raedius

Raedius Web Console
Smart Device Management Dashboard

YOLINK

raedius

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Raedius [**rey**-dee-*uh*s]
Noun, singular

1. An aggregate of the words "radius" and "antennae", Raedius refers to the singular *radius*, the figurative straight line of an RF transmission, extending outward from the antenna to its extent, but also to *radii*, radiating in all 360 degree directions, to form a circle. The defined region implies complete and comprehensive coverage of everything within the circle.
2. A complete and comprehensive smart device management platform.

At YoLink, by YoSmart, we were the first manufacturer to introduce LoRa® by Semtech® to the residential smart home industry. The innovative CSS (chirp spread spectrum) technology behind LoRa ("long-range" and low-power) brings extreme long-range wireless (1/4 mile open air), extreme long battery life (upwards of 10 years), and economical smart devices to the home and business. Unique features like Control-D2D device-to-device pairing allows for functionality even after the loss of power and/or internet, making YoLink ideal for critical applications, such as water leak detection and automatic water shut-off.

We continue to innovate with product and service offerings such as Raedius Web Console. Raedius, a cloud-based, web browser dashboard, for the management of YoLink as well as third-party smart devices, extends the reach of YoLink products to very large, complex and multi-site applications.

Now, with Raedius, you can monitor, manage, and control your smart systems, including multiple buildings and multiple sites, from a single user interface: your web browser on your computer – from anywhere at any time.

The Problem

You are responsible for managing:

- Systems at multiple sites

- Single or multiple large systems or collections of devices with no convenient or centralized management and control

- Legacy, outdated and non-smart systems or devices that lack desired (smart) features

- Divergent, incompatible systems with no interoperability or integration options

- Systems and platforms with proprietary software or applications that are only compatible with one brand, prohibiting integration with other brands

The Solution

ADVANCED TECHNOLOGY

LoRa-powered long range, superior obstruction penetration, long battery life, device-to-device pairing

EASY D.I.Y. INSTALLATION

YoLink products are designed to be easy to install, set-up and use

INTEGRATE

Integrate with non-YoLink devices via API (Application Programming Interface) or conventional contact-closure inputs and outputs

AUTOMATE

Create *Action Profiles* - automations that perform device actions and notifications, based on your predefined parameters or criteria

VISUALIZE

View real time or historical data and device status in graphical formats to suit your needs

NOTIFY

Raedius was designed to manage the notification of a diverse group of recipients, including staff, security guards, property owners and tenants

Inclusive, not exclusive

Most building special systems manufacturers, such as access control and video surveillance systems, offer very capable applications for their products, but they only work with their, proprietary, brands. Raedius, on the other hand, is designed to be inclusive, and to help you unify divergent and incompatible systems. Our API-based platform allows for the integration of any other device or equipment with authorized API credentials.

Automation, made easy

Raedius provides powerful yet user-friendly means of automating your building systems processes, from unlocking a door at 7:30 AM, to distributing custom audio messages to building tenants via SpeakerHubs. You will be making your building smart (or smarter) in a matter of minutes!

Know Now!

Seconds count. Powerful automation and notification features allow for you to configure Raedius to notify the appropriate people, as quickly as possible. Notify staff, residents, owners, as well as contractors and service companies, depending on the event, time of day and location. Alarms, sirens, speakers (text to speech), phone push notifications, emails, SMS, automated calls, receipt verification, call escalation and live calls, including police, ambulance and fire dispatch, via optional central station monitoring service.

Powered by amazon web services

Amazon Web Services provides banking-level data security and encryption, plus redundancies and back-ups, ensuring Raedius is fast, secure and dependable.

No Internet, No Power, No Problem!

Thanks to Control-D2D device-to-device pairing, some functionality is available to paired devices if the internet is down and even if the power is out!

Why-Fi?

YoLink devices do not connect to your WiFi or directly to your network, making them more secure than a WiFi device, which protects your network.

Wire Less

Leverage existing network equipment and wiring, as Hubs (the internet gateway for YoLink devices) connect to WiFi and/or Ethernet; no special wiring is required!

Hard-where?

Hardware can be expensive, time-consuming to install, can require special skills to install, and can have costly wiring infrastructure requirements. YoLink's minimal-hardware and economical infrastructure, with no servers to furnish, install, no software to maintain, is simply smarter.

Visualize Situational Awareness

The optional Graphics module allows you to view the status of your devices as they appear on site and building floor plans. Interactive device icons and real time status indicators, combined with physical location information, can assist with locating the problem, as well as identifying the cause of the problem and predicting additional repercussions if not resolved.

See things your way
with data visualizations. Whether checking wireless device battery levels, monitoring refrigeration at your restaurants, or temperature in apartment buildings, Raedius allows you to view your historical or live data in the formats you want, so you can manage your facilities like never before!

With Raedius on Duty, Reduce Risks When You

Detect, Protect, & Prevent

Detect, protect against, and prevent flooding and water leaks:

- Multiple leak sensor configurations, for a broad range of flood/leak detection applications
- Multiple water shut-off options, including valve manipulators and motorized valves, for automatic shut-off in the event of leak detection
- Quick detection and automatic shut-off can prevent or limit damage to other areas and floors below
- Water high/low level monitoring is also available. Applications include high or low liquid level sensor, float switch monitoring, and toilet tank monitoring, detection of internal leaks and runaway toilets
- Control D2D Device-to-Device pairing allows for functionality, even with the loss of WiFi, internet and power!

Detect, protect against, and prevent trespassing, intrusion, burglary, theft and vandalism:

- Two door and window position sensors, for indoor and outdoor monitoring of windows, man doors, roll-up/overhead doors, roof hatches, enclosures, lids, man and vehicle gates
- Detect doors/gates left open too long. Prevent unauthorized entry, reduce heating & cooling costs
- Two indoor/outdoor motion sensors, to monitor movement and motion and expand your detection perimeter beyond exterior doors
- Detect unauthorized activity in critical areas such as electric, mechanical, IT closets/rooms, etc.

Popular Applications

- Centralized building-wide water leak detection and automatic water shut-off
- Temperature and humidity monitoring in commercial coolers, refrigerators and freezers
- Temperature and humidity monitoring in multi-family residential buildings
- Door and gate monitoring
- General security and intrusion detection monitoring
- Trash chute door monitoring
- Power fail monitoring
- Legacy equipment/control panel monitoring (contact closure integration)
- Supplemental fire, smoke and gas detection
- Thermostat management
- Physical access control (smart locks)
- Power and lighting automation
- Industrial/commercial process management & automation

Where to Begin?

- Free design assistance and budgetary quotations are available.
- A site survey for signal levels and optimal hub/gateway placement is encouraged, but you can perform the steps of a site survey under our guidance.
- Hub locations are determined by signal level requirements and the availability of power, Ethernet (Cat 5/6, etc.) and/or WiFi.
- Hubs can be powered from an AC outlet using the included USB adapter (or one appropriate for the voltage in your country), from USB power, or from a USB cable connected to a POE (Power Over Ethernet) splitter.
- Redundancies, survivability, ruggedized infrastructure, emergency or UPS power and other installation considerations will be discussed in your personal assessment with one of our smart systems architects.

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