

ETG News

August 2018 | #29



EtherCAT[®]
Technology Group

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Further Information
www.ethercat.org

EDITORIAL

Dear Members,

We are having an exceptionally hot and dry summer in Germany and Central Europe: the average temperature is almost 4 degrees centigrade higher than usual, with less than half of the rain. Fans are sold out everywhere, and here in the ETG HQs penthouse office the A/C gave up: we are enjoying temperatures up to in the mid-thirties in our office. So we are looking forward to the fall, which will be as busy as always: about half of all events and meetings are in the second half of the year, which in fact is only three months long, since events before mid-September and after mid-December get little attendance. In September we will have the North American EtherCAT Plug Fest, EtherCAT Seminars in Brazil, Japan, Germany and the USA, an ETG trade show booth in China, and the Technical and Marketing Committee Meetings in Germany. In October there will be EtherCAT Seminars in France, Spain, South Africa, Australia, New Zealand, Korea and in the USA, the Plug Fest in Korea as well as the Semi TWG meeting in the Silicon Valley. And in November there will be seminars and workshops in China, Japan, Korea and Germany, the Plug Fest in Japan as well as the SPS/IPC/Drives show with the Membership Assembly here in Nuremberg, Germany. I hope to see you at one of the upcoming events!



With best regards on behalf of the entire EtherCAT Technology Group Team,

Martin Rostan, Executive Director

Technical Working Groups

EtherCAT and TSN Technical Working Group Kick-Off Meeting

The new Technical Working Group (TWG) EtherCAT and TSN, initiated by ETG, had their first meeting at the end of July. The kick-off meeting was held in the form of a web conference to facilitate the participation of members from Asia as well as America.

Currently, 16 companies are represented in the Working Group – a very good result for newly founded working group. Among them were two of the world's largest manufacturers of industrial switches, as well as other leading high-tech companies.

The TWG addresses the interworking of EtherCAT and TSN – the profile for this has already been available since last year. A cooperation with the IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) and in particular the JWG IEC/IEEE 60802 is already established by a liaison. Many TWG companies also

work together in the LNI 4.0 TSN Testbed. This helps to monitor conformance not only for EtherCAT and TSN, but also to test common networks with other manufacturers and address specification gaps. Just like EtherCAT, LNI 4.0 is committed to small and medium-sized device manufacturers and machine builders. As a result, this group can be provided with an interoperable solution from a large number of providers swiftly following the completion of TSN specification.

The next meeting of the TWG EtherCAT and TSN is scheduled for December this year. ETG members who would like to contribute are welcome to join.

Next Meeting ([EN](#) | [DE](#) | [CN](#) | [JP](#))

TWG: ([EN](#) | [DE](#))

EtherCAT Adoption Rate: Vendors

EtherCAT is wide spread in different markets as well as countries. Please have a look at the impressive figures:

175 EtherCAT Drive Vendors + 5*

211 EtherCAT Master Vendors + 8*

118 EtherCAT I/O Vendors + 2*

*Indicated changes are compared to the last newsletter.

Playing with figures (Vol. 5)

We have actually **4965** members from **65** countries and **6** continents. EtherCAT is implemented on **35** different RTOS and over **950** products are entered in the official EtherCAT Product Guide. There are **33** different Safety over EtherCAT vendors and **54** sensor/actor manufacturers. Furthermore EtherCAT offers connectivity to **33** other communication systems. Over **500** new members have joined the ETG over the last **12** months.

Exhibit at the EtherCAT Joint Booth @ SPS IPC Drives 2018 and HANNOVER MESSE 2019

ETG will be represented at both SPS IPC Drives 2018 and HANNOVER MESSE 2019. Our booth concept has proven to be successful at past trade shows and features multi-vendor product presentations, interactive elements, and live demonstrations of EtherCAT's outstanding features. In the 2018/2019 trade show season, we are striving to make our presence even better and invite you to come on board!

Our flexible concept allows ETG members to present their company and products in several different ways, including having personnel from their company at our booth to talk directly to the visitors. ETG experts will, of course, be available to explain the details and answer any questions about EtherCAT.

We offer various display segments for showing hard- and software, including prototype or non-functional devices. Products will be sorted by category:

- EtherCAT Control Systems
- EtherCAT Drive Technology
- EtherCAT I/O Systems & Gateways
- EtherCAT Sensors & Actuators
- EtherCAT Development Products
- Safety over EtherCAT Products
- EtherCAT P Products

By participating in the ETG Joint Booth season 2018/2019 you'll raise awareness of your own EtherCAT products, services, and expertise in the context of the world's largest fieldbus organization! Take advantage of this chance to boost your EtherCAT sales with minimum effort and small financial contribution.



Book the trade show bundle today!
Extended Registration Deadline: Aug 31

WHY JOIN US?

One price – two big shows –
extraordinary awareness
... further benefits see [here!](#)



The registration for the ETG Joint Booth 2018/2019 season covers:

- SPS IPC Drives 2018 (Nuremberg, Germany, Nov 27-29, 2018)
- HANNOVER MESSE 2019 (Hanover, Germany, Apr 01-05, 2019)

Please check all the offer details incl. the registration form here:

[ETG Joint Booth Participation Offer & Registration Form](#)

New (extended) registration deadline is **Friday, August 31th, 2018.**

Price for both tradeshow participations is **€3000 (net)** or **€2000 (net)** for small companies (<20 employees).



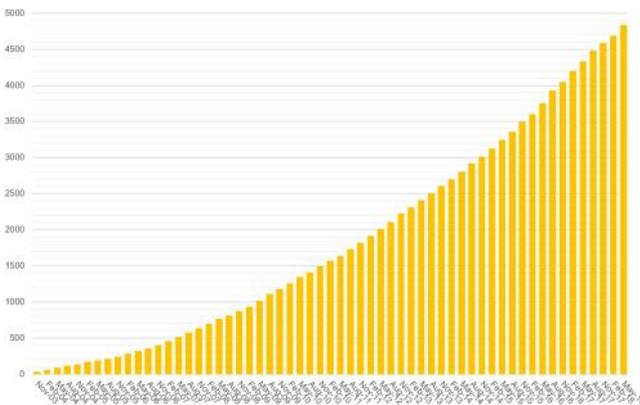
Membership Development

During the last year the ETG has constantly grown and, as of August 2018, counts 4,965 members from 65 countries and 6 continents; ETG continues to be the world's largest fieldbus organization, and a truly global organization as well.

Besides its strong growth in Europe, there is further increase in new membership applications from Asia and America.

Find all up-to-date members listed here:

www.ethercat.org/members



ETG Member Meetings in Japan and South Korea

Recently, the annual regional ETG Member Meetings were held in Japan and South Korea. Numerous participants from ETG member companies attended the lectures and took an active part themselves.

The ninth Korean Member Meeting took place in the capital city of Seoul. Martin Rostan, executive director of the ETG, opened the meeting with an introduction on the current status of the technology as well as the numerous activities of the ETG. In particular, the presentation about the EtherCAT and Time-Sensitive Networking (TSN) profile attracted many listeners. Furthermore, ETG member companies such as the Korea Institute of Science and Technology (KIST), Stone Child Autotainment, HMS Industrial Networks and DAINCUBE presented the advantageous use of EtherCAT in their applications.

Also in Japan, many members accepted the invitation to the regional ETG Member Meeting and attended the presentations by the Japanese ETG representative and the ETG Regional Committee in Japan. The participants received a comprehensive technology update, as well as an overview of the latest global activities of the ETG.

These meetings drew a large number of participants, showing that there is great interest in Asia regarding EtherCAT technology and its use in the context of current trends such as Industrie 4.0 and TSN. The ETG itself is also very active in Asia: The organization offers countless seminars and it maintains a strong presence at the most important trade shows. The established and well-attended Plug Fests also continue to play a key role.

Press Release ([EN](#) | [DE](#))

ETG Meets for 2018 Global Strategy Meeting

In June 2018, the global ETG team met for the biennial ETG Global Strategy Meeting in Leinburg, near Nuremberg, Germany. The ETG employees from the Nuremberg headquarters gathered with their colleagues from ETG offices in China, Japan, South Korea and the U.S. to discuss the organization's future strategy and to connect on a personal level.

The meeting's main topics included the status and development of EtherCAT technology in the context of Industrie 4.0 and IoT. Along with the strategic planning for the years ahead, internal project work and communication processes were also key points of discussion. Gaining insight into theories of intercultural communication and applying these theories during team-building events helped enhance collaboration within the multinational ETG team.

Bob Trask, PE, who has led the North American ETG office since the beginning of 2018, attended the Global Strategy Meeting for the first time: "Technical brilliance. I am amazed at the competence of the EtherCAT Technology Group team, their commitment to the industry, and the continual refinement of the tools necessary for EtherCAT compliance," Trask said.

The organization's strong growth is also reflected in the increasing

number of ETG employees. The team has grown significantly since the last meeting two years ago, so the meeting was a welcome opportunity for team building and professional development.

Press Release ([EN](#) | [DE](#) | [CN](#) | [JP](#))



EVENTS

Upcoming Industrial Ethernet Seminars in Q3/Q4 2018

For the second half of 2018, ETG has planned further seminars as part of their worldwide Industrial Ethernet Seminar Series.



Brazil: September 11—20

- | São Caetano do Sul
- | Sorocaba
- | São Leopoldo
- | Rio de Janeiro

Register online for free: www.ethercat.org/2018/brasil



France: October 10—11

- | Toulouse
- | Lyon

Register online for free: www.ethercat.org/2018/france



South Africa: October 10—17

- | Durban
- | Port Elizabeth
- | Cape Town
- | Johannesburg

Register online for free: www.ethercat.saic.co.za



Spain: October 16—19

- | Madrid
- | San Sebastián
- | Barcelona

Registration will be available soon!



Australia & New Zealand: October 19—26

- | Perth
- | Adelaide
- | Melbourne
- | Sydney
- | Christchurch
- | Auckland

Register online for free: www.ethercat.org/2018/aus_nz

Please get in contact with us if you are interested to be part of our seminar series as co-sponsor!

Registration for participants is always free of charge. You may make your local customers and colleagues aware of this excellent opportunity to learn about EtherCAT.

ETG Tradeshow Participations Worldwide Q3/Q4 2018



Hannover Messe USA

Chicago, USA, 10.09.-15.09.



IAS – Industrial Automation Show

Shanghai, China, 19.09.-23.09.



SPS IPC Drives

Nuremberg, Germany, 27.11.-29.11.



SEMICON Japan

Tokyo, Japan, 12.12-14.12.

Call for Co-Exhibitors is available for some of the events listed above, and will be distributed to all ETG members worldwide. Please get in contact with us if you are interested to be part of our ETG tradeshows.

Further ETG Events Q3/Q4 2018



Plug Fest

Albuquerque (NM), USA , 05.09.-06.09.

Register online: www.ethercat.org/registration_pf_na



Technical Committee

Raunheim, Germany , 26.09.

Register online: www.ethercat.org/registration_tc



Marketing Committee

Nuremberg, Germany , 27.09.



TWG SEMI

Santa Clara (CA), USA, 03.10.-04.10.



Plug Fest

Seoul, South Korea , 29.10.-30.10.



Plug Fest

Yokohama, Japan , 06.11.-07.11.



TWG Conformance

Web Conference , 15.11.



Membership Assembly

Nuremberg, Germany (SPS IPC Drives) 27.11.



TWG EtherCAT & TSN

Web Conference , 14.12.



Plug Fest

Herzogenaurach, Germany , 18.12.-19.12.

For more information refer to the event section on the official website: www.ethercat.org/events

New Members (since last news) in order of membership application

We welcome all new members and thank you for joining forces to promote and advance the EtherCAT technology.

- Xi'an Puyuan Industrial Technology
- Bender Robotics
- Changzhou Fulling Motor
- Control
- Weidmüller Interface (Shanghai)
- ANTRIMON Motion
- Bureau Veritas Consumer Products Services Germany, European Compliance Laboratory (ECL)
- Cole Controls
- James Fisher Nuclear
- Park Industries
- Fukunishi Electrical
- Jiangsu Kaiserdive Intelligent Technology
- Kamstrup
- MA
- Vetaphone
- Nihon Protech Software
- Tomsk Polytechnic University School of Computer Science & Robotics, Academic Laboratory of Industrial Robotics
- Shenzhen Porcheson Technology
- Rheinmetall Canada
- Chase Motion
- SHANGHAI GEMPLE M&E
- Kenotom
- Chinese Academy of Sciences (CAS) Xinjiang Astronomical Observatory (XAO)
- Balt-System
- Cyberlogix
- ASIX
- Gadgeon Smart Systems
- Hangzhou Aohi Marine Engineering
- University of Missouri, Department of Mathematics
- NIDEC COPAL ELECTRONICS
- Zixel di Beschin Augusto & C.
- Tomsk Electronic Company Scientific and Manufacturing Enterprise
- ReACT Technologies
- Winservo (Xiamen) Electrical Technology
- Weber Ultrasonics
- PRODRIVES & MOTIONS
- LS Laser Systems
- Marchesini Group
- bf1systems
- O-DEAR INTERNATIONAL
- DB Automobile
- Okura Yusoki
- Philoptics
- Fineline
- Yaskawa Controls
- PINE TECH.
- Fineline Solutions
- ce.tron Gesellschaft für Hard- & Softwaretechnik
- MILLAN Automation
- Shenzhen Yuejiang Technology
- Friedrich-Alexander Universität Erlangen-Nürnberg, Institute of Energy Electronics (Technische Fakultät Department Elektrotechnik-Elektronik-Informationstechnik (EEI), Lehrstuhl für Elektrische Energietechnik LEE)
- Shenzhen Xinchuan Electric Technology
- Huayi Wind Energy
- Multi Tower Company
- TOP Control
- SICPA
- Sherpa
- Kyushu Institute of Technology School of Computer Science and Systems Engineering, Department of Computer Science and Electronics Ochi & Kurosaki Lab
- Slicht-Automations, Inh. Sebastian Licht
- StoneHex Engineering
- WACOH-TECH
- Piezosystem Jena
- Axel Electronica
- ArtifactNoise
- Herkules-Resotec Elektronik
- IDX
- Orotig
- Chengdu EVControl Technology
- Hirakawa Hewtech
- Industrial Indexing Systems
- Pauly Steuer- und Regelanlagen
- Ingenieurbüro Holtgrewe
- Science and Technology Facilities Council, ISIS Neutron and Muon Source
- ibg Prüfcomputer
- FISA Manufacturing
- Hong-Qi Mechatronics (Anhui)
- SPI Developments
- SWIGRO Additive Manufacturing
- GERMAN POWER
- SCHMIDT Technology
- Changzhou Lead-Motion Intelligent Technology
- Suzhou Geyuan Electric
- Promotion Engineering
- iseg Spezialelektronik
- Auto ID Labelling Solutions
- Beckman Coulter
- Crosscut Prototypes
- OA Laboratory
- PAIX
- Nanjing Control Intelligent Technology
- Evolution Measurement
- APE Technology
- InCAT
- Saab
- DEMCON Focal
- MICROPAP ENGINEERING
- System-on-Chip engineering
- Domino UK
- Robot Partner
- University of Stavanger, Faculty of Science and Technology, Department of Electrical Engineering and Computer Science
- Shenzhen Hengyu Controller Technology
- Areté Associates
- Electronics
- Zünd Systemtechnik
- Ryosan
- Shanghai Zhongchen Electronic Technology
- Guangzhou Amsky Technology
- AutoSys
- UCY Technologies
- Electronica Santerno
- OptoFidelity
- SS Innovations China
- Nidec Industrial Automation UK
- Vishay Nobel
- Shenzhen Ruitech Mechanical and Electrical Technology
- Baldwin Technology
- The Charles Stark Draper Laboratory
- "Power Supply Systems" (PSS)
- Shanghai HOCH Laser Technology
- HELMUT FISCHER INSTITUT FÜR ELEKTRONIK UND MESSTECHNIK
- Altran US
- KOENN
- WORLD SYSTEM
- Senfit
- Ningbo Zhafir Plastics Machinery
- CoSynth
- Diatrend
- Thermo Fisher Scientific Messtechnik
- BJ Controls (dba IOT-eq)
- Scanivalve
- Dongguan Baoxuan Electronic Technology
- Ecole Polytechnique Fédérale de Lausanne (EPFL), School of Basic Sciences
- Swiss Plasma Center SPC
- DEUBLIN ITALIANA
- Crossmuller
- ZELTWANGER Dichtheits- und Funktionsprüfsysteme
- AREVO
- Infinity Sales
- Exvision
- BARBERAN
- Singapore Institute of Manufacturing Technology (SIMTech), Mechatronics Group, Industrial Robotics Team
- NIPPON SIGNAL
- Zhuhai Taikin Technology
- Blum-Novotest
- Atec Automatisierungssoftware
- ELEDUS
- Elesolutions
- Global Motion & Systems
- RTSoft
- Cognibotics
- Hefei Kewell Power System
- TECHEST
- UBTECH Robotics
- Technical Development (TDC)
- TATUNG
- FPT Systems
- ERNI Deutschland
- Euto Energy Elektronik
- CogniMade
- Shenzhen ECON Technology
- A&DS
- GOWIN Semiconductor
- Foshan City Coyo Precision Machinery Manufacturing
- MPI Solutions
- Darose Control Systems
- Shenzhen Spring Robot Engineering
- Gripping Power
- EMEC-Prototyping
- MacKware
- Okosis Otomasyon ve Kontrol Sistemleri
- Intelligent Machine Laboratory
- Stratsys
- Halleck-Willard
- Hangzhou Dianzi University, College of Electronics and Information
- MCM Japan
- Supra Engineering
- Team Vesmes
- Intellect Systems
- SANEZOO EUROPE
- ESYSE Embedded Systems Engineering
- LinkedHope Intelligent Technologies
- Teknix Argentina
- Godrej & Boyce Manufacturing
- Fliegl Agrartechnik
- MikroElektronika
- Flexiv Robotics
- MegaChips
- Chung-Nam National University, College of Engineering, Department of Computer Science and Engineering, System Software Laboratory
- DEPUISH Technology
- Moore Nanotechnology Systems
- Star Asia Trading
- Sky-Tag Engineering
- Fuji Yusoki Kogyo
- Justus-Liebig-Universität Gießen I. Physikalisches Institut,
- Arbeitsgruppe Atom- und Molekülphysik
- Veris Industries
- Halodi Robotics
- IDEC
- Lomonosov Moscow State University (MSU), Sternberg Astronomical Institute (SAI)
- Yamato Scale
- Technische Universität Berlin Fakultät Elektrotechnik und Informatik, Fachgebiet Telekommunikationsnetze
- TDK
- Pusan National University, College of Engineering, Department of Electrical Engineering, Power Conversion Laboratory
- Starters E-Components Generators Automotive Hungary
- TVM Signalling and Transportation Systems (TSTS)
- HYUNDAI MOVEX
- DYNAMIC OPTICS
- ATOM
- Phase Motion Control Ningbo
- EIKOSHA
- Saska Technologies
- Hitachi Information & Telecommunication Engineering
- TnS
- AS-Medicals
- Nidec Motor
- Eagle Wing Design
- Korea University of Technology and Education (KOREATECH), School of Electrical, Electronics & Communication Engineering
- Rheonik Messtechnik
- Probot Automation
- Shenzhen Qinglan Automation Technology
- Sciometric Instruments
- MEXICAN REPS OPERATION S DE RL DE CV (MXRO)
- Leuze Electronic
- Equip-Test
- Philip Hydraulics
- CRSC Urban Rail Transit Technology
- SYSTEC
- Nanjing DECOWELL Automation
- AKIM METAL
- Preverco
- Tomsk State University of Control Systems and Radioelectronics (TUSUR), Institute of Innovations, Faculty of Innovation Technologies
- SP.EL.
- Exxentis
- PineSolution
- BLUESINK
- FST (FINE SEMITECH CORP.)
- OC Plan Kontrol Sistemleri
- PIMTAŞ Plastik İnşaat Malzemeleri
- NINGBO JUNWEI ELECTRIC
- OSRAM
- RINCO ULTRASONICS
- Sruhad Technologies
- Raith
- Toray Engineering
- Stereotaxis
- NiniX Technologies
- National Formosa University, College of Engineering, Department of Vehicle Engineering
- INVT Auto-Control Technology (Shenzhen)
- Leptrino
- FuelCon
- neuroConn
- CHIKO AIRTEC
- NAVER LABS
- Centroid
- Sobal
- Human Automation
- EN Technologies
- Vögtlin Instruments
- Branscheid Industrie Automation
- HEIDENHAIN ITALIANA
- Takazono Technology
- AMADA MIYACHI
- Levitacion
- KingSemi
- Advanced Robotics Group
- InTune Products
- Wilhelm Winter
- ING-AUTOMATION
- DELMERO Damian Nowak
- FAS Electronics (Fujian)
- Suzhou Veichi Electric
- Università di Bologna (UNIBO), Department of Electrical, Electronic and Information Engineering "Guglielmo Marconi" (DEI), Laboratory of Automation and Robotics (LAR), Research Group Advanced Control for Enhanced Mechatronics and Automation (ACEMA)
- XCompass
- Servostar
- Jiangsu Saiyang Mechanical & Electrical Technology
- EDM Zap Parts
- Dongguan Precision Intelligent Technology
- Intra
- seven dreamers laboratories
- Aerosim Technologies dba L3 Commercial Training Solutions
- Firecomms
- Chromatan
- Central South University, College of Mechanical an Electrical Engineering, State Key Laboratory of High Performance Complex Manufacturing
- PyramidTech
- Ford Motor
- KEWAZO
- Fluence Automation
- Comptron Ing. Firma
- TCK
- Jiann Sheng Machinery & Electric Industrial
- Skala
- Panasonic Smart Factory Solutions
- General Atomics
- Theatrix Technologies
- Guangzhou ZHIYUAN Electronics
- Axetris
- Jin Solution
- LANG
- ZETES Industries
- VA Laserautomation
- The Chinese University of Hong Kong T Stone Robotics Institute
- Shanghai Electric Power T&D Group
- VR Group
- ARUP Laboratories
- Shenzhen Han's Robot
- BHTL Equipment (Beijing) dba Scivita
- SILVER ATENA Electronic Systems Engineering
- SED Systems, a division of Calian
- Wisdom Technologies
- Universitat Politècnica de Catalunya Department of Electrical Engineering, Research Center on Renewable Electrical Energy Systems (SEER)
- Logosol
- Loughborough University, School of Mechanical, Electrical and

New Members (since last news) in order of membership application

We welcome all new members and thank you for joining forces to promote and advance the EtherCAT technology.

- | | | | | |
|--|--|--|---|---|
| Manufacturing Engineering,
Control Systems Research Group | - Shenzhen Donglaier Smart
Technology | - MKP | - Shandong University, School of
Control Science and Engineering | - Beijing Powerbeck Automation
Technology |
| - Studio elektronike Rijeka | - Shanghai LionsTek | - Yuanda Robotics | - BLUTek | - Logic Fruit Technologies |
| - Cloud Automation | - Positronics | - Columbus McKinnon | - Qingdao Mangrove Technology | - Shinwa Industries |
| - FIAtec | - SCHOBER Elektronik | - HIKARI | - Guangzhou Jinglun Automation
Equipment | - Eindhoven University of Technology,
Department of Mathematics and
Computer Science, System
Architecture and Networking Group |
| - Computacenter | - Space Exploration Technologies
(SpaceX) | - University of Birmingham,
Birmingham Centre for Railway
Research and Education | - Vistec Electron Beam | - ACE Automation |
| - SIOS Meßtechnik | - HangZhou TongHang Edrive
Technology | - Syswin Controls | - The Cyber University of Korea,
Department of Mechanical and
Control Engineering | |
| - Stratus Automation | - Landis+Gyr | - Hefei Sineva Intelligent Machine | | |
| - Replicant Automation | | - thyssenkrupp Presta Shanghai | | |

Please find the full list of members online: www.ethercat.org/members

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