

MeshScape®

Remote HVAC Monitoring and Control

The Wi-EMS Remote HVAC Monitoring and Control Software is a MeshScape®-Compatible Application that Provides Reliable Zone Comfort and Energy Savings to Hotels, Schools, and Commercial Buildings

Features at a Glance

- Remote visibility and monitoring of all MeshScape wireless sensors and control points
- Temperature set point management for occupied and unoccupied periods maintains zone comfort and economical HVAC energy usage
- Intuitive web-based user interface for scheduling, reporting, and system administration
- Notification of alert conditions
- Trending and analysis of historic performance data (e.g. thermal zone, energy usage, and wireless communications)
- Multi-site comparison and analysis reports

Temperature Set Point Management

The Wi-EMS Remote HVAC Monitoring and Control software provides a full-featured and easy-to-use 365-day calendar scheduling capability to allow for three operation modes:

- Occupied: the temperature is set at a specified point in the normal comfort zone
- Setback or Unoccupied: during off-peak hours, set point is adjusted to reduce wasteful HVAC equipment operation
- Float within Set Limits: sets upper and lower temperature limits between which the zone temperature may float. The limits are set to save energy and avoid the potential adverse effects of high or low zone temperature

Occupancy Scheduling

Occupancy schedules that automate set point changes are password-protected at several levels. Levels permit multiple users to define the schedule in order to include general energy policies and local variants such as extra-curricula or special events. Various profiles can be programmed for each of the three schedule types:

- Normal hours of building occupancy are to provide a comfortable zone environment within the limits of your energy policy
- Vacation/Holiday Setback (unoccupied) scheduling allows all holiday and vacation periods to be set
- Additional scheduled occupancy periods for extra-curricula and special events allow incremental occupancy hours to be set for activities that occur outside normal hours, as defined above

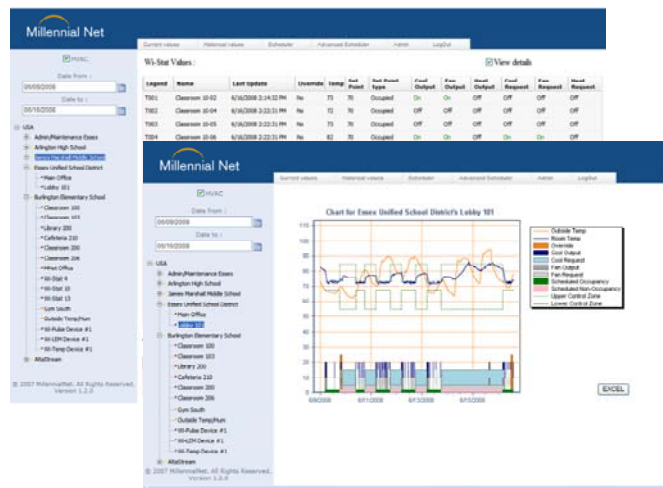
Try it for yourself

Setting up a wireless mesh network is fast and easy. The MeshScape self-forming and self-healing network is designed for rapid deployment and easy operation.

For more information, visit www.millennialnet.com

Remote Monitoring and Alerts

The remote energy management application continuously monitors temperature readings from all zones and highlights zones whose temperature readings are outside the comfort zone. Furthermore, in the event of a zone temperature change beyond the specified threshold value, an alert condition can be generated and delivered to the facility manager via an email message. Alerts will also be generated if wireless nodes go off-line due to physical damage or severe radio frequency (RF) interference.



Set point management, historic trends, alarms, and analysis displays promote energy policy compliance and understanding of energy usage.

User Interface

Suitable for single- or multi-site applications, the Wi-EMS Software provides a user friendly interface that enables the following key functions:

- 1) Facility administrators and other approved users can input and modify detailed occupancy schedules
- 2) IT/network maintenance personnel can monitor wireless MeshScape conditions and configure alert settings
- 3) Dashboard display for administrators or IT/Maintenance personnel provides a quick visual indication of areas that are outside the comfort zone due to override or HVAC maintenance issues
- 4) Trending charts and statistical analysis reports

The user interface is available as a WebClient for single- or multi-site applications. The software is compatible with Windows XP.