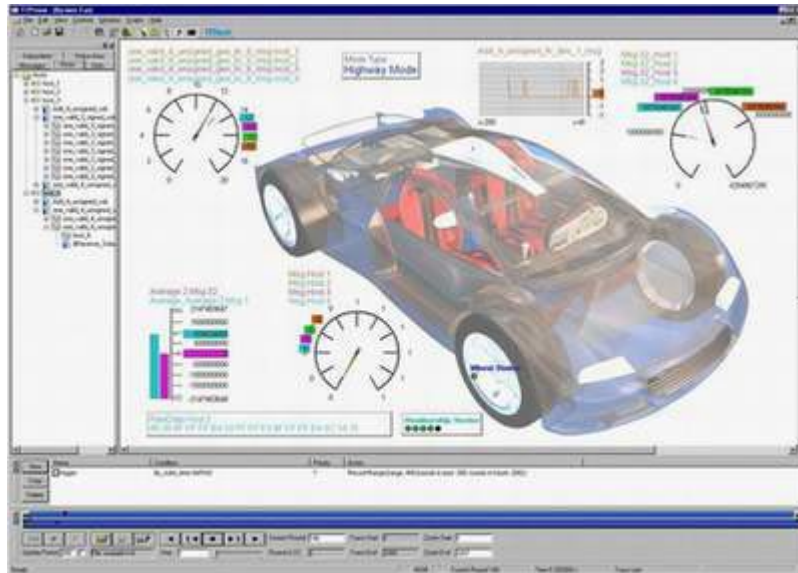


## TTTech Visualization and Validation



### TTPView – The TTP Real-Time Monitoring Tool

TTPView is a comprehensive tool for high-speed bus monitoring. A broad range of flexible configurable visualization instruments enables the user to build specific views of the monitored cluster. An easy-to-use graphical user interface allows on-line tracing, recording, and playing back of TTP® traffic on a computer. Real-time triggers, export of recorded data and a powerful scripting language to automate tasks and process message data make TTPView the first choice for TTP monitoring.

#### Basic Features

TTPView imports the complete cluster design information, including messages, nodes, slots, and subsystems, from TTPPlan. It displays all relevant information in a hierarchical browser. When these items are dragged to the view window, a visualization instrument appears. A broad variety of visualization instruments and configuration options is supported. The graphical user interface provides easy navigation and browsing through logged data. In addition, batch mode (command line) execution enables the integrated automation of regression test environments.

TTPView collects all information via TTP Monitoring Node, which is tightly synchronized with the cluster. The second interface of the TTP Monitoring Node is connected to the computer via standard Internet protocols, thus supporting Windows-based workstations and laptops.

#### Real-Time Monitoring, Logging and Analysis

Great emphasis has been placed on the real-time capabilities of TTPView. It allows recording of all real-time data on disk. This allows the user to make detailed offline analysis and to search for points of interest. Triggers can be set to automatically find significant events in the real-time data stream and to start (or stop) data recording. Furthermore, all or any subset of the recorded data can be exported in various formats, so it can be processed by spreadsheet programs or other validation tools. For this purpose, TTPView offers a programming/scripting interface. These features ease analysis and debugging as well as customization and automation of TTPView.

All collected data are displayed in a truly synchronous fashion, based on the access scheme of TTP. This facilitates the analysis of complex interrelationships among the messages.

## Functionality

- Real-time monitoring and logging to file
- Navigation and zooming for trace data
- Access to cluster design data base
- Triggers to start and stop recording and stop monitoring depending on user-defined conditions
- Unpacking of bus messages
- Ethernet connection to <sup>TTP</sup>Monitoring Node via standard Internet TCP/IP protocol
- TTP multiplexing support
- Handling of redundant message instances
- Support for array-type messages
- Easy-to-use graphical user interface with drag-and-drop
- Hierarchical object browser
- Multiple views
- Variety of visualization instruments
- User-defined background images
- Flexible configuration of views
- Flexible data export
- Batch mode execution
- Flexible programming/scripting interface (Python)
- Support for TTP communication controllers AS8202 (C2) and AS8202NF (C2NF)

## System Requirements

- Operating system: MS Windows 2000 (SP 1 or 2), Windows XP (support for other operating systems is available upon request)
- Processor: Intel Pentium 4 or above, AMD Athlon XP or above, or compatible (1.5 GHz or above recommended)
- Disk space: 30 MB
- RAM: 256 MB (minimum), 512 MB (recommended)
- Graphics: 1024x768 16-bit colors (minimum), 1280x1024 32-bit colors (recommended)
- Network: 10Base-TX to link to <sup>TTP</sup>Monitoring Node for TTP controllers based on C1 model, 100Base-TX to link to <sup>TTP</sup>Monitoring Node for TTP controllers based on C2 model
- TCP/IP required
- CD-ROM drive
- Adobe Acrobat Reader 4.0 or above

<sup>TTP</sup>View is part of the <sup>TTP</sup>Tools software development suite.

Subject to changes and corrections.

For further information, including price and availability, contact [products@tttech.com](mailto:products@tttech.com).

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