

EtherCAT Technology Group
Members

August 2014

**EtherCAT Technical Training Class &
Safety over EtherCAT Seminar** on Tuesday, September 30, 2014

Dear ETG Member,

we invite you to participate in the EtherCAT Technical Training Class or 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, September 30, 2014
Location: Cosmopolitan, Frankfurt Main Station, Germany
Time: 10:30 a.m.—6:00 p.m.
Registration starts at 10:00 a.m. (CET)



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, September 30, 2014
Location: Cosmopolitan, Frankfurt Main Station, Germany
Time: 02:00 p.m.—5:00 p.m.
Registration starts at 01:30 p.m. (CET)



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 conference center. 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:

http://www.ethercat.org/registration_tc

Registration deadline is Friday, September 26, 2014.

One day later, on March 11, there will be the ETG Technical Committee Meeting. Please have a look at the separate invitation for this event:

http://www.ethercat.org/memberarea/download/pdf/ETG_TechnicalCommittee_2014_10.pdf

Best regards,
Your EtherCAT Technology Group Team

EtherCAT Technical Training Class (Full Day)

Tuesday, September 30, 2014

Agenda

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
12:30 a.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
06:00 p.m.	End of Training Class

**Register online here:**http://www.ethercat.org/registration_tc

Safety over EtherCAT Seminar (Half Day)

Tuesday, September 30, 2014

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

Safety over
EtherCAT[®]



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!

Register online here:

http://www.ethercat.org/registration_tc

EtherCAT Technical Training & Safety over EtherCAT Seminar

Tuesday, September 30, 2014

Location

COSMOPOLITAN Conference Center (CCC) Frankfurt Main Train Station

Im Hauptbahnhof 1

60329 Frankfurt, Germany

<http://www.cosmopolitan-frankfurt.de>

The COSMOPOLITAN Conference Center is conveniently located at Frankfurt Main Train Station, Germany. The meeting rooms are in the first floor, which can be reached via stair or the elevator in front of platform 3 and 4.

Costs: 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 conference centre.

Please note that travel and lodging have to be arranged by the participants themselves.

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)

How to get there

- by Car:

From the south via „Frankfurter Kreuz“, use exit „Messe“

There are several car parks within and close to the main station, e.g. „Nordseite“ and „Südseite“,

go to the main entrance and use the transparent elevator in front of platform 3 and 4 to the first floor at Frankfurt Hbf

- by Train:

Take train or the underground to Frankfurt Main Train Station,

then use the transparent elevator in front of platform 3 and 4 to the first floor at Frankfurt Hbf

- by Plane from Frankfurt Airport:

Frequent S Bahn and regional trains to Frankfurt Main Train Station, taking 11-12 minutes,

please use suburban trains (lines S8 and S9) from platform No. 1+2 direction "Frankfurt/Offenbach/Hanau".

then use the transparent elevator in front of platform 3 and 4 to the first floor at Frankfurt Hbf

View location on web: [Google Maps](#)

