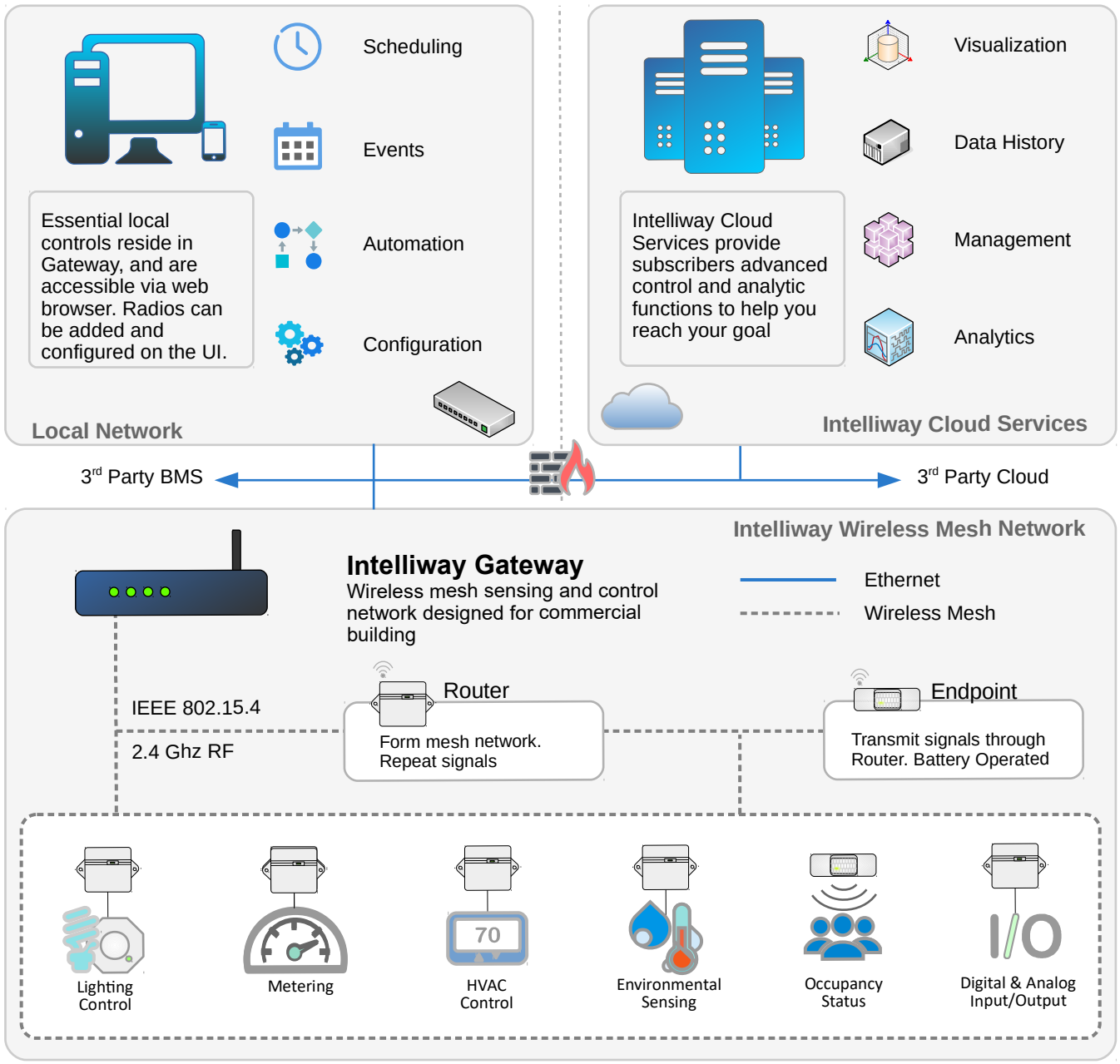
Intelliway

Bringing Intelligence to Wireless IoT



Lighting Control

Intelliway system provides flexible solutions to lighting control needs – On-fixture control; Zone control; Grouping; Daylight harvesting; Occupancy sensing and more

Metering

Our device can count pulses from the utility meters like gas, water, power meters remotely. Selected 3rd party power and energy meters are also supported for measuring power quality

HVAC Control

Wireless system makes it easier to deploy distributed temperature and humidity sensors in order to maintain proper ventilation while saving energy

Environmental Sensing

From temperature and humidity to lighting level and occupancy to water leakage and other monitoring needs, wireless system is an ideal solution cutting costs with no-pain installation process

Occupancy Status

Precise occupancy status is essential for adaptive building control which optimizes building utilization while conserving resources.

Digital & Analog Input/Out

From time to time there are many needs to monitor and control existing pieces of equipment. Intelliway's devices can help you satisfy the needs wirelessly.

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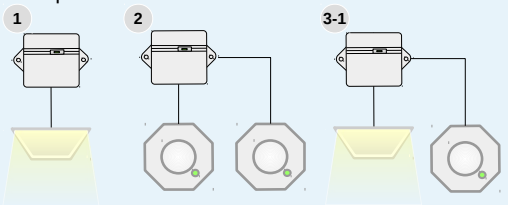
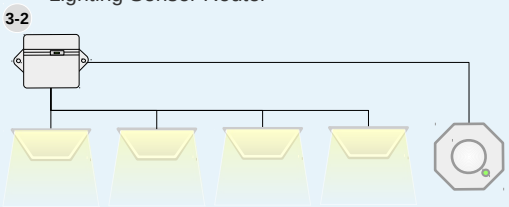
Lighting Control

Intelliway's approach supports multiple LED panels and is scalable from small commerical to large facilities.

Our Router can easily integrate with multiple lighting fixtures and lighting sensors in many ways. For example:



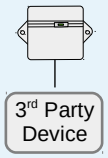
1) On Fixture(s) Control – On/Off & 1-10V dimming
2) Light Sensor Router – Occupancy / Light Level / Daylight
3) Mix mode / Zone control – Fixture(s) Control & Lighting Sensor Router



Occupancy Endpoint

Our battery operated endpoint device makes lighting control more precise by detecting people in the area.

Modbus RTU Integration

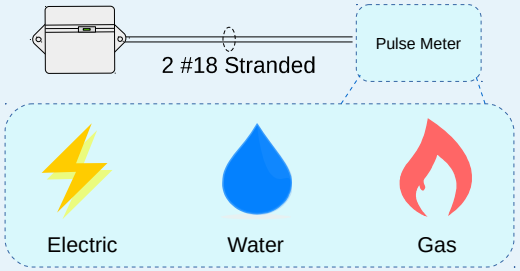


Our Router can integrate 3rd Party Modbus RTU devices, such as Lighting Panels, Shade Controllers seamlessly with our Intelliway Wireless Mesh Network

Metering

Effective control can't be done without monitoring. Intelliway helps facilities collect data from various types of meters without wires.

Each Router has two configurable inputs which can be configured for Utility Meters with pulse output such as Electric meters, Gas meters, Water meters.

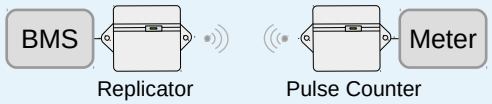


Energy Metering

Intelliway Router supports several different models of energy meters from 3rd parties. Energy data will be transmitted wirelessly and the effort of installation is minimized.

Point-to-Point Pulse Counting

Intelliway's Point-to-Point Pulse Counter/Replicator is a great wireless solution with easy installation that allows you to wirelessly link your pulse meters to an existing BMS or PLC.

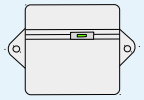


For outdoor locations without power, the Pulse Counter works fine with Solar panel and battery. Contact us for more information.

HVAC control

A properly conditioned environment is essential for productivity. Various types of sensors and controls are required..

For different types of buildings, Intelliway has different HVAC devices:

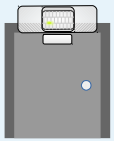


Intelliway Router has two 0-10V outputs (configurable) and can be attach to VAV box for central air systems. With help from our wireless sensors, cost of installation can be reduced substantially

For existing buildings, replacing old thermostats with Intelliway wireless communicating Thermostats is one of the fastest way to save energy and gain visibility to the environmental status of the building.

Temperature & Humidity Based

With sufficient temperature and humidity sensors at right places, building owners would know exactly when and where to supply conditioned air. The Intelliway system has various types of sensors ranging from temperature, humidity to CO2 in order to fulfill the need.



Time & Occupancy Based

Intelliway system helps you optimize HVAC system by providing time and occupancy management tools. While satisfying occupants' need for comfortable environment, unwanted energy waste can be prevented by defining occupancy rules.

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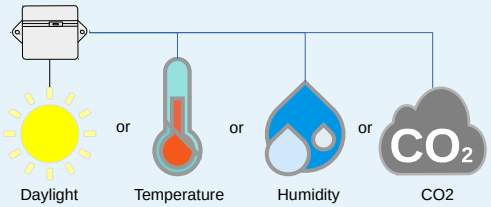
Environmental

The core of intelligent facility is sensor network in order to get feedback and take actions in timely manner.

Roof top unit won't know when to stop compressor unless there is thermistors measuring temperature. Daylight harvesting system won't know when to dim lights unless there is light level sensor. However, cabling adds up cost and limits locations of installation. Intelliway Wireless Sensors helps you avoid the dilemma.

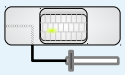
Router as Sensor Hub

While forming the backbone of Intelliway Mesh Network, Router has configurable inputs for different types of sensors:



Battery Operated Endpoints

Endpoint devices are low power and battery operated. You can increase resolution on spatial data by adding more Endpoints into sensor network at ease due to no requirement on data and power cabling



Standard Endpoint supports remote 30K ohm thermistor (10K ohm also supported. Contact us for more info). Installer can place Endpoint device at any location with good signal and then place thermistor at a selected measuring location. This provides flexibility for installers.

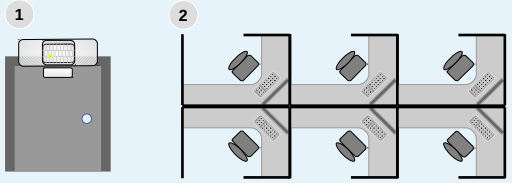
There is another version of Endpoint that has temperature and humidity sensors embedded. This version of Endpoint provides easiest installation experience. Just insert two batteries and place it at right location then it is ready to be discovered on the network.

Occupancy Status

How is the building being utilized by occupants? Intelliway helps you understand occupants' behavior with our Occupancy Sensors

Example: Office

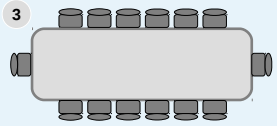
There are many places in an office building you may want to gain visibility to:



1) Door Open/Close Status for additional security and integration with automatic lighting

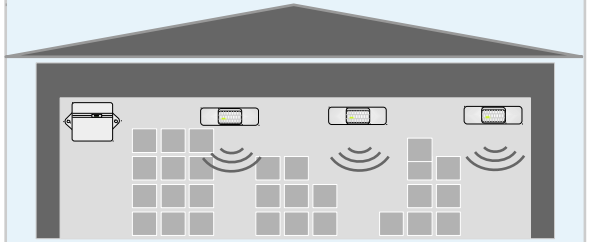
2) Cubicle Status for understanding the rate of building utilization. This is especially useful for shared office spaces

3) Meeting Room / Common Area Status for energy and space conditioning for unscheduled events



Example: Warehouse

Aisle monitoring; activity monitoring; door status; and many other applications

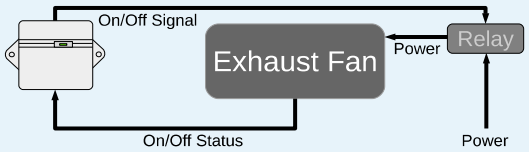


General I/O Network

There are many occasions that old instruments work just fine but you want to manage them remotely and know their real time status.

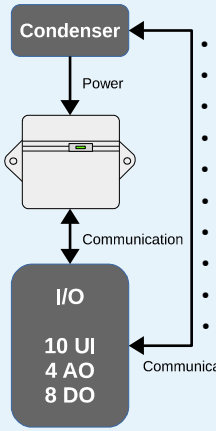
Example: Remote On / Off

Intelliway Router is equipped with to low voltage relays. The following example is a simple way to monitor and control an exhaust fan:



Example: Complex Integration

Intelliway Router supports several I/O modules from 3rd parties. By utilizing 3rd party I/O modules, more complicated integration on remote instrument can be realized. The following is an example implementing Intelliway Router on a Condenser



- Entering Condenser Temp.
- Leaving Condenser Temp.
- Vibration
- Fan Speed Feedback
- Basin Water Level
- Water Conductivity
- Safety Shut Down
- Enable / Disable
- Low Ambient Control / VFD
- Set Point

- All wiring local at the Condenser
- No Serial Bus Communication Wiring

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