



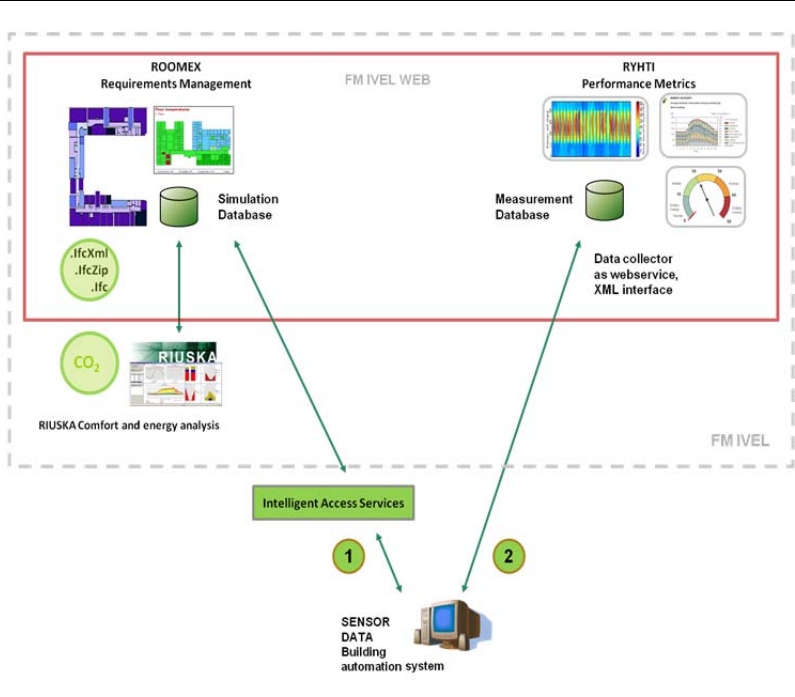
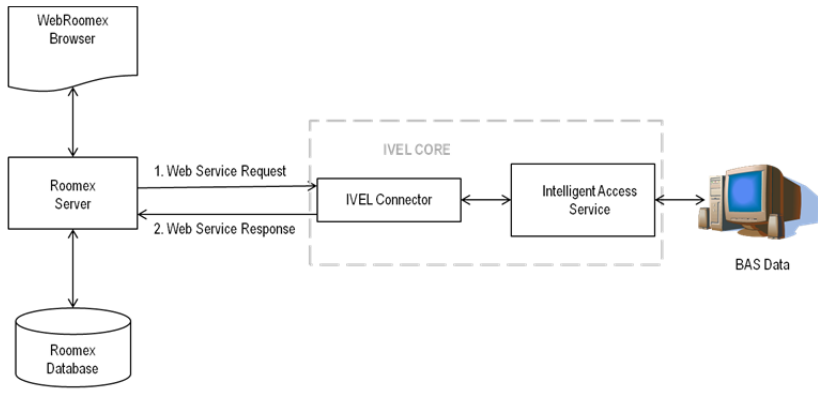


<p>PROJECT: ICT Platform for Holistic Energy Efficiency Simulation and Lifecycle Management Of Public Use Facilities</p>	
<p>DELIVERABLE TITLE: Web service and interface client for interoperable energy management support</p>	<p>Deliverable Number: D 6.2 (public)</p>
<p>WORK PLAN: The objective of the Deliverable 6.2 “Web service and interface client for interoperable energy management support” is to describe the work performed in task 6.2, which is the development of the data interface specification and prototype web services to integrate measured sensor data collected by building automation systems (BAS) with the tools of the Facilities Management module of the Integrated Virtual Energy Laboratory of HESMOS.</p>	<p>Deliverable Main Authors: Tuomas Laine, Granlund Francisco Forns-Samso, Granlund Eino Kukkonen, Granlund</p> <p>Co-Authors: Marie-Christine Geißler, BAM</p>
<p>EXECUTIVE SUMMARY: Deliverable D6.2 presents the developed web services and data interface clients for energy related facilities management. The issued public report is complementary to the software development, which is the actual deliverable of task 6.2. It presents two use case scenarios that integrate sensor data with FM tools.</p> <p>The first part of the report provides a description of the two use case scenarios of utilizing web services to transfer Building Automation System (BAS) data to requirements management of thermal conditions and monitoring of energy related system performance.</p> <p>The second part introduces the advantages of utilizing web services as the method to transfer data and describes the data transfer procedure into the energy requirements management and monitoring of energy performance management metrics.</p> <p>The third part presents the involvement of a third party by testing the developed data interface before the FM GUI is ready. A separate practical example was used with an existing BEQ visualization tool prototype developed in the earlier EU project BuildingEQ.</p> <p>The report concludes with the tasks accomplished in this deliverable and the importance of integrating BAS data with FM tools for energy efficiency management.</p>	<p>Deliverable Partners:</p>   



Description of the data transfer in the two use case scenarios



Web services use between FM IVEL and IVEL core in the use case 1

In order to cover applications for new and existing buildings that utilize BAS systems, two use case scenarios were developed that integrate sensor data with FM tools.

Use Case Scenario 1 – The first use case supports requirements management of energy related thermal conditions. The typical users include tenants, end-users and facility managers. Measured sensor data for specific time intervals will be provided for as-required against as-measured comparisons regarding spatial thermal conditions.

Use Case Scenario 2 – The second use case supports monitoring of energy related system performance. The typical users include building owners and facility managers. BAS data will be transformed into performance metrics by comparing actual measurements with predetermined targets.

The deliverable D6.2 contains the specification of data transfer requirements to be utilized by WP 4.

TAGS:

Energy-efficient facilities management, web services, building automation systems, energy monitoring, life-cycle, IFC

HESMOS is a 36-month project that started in September 2010 and comprises a Consortium of one university and five industry partners.

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