

EtherCAT Technology Group
Members

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Technology Group

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2026 EtherCAT International Technology Week (ITW) Europe | Online February 2-6, 2026

Nov 2025

Dear Sir or Madam,

We cordially invite all developers of EtherCAT MainDevices, SubDevices, Configurators, Codes, and Tools to join the **EtherCAT International Technology Week (ITW) world series 2026**. Now in its fifth year, the ITW World Series has become a staple in the annual ETG event calendar.



Throughout the ITW, ETG experts will lead a series of **technical webinars**, offering in-depth development insights and practical guidance on EtherCAT-related topics. These sessions are designed to address common challenges encountered during the implementation, certification, and release of EtherCAT devices. Each webinar will be followed by a dedicated **Q&A session**, providing ample opportunity for you to ask questions and engage with the presenters.

The webinars focus on the implementation and use of the EtherCAT technology. The content is interesting for EtherCAT newbies, as well as for the well-experienced developer. Take advantage of both, new session topics as well as sessions topics which have been addressed last year. Even if you attended those already, since they may address updated features and other aspects this year, they may offer new insights, nevertheless.

We invite you to join the **ITW World Series 2026**, which kicks off in Europe from **February 2 to 6, 2026**. The series will then continue in America, China, Japan, and finally Korea. For each of the ITWs, a week of all-online webinar sessions is waiting for you. Below, you will find detailed descriptions of each session and the complete event schedule.

www.ethercat.org/itw-europe

Please register via the following link for one or multiple webinars, if not all of them:

Participation is free of charge and limited to ETG members.

Feel free to forward the invitation to your colleagues!

If you have any questions, please get in touch with us.

Best regards,
Your ETG Team

Webinars

BASIC MONDAY**Monday, Feb 2, 2026****09:30 am —10:30 am (CET)****How to begin an EtherCAT development – some key points**

As straight-forward the functional principle of EtherCAT is, the many implementation options, communication devices (ASICs, SoCs, and more), documentation, and developer events are available. This webinar shows key decisions and development steps, and in which order those may be tackled: It includes basic EtherCAT theory training, parameter selection to choose an EtherCAT SubDevice Controller, possible EtherCAT SubDevice software stacks, organizing the parameter and process data, in-house testing, available test tools, official testing at an EtherCAT Test Center, and more developer events.



Florian Essler

Monday, Feb 2, 2026**11:00 am —12:00 pm (CET)****Navigate EtherCAT information**

There are plenty of EtherCAT documents, specifications, and web page information available. In this session we show which information is available. How to read the EtherCAT specification ETG.1000/IEC.61185, how to use ETG.2000 EtherCAT SubDevice Information, how to make use of the EtherCAT Knowledge Base and the EtherCAT Compendium, which valuable and popular events are offered, and how to make contact with the ETG EtherCAT experts world-wide.



Alessandro Figini

PROFILE TUESDAY**Tuesday, Feb 3, 2026****09:30 am —10:30 am (CET)****Structuring CoE object dictionary using profiles: MDP, DS402, Semi Device Profile**

The CoE object dictionary lists all parameters and variables of a SubDevice, and is the interface to the sensor or actuator functionality. Depending on which type of device is developed, different CoE OD structurings, so called device profiles, are beneficial. Those reach from a basic framework (MDP) defining a handful of categories, to a very detailed parameter definitions for drives (DS402), valves (Semi Device Profile), gateways, and others. Profiles are a very helpful concept for both, developers and device users, and this is why they have become very popular on both sides. This is to an extent where basically any EtherCAT device makes use of device profile benefits. And this webinar explains the concepts and advantages. Device profile are well combined with the ESI concepts of Modules and Slots—which are explained in the following webinar.



Florian Essler

Tuesday, Feb 3, 2026**11:00 am —12:00 pm (CET)****Using Modules/Slots in ESI and online CoE object dictionary**

The ESI elements Modules and Slots allow to generate a flexible EtherCAT SubDevice description, e.g., for modular servo drives and gateways. This webinar shows how to make correct use of the ESI elements and which online CoE objects are used for Modules/Slots functionality.



Florian Hammel

Webinars

PRACTICAL WEDNESDAY

Wednesday, Feb 4, 2026

09:30 am — 10:30 am (CET)

From Spec to SubDevice: Building an EtherCAT SubDevice - Part 1

This webinar combo describes the process of an EtherCAT development hands-on. In this first part the parameter and cyclic data are described for a prototype SubDevice. Those are structured into the CoE object dictionary using device profile guidelines. From the OD description the base to generate the SubDevice stack, ESI file, and SII are done. The process of selecting respective hardware and other basic considerations are discussed, too.

Best to watch before: How to begin an EtherCAT development, Structuring CoE object dictionary using profiles



Florian Essler

Wednesday, Feb 4, 2026

11:00 am — 12:00 pm (CET)

From Spec to SubDevice: Building an EtherCAT SubDevice - Part 2

This webinar combo describes the process of an EtherCAT development hands-on. In this second part software stack settings and a prototype application are demonstrated. As a paramount development-supporting measure, the use of the Conformance Test Tool (CTT) throughout the development process is demonstrated.

To round up the process quality testing related aspects are demonstrated.



Florian Hammel

SYNC THURSDAY

Thursday, Feb 5, 2026

09:30 am — 10:30 pm (CET)

EtherCAT Synchronization Modes - basic concepts

EtherCAT synchronization modes define how to synchronize the process data update and the applications of MainDevice and SubDevices. EtherCAT specifies three synchronization modes called Free Run, SM-synchronous, and DC-synchronous and also defines possible variations.

This webinar introduces the different synchronization modes with graphical animations as well as concrete examples. For each mode the underlying mechanisms, the hardware and software implementation aspects as well as the description in the ESI file are introduced.



Alessandro Figini

Thursday, Feb 5, 2026

11:00 am — 12:00 pm (CET)

EtherCAT Synchronization Modes - SSC Implementation

This webinar demonstrates how EtherCAT synchronizations modes may be implemented in an EtherCAT SubDevice software stack, using the example of the SSC (SubDevice Stack Code). This includes the interrupt handling, the process data handling, and the monitoring of the synchronization including error handling.

Best to watch before: From Spec to SubDevice: Building an EtherCAT SubDevice - Part 2



Rainer Hoffmann

Webinars

CTT FRIDAY

Friday, Feb 6, 2026
09:30 am —10:30 am (CET)

CTT – basic features and how to use it for EtherCAT SubDevice development

This webinar aims to present the basics around the EtherCAT Conformance Test Tool (CTT) and how to use it for EtherCAT SubDevice development. In this presentation we will cover the many helpful functionalities and plugins of the tool, EtherCAT protocol testing as well as long-term testing of different EtherCAT SubDevice configurations, error detection mechanisms, and analysis of the test results.



Gregor Erzen

Friday, Feb 6, 2026
11:00 am —12:00 pm (CET)

CTT – advanced features (incl. remote control interface, configuration, and more)

This webinar shows advanced CTT configuration and testing of complex EtherCAT SubDevices. We will also explain how automated testing via the CTT remote control interface can be done. The scripting via PowerShell™ allows to start the CTT remotely, load different configurations, execute tests, and save results for internal test documentations.



Oliver Horst

COMPLETE SESSION CALENDAR

Please find an overview of all webinar sessions available for the 2026 EtherCAT ITW Europe below:

CET	MONDAY Feb 02, 2026	TUESDAY Feb 03, 2026	WEDNESDAY Feb 04, 2026	THURSDAY Feb 05, 2026	FRIDAY Feb 06, 2026
09:00	Kick-off				
09:30	How to begin an EtherCAT development - some key points	Structuring CoE object dictionary using profiles: MDP, DS402, Semi Device Profile	From Spec to SubDevice: Building an EtherCAT SubDevice - part 1	EtherCAT Synchronization Modes - basic concepts	CTT - basic features and how to use it for EtherCAT SubDevice development
10:30	Q&A	Q&A	Q&A	Q&A	Q&A
11:00	Navigate EtherCAT information	Using Modules/Slots in ESI and online CoE object dictionary	From Spec to SubDevice: Building an EtherCAT SubDevice - part 2	EtherCAT Synchronization Modes - SSC Implementation	CTT - advanced features, incl. remote control interface, configuration, and more
12:00	Q&A	Q&A	Q&A	Q&A	Q&A
12:30					Wrap-up

Registration & More

Registration deadline: January 30, 2026

ONLINE REGISTRATION

Register early for the full event via the link
www.ethercat.org/itw-europe

and attend as many webinars and Q&A sessions as you want.

The registration deadline is **Friday, January 30, 2026**.

Feel free to forward the invitation to your interested colleagues!

Prerequisite for attending is a valid ETG membership.

ONLINE REGISTRATION CONFIRMATION AND REMINDER

Each registration has to be approved by ETG HQ, thus the login information may be provided with a small delay after your registration. Once you receive the login information, please be aware that this is **personal** and must **not** be shared inside nor outside your organization.

You will be notified one day before and one hour before each webinar day via email from GoToWebinar.

ONLINE PLATFORM

[GoToWebinar™](#) will be used as webinar software.

GoTo Webinar

SPEAKER INTRODUCTION

Besides the content, one highlight of the EtherCAT International Technology Week is the speakers who prepare and conduct the details of the individual presentations and are available to answer participants' questions in the Q&A sessions.

Participants can look forward to the know-how and knowledge transfer of some of the world's most experienced EtherCAT experts. You will find the EtherCAT experts and much more at the **EtherCAT International Technology Week (ITW) World Series** landing page:

www.ethercat.org/itw