

FTSOLUTION FOR APT



FTSolution for APT is a Microsoft Windows-based replacement for Siemens APT that provides all the tools necessary for a robust PLC programming environment at your fingertips.

FTSOLUTION FOR APT

Designed for use with the entire line of Siemens/TI 505 and CTI 2500 Series PLCs, FTSolution for APT allows you to import, create, edit, compile, download, and debug APT-based PLC programs in a modern Microsoft Windows interface. FTSolution for APT eliminates the costly need to migrate to another PLC platform:

- **DON'T** be forced to purchase new PLC hardware.
- **DON'T** learn a new PLC programming language.
- **DON'T** retrain your engineering and maintenance staff.
- **DON'T** rewrite all of your PLC programs.
- **DON'T** retest and validate all your new systems.
- **DON'T** risk costly production downtime or project cost and schedule overruns.

FTSOLUTION FOR APT FAMILY OF PRODUCTS AND SERVICES

FTSolution for APT is part of a family of products and services that support APT-based PLC programming environments. The complete FTSolution for APT ecosystem includes:

- **FTSolution for APT:** Microsoft Windows-based replacement for Siemens APT®
- **FTSolution for APT Hardware Debugger:** Sophisticated PLC hardware debugger utilizing ladder language-based tools
- **FTSolution for APT Simulator:** Test APT language programs without requiring a PLC
- **FTVersionTrak for APT:** File change management, program comparison, and backup software
- **Startup and support services:**
 - Installation / program import
 - Training classes
 - Technical support

Contact us to learn more about these products and services.

FEATURES AND BENEFITS

With FTSolution for APT, you can:

- Import any existing APT program in minutes.
- Access multiple PLC programs and program components with the Solution Explorer to edit any program component.
- Customize the look and feel of the user interface.
- Increase programming efficiency with powerful, time-saving advanced editing features.
- Use familiar APT keyboard shortcuts.
- Compile programs and download into Siemens 505 or CTI 2500 Series® PLCs.
- Compile and download programs incrementally.
- Edit 505 and Profibus I/O with integrated configuration editors.
- Monitor and troubleshoot programs in running PLCs with expanded debugging capability, allowing for a more powerful online experience.
- Use the Compilation Report to view errors, warnings, memory configuration, and usage.
- Tag project objects and create an install.tag file for use by PCS applications for HMI creation and maintenance.
- Expanded cross reference capability that allows you to quickly identify where an object or variable is used within a program, save you time when troubleshooting and/or modifying the program.

Advanced Editors

FTSolution for APT® allows users to increase programming efficiency through advanced editors. Editing projects in FTSolution for APT is easy because its windows are designed to look and operate like the APT editors with which APT users are familiar. Text and math editors provide new and innovative features that allow programs to be written faster and more accurately with:

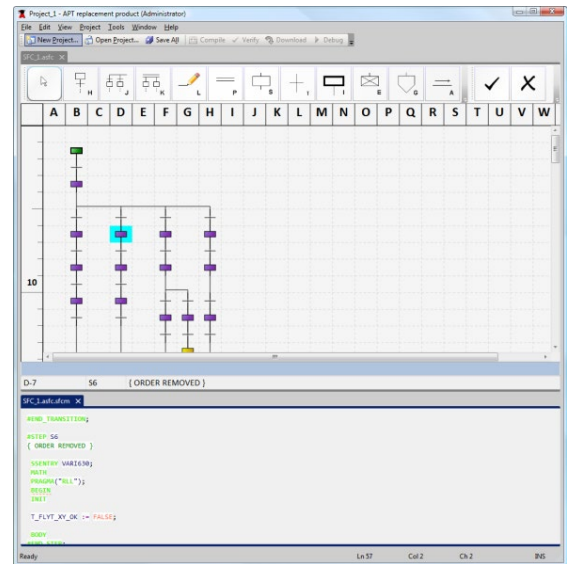
- **Syntax Coloring:** Displays keywords, instructions, and variables in different colors
- **Statement Completion:** Allows instructions and variable names to be selected from drop-down lists that are based upon the characters typed so far
- **Incremental Parsing:** Validates logic syntax and reports errors as logic is typed
- **Code Regions:** Hides segments of code allowing users to focus on specific portions of the program

Debug Features

The capabilities of FTSolution for APT® do not end after downloading a project to the PLC. FTSolution for APT includes standard and expandable Debug Mode features to monitor and troubleshoot programs in running processors.

Standard Debug Mode

- **Watch Windows:** Like Charts in APT, Watch Windows display the extension values of selected objects and allow you to take a snapshot of these values by manually sampling them. Configure customer Watch Windows by specifying which extensions or PLC addresses are read from the PLC.
- **Trender:** Real-time values of extensions and specific PLC addresses from custom Watch Windows can be graphed in the Trender. Customized graph properties, such as time span, line color, and value scaling.



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- **SFC Animation:** The execution path between Steps is highlighted in the SFC editor in real-time. Clear indications of multiple loops through the same steps are improved over APT.
- **SFC Breakpoints:** The SFC editor clearly indicates breakpoints in steps. All breakpoints through the entire PLC project are also identified in a convenient, consolidated list. Jump directly to any breakpoint from this list. These capabilities eliminate the need to manually search for breakpoints in every SFC, which is required by APT.
- **SFC Single Step:** Manually control SFC execution with Single Step to regulate when the SFC transitions from one Step to the next.
- **SFC Activate:** Manually select an SFC step to execute and continue running the program from that point.

Expanded Debug Mode

For a more powerful online experience, expanded features allow you to:

- View source code while debugging.
- Open multiple programs in Debug Mode at the same time.
- Directly select objects in the editor to chart within Debug Mode with editor-integrated chart monitoring, sampling, and logging.
- Create, view, update, and delete custom charts without entering Debug Mode.
- Identify SFC breakpoint steps whether active or not, in normal execution and single-step modes.
- Navigate, view, and clear SFC breakpoints without opening SFCs.
- View and disable SFCs in single-step mode without opening SFCs.
- Edit parameters and values faster and easier.

SUPPORT SERVICES

FasTrak provides a full range of services to support FTSolution for APT.

Startup Support

Utilize our startup services for installation assistance, importing of program files, and program validation.

Training Classes

FasTrak training classes accelerate productivity and return on investment. Attend classes at FasTrak to learn from other users or choose training classes at your location. The Foundations: FTSolution for APT class explores the applications of the FTSolution for APT software and family of related products. Some of the topics that are covered include importing APT program files, using the interface and editors, documenting programs, compiling and downloading programs, and monitoring the PLC during program execution.

Technical Support

We pride ourselves on the superior level of service we provide to our customers. Our knowledgeable support representatives provide immediate and accurate solutions to user issues. Unlimited technical support is included at no charge for 12 months following purchase and through affordable maintenance contracts after the first year.

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SPECIFICATIONS

Recommended Hardware Platform

- Processor: 3.10 GHz with 6MB cache
- Memory: 4GB at 1333MHz
- Hard Drive: 500GB
- Video Card: 1280 x 1024 or higher resolution
- Monitor: 24-inch widescreen flat panel

Dual Monitors Supported

Supported Operating Systems

- Windows XP Professional with Service Pack 3
- Windows Vista with Service Pack 1
- Windows 7
- Windows 8
- Windows 10

PLC Support

- CTI 2500 Series: C100; C200; C300; C400
- Supports the entire line of Siemens/TI 505 PLCs including:
 - 500 Series: **520** 1101; **520C** 1101, 1102; **530** 1102, 1104, 1108; **530C/T** 1104, 1108, 1112; **560** 2120; **565** 2120; **560T** 2820; 565T 2820
 - 505 Series: **525** 1102, 1104, 1208; **535** 1204, 1212; **545** 1101–1106; **555** 1101–1106; **575** 2102–2106

Supported APT Languages

- SFC (Sequential Function Charts)
- CFC (Continuous Function Charts)
- APT Math
- SCL (Statement Control Language)

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