

## 6th TTPforum – September 26, 2001 – Baden-Baden, Germany

### "TTP<sup>®</sup> - The Next Generation"

#### A broad Range of Industrial Products for TTP hits the Market

Vienna, Austria; Baden-Baden, Germany – August 30, 2001: On September 26, 2001 the 6th TTPforum will take place in Baden-Baden (Germany), on the day before the VDI Congress 2001. Leading companies, such as Audi, austriamicrosystems, NEC, Volkswagen, and Volvo will present their activities around Time-Triggered Architecture (TTA). Other main topics of the TTPforum Conference "TTP - The Next Generation" are the new TTP<sup>®</sup>/C protocol specification and the introduction of the new TTP/C silicon family "C2". Based on this chip generation a broad range of new systems, hardware, and implementation tools will become available.



The highlight of the event is the presentation of the TTA-Group. The prime intention of this consortium is the standardization of Time-Triggered Architecture in the automotive and aerospace industry.

"TTP application projects have shown the suitability of TTP for demanding by-wire applications in automotive and aerospace industries", says Dr. Stefan Poledna, CEO of TTTech, "the pacesetting companies are striving to establish this core technology as a standard."

In parallel to the standardization activities by the TTPforum, initial standardization activities in the context of the OMG (Object Management Group - [www.omg.org](http://www.omg.org)) have already been launched. For more information see

[http://www.omg.org/techprocess/meetings/schedule/Smart\\_Transducers\\_RFP.html](http://www.omg.org/techprocess/meetings/schedule/Smart_Transducers_RFP.html)

### 6th TTPforum in Baden-Baden – Meet the Pacesetters in TTP

The 6th TTPforum – "TTP - The Next Generation" – will be held on Sep. 26, 2001 (7:30 PM) in D-76530 Baden-Baden, Germany, at the Bad-Hotel Zum Hirsch, Hirschstraße 1

Several companies have joined the TTPforum, which is backed by

- ARM ([www.arm.com](http://www.arm.com))
- Audi ([www.audi.com](http://www.audi.com))
- austriamicrosystems ([www.austriamicrosystems.com](http://www.austriamicrosystems.com))
- Delphi Automotive Systems ([www.delphiautomotive.com](http://www.delphiautomotive.com))
- Honeywell ([www.honeywell.com](http://www.honeywell.com))
- NEC ([www.nec.de](http://www.nec.de))
- OKI ([www.oki.com](http://www.oki.com))
- TTTech ([www.tttech.com](http://www.tttech.com))
- SRI ([www.sri.com](http://www.sri.com))
- Vienna University of Technology ([www.tuwien.ac.at](http://www.tuwien.ac.at))
- Volkswagen ([www.volkswagen.com](http://www.volkswagen.com))
- European Commission ([europa.eu.int/comm](http://europa.eu.int/comm))

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## The Future in Automotive Electronics

The automotive industry is currently moving towards the implementation of integrated vehicle control systems (IVCS) and by-wire-systems. These new systems radically change the electronic and electric architecture of cars.

By-wire involves the replacement of mechanic and hydraulic systems for steering, braking, throttle, and suspension functions with electronic controllers, actuators and sensors. Integrated Vehicle Control Systems yield improved performance, function, and safety at reduced cost by integrating stand-alone systems (e.g., ESP, ABS) into intelligent networked products. These advanced control systems use TTP as enabling technology and increase overall traffic safety, driving convenience, and functionality significantly.

## TTP – The Communication Standard for Advanced Control Systems

TTP (Time-Triggered Protocol) is the de-facto standard for high-speed fault-tolerant communication in advanced applications, such as steer- and brake-by-wire in the automotive industry. Contrary to event-triggered electronic architectures, such as CAN, time-triggered electronic systems communicate continuously in pre-defined time slots on a data bus. This avoids communication overload due to several important events occurring at the same point in time.

This unique architecture makes TTP ideally suited to safety-critical applications where mechanical systems are replaced by purely electronically controlled systems. Furthermore, TTP's outstanding features in terms of reusability, composability and testability enable carmakers and suppliers to significantly decrease time-to-market. Also, costs for development, testing and maintenance of new electronic systems are reduced.

### Editorial Contact

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