1 of 3 INVOKE SYS-STRING "Equals" USING BY VALUE a BY VALUE b RETURNING returnValue  
Determines whether two specified System.String objects have the same value.  
a: System.String  
b: System.String  
returnValue: System.Boolean

BINARY-LONG SIGNED