^{TTP}Load

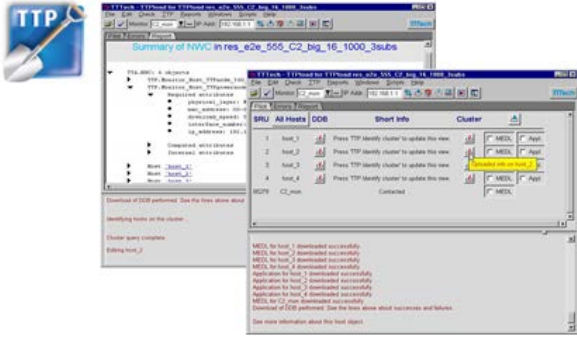## The TTP Loading Tool

Key Benefits

- ✔ Configuration data loading
- ✔ Application image loading
- ✔ Fast update of all nodes in the network
- ✔ Reduced development time and cost
- ✔ Query function for the TTP nodes in the network
- ✔ Easy-to-use graphical user interface
- ✔ Command line interface
- ✔ Flexible programming interface (Python)

^{TTP}Load provides comprehensive loading facilities for cluster and node configurations that are generated with ^{TTP}Plan and ^{TTP}Build, the cluster and node design tools. Configuration and application data can be conveniently transferred from the computer to TTP® nodes. A complete cluster can be loaded automatically in one simple step by employing an easy-to-use graphical user interface or a batch interface.

Configuration Data and Application Load

^{TTP}Load is a software tool that enables the user to transfer the following data to the TTP nodes:

- Message Descriptor List (MEDL) - the configuration data regarding the TTP communication schedule
- Application image – containing the operating system, application tasks, and possible application configuration files.

^{TTP}Load can be operated by using the graphical user interface (GUI), or the command line interface. ^{TTP}Load implements functions such as contacting the ^{TTP}Monitoring Node, download and upload of data, and monitoring of the load process.

^{TTP}Monitoring Node

^{TTP}Load requires a dedicated hardware called the ^{TTP}Monitoring Node to be attached to the cluster in which the load target node is located. The Monitoring Node converts the data it receives from ^{TTP}Load to data that is transferable over the bus. A PC that is running ^{TTP}Load is connected via Ethernet interface to the ^{TTP}Monitoring node.

A query function identifies all the nodes of the TTP network and provides their status information. Load and query are performed by means of an Ethernet connection from the computer to the ^{TTP}Monitoring Node, which is connected to the TTP network.
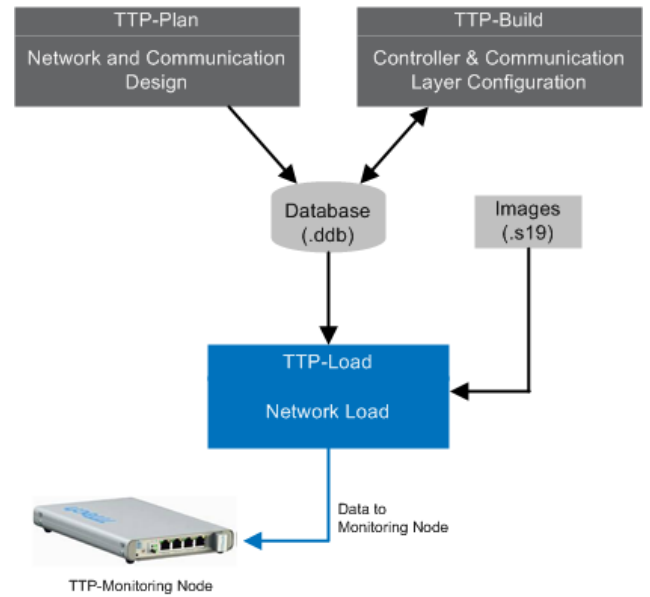

Application Fields

- Technology Evaluation
- Product Testing
- Architecture Development

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Related Products

- ^{TTP}Plan is the network and communication design tool for TTP and is used to create the download database.
- ^{TTP}Build generates the MEDL and the COM Layer configuration based on the cluster design.
- ^{TTP}Monitoring node converts the data it receives from ^{TTP}Load to data that is transferable over the TTP bus.

General Product Features	Loading of configuration data (MEDLs) to TTP nodes
	Loading of node application
	Querying to get status information of all nodes of a TTP network
	High-speed Ethernet connection to ^{TTP}Monitoring Node via standard TCP/IP protocol
	Support for all TTTech hardware targets:
	    • ^{TTP}Powernode
	    • ^{TTP}Powerlinks
	    • ^{TTP}Monitoring Node
	Flexible programming/scripting interface (Python)
	Support for ams AS8202B TTP communication controller
	Upload support from the GUI interface

System Requirements	Operating system: Microsoft Windows Standard PC 1.5 GHz or above; 1 GB RAM Network: Ethernet 100Base-TX to link to ^{TTP}Monitoring Node
Order Number	12011: ^{TTP}Load 12018: 1 year software maintenance service for ^{TTP}Load

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