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GUVERNUL ROMÂNIEI



Instrumente Structurale
2007-2013

Framework for Service Composition Based on Ontologies for the Aggregation of Knowledge and Information for Intelligent Buildings (FCINT)

Sponsored by the European Fund for Regional Development and the Government of Romania

Issue September

2011

Project Highlights

The FCINT project, co-sponsored by the European Fund for Regional Development and Romania's Government (ID551, cod SMIS-CSNR 12038), is hosted by the Polytechnic University of Bucharest and directed by the U.S. Professor Wei-Tek Tsai from Arizona State University.

FCINT is in its fifth quarter of funded industrial research and experimental development. FCINT results to date have been reported quarterly to Romania's National Authority for Scientific Research and presented at the 18th International Conference on Control Systems and Computer Science (Bucharest, Romania: May 24-27, 2011) and at the 1st FCINT Workshop (Busteni, Romania: July 28-29, 2011).

The 1st FCINT Workshop was organized by the FCINT team, with the support of the PUB Faculty of Automatics and Computer Science and Romania's National Authority for Scientific Research. Guests included PUB research faculty from other departments, whose expertise overlaps the areas of intelligent buildings, energy, and process optimization, as well as industry experts from Johnson Control, R&S Import Export, Siemens, Teletrans, and UbiSoft.

The 1st FCINT Workshop included paper presentations and round-table discussions that focused on the development of an intelligent system for building management using cutting-edge technologies based on service-oriented architecture and efficient energy-saving policies.



*Round-table discussion at the 1st FCINT Workshop.
Busteni, Romania, July 28-29, 2011*

The industry experts expressed interest in the FCINT research and development processes and results for possible applications and business collaborations.

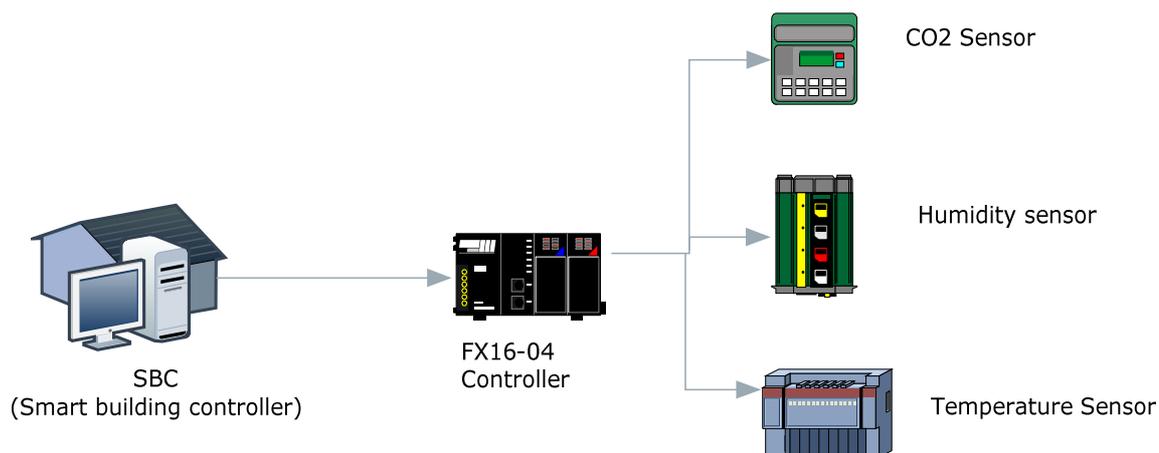


FCINT Collaboration with Industry

Integration of Johnson Controls Donation By Catalin Chera

During the first quarter of the FCINT project, the FCINT team started a dialog with major suppliers of equipment that is relevant to web-based facility management, the purpose being to integrate in the FCINT project the latest technologies and to develop a facility-management system that is in sync with the industry trends and the market needs and demand.

As announced in the previous issue of our Newsletter, **Johnson Controls** donated to the FCINT project the following devices: FX16 Master Controller, Temperature Sensor, CO₂ Sensor, and Humidity Sensor. The donated devices have already been integrated in the FCINT-designed system. They make it possible to collect information from the environment (e.g., temperature, moisture, CO₂) that feeds into operation policies.



The FX16 Master Controller uses the BACnet standard as a communication protocol, which allows for easy connection with the Smart Building Controller (SBC), to which it conveys the information collected from all sensors attached to it. The FCINT team is in the process of developing operation scenarios using information from a variety of environment sensors. The simplest example would be maintaining a constant temperature in a building over a certain period of time.

The equipment donated by Johnson Controls enables us to develop and test the software using current technologies available in the marketplace. This approach has the benefit of surfacing integration and operation problems early in the software development process, which we can address and resolve faster than in an experimental environment completely built by researchers.



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FCINT Info

FCINT project website: <http://www.fcint.ro>

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DM &CC Sep. 2011