

MECHATROLINK News “MMA-FLASH” brings the latest MECHATROLINK information.

## Feature Article

MMA Activities in FY2013 and Plans and Strategies for FY2014

# MECHATROLINK, Ready for the Next Stage of Progress

The year 2013 marked 10 years since the MECHATROLINK specifications was published. During FY2013, the MMA expanded its activities to promote the use of MECHATROLINK by highlighting the 10th anniversary. As a result of such activities, the MMA membership topped 2000 in January, 2014. At the same time, the number of member companies in China whose markets are rapidly growing surpassed 1000 and the MMA became the biggest network-promoting organization in China. For this edition, the MMA reports its activity achievements in FY2013 and plans and strategies for FY2014.

## Activity Achievements in FY2013

### (1) MMA at over 2000 Members

The MMA membership has topped 2000 as of January 2014. At the same time, the number of member companies located in China whose markets are rapidly growing surpassed 1000.

### (2) Establishment of MMA Taiwan Office to Expand Promotional Activities

The MMA Taiwan office was established and started its operation in November, 2013 to strengthen functions to provide services and promote MECHATROLINK in rapidly growing markets in Asia. Thereby, we can respond locally to inquiries, and timely provide product development support as well as technical support. In the collaboration with the MMA China office, the MMA Taiwan office will strive to further promote the use of MECHATROLINK in Asia.

### (3) Performances in Exhibitions

The MMA participated in System Control Fair 2013 held in November, 2013 at Tokyo Big Sight. We delivered at the MMA booth a presentation entitled “The Beat of the Machine” by demonstrating the high performance of MECHATROLINK network.

And, the MMA head office and branch offices actively participated in various exhibitions organized in Asian countries so that local people can directly experience the fascinating performance of MECHATROLINK. Besides the exhibitions in Japan, China, Korea, and Taiwan, the MMA participated for the

first time in MTA2013 held in Singapore in April, 2013, and IMTEX2014 held in Bangalore, India in January, 2014.

In each exhibition, we could successfully demonstrated the advantages of MECHATROLINK.



MECHATROLINK Seminar 2013 in Shenzhen



MMA booth at System Control Fair 2013

## Plans and Strategies for FY2014

Using the experience we brought up the MMA to an organization of over 2000 membership by expanding the markets of Japan originated MECHATROLINK from Japan to Asia (China) and conforming to the following basic guidelines, the MMA will devote itself to promote and expand the use of MECHATROLINK to make MECHATROLINK as a de facto motion field network standard.

### 1. Promotion of the use of MECHATROLINK

Strengthen the function to acquire new users of MECHATROLINK, in addition to increase the numbers of MMA members and MECHATROLINK compliant products

### 2. Enhancement of MECHATROLINK networked system proposal capabilities

Enhance the capabilities to make proposals of MECHATROLINK network systems with MMA members' products connected.

### 3. Development of the next generation MECHATROLINK

Accelerate the development of the next generation MECHATROLINK for enhancement of competitiveness

Specifically, the MMA will strengthen the following activities.

### Enhancement of MECHATROLINK networked system proposal capabilities and Promotion of the use of MECHATROLINK

Along with the conventional promotional activities, we will take the most effective measures for each district.

### [Japan]

We will not be only participating in exhibitions and organizing MMA fairs but also actively organize such events as customer visit to enhance the activity to acquire new MECHATROLINK users. For the development of new users, we will also prepare demo units and presentation transcripts that clearly show the merits of MECHATROLINK adopted system and at the same time enlarge the variety of MMA members' products and strengthen their interoperability.

### [Korea, China, and Taiwan]

In addition to our conventional promotion activities, we will accelerate the spread of the use of MECHATROLINK up into local systems and low-cost systems by enhancing the support for local MMA members to develop MECHATROLINK compliant products and the promotional activity for the developed products.

### [ASEAN countries and India]

We will boost the recognition of MECHATROLINK in ASEAN countries and India where networking market is expected to expand, and enhance the promotional activity by highlighting the successful examples of adoption of MECHATROLINK in Japan and other developed countries.

### [Europa and America]

We will enhance the international standardization activities in conformity to IEC. Additionally, we will promote the use of MECHATROLINK to local machine manufacturers and offer solutions to develop value added products by adopting

MECHATROLINK such as MECHATROLINK incorporated MPUs manufactured in Europe and America.

### Development of the next generation MECHATROLINK

Paying close attention to the market and technical trends of general-purpose Ethernet, we will continue our approach to the development of competitive element technologies and the international standardization within the limit that the compatibility with the existing MECHATROLINK systems can be kept.

Appreciating your everlasting supports, the MMA will make further effort to spread the use of MECHATROLINK.



## News & Topics

### 2014 MMA General Meeting, Lecture, and Reception

The 2014 MMA general meeting will be held as shown below. The meeting will be followed by lectures and reception. The meeting, lectures, and reception are free to all MMA members. We are looking forward to seeing many MMA members at the meeting.

All participants are requested to register in advance on the following MMA website.

<http://www.mechatrolink.org/jp/>



2013 MMA general meeting

Date	From 13:00 to 18:50 on June 6 (Fri), 2014
Place	UDX Conference 6th Floor Address: 4-14-1 Sotokanda, Chiyoda-ku, Tokyo Access: 2-minute walk from JR Akihabara station 3-minute walk from Tokyo Metro Ginza Line Suehirocho station/Tsukuba Express Akihabara station 4-minute walk from Tokyo Metro Hibiya Line Akihabara station Visit the following URL for the access map. <a href="http://udx.jp/conference/access.html">http://udx.jp/conference/access.html</a>
Participants	MMA member only
Program	<ul style="list-style-type: none"> <li>Report on FY2013 activities and activity plan for FY2014</li> <li>Report on settlement of accounts for FY2013 and budget planning for FY2014</li> <li>Report on group activities (Marketing and PC Engineering groups)</li> <li>Special lectures               <ul style="list-style-type: none"> <li>by Yamashita Nobuya, the Dept. Manager of TOWA Corporation, Equipment Development Dept.</li> <li>by Hao Shigang of TIANJIN SIJIN ELECTRIC TECHNOLOGY CO., LTD.</li> </ul> </li> <li>Introduction of new products</li> <li>Reception</li> </ul>



## Exhibition & Event Information

**TECHNO-FRONTIER 2014** Each participant introduces his mechatronic and electronic component technology and products.

### Event Information

**Dates:** July 23 (Wed) – 25 (Fri), 2014 **Place:** Tokyo Big Sight West Hall 3, Japan **Booth No.:** 3F-203  
**Detailed information:** <http://www.jmas.or.jp/TF/en/>

### MMA Participants:

- ALGOSYSTEM CO.,LTD
- ANYWIRE CORPORATION
- Digital Electronics Corporation
- M-System Co., Ltd.
- Micronet Co.
- NIKKI DENSO Co., Ltd.
- ORIENTAL MOTOR CO., LTD
- YASKAWA INFORMATION SYSTEMS Corporation
- YASKAWA ELECTRIC CORPORATION
- YOKOGAWA ELECTRIC CORPORATION

**Industry Open Net Exhibition 2014** Different open-network-promoting organizations organize seminars and demonstrate their network systems to introduce the merits of each open network.

### Event Information

**Dates:** July 2 (Wed), 2014 in Nagoya, July 4 (Fri), 2014 in Tokyo  
**Place:** [Nagoya] WINC AICHI (in front of JR Nagoya station) [Tokyo] Ota City Industrial Plaza (PiO) (in front of Kinkyu Kamata Station)

To visit this exhibition, complete the online application form at the organizer website: <http://www.open-networks.jp/>

## Report of Exhibitions & Seminars

### Report of AIMEX – AUTOMATION WORLD 2014

The MMA participated in AIMEX – Automation World 2014 held in Seoul, Korea, for four days from Mar. 4 (Tues) to 7 (Fri), 2014.

Many people visited the MMA booth every day during the exhibition and showed a great interest in the MMA activities and the MECHATROLINK demonstration panel. This year, the MMA presented the concept of the system speed-up, compactness, and high-accuracy realized by adoption of MECHATROLINK-III, and showcased panels that show an entire MECHATROLINK network system and the advantages in adoption of MECHATROLINK. The MECHATROLINK compliant products developed by local MMA member companies were displayed and favorably received.

Additionally, the MMA organized its seminar during the exhibition to deepen the understanding of MECHATROLINK. During the seminar, the General Secretary of the MMA gave a lecture to celebrate 10 years of the MMA.

During the four-day exhibition, the counted total number of visitors to the MMA booth was 1,150 and 26 new members joined the MMA.

The MMA will actively promote the use of MECHATROLINK-III in Korea.



MMA booth

### Report of MECHATROLINK Seminar 2014 in Taiwan

The MMA organized a MECHATROLINK seminar in Taichung, Taiwan, on March 21 (Fri), 2014.

This was the 5th seminar in Taiwan. The participants included not only MECHATROLINK users but also many people who are interested in MECHATROLINK.

The seminar started with welcome speeches by the MMA General Secretary and the MMA Taiwan staff, which included introduction of the MMA activities and the MECHATROLINK features and network system implementation examples. The respective representatives from NEXCOM International Co., Ltd, Advantech-LNC Technology Co., Ltd, and ADLINK Technology, Inc., then gave lectures.

In the seminar room, eight MMA member companies displayed their MECHATROLINK compliant products for demonstration and explained each product. Thus, the participants could really appreciate the products and directly ask for detailed information on each product. The seminar ended with a great success.

The MMA will actively promote the use of MECHATROLINK in Taiwan.



Seminar

### Report of SEMICON SINGAPORE 2014

The MMA participated in SEMICON SINGAPORE 2014 in Singapore for three days from April 23 (Wed) to 25 (Fri), 2014.

It's the first time for the MMA to participate in this exhibition. The MMA displayed and demonstrated a variety of MECHATROLINK compliant products at its booth. Many visitors took their time in closely observing the excellent MECHATROLINK connectivity in a multivendor environment for demonstration. The activities of the MMA and the advantages in adoption of MECHATROLINK were introduced as well.

During the 3-day exhibition, the total number of visitors to the MMA booth exceeded 750 so that the booth was always crowded. The MMA will continue to make all our efforts to further promote the use of MECHATROLINK in ASEAN countries.



MECHATROLINK demonstrations

## New MECHATROLINK Products

### COMIZOA “COMI-LX530 (MECHATROLINK-III)”

#### Features

- PCI based Motion control board for YASKAWA’s Field Network, MECHATROLINK-III
- Synchronized control of maximum 16 axes
- Transfer Speed : 100Mbps ( Ethernet Physical Layer technology )
- Control Interval : 1ms
- Machine I/O : LTC, EMG, ORG, EL, ALM
- Isolation of between Machine I/O and MECHATROLINK-III Communication line

#### Inquiries

#### COMIZOA CO.,LTD.

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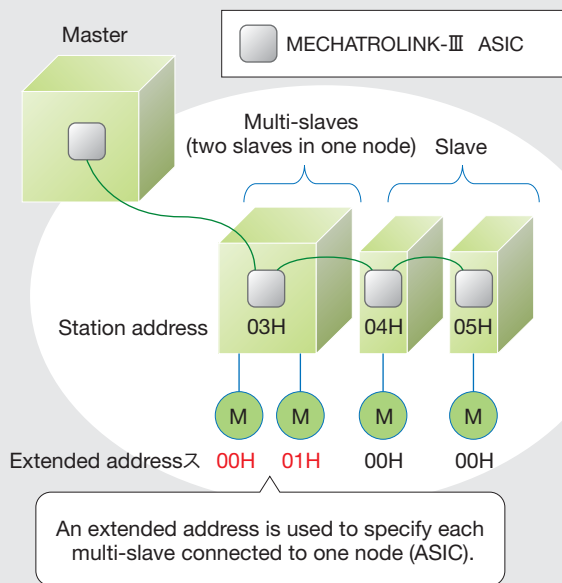
COMI-LX530

#### Column MECHATROLINK-III Multi-slave Function

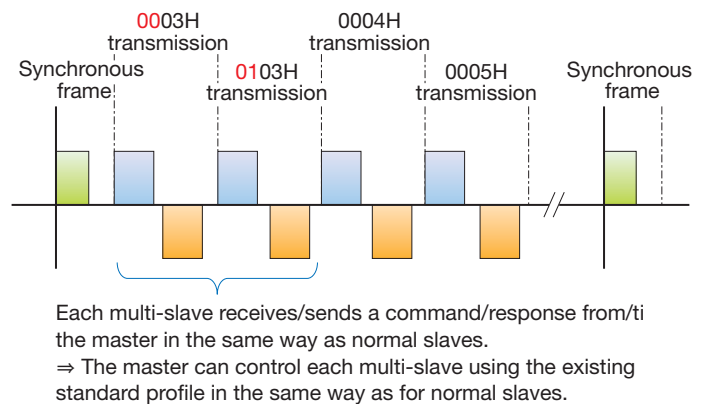
The MECHATROLINK-III compliant slave ASIC is equipped with the multi-slave function. The multi-slave function controls multiple slaves with a single ASIC.

Each slave connected to a single ASIC (called multi-slave) is

specified with a unique station address so that the master can directly communicate with in the same way as with normal slave without considering the slave connected ASIC.



#### Command/response transmission



The exclusive access driver is required to use the multi-slave function. For information on the access driver exclusive for the multi-slave function, access the MMA website: Point the Download menu, select Technical Document from the pull-down menu, and then download the MECHATROLINK-III (manual no. MMATDEP030A).

#### Editor's Comment

The new fiscal year started. During week-days, I'm busy preparing for exhibitions and events that are organized nearly every month. To refresh myself, I try as much as possible to spend my week-ends by cleaning my house, going out with my family, or doing nothing. We can enjoy various seasonal events in Japan. But during the rainy season, we don't feel like going out. And I was not an exception. However this year, I will change myself and go out, no matter if it's rainy, to retrieve my childish innocence. There may be new and exciting discoveries. Written by Hiranuma.

#### Inquiries

For questions about joining MECHATROLINK Members Association and other inquiries, please contact the MMA.

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