



21CR Project 611-30050

## **Automated Integration of Real-Time Information Into Building Management Systems**

Updated 17 April 2003

### **Objective:**

The overall goal of this project is to facilitate practical, reliable use of predictive, real-time information as inputs to building management system algorithms. To support this goal, research is required to:

1. Identify the types of information that are most valuable to building owners and managers;
2. Investigate comprehensively and document the information currently available for use in building management systems;
3. Verify the reliability of such information and recommend methods to accredit the information as well as its providers;
4. Assess the existing methods to automatically retrieve and utilize such information;
5. Characterize the equipment required to implement automated integration of the information; and
6. Demonstrate the feasibility and benefits of using such information in building management systems algorithms.

### **What information/items will result from this project?**

The research will provide information on the types, locations and providers of real-time information suitable for use in building management system algorithms and the methods that facilitate automated retrieval and integration of such information. It will also provide recommendations for the accreditation of real-time information and information providers and identify traditional and evolutionary strategies that can utilize such information.

### **How are the results likely to be applied?**

The results will lead to the commercial development of real-time information integration products by 'e-commerce' firms and manufacturers of building management systems. It is also likely that the results will be applied to the development of real-time information sources by third parties both related (inside) and unrelated (outside) to the HVAC&R industry.

### **Research Subcontractor:**

Geomet Technologies (Principal Investigator: Mark Stunder)

### **Status:**

Project was concluded in the second quarter of 2003 and a final report approved for release. The final report is available to download at no cost from the ARTI website.

**Responsible 21CR Subcommittee:** System Integration