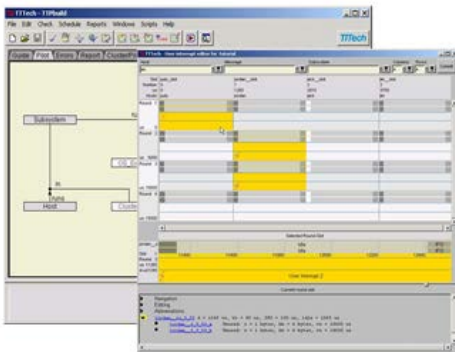




TTP[®]Build

The TTP Node Design Tool



Key Benefits

- ✓ Customized MEDL creation
- ✓ Configuration of TTP[®] Hardware COM Layer
- ✓ Configuration of TTP[®] TD-COM Layer
- ✓ Configuration of TTP[®] OS/FT-COM Layer
- ✓ Flexible programming/scripting interface
- ✓ Precise definition of temporal behavior of tasks
- ✓ Optimized task scheduling for TTP[®] TD-COM

TTP[®]Build is a comprehensive tool for the design of nodes in a TTP[®] network. It establishes the interface between the communication system and the application. Major steps of the design process are the configuration of the target system and the communication layer. The automatic generation of schedules and configuration reduces development time and produces higher-quality interfaces. It's exceptionally easy to update and change the interfaces.

Consistent and Complete Design

TTP[®]Build supports the precise definition of the temporal behavior of the tasks in a node and of the messages sent and received by them. Thus, the interfaces between the tasks of the node are completely defined in both the value and time domains. Defining the relevant objects and the relations between them specifies the node design. Communication interfaces are defined for every task. Once the node schedule has been specified, TTP[®]Build checks the design for correctness at the object, local and global levels. Inconsistencies can easily be removed. The error browser offers detailed explanations and hyperlink functionality. The appropriate form is opened and the error can be corrected by simply clicking on an error message.

Task Schedule Generation

Once the model is defined, TTP[®]Build can automatically generate the configuration for different communication layers as well as the configuration for the embedded operating system used by the node. The operating system configuration integrates the generated layer with the application software tasks.

Alternatively, it can provide the configuration for the TTP[®] Hardware COM Layer or the TTP[®] TD-COM Layer. Additionally, it generates a customized communication schedule (MEDL – message descriptor list), which is being loaded into the TTP controller of the node.

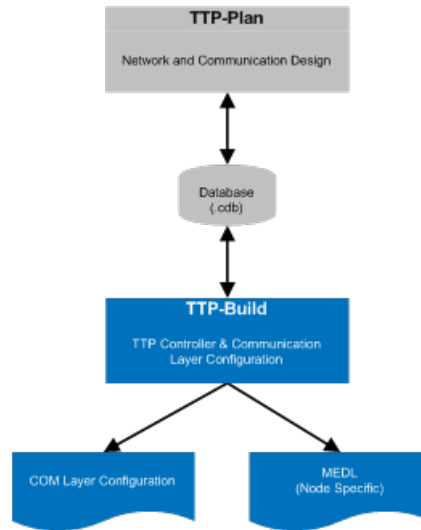


Application Fields

- Technology Evaluation
- Product Testing
- Architecture Development

Related Products

- TTPBuild is part of the TTPTools software development suite.
- TTPVerify is a RCTA DO-178B verification tool that verifies the MEDLs created by TTPBuild.
- TTPHardware COM Layer is an FPGA-based communication layer supported by TTPBuild.
- TTPTD-COM Layer is a table-driven communication layer that is enhanced with the RCTA DO-178B verification tool, TTPTD-COM Verify.



<p>General Product Features</p>	<p>Consistency check of input data Generation of configuration data for TTPTD-COM Layer and TTPHardware COM Layer Schedule and code generation is available for custom-made hardware Personalized configuration data (MEDLs) generation for optimized CNI (communication network interface) usage TTPVerify is used for verification of configuration data. Support for the ams AS8202B TTP communication controller Support for array-type messages Error browser for quick and easy debugging Customizable report generator Guided mode for first-time users, object browser for experienced users Graphical editor for user interrupts Batch mode execution for automated usage via script files Flexible programming/scripting interface (Python)</p>
<p>System Requirements</p>	<p>Standard PC with Windows; 1.5 GHz or above; 1 GB RAM</p>
<p>Order Number</p>	<p>12009: TTPBuild</p>



TTTech Europe, Austria (Headquarters)
 Phone: +43 1 585 34 34-0

TTTech North America Inc.
 Phone: +1 978 933-7979

TTTech Japan
 Phone: +81 52 485-5898

TTTech China
 Phone: +86 21 5015 2925-0