



CEAM[®] CWSmart-D

Web Based Professional Network



WEB INTERACTIVE MONITORING & MANAGEMENT SYSTEM

- ✓ Scalable and extensible global solution
 - ✓ Support sensor and I/O interface modules
 - ✓ Powerfull and configurable alarm management
 - ✓ AIR Quality Control
 - ✓ Lighting management & HVAC Conditioning
 - ✓ Web-cam video acquisition
 - ✓ Transport & loan real time monitoring
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- ✓ Alarm management with instant light and sound notification + Email + SMS + Voice
 - ✓ Web data display client without any software installed, only web browser
 - ✓ Data Acquisition on existing networks also internet - intranet - wireless
 - ✓ Statistical analysis module of acquired data
 - ✓ Modular application with SQL Data Base
 - ✓ Accessory package for management maintenance e calibration
 - ✓ Single solution for still and moving acquisition also with GIS tracking

AREA MUSEUM
Application Note



FaciLINK System
MUSEUM



Professional Digital Architecture

Support Wired & Wireless Ceam Devices end Sensors
It also supports connection to existing networks

UK

CEAM CWS FACILINK represents a real technological evolution that makes easier and safer the creation of professional infrastructures aimed to the acquisition of environmental data up to the management of interactive monitoring of whole museums, exhibitions and historical rooms. There is also the possibility to put the focus on the single case or on the single work of art. The system (extremely flexible, scalable and modular) is designed inspired by the logic of the famous Lego bricks, so exactly like the Lego bricks, using the CEAM system it is possible to start by creating a micro-system of local acquisitions for the management of a few variables. Then, if necessary, you can continue to develop the system up to the all museum management or even whole and large archaeological areas.

However, the investment is just in what is needed and nothing more, with no waste or compromise.

The system is also open to third-party tools, but it can be composed by Hardware and Software all produced by the CEAM Group to be in full compatibility as a quality assurance. Differently, most of other companies do not produce everything by themselves so they could have significant functional risks and limitations of compatibility because of the need to compatibilize things that have not been designed to operate together.

Software development goes together to the development of everything else, with lots of functions in both way Hardware-Software to always get the most. The system provides a wide range of electronic and digital sensors ranging from the basic measures of temperature and relative humidity up to remote temperature measurements for monitoring artifacts that cannot be touched. All of them prevent the

We also produce many other important sensor that can detect lots of important physical variables, like the innovative VOC for the indoor air quality, it can monitor in real time the impact of visitors or the presence of contamination. We also produce vibration, motion and strain sensors but also sensor for the oxidation control and much more.

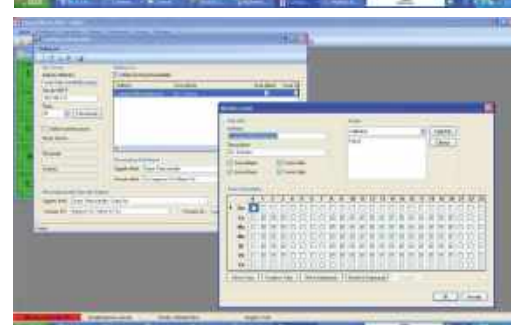
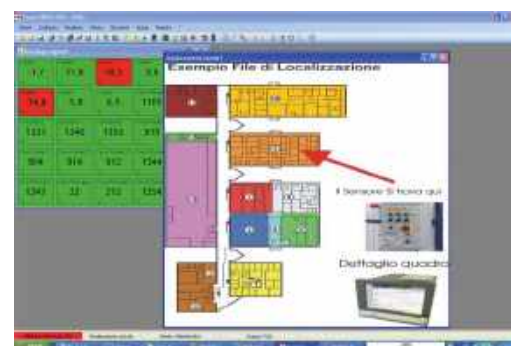
In addition to the various sensors, an extensive range of interactive modules easily applicable in ability to interact with everything related to the Building management, from lighting management to interactive air conditioning and air exchange other. All our sensors and modules are produced wired and wireless both way.

Moreover, the software that makes management and interaction work is the powerful web platform IOT CEAM CWS that allows the interactive management even through easy synoptics, making it extremely intuitive even by non-expert staff. Beyond that, it also gives basic capture and storage capabilities and representation of the collected data, statistical analysis in graphic and digital mode.

There are many security features like the powerful alarms management which is completely customizable, to prevent false alarms made by irrelevant transitory phenomena.

Moreover, the notification via email and SMS helps you to keep tracking. The possibility to combine instrumental monitoring with webcam network standard makes even more effective the control, especially considering the web monitoring that can be operated from any location or network without any software to install, minimizing operating and maintenance costs.

SOME KEY PHOTOS ABOUT CWS SOFTWARE



Notifica Allarmi & Stati



SMS



EMAIL



WEB-CAM



LIBERO ACCESSO VIA WEB PROTETTO

Simplified Example About the Ceam CWS Museum Facilink System

3D Synoptic Chart with dropdown details - Easily achievable with free instrument



SOME GOOD REASONS TO CHOOSE IT

- ✓ **Intuitive system, extremely easy to use even by non-technical staff.**
- ✓ **Flexible modular solution - Easy to install and low implementation costs - "Tailor made" solution**
- ✓ **Absolutely independent system from showcases manufacturers or specialized exhibition stand**
- ✓ **Powerful and continuously developing system - Professional performance with lower costs than closed and non professional software**
- ✓ **"SMARTPHONE MOBILE & TABLET" Completely supported Full Compliance ©MS MOBILE - ©IOS - ANDROID**
- ✓ **High safety and quality monitoring and remote control, typical of high criticality environments**
- ✓ **Temperature & humidity acquisition with open system for any types of measurements, including process and monitoring**
- ✓ **Accessory packages for integrated management of functions like: Remote control - Maintenance - Guided Procedures Management**
- ✓ **Modular and scalable system that optimize the investment, buying only what you really need**
- ✓ **Possibility to "web pattern development" without limits to other acquisitions, adapting the system to any mutation**
- ✓ **Vertical reduction of commissioning cost thanks to the support of existing shareable infrastructures.**
- ✓ **Possibility of creating AD-Hoc hybrid structures, both wired and wireless**
- ✓ **Latest technology wireless digital sensors - CWSmart-D - LORA-Wan - LORA-C - International standard compliance**
- ✓ **Wide range of Ethernet adapter and gateway modules - Industrial WiFi**
- ✓ **System opened to third-part devices acquisitions**
- ✓ **Reduced maintenance costs, totally WEB based system that not require any installation's program on client PC**
- ✓ **Completely free management and executable directly by user**
- ✓ **High level of customization - Free synoptics - Wide range of monitoring tools**
- ✓ **Possibility of using Web-Cam**
- ✓ **Wide range of professional services to support staff training , management and maintenance**
- ✓ **Continuous evolution of New sensors, instruments and interfaces**
- ✓ **Quality & Flexibility by CEAM**

THE MANAGEABLE VARIABLES

Temperature - Humidity - Dew-Point - Oxidation - Vibrations & Earthquakes - Deformation - Quality Air - Oxygen Gas Concentration - Co/Co2 - Contaminants etc. Energy (Distribution - Electrical Consumption - Gas - Air). Presence Monitoring - Noise - Light & Radiation - Radiation. Logical Events (Opening Doors - Maintenance - Hours Exposure). Counts - Direct/inverse totals even partial - Interactive management local integers - Showcase - Works. Visualization and interaction through Web Cam & Vision Systems artificial. And much more...

OPERATOR BENEFIT & SYSTEM INTEGRATOR

No investment on the development system, software incorporated it by itself. Development of synoptics and documents by free standard tools. Ability to manage and view common Web Cam even if they are already present. No hardware protection device of the software for maximum safety of functionality. No royalty to pay for the possible extension of the system to new variable to be acquired.

MAIN FEATURES FOR MUSEUM

Differentiated access for Administrator - Users - Maintenance - Calibration - Automatic log management of all access over time. Group management with user association. Utility thermal probe hysteresis to avoid temporary false alarms. Plug&Play modules for Trend - Digital - Alarms - Statistics - Atypical special visualizations. Mathematical package on each channel for performing calculations and visualization conditioning. Freely configurable display desktop. Alarm notification via Email - SMS - Voice alarms by a single scheduling system.



ADDITIONAL FEATURES

CWS is compatible with the CEAM GIS platform (sat tracking system). For anti-theft and to monitor the transports and international loans geographical location.

Facilink system is not a closed and limited system, but a real new open design philosophy that has the maximum operating freedom at its base, in order to allow the user to always face his needs with the most suitable solution without compromising, including the possibility to manage existing sensors and devices even third-party. The system adapts to the need and not vice versa as usually.

*CWS system (software, sensors & accessories) is constantly evolving. So contact the **Heritage Team** to be able to face your needs faster and quickly identify the easiest and most effective solution!*

