

# VIP-DECT Server One Overview

## Enterprise-wide DECT connectivity at scale

Virtualized IP-DECT Server solution for highly scalable on-site mobility solutions, like campuses and distributed sites, delivered from a central enterprise data center.



Managing a mixed estate of multi-vendor DECT platforms across enterprise networks becomes increasingly challenging from an efficiency and cost perspective. What if there was a way to simplify and centralize DECT Server deployments, that would make the management of an entire enterprise organization on-site DECT mobility needs significantly easier, quicker, and more cost-effective? Meet VIP-DECT Server One from Spectralink.

### A whole new era for DECT Infrastructure

Virtualized IP-DECT Server infrastructure allows you to flexibly connect distributed enterprise sites together, creating a single on-site and multi-site mobility solution.

With our Virtual IP-DECT Server One, you can adapt dynamically to organizational communication changes with instant scalability of Spectralink IP-DECT Base Stations, high-capacity call throughput and availability, and flexibility in hardware platform choice.

### Simplification

The Spectralink Virtual IP-DECT Server One Platform reduces hardware needs and enables new capabilities from consolidated integrations. It is designed from the ground up with a data-center-focused architecture to ease deployments in large, distributed enterprise DECT environments. Virtual IP-DECT Server One allows IT departments to quickly deploy the solution as a virtual appliance on their existing virtual machine or hypervisor environments, which removes the need to incorporate a new separate hardware platform and addresses any IT security policy concerns that come with new hardware.

### Flexibility

The Virtual IP-DECT Server One solution consists of software modules that can be deployed to exactly match the on-site DECT mobility needs of large enterprise campuses and highly distributed estates. Whether it is the number of mobile employees, the number of available voice channels, or the amount of wireless coverage required, the Spectralink VIP-DECT Server One can fulfill your enterprise's current and future DECT wireless mobility needs.

## Features

- Software-only IP-DECT Server Solution designed for VM hypervisor environments
- Delivers high quality secure voice communications
- Interoperable with market leading Call Control /Unified Communications (UC/UCaaS) platforms
- Redundancy makes it possible to deploy a Spectralink VIP-DECT Server One solution as a load- balancing cluster of two servers with automatic failover increasing High Availability
- Provides branch survivability if connection with host UC/UCaaS platform is lost
- Single centralized web portal for administration and maintenance
- Supports deployment within enterprise data centre to fit IT infrastructure
- Supports both LAN sync as well as Air sync
- Upgradable with optional licenses as your business needs grow

## Efficiency

Centralizing virtual IP-DECT mobility networks provides a single common point of control that conforms to enterprise IT security standards and can be centrally configured, managed, and monitored for a reliable and future-proof network solution. Our new Virtual IP-DECT solution features a fast and secure web portal for administration, configuration, and maintenance—making it simpler than ever to manage large DECT deployments across multiple locations.

## BENEFITS

### Scalability as your business grows.

VIP-DECT Serve One enables installation in any data center with the capacity to serve up to 100,000\* users across large campus environments and distributed business sites.

### Optimize resources and reduce workloads.

Manage multiple sites, push new DECT features, add or remove users, and perform administrative functions all from a single centralized web portal.

### Reduce hardware costs.

Add more efficiency and savings to your business by using your current data center servers; consolidate the number of DECT servers needed.

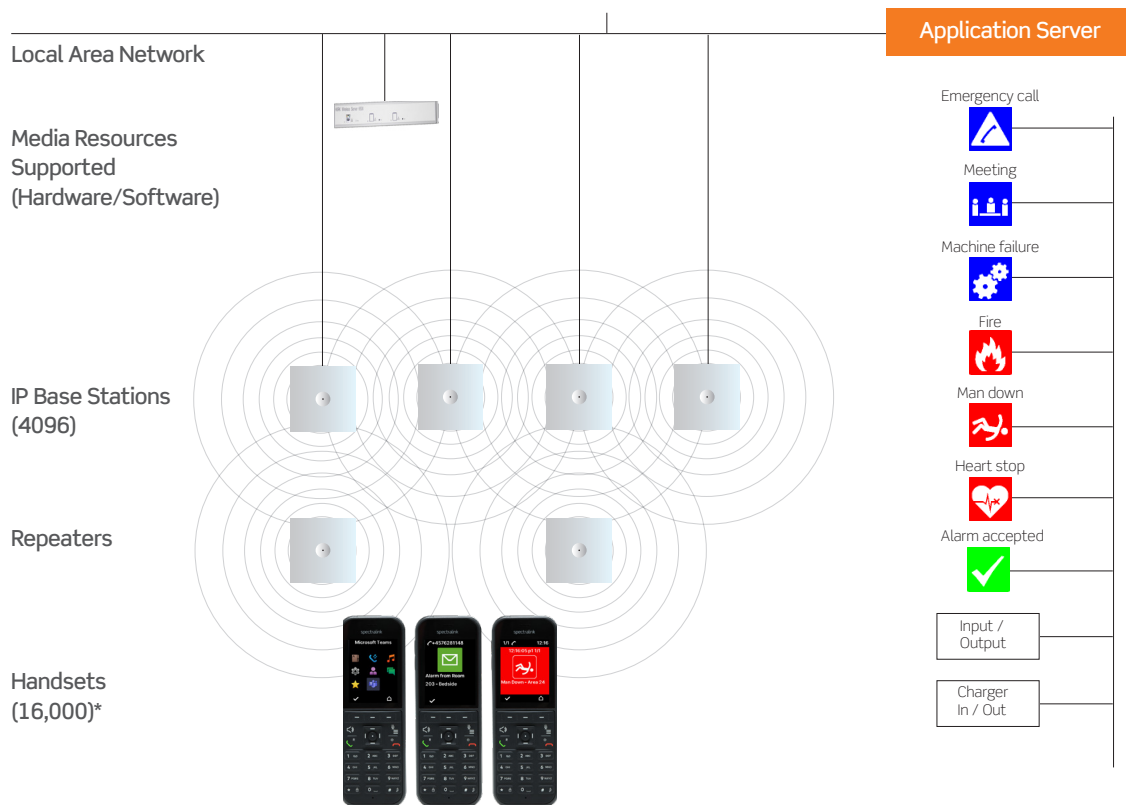
### Reduce maintenance and support costs.

No need to go on site to update firmware; manage your entire DECT network from one location.

\* NOTE: Up to 100K handsets supported when combined with AMIE

## Spectralink Virtual IP-DECT Server One Configuration

### ONE VIP-DECT SERVER



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## Specifications

### Call Control Protocol Support

- Session Initiation Protocol (SIP)

### Application & Messaging Protocol Support

- Broadcast Messaging
- Message Service Functions (MSF)
- XML-RPC
- OAM-REST-API

### SIP VOIP Support

- Basic call
- Caller ID
- Call Hold
- Call Transfer
- Call Waiting
- Music on Hold (MOH)

Note: Additional advanced telephony solution available depending on integration with host SIP-UC/UCaaS Platform (e.g., SIP IP-PBXs)

### Operation And Maintenance

- Single Panel Web UI for centralized administration and maintenance of the entire infrastructure
- Provisioning, maintenance, and supervision of all infrastructure components and Spectralink 7000 handsets in the solution
- HTTP with digest authentication
- HTTPS
- Syslog
- SNMP

### System Architecture

- The Spectralink Virtual IP-DECT Server One is a virtualized system with a SIP integration to the host SIP UC / UCaaS (Call Control Platform), which also controls all other infrastructure elements such as Spectralink IP-Base Stations
- Max. no. of:
  - IP-DECT IP Base Stations: 4,096
  - Simultaneous calls on each IP-DECT Base Station: 11
  - Repeaters on each IP-DECT Base Station: 3
  - Total simultaneous calls supported: 16,384
- A. Using Physical Media Resources (MR):
  - 32 (total 1,024 channels)
  - Max simultaneous calls per each Media Resource (HW): 32 (G.711)

### B. Using Software (Virtual) Media Resources (MR):

- License (in Server): Max 16,384 Channels
- Can use 32 or 128 MR Channel licenses (in any combination) to achieve max 16,384 Channels
- VMR can be deployed as needed (distributed locally or centrally)
- MR Channels are dynamically allocated based on max VMR channels installed in Server
- Registered Spectralink 7000 DECT handsets:
  - Scalable to 16,000

### Supported Codexes

- G.711 A-law and  $\mu$ -law
- G.726 (32 kbps - 4-bit ADPCM)
- G.729

### Networking

- Manual or dynamic host configuration protocol (DHCP)
- Time/Date sync using NTP Protocol

Note: Depending on deployment requirements, IP-DECT Base Stations can be connected over both secure QoS enabled WAN as well as now broadband Internet - supporting hundreds of remotely connected branch sites

### Provisioning

- Configuration
- User data
- Server firmware
- Base station firmware (License required)
- Handset firmware via SUOTA (License required)
- Handset configuration OTA (License required)

## About Spectralink

As an award winner in mobile technology, Spectralink has been transforming the way our customers work and communicate for 30+ years. Through our determination to do extraordinary things, we enable mobile workforces and empower our customers and partners to explore what's next, what's possible. With our enterprise grade, best-in-class mobile solutions, we are with our customers wherever they work, however they need us. Our people, commitment to innovation and our passion are our foundation for success.

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