

Energy Management System



Flexible and inclusive automation platform

For access, control and monitoring, the future of building automation lies in a networked platform. Rhapsody is Onity's latest web-based intelligent automation platform. Whether it is Wi-Fi, Bluetooth[®], or Zigbee, Rhapsody's got you covered. Rhapsody's innovative technology enables it to integrate with the variety of communication protocols your property already uses. And you will no longer be tied to one communication protocol in your future technology investments.

Three technologies

Rhapsody is designed for building managers and engineers to monitor and control in-room technology. Whether that technology is based on **Wi-Fi**, **Bluetooth[®]** or **Zigbee**, Rhapsody speaks their language. Rhapsody is designed for its flexibility and inclusiveness. It is designed to make installation easier and seamlessly integrate building automation. Take advantage of real time data and custom reporting, depending on your priorities. Take advantage of high-level building views along with granular, individual room control.

Rhapsody also features a mobile application designed specifically for installers, engineered for easy commissioning of your in-room IoT devices. Setup is a breeze because the heavy lifting has been done for you. And finally, Rhapsody's mobile app puts in-room technology control in the hands of residents, no matter where in the world they happen to be. Featuring customized schedules and "Smart Away", for increased energy savings when no one is home.

Simplicity and potential

Retrofitting thermostats in existing properties with Rhapsody thermostats is a superior solution. Rhapsody's Wi-Fi capability makes configuration to the network fast and easy, while making troubleshooting offline devices simple.

Intelligent thermostats such as Aida can operate using a wide range of power relays from 12 volts up to 240 volts with no additional equipment, so Rhapsody is likely compatible with all of your HVAC units.

FEATURES

- Platform accessible from the cloud
- Three technologies: Wi-Fi, Bluetooth and Zigbee
- Rhapsody mobile app for installers and residents
- Highly secure Amazon Web Services protocol
- Backup SSID

BENEFITS

- Access software from anywhere there is an internet connection
- Easily install and commission
- Seamlessly integrate with building automation
- Save on installation using existing Wi-Fi access points
- Data security, vulnerability updates and backups
- Energy efficiency
- Unrented residences automatically revert to property's failsafe SSID

Aida Smart Thermostat

The IoT devices sync with our Energy Management System's occupancy based dashboard, allowing occupants to manage the temperature preferences and saving properties up to 30-45% of their in-room energy consumption. The installation is versatile, customizable and scalable, ideal for retrofit projects.



Flexibility and scalability

Rhapsody devices easily integrate with popular EMS devices on the market today such as smart draperies and smart door locks. Because of this, the platform will remain relevant into the future.

Data security

All the data gathered by the collection of Rhapsody devices is transmitted to the Rhapsody software hosted by Amazon Web Services through a highly secure protocol. Regular checks, security/vulnerability updates, and data backups ensure the ongoing availability of the service.

System updates

The Rhapsody platform provides 24-hour functionality and maintenance, automatic security and vulnerability updates, continual back-ups, data and privacy safety and protection through the use of encrypted protocols and industrial protocols for integrations with third parties.

Energy efficiency and cost containment

HVAC and lighting are responsible for up to 45% of hotel energy usage. The Rhapsody platform controls both direct and indirect costs of the building, saving up to 45% of a property's annual energy expenditure and streamlining day-to-day facilities management functions.

System configuration

The hotelier has access to property data at any time, from wherever they are. One of the main advantages of the Internet of Things (IoT) is its ability to manage big data and parse it into information that will then be the basis for data analysis aimed at improving a variety of processes.

Back-up SSID

Use Case #1

A resident can control their thermostat via Rhapsody Mobile using their own Wi-Fi network. Then, when the resident leaves, the thermostat control automatically reverts to the property's failsafe (or "backup") SSID.

While the property is unrented, the system can continue to monitor the empty area to make sure it is saving energy, like adjusting the settings or resetting the thermostat. When the next guest moves in, they can set up Rhapsody mobile with their personal Wi-Fi network.

Use Case #2

In a perfect world, every installation would happen smoothly, with no glitches or hiccups. The goal is to visit a room once for installation and move on. That said, sometimes system integrators or installers must make changes, updates or corrections. Rhapsody features a Wi-Fi fallback. Therefore, the installer can take advantage of a failover SSID. Let's say there's a unit that does not have Wi-Fi at the moment. The thermostat will attempt to rejoin every few minutes, and also try its failover backup SSID. An installer can use their mobile device to set up a hotspot using the auto created site name backup SSID and then the device will connect to it. Once the device connects it will be online and from the Rhapsody portal any updates to key settings can be pushed down such as a new SSID.

The installer is basically carrying a hotspot down a hallway and reprogramming thermostats quickly.

Wi-Fi supported security standards

- WPA2
- WPA2-Enterprise PEAP