

To the press and whom it may concern

May 8, 2018
MTES Co., LTD
Altiux Innovations

Joint development of IoT platform supporting multi-communication by MTES and Altiux Innovations

~ Demonstration unit to be exhibited at Analog Devices' booth in "IoT/M2M Expo" held from May 9 to 11 ~

MTES Co., LTD (location: Chuo-ku, Tokyo, Japan; Representative: Managing Director Takaro Harada, hereinafter MTES) specializing in IoT technology development and Altiux Innovations (location: Shibuya-ku, Tokyo, Japan; Country Manager: Keisuke Nakagawa, hereinafter Altiux), Indian company engaged in entrusted development of software, jointly develop multi-devices for IoT communication that can support diversifying IoT (Internet of Things) communication networks such as mobile phone networks and other various radio communication networks. This time, "Structural Health Monitoring System" that detects tilt of bridges will be jointly exhibited at the "IoT/M2M Expo" (at the Tokyo Big Sight from May 9 to 11, 2018).

■ Constrained development of devices, etc. due to influence of diversifying IoT communication methods

IoT communication methods are increasingly becoming diverse with the mixture of mobile phone networks such as LTE and 3G/4G communication and radio communication networks such as 920MHz and 2.4GHz bands. There is nothing wrong under the environment where information from various sensor terminals connecting to networks can be sent to

cloud systems and the like through mobile phone networks. Under the environment where mobile phone networks are unavailable, however, information stored in sensors has to be sent to communication devices serving as a gateway via radio communication networks such as 920MHz band as a first step. As mobile phone networks and radio communication networks are becoming diversified day by day, communication networks, sensor terminals, and gateway devices should be newly developed for each IoT system to be established. Issues of securing time, cost and personnel for such development have become a burden for business operators.



<Jointly exhibited demonstration unit of bridge>

■ Integration of MTES's signal processing algorithm and Altiux's IoT communication system supporting multi-communication

MTES obtained the patent for the "remote communication system" using unique signal processing algorithm jointly with JR East Consultants Company and has developed energy health monitoring systems and monitoring camera systems for buildings, commercial facilities, etc. Altiux is offering service in more than six countries around the world with its strength in one-stop development of complex IoT system design ranging from embedded technology to internet technology, cloud analysis and design and application development. Meanwhile in Japan, Altiux formed partnership with Analog Devices, Inc. (hereinafter ADI) and developed IoT software for the demonstration experiment, etc. of ADI's Smart Agriculture IoT system.

The goal of the joint development this time is to create highly versatile IoT platforms by integrating MTES's signal processing algorithm and Altiux's IoT communication systems supporting multi-communication.

MTES and Altiux will jointly exhibit "Structural Health Monitoring System" that detects tilt of bridges at ADI's booth in this Expo. This system uses ADI's 3-Axis MEMS Accelerometer provided to MTES.

■ **Exhibit overview**

- Exhibition title: 7th IoT/M2M Expo Spring
- Dates: May 9 (Wed) - 11 (Fri), 2018
- Venue: Booth No. West 7-48, West Halls 2F of Tokyo Big Sight
in Analog Devices, Inc.'s booth
- Official Web site: http://www.m2m-expo.jp/Home_Haru/

MTES and Altix will complete the joint development by the end of 2018 and will expand business of IoT platform, gateway and sensor node development in more than ten countries around the world while aiming at sales of approx. 28 billion yen in FY2021.