Agilent T&M Programmers Toolkit 1.0 for Visual Studio® .NET Read Me

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Introducing the Agilent T&M Programmers Toolkit

The T&M Toolkit is software that works with Microsoft's® new Visual Studio .NET, and turns Visual Studio .NET into a great programming environment for the rapid development of Test and Measurement oriented applications and tools.

Installation

Before you install:

1. Review the system requirements found later in this file.
2. Make sure Visual Studio .NET is installed on your computer.
3. Make sure no applications are running.
4. The installation package contents depend upon the type of license you purchased.

Annual Right to Use License (ARTU)

This installation package contains one Agilent T&M Toolkit CD-ROM and the ADN installation CD-ROMs.

To install Agilent T&M Toolkit from this packaging, insert the T&M Toolkit CD-ROM. Setup should start automatically, but, if it does not, select Start -> Run from the Windows® Taskbar. Enter

{the drive letter of your CD-ROM}:setup.exe

The ADN application should also be installed. It installs in the same manner as the T&M Toolkit. ADN contains the new I/O Libraries version L.02.00 and Agilent Instrument Drivers. The I/O Libraries are required for some components of the T&M Toolkit. Device Driver installation is strongly recommended.

Perpetual Right to Use License (PRTU)

This installation package contains one Agilent T&M Toolkit CD-ROM, the new I/O Library version L.02.00 CD-ROM, and the T&M Toolkit Instrument Driver CD-ROMs.

To install Agilent T&M Toolkit from this packaging, insert the T&M Toolkit CD-ROM. Setup should start automatically, but, if it does not, select Start -> Run from the Windows Taskbar. Enter

{the drive letter of the your CD-ROM}:setup.exe

The installation process is the same for the I/O Libraries and the Instrument Driver CD-ROMs. The new I/O Libraries version L.02.00 is required for some components of the T&M Toolkit. Instrument Driver installation is strongly recommended.

Near the end of the installation process, you may see DOS Command windows quickly opening and closing. This is normal behavior.

5. Run Visual Studio .NET and and verify that the Start Page has a link on the left side with the title:

Agilent Test and
Measurement Toolkit

6. If you experience problems using the T&M Toolkit wizards, such as an error when running the New Project Wizard, some assemblies may not have registered properly during installation. To fix this situation, perform the following steps:

   a. Click on Start -> Programs -> Microsoft Visual Studio .NET -> Visual Studio .NET Tools -> Visual Studio .NET Command Prompt
   b. In the command prompt window, change the current directory to

Program FilesAgilentTMProgrammersToolkitBin

   c. At the command prompt, type "RegTMFramework" and press Enter.

This registers all of the necessary assemblies.

Licensing

Agilent T&M Toolkit is a licensed product. The licensing is accomplished via a license file. To get your license file, connect to:

http://www.agilent.com/find/codeword

At this location, there is a brief three step process that generates a license file. The file and installation instructions for it are emailed to you.

If you connect from the computer where Agilent T&M Toolkit is installed, the licensing process helps you gather all of the necessary information.

However, if you are licensing several machines or connecting from a machine other than the machine with T&M Toolkit, you need to know the LANID (MAC address) of the PC's ethernet network card and its host name. To get this information:

1. Go to the machine where Toolkit is installed.
2. From a command prompt, run the program IPCONFIG /ALL. A list of information is displayed that contains the Host Name and Physical Address.
3. If you have multiple ethernet cards, you will see multiple Physical Addresses. All of these should be entered during the licensing process.

NOTE: The Physical Address contains dashes. DO NOT enter the dashes.

The Physical Address, LANID, and MAC address are all names for the same thing.

Ensure the file has a .lic extension and copy it to:

{installation directory}TMProgrammersToolkitLicenseFiles

If you purchased an Annual Right to Use license or the Agilent Developer Network support contract, see the ADNReadMe.txt file.

Combined System Requirements for Visual Studio .NET & Agilent T&M Toolkit

Development Environment:
Microsoft's Visual Studio.NET Release 1.0 Standard Edition or better

Operating System Version:
Windows NT® 4.0 (SP 6.0a or later)
Windows 2000 Professional (SP 2 or later)
Windows XP Professional

Unsupported for Development: Microsoft Windows 95, 98, ME, and XP Home

Supported for Run Time: Microsoft Windows 98, ME, NT, 2000, XP, and XP Home

Processor:
Pentium II 450 MHz or better

Memory:
   Recommend: 256 MB or more
   Windows NT 4.0 Workstation: 64 MB minimum
   Windows 2000 Professional: 96 MB minimum
   Windows XP Professional: 160 MB minimum

Free Disk Space:
   500 MB minimum on system drive
   2.5 GB on installation drive
   100 MB for Agilent T&M Toolkit

Peripherals:
   CD-ROM or DVD-ROM drive
   A display with a minimum 800x600 resolution, 256 colors. Only small fonts are
supported.
   LAN interface

Product Dependencies

- The VEE Wrapper Generator requires VEE 6.03 or greater. The patch to upgrade
  VEE 6.01 versions to 6.03 is in the root directory of the Agilent T&M Toolkit
  installation CD-ROM and is named "601to603VeePro.exe"
- The VXI*plug&play* Wrapper Generator can only wrap VXI*plug&play* drivers that
  are already installed on your computer. You can download drivers for Agilent/HP
  instruments from:

http://www.agilent.com/find/drivers

Drivers are also included on the Agilent T&M Toolkit Driver CD-ROM or from the ADN
CD-ROMs.

- The IO Monitor requires installation of version L.02.00 of the Agilent I/O
  Libraries. Note: The Agilent I/O libraries can be installed "side-by-side" with the
  NI VISA library.

Manuals

The PDF version of the "Getting Started Guide" and the "QuickStart Card" are available
in the root directory of your Agilent T&M Toolkit installation CD-ROM. An installable
version of the Adobe Acrobat Reader is available in the root directory of your Agilent
T&M Toolkit installation CD-ROM.

Known Issues

For Agilent IO Monitor, pre-release testing shows that it is quite possible to overwhelm a computer's resources when tracing multiple I/O layers in a tight looping structure. Agilent recommends that you trace a single layer in these instances.

Microsoft has informally acknowledged that there may be a memory leak in the large object heap for Visual Studio .NET with Service Pack 1 applied. There is no information about when a fix will be available.

For IVI-COM Drivers, it is very likely that you will have to ask the driver manufacturer for a Primary Interop Assembly (PIA) for the driver if you are having problems adding references to IVI-COM drivers in Visual Studio .NET. Microsoft has provided an article, "Calling COM Components from .NET Clients", in the online help which provides a good explanation of the issues involved.

Uninstall Notes

There are two applications installed with the T&M Toolkit that appear in Add/Remove Programs. Their titles are "Agilent VisaCom" and "Agilent T&M Programmers Toolkit Help". When the T&M Toolkit is uninstalled, it also uninstalls these two applications. Do NOT uninstall them separately.

If the T&M Toolkit is uninstalled, Visual Studio pauses and displays a message the next time it is started. The message box says:

"Help is updating to reflect your recent changes. This may take several minutes."

This is caused by the removal of the Agilent T&M Toolkit Help from Visual Studio .NET. It is normal and does take more than a minute.

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