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To the media

Kanagawa Institute of Technology
Smart House Research Center
Director of the center Masao ISSHIKI

A Cooperation with companies to establish HEMS (ECHONET Lite) Certification Center
~Development of equipment certification test emulator and HEMS development support kit~

We at Kanagawa Institute of Technology, Institute for Innovation in Engineering Education Research, Smart House Research Center in Atsugi, Kanagawa, (Director of the center: Masao ISSHIKI) are trying to make an environment to support equipment certification of ECHONET Lite standard, which is an official standard interface by HEMS.

As a part of this effort, the development of the compliant standard emulator for the test system and the free Software Development Kit (SDK), was entrusted to Nissin Systems.

Moreover, Sony Computer Science Laboratories, Inc. also cooperates in the development of the free Software Development Kit (SDK)

Smart House Research Center will open the HEMS (ECHONET Lite) Certification Center in the end of November 2012. (<http://sh-center.org/en/>)

The Ministry of Economy, Trade and Industry (METI) is preparing the location of the Certification Center with the help from universities which possess the needed skills concerning the Smart Grid/ Smart House. METI tries to drive the international standardization of the main energy management system of Smart House. Kanagawa Institute of Technology has been trusted with the Smart House International Standardization Research Program (FY 2011 Subsidy for Next-Generation Energy and Social System Demonstration Projects <Connection and Control Technology Research Program for Energy Management System Standardization>).

Nissin Systems has been deputed to develop a compliant standard emulator for maintenance of the interconnectability test environment, and the free Software Development Kit (SDK) , that will ease the development of HEMS equipment for the new operators.

Moreover, Sony Computer Science Laboratories, Inc. also cooperates in the development of the free Software Development Kit (SDK)

◇ Maintenance of the HEMS Certification Center

Till now, the certification test of the HEMS (ECHONET Lite) equipment needed much time and money as well as companies' cooperation to test interconnectability.

Because of these reasons it was difficult for small and medium enterprises to have their equipment certified (interconnectability test). In order to find a better solution and offer new possibilities, the Smart House Research Center is building a Certification Center to provide an environment to test the equipment.

We will cooperate with ECHONET Consortium which has the official standard interface to develop the design of test specifications and test system.

◇ Maintenance of the free development support kit

The Development Support Kit is a HEMS development support software aimed to support the companies

that lack experience in making equipment with ECHONET Lite.

Companies that want to create equipment or services can use the Development Support Kit for free. This will let many companies create equipment or services more quickly with a greater possibility of accelerated promotion.

◇ Future plan

We plan to make a test opening of the HEMS (ECHONET Lite) Certification Center in the end of November 2012 and officially open it the end of February 2013, after a few months of careful monitoring.

We will gradually start to publish or use the free development support kit from December 2012 to February 2013.

Kanagawa Institute of Technology
Smart House Research Center

Director of the center Masao ISSHIKI (professor, ECHONET Consortium Fellow)

In 1982, he graduated from Tokyo Institute of Technology Graduate School of Science. He had worked for Toshiba Corporation and engaged in new technology development and new business development for 30 years. He launched the “Feminity Series”, which is the first IT system in the world. In 2008, he was appointed as the ECHONET Consortium Steering Committee chairman (present: fellow), in 2009 he started the position of a professor at Keio University and the International Standard W3C Site Manager, and in 2011 has begun teaching at the Kanagawa Institute of Technology, and been appointed to the Steering Committee W3C, and the position of Task Force Chairman of HEMS, Ministry of Economy, Trade and Industry.

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