EtherCAT®
Technology Group

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EtherCAT Technology Group
Members

February 2015

EtherCAT Technical Training Class &
Safety over EtherCAT Seminar on Tuesday, March 17, 2015

Dear ETG Member,

we invite you to participate in the EtherCAT Technical Training Class <u>or</u> the Safety over EtherCAT Seminar, taking place in parallel at the Cosmopolitan Conference Center, conveniently located at Frankfurt Main Station, Germany.

EtherCAT Technical Training Class (Full Day)	
Date:	**Tuesday, March 17, 2015**
Location:	**Mercure Hotel Wings Frankfurt Airport, Raunheim, Germany**
Time:	**10:30 a.m.—6:00 p.m.**
	Inscription starts at 10:00 a.m. (CET)

REGISTER ▶
online today!

EtherCAT®

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 agenda can be found on page 2.

Safety over EtherCAT Seminar (Half Day)	
Date:	**Tuesday, March 17, 2015**
Location:	**Mercure Hotel Wings Frankfurt Airport, Raunheim, Germany**
Time:	**02:00 p.m.—5:00 p.m.**
	Inscription starts at 01:30 p.m. (CET)

REGISTER ▶
online today!

Safety over
EtherCAT®

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 agenda can be found on page 3 of this invitation.

There is no participation fee, only the room costs have to be paid directly to the hotel.
Presentations will be held in English, if non-German-speaking members sign up.

Please sign up online as soon as possible in order to help us with the organization:
www.ethercat.org/registration_tc

Registration deadline is Friday, March 13, 2015

One day later, on March 18, there will be the ETG Technical Committee Meeting. Please have a look at the separate invitation for this event:
www.ethercat.org/download/ETG_TechnicalCommittee_2015_03.pdf

Best regards,
Your EtherCAT Technology Group Team

EtherCAT Technical Training Class (Full Day)
Tuesday, March 17, 2015

Agenda

10:00 a.m.	Registration + Welcome Coffee
10:30 a.m.	EtherCAT Communication Protocol (I) – EtherCAT Basics – Slave Structure – Physical Layer and Device Model – Data Link Layer
12:30 a.m.	Lunch Break, Coffee

01:30 p.m.	EtherCAT 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
06:00 p.m.	End of Training Class

Online Registration
http://www.ethercat.org/registration_tc

Safety over EtherCAT Seminar (Half Day)
Tuesday, March 17, 2015

Agenda

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

Topics

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!

Online Registration
http://www.ethercat.org/registration_tc

EtherCAT Technical Training & Safety over EtherCAT Seminar
Tuesday, March 17, 2015

Location

Mercure Hotel Wings Frankfurt Airport ««««
Anton-Flettner-Str. 8, 65479 Raunheim, Germany
Phone: +49 6142 79-0; Fax: +49 6142 791791
www.mercure.com/gb/hotel-2204-mercure-hotel-wings-frankfurt-airport/index.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[1] or Airport Shuttle[2]

How to get there

- by Car[1]:

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[2]:

Take shuttle bus from Frankfurt Airport Terminal 1, Arrival Hall A, Exit 1. Large Shuttle Bus is labelled with "Wings Shuttle". Bus takes about 25 min.

Shuttle Bus Departures

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