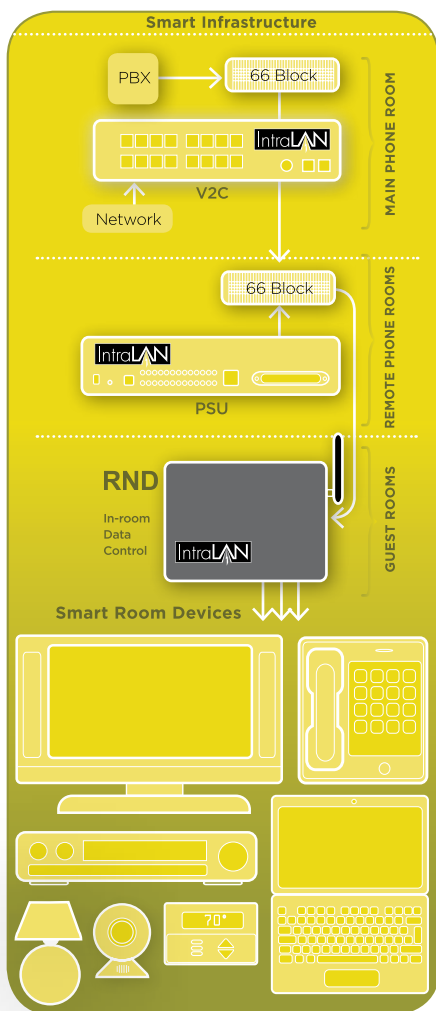## Overview

The Remote Network Device (RND) is the key component to the actual Smart Room Network and provides the Integrated Network Distribution point within the guest room. The RND is the heart of the final point of distribution within the network.

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Smart signal & power processing.

The SmartRoom Network Remote Network Devices (RND) is the intelligent guest room device in the FUSION solution. The RND splits the power and the VDSL signals to provide power to up to four 5V devices and the voice/data signal to the VDSL modem for processing and provides a service enclosure for other smart room components. Key components of the RND include:
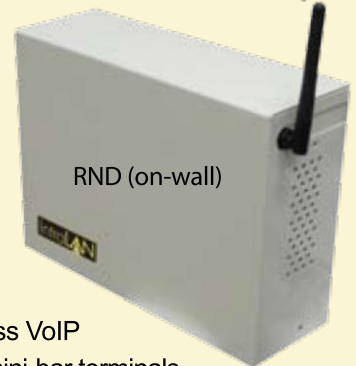
- A Programmable Circuit Board (PCB) with the processing to manage power signaling, distribution and the splitting of power from data
- A modular 5 port Managed VLAN switch (remotely powered from the PSU through the infrastructure), preprogrammed to support complete segregation of all physical ports being served from the RND
- A VDSL modem (remotely powered from the PSU through the infrastructure) which splits voice and data of the VDSL signal and relays it to the appropriate end points within the RND
- Wiring for a complement of external components
- In-room power distribution for up to 4 low voltage devices

Room to grow smart amenities.

A primary design consideration in the RND is the security of the smart room components. The RND offers several enclosures types and options to accommodate tomorrow's amenities.

Optional components of the FUSION RND are similar to those of the RND for all the SmartRoom Network configurations and include, but are not limited to:

- Larger VLAN switches - with preprogrammed VLAN tags to simplify field maintenance
- Remote Power Management devices for supplying and controlling 120V/240V devices
- ZigBee transceivers for system wide control and monitoring of ZigBee compliant devices
- Proprietary communication devices, such as wireless VoIP basestations, or vendor based technology such as mini-bar terminals.
- Wireless access points such as the Jack Pack or other vendors Access Points
- Larger components, such as Set-top boxes; etc. in the larger RND

RND (in-wall)

RND (on-wall)

Flexible with trademarked device anchoring

One innovation in the RND is the Modular Device Retention System™. This anchoring system allows for placing and securing devices against the back wall of the RND in an even layout for more efficient distribution of heat, easier access for troubleshooting on site, and fewer maintenance accidents. This saves both maintenance and replacement costs.