

EtherCAT Technology Group  
Members

Aug 2008

**ETG EtherCAT Training Class on Tuesday, Sep 23rd, 2008**  
**ETG Technical Committee Meeting on Wednesday, Sep 24th, 2008**

Dear ETG Member,

we invite you to participate in the EtherCAT Training Class and/or the Technical Committee Meeting at the Mercure Hotel Wings Airport Residenz Rhein Main in Raunheim, conveniently located close to the Frankfurt Airport.



**Training Class:**

You can expect detailed information regarding the EtherCAT technology that puts you in the position to plan your EtherCAT application and/or to start your development afterwards. In the morning the communication protocol is introduced, the afternoon will see hardware implementation related topics as well. Please find the agenda on the next page.

The meeting is intended for developers, product managers and all of you that have not attended Technical Committee meetings in the past. If you are already familiar with EtherCAT, send your colleagues! The Training Class itself is free of charge, only the meeting room costs have to be covered.

**The Training Class starts at 10:30 a.m.** (Sep 23rd), coffee will be provided from 10 a.m. on.  
**End of the meeting will be 6:15 p.m.**

On Sep 23rd there will also be two half day EtherCAT trainings especially for sales engineers, held at the same location in German and English language. Please see and forward the separate invitation for this EtherCAT sales training.

**Technical Committee Meeting:**

The TC meeting will again cover a wide range of topics: Please find them on page 3 of this invitation.

**The Technical Committee Meeting starts at 9:30 a.m.** (March 5th).  
**End of the meeting will be 5:15 p.m.**

You find details regarding the location on page 4. Presentations will be held in English, if non German speaking members sign up. Please register as soon as possible in order to help us with the organization. Registration deadline is Monday, September 15th.

**For Registration please go to the EtherCAT website:**

[http://www.ethercat.org/technical\\_committee/registration.aspx](http://www.ethercat.org/technical_committee/registration.aspx) (pdf: click on link)

If you have any questions please do not hesitate to contact us.

Best regards,  
Guido Beckmann  
Chairman Technical Committee

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**ETG EtherCAT Training Class****Agenda:****Tuesday, September 23rd, 2008**

- 10:05 a.m. Shuttle bus leaves Frankfurt Airport Terminal 1, Hall C, Exit 7, Arrival Level
- 10:00 a.m. Registration + Welcome Coffee
- 10:30 a.m. EtherCAT: the communication Protocol (I)
- EtherCAT Basics
  - Slave Structure
  - Physical Layer and Device Model
  - Data Link Layer
- 12:15 p.m. Lunch Break, Coffee
- 01:30 p.m. EtherCAT : the communication Protocol (II)
- Application Layer
    - \* State Machine
    - \* Mailbox Protocols (CoE, SoE, EoE)
    - \* Slave Information Interface (EEPROM)
  - Device Profiles
  - Distributed Clocks
- 03:30 p.m. Coffee Break
- 03:45 p.m.. Tools, Standards and Implementation:
- Device Description
  - Tools
  - EtherCAT Master
  - Standard & References
- 05:30 p.m. Ask the Experts
- 06:15 p.m. End of Meeting
- 06:25 p.m. Shuttle Bus leaves to airport (arrives Frankfurt Airport Terminal 1 at 6:52 p.m.)

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**ETG Technical Committee Meeting****Agenda:****Wednesday, September 24th, 2008**

- 09:05 a.m. Shuttle bus leaves Frankfurt Airport Terminal 1, Hall C, Exit 7, Arrival Level
- 09:00 a.m. Registration + Coffee
- 09:30 a.m. Technical Committee Meeting
- 12:15 p.m. Lunch Break, Coffee
- 01:30 p.m. Technical Committee Meeting
- 03:30 p.m. Coffee Break
- 03:40 p.m. Technical Committee Meeting
- 05:15 p.m. End of Meeting
- 05:25 p.m. Shuttle Bus leaves to airport (arrives Frankfurt Airport Terminal 1 at 05:52 p.m.)

**Meeting topics include (sequence may change):**

- EtherCAT Marking Rules
- Installation Profile (IEC 61784-5)
- Servodrive-over-EtherCAT (SoE)
- Conformance Test Policy
- Power-over-Ethernet (PoE)
- FDT/DTM
- Miscellaneous

**Additional Focus: Use of complex devices with different master**

with the following topics:

- Fieldbus-gateways
- Backup object
- Modular device profile (MDP)
- Use of "embedded" master
- Safety devices on standard master

It is intended to provide drafts to the registered attendees prior to the meeting.

## ETG Meeting

### Location:

#### **Mercure Hotel Wings Airport Residenz Rhein Main,**

Anton-Flettner-Strasse 8, 65479 RAUNHEIM, GERMANY

Phone: +49 6142 79-0; Fax: +49 6142 791791

[http://www.mercure.com/mercure/fichehotel/gb/mer/2204/fiche\\_hotel.shtml](http://www.mercure.com/mercure/fichehotel/gb/mer/2204/fiche_hotel.shtml)

The 4 star hotel is located close by the Frankfurt airport and has 417 air conditioned rooms. Ideal traffic routes to Frankfurt, Mainz and Wiesbaden. Fitness area with sauna and solarium, Laundromat, parking garage. All rooms are bright and friendly furnished, alternatively French or Twin bed, mini bar, telephone, Pay-TV, modem port, wireless internet access (charge).



Since the ETG membership is free of charge, the meeting costs are covered by the participants.

Meeting costs are charged by and directly payable at the Hotel.

Special Room Rate for Meeting Attendants.

(Please book your room as soon as possible, because there is only a limited contingent.)



The Meeting Package includes:

- Meeting room charge (Air Conditioned Room)
- Coffee Breaks
- Drinks in the Meeting Room
- Lunch incl. 1 drink (if checked by online registration)
- Parking or Airport Shuttle



### How to get there:

- by Car:

A3 exit Raunheim, "Raunheim/Ortsdurchfahrt", turn right 2000m after town sign into Moselstr.- the Hotel is signposted.

- by Train:

Take train to Frankfurt Airport and shuttle bus from there (Departures see below). Or: S-Bahnhof Raunheim (S8,S9), ca. 1 km from Hotel. S-Bahn leaves Frankfurt Main Station track 103 every 15 minutes (:01 :16 :31 :46), arrives 22 minutes later.

- by Plane:

Take shuttle bus from Frankfurt Airport Terminal I, Hall C, Exit 7, Arrival level, Large Shuttle Bus labelled "Wings Shuttle". Bus takes about 25min.

### Departures:

08:05; 09:05; 10:05; 11:05 (a.m.)

12:05; 01:05; 02:05; 02:55 (p.m.)

03:55; 04:55; 05:55; 06:55 (p.m.)

