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.

ONE
VIP-DECT SERVER

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.

Spectralink Virtual IP-DECT Server One Configuration

ONE
VIP DECT SERVER

Application Server

Local Area Network

Media Resources Supported (Hardware/Software)

IP Base Stations (4096)

Repeaters

Handsets (16,000)*

Emergency call
Meeting
Machine failure
Fire
Man down
Heart stop
Alarm accepted
Input / Output
Charger In / Out
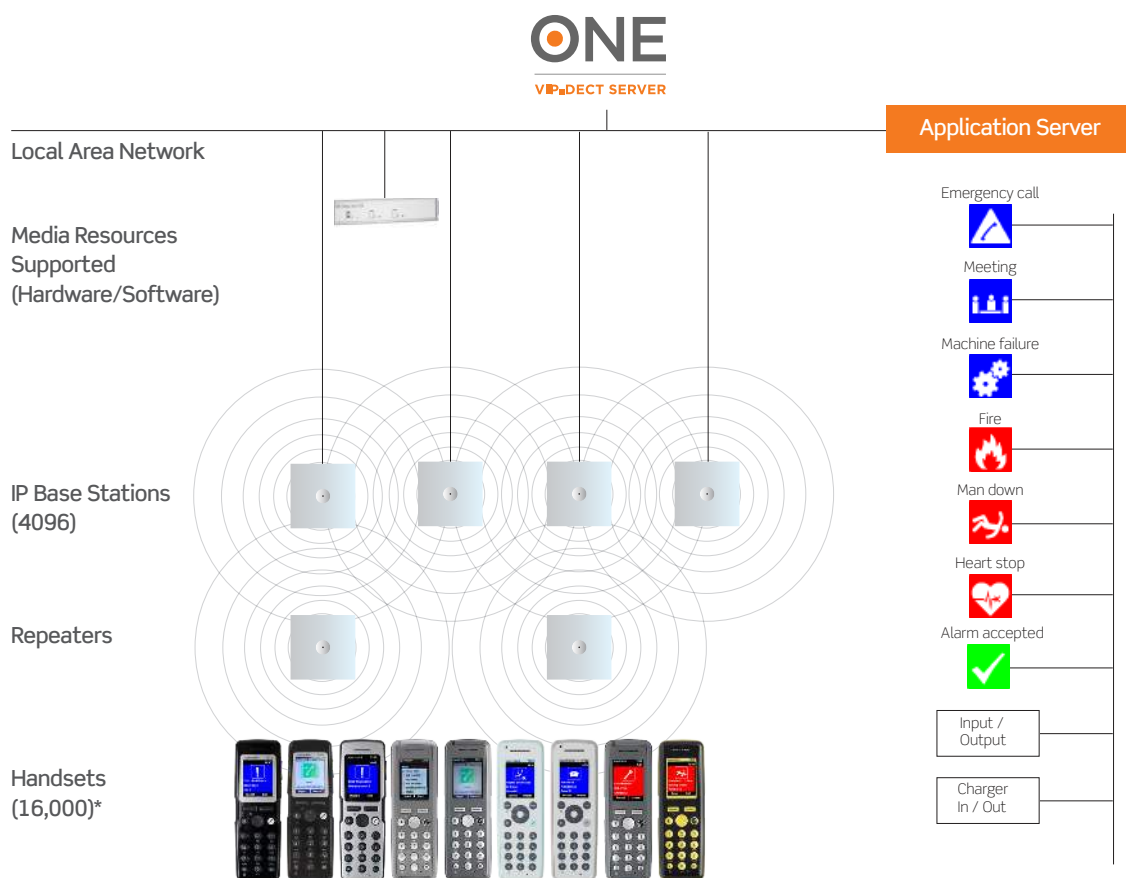
* NOTE: Up to 100K handsets supported when combined with AMIE

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 Codecs

- G.711 A-law and µ-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)

Complete your Spectralink DECT Solution

Optimize your Spectralink DECT Solution with AMIE® Advanced for IP-DECT

A cloud-based solution management platform for IT and Telecommunication Administrators to monitor IP-DECT servers, base stations, and handsets, AMIE Advanced for IP-DECT provides centralized provisioning, detailed analytics of system performance, automated and scheduled tasks, and proactive alerts when the infrastructure needs attention.

Protect and enhance the value of your Spectralink mobility solution with Software Assurance

Spectralink Software Assurance is specifically designed to complement and protect your existing Spectralink DECT solution. Software Assurance entitles you to all available software upgrades, including new features, service updates, and security enhancements to mitigate the risk of data loss/breach over your subscription period.

What's the health of my system?
When do I need to add more capacity?
How do I know if all base stations are still synch'd?
How much are phones being utilized and when?
How do I maintain s/w compliance across servers?
Can I apply the backup of server to another?
Can I automate/ schedule backups?
Can I make bulk changes to servers, base station and phones?
How are my phones performing?

WHAT IS GOING ON WITH MY DECT SOLUTION?

De-risk your investment with Spectralink Professional Services

Design	Deploy
Strategize your path to success. We analyze and assess your needs based on your business goals, end-user requirements, and existing IT infrastructure to start the process. Then we work with you to map out an effective strategy that brings together the right combination of mobile devices, applications, and technology.	Align and activate your solution. We help put your plan into action with a thorough implementation process that includes configuring, implementing, and testing all aspects of your technical environment. We also provide comprehensive training to help prepare and position your employees for mobile success.

Have questions? Spectralink stands ready to help. Vsit us at **spectralink.com** for more information.

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.