

Technical Support

Technical Bulletin

Distribution:	Application Engineers, Technical Support Engineers, Vision Solutions Engineers, Technical Documentation Group, Worldwide Sales	☐ INTERNAL ONLY
Bulletin No.:	TB-06-003	☒ Internal & Customers (as needed)
Date:	October 6, 2006	☐ Internal & Customers (MANDATORY)
Product:	VISIONPRO	Rev: 4.2
Title: Does VisionPro 4.2 work with Microsoft Visual Studio Express?		

PURPOSE

This technical bulletin describes some testing and known limitations of using VisionPro 4.2 with [Microsoft Visual Studio 2005](#) Express C# or Visual Basic.

TECHNICAL DETAILS

VisionPro 4.2 is officially supported and tested using the [Professional Edition](#) of Microsoft Visual Studio 2005. However, there are other versions of Visual Studio offered from Microsoft. There is a free version called [Express](#) available for C#, Visual Basic, and C++ programming languages.

It is important to note that installation of Microsoft Visual Studio 2005 is not required to run QuickBuild or the Application Wizard in VisionPro. Installation of Microsoft Visual Studio 2005 is only required when programmatically developing .NET application using the Microsoft .NET 2.0 Framework.

Some limited testing of VisionPro 4.2 was conducted against Microsoft Visual Studio Express both C#, Visual Basic, and C++. The results of that limited testing are presented here.

From the limited testing that was performed here is a list of the operational features and known limitations:

Operational:

- Installation of VisionPro 4.2 (except for toolbox controls, see Limitations below).
- The QuickBuild application was fully operational.
- The Application Wizard application was fully operational. Application Wizard generated solutions and project file can be opened with Microsoft Visual Studio Express.
- The assembly references appear to be shown correctly with the development environment of Microsoft Visual Studio Express.
- All Sample Code projects will load and are functional.
- Some of the Edit Controls were loaded and appear to be operational.

Limitations:

- The installation of VisionPro 4.2 will fail to install any Cognex .NET Edit Controls into the Toolbox within Microsoft Visual Studio Express. The workaround is to manually add the Cognex .NET edit controls to the toolbox. Open the toolbox and right-click to select Choose Items... Browse to the location of the Cognex .NET assemblies (generally c:\Program Files\Cognex\VisionPro\ReferencedAssemblies\) to add the Cognex .NET controls.
- Not all of the edit controls within the VisionPro product were tested so the run-time behavior of every edit control is unknown.

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- Parts of the VisionPro documentation are not fully integrated. For example, hitting the F1 key for help may work, but selecting a class definition then clicking "Go To Definition..." may not work. The help for the controls appears to work.
- The Sample Programming web page hyperlinks are not operational.

Notes:

- Downloading Microsoft Visual Studio Express from the Microsoft web site requires online registration. However, downloading Microsoft Visual Studio Express onto a CD and installing from a CD does not require the registration step.

Untested:

- Japanese versions of Microsoft Visual Studio Express are untested.

MOVING FORWARD

The testing of VisionPro 4.2 against Microsoft Visual Studio 2005 Express was not a comprehensive test of the entire VisionPro product. The testing was limited to determining whether VisionPro 4.2 was operational under Microsoft Visual Studio Express. As such, the recommendation of using VisionPro 4.2 with Microsoft Visual Studio Express is limited to demos, training, and limited development. Additional testing by the customer is required to determine if the run-time features of the VisionPro product are fully operational for deployable applications. The customer is responsible for performing this testing.

VisionPro 4.2 does not claim official support for Microsoft Visual Studio Express at this time. A future release of VisionPro may support it.