

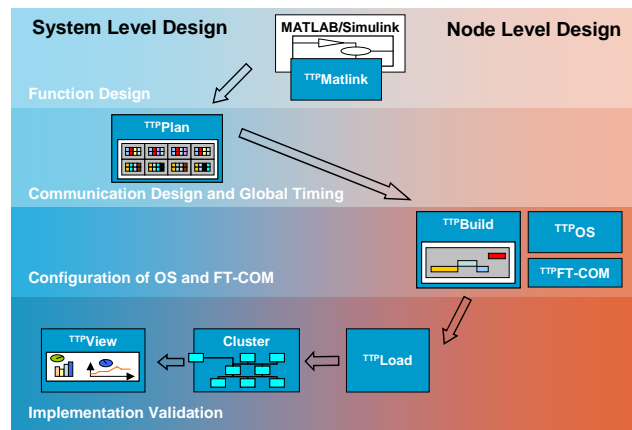
TTP Tools

Integrated TTP Software Development Suite

TTP Tools offer a powerful development and production environment for building fault-tolerant real-time systems. TTP Tools address the needs of the systems engineer. They provide rapid, harmonized, and systematic development while smoothly integrating with existing development processes. With TTP Tools, the user can design the communication architecture, generate or configure a communication layer, configure the time-triggered operating system, download the resulting configuration to the target, and test the distributed application. DO-178B verification tools verify the configurations for the airborne software.

KEY FEATURES/BENEFITS

- From functional design to verification
- Fully integrated development environment
- Flexible scripting and integration
- Management of complexity
- Faster time-to-market
- Significant cost and time-saving
- DO-178B verification tools
- Seamless integration with other tools



TTTech's Two-Level Design Framework

The integration of electronic subsystems, developed by different suppliers or groups, into an overall distributed system gets more and more challenging. Consequently, system integrators have a pressing need for a composable network architecture that provides a clear separation between the system issues and subsystem issues. Safety and fault tolerance make this problem even more challenging.

The combination of TTP-based architecture and TTTech's TTP Tools software development suite for Time-Triggered Protocol (TTP®) provides an integrated solution to this design challenge in the form of a two-level design framework.

TTP Tools support the precise specification of the temporal and functional interfaces between the subsystems of a TTP-based architecture. At the system level, a system integrator defines the subsystem functions and specifies the communication interfaces precisely in the value and time domains.

At the subsystem level, the component supplier retains complete control over all hardware and software design decisions as long as he complies with these interfaces.

Business Benefits

The separation of responsibilities inherent in TTTech's two-level design framework prevents the omission of essential functions and the duplication of efforts, which results in waste and potentially conflicting implementations. Benefits include shorter time-to-market and higher quality systems.

The unambiguous interface specification enhances ease of integration, quality and reusability of the developed products.

Engineers can work with one standard development environment – from functional design to automatic generation of distributed code. As a result, they benefit from significant cost and time saving.

TTP Tools Software Development Suite

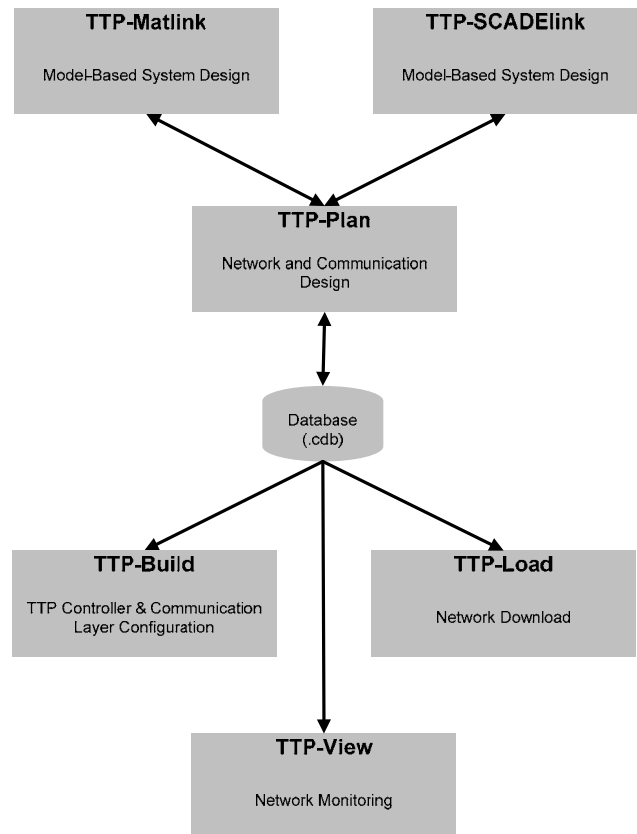
TTP Tools allow seamless integration with other design and development systems; the existing design process can therefore be modified easily to integrate TTP-based designs. All tools provide a graphical user interface, a command-line interface and flexible scripting. The toolset forms a fully integrated, consistent, and harmonized development environment.

TTP Tools contain an overall cluster design tool (TTP Plan), a node and task design tool (TTP Build). In addition, the set includes a download tool (TTP Load) and an on-line monitoring tool (TTP View). TTP Matlink (optional) fully integrates TTP Tools with MATLAB® and Simulink® from The MathWorks, Inc. TTP SCADElink (optional) integrates TTP Tools with SCADE from Esterel.

The DO-178B verification tools for the verification of TTP cluster designs (TTP Verify) and the configuration of the middleware (TTP TD-COM Verify) complete TTTech's Tools chain.

System Requirements

- Standard PC with Windows XP; 1.5 GHz or above; 1 GB RAM
- For TTP Monitoring Node: TCP/IP
100Base-TX Network Card
- For TTP Matlink: The MathWorks Matlab, Real-Time Workshop, Real-Time Workshop Embedded Coder
- For TTP SCADElink: SCADE Suite 6.1 with TTP-Extension



Order Number

- S00.00.7: TTP Tools (TTP Plan, TTP Build, TTP Load, TTP View)
- M00.00.0: 1 year software maintenance service for TTP Tools

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