

EtherCAT Technology Group
Members

**EtherCAT Technical Training Class &
Safety over EtherCAT Seminar** on Tuesday, September 28th, 2010

August 2010

Dear ETG Member,

we invite you to participate in the EtherCAT Training Class or the Safety over EtherCAT Seminar at the Mercure Hotel Wings Frankfurt Airport in Raunheim, conveniently located close to the Frankfurt Airport.

EtherCAT Technical 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 the ETG Technical Committee meetings in the past. If you are already familiar with EtherCAT, send your colleagues!

The EtherCAT Technical Training Class starts at 10:30 a.m. (Sept 28th), registration starts at 10 a.m. End of the seminar will be 6:15 p.m.



Safety over EtherCAT Seminar:

Functional safety is becoming a crucial selling point. Decision makers, product manager as well as R&D engineers who are involved in their companies safety product strategy are invited to this seminar. We will give you a comprehensive overview about today's requirements for safety machine architectures with the focus on safety communication with the Safety over EtherCAT protocol. Learn about the technology and its implementation.

The Safety over EtherCAT Seminar starts at 2:00 p.m. (Sept 28th), registration starts at 1:30 p.m. End of the meeting will be 5:00 p.m.



There is no participation fee, only the meeting package has to be paid directly to the hotel. Presentations will be held in English, if non German speaking members sign up.

On September 29th there will be the **ETG Technical Committee Meeting**. Please have a look at the separate invitation for this event.

Please sign up online as soon as possible in order to help us with the organization.
Registration deadline is Monday, September 20th, 2010.

Sign up online to attend the EtherCAT Technical Training Class:

http://www.ethercat.org/registration_tc

Sign up online to attend the Safety over EtherCAT Seminar:

http://www.ethercat.org/registration_ts

Best regards,

EtherCAT Technology Group

EtherCAT Technical Training Class

Tuesday, September 28th, 2010

Agenda

10:05 a.m.	<i>Shuttle bus leaves Frankfurt Airport Terminal 1, Hall C, Exit 7, Arrival Level</i>
10:00 a.m.	Registration + Welcome Coffee
10:30 a.m.	EtherCAT Communication Protocol (I) <ul style="list-style-type: none">– EtherCAT Basics– Slave Structure– Physical Layer and Device Model– Data Link Layer
12:15 p.m.	Lunch Break, Coffee
01:30 p.m.	EtherCAT Communication Protocol (II) <ul style="list-style-type: none">– Application Layer<ul style="list-style-type: none">• 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 <ul style="list-style-type: none">– 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.	<i>Shuttle Bus leaves to airport (arrives Frankfurt Airport Terminal 1 at 06:52 p.m.)</i>

Safety over EtherCAT Seminar

Tuesday, September 28th, 2010

Agenda

01:05 p.m.	<i>Shuttle bus leaves Frankfurt Airport Terminal 1, Hall C, Exit 7, Arrival Level</i>
01:30 p.m.	Registration + Welcome Coffee
02:00 p.m.	Safety over EtherCAT Seminar
03:30 p.m.	Coffee Break
03:45 p.m.	Safety over EtherCAT Seminar
05:00 p.m.	End of Seminar
05:25 p.m.	<i>Shuttle Bus leaves to airport (arrives Frankfurt Airport Terminal 1 at 06:52 p.m.)</i>

We will address the following topics:

- What are the relevant standards?
- How to build a safety system compliant to the IEC 61508?
- What are the needs and efforts for your company?
- Are there ready to use solutions available (Make or Buy)?
- How to integrate Safety over EtherCAT in your product?
- Can I still use my standard EtherCAT Master and infrastructure?

And last but not least:

- What are the benefits for your company and for the end-user?

Of course there will be time for Q&A!

ETG Meeting Location

Mercure Hotel Wings Frankfurt Airport

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

The Mercure Hotel Wings Frankfurt Airport offers 4-star comfort and 417 rooms including 250 apartments with a kitchenette as well as studios with a lovely roof terrace. The hotel has its own parking facilities and a free airport shuttle service to the nearby airport. There are twelve conference rooms available for events of up to 130 people. Guests can use the fitness center and sauna free of charge, relax in the pretty winter garden or enjoy a beauty treatment.

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)
- Dinner 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 1, Arrival Hall A, Exit 1. Large Shuttle Bus is labelled with "Wings Shuttle". Bus takes about 25min.

Shuttle Bus Departures

06:05 a.m. —09:55 p.m. (at hourly intervals)

