VIP-DECT Server ONE

spectralink

SIP enabled IP-DECT mobility with flexible scalability for large enterprises and managed service providers

Offering a multi-fold increase in scalability and flexibility together with a data-center and Cloud focused architecture, the new Spectralink VIP- DECT Server One Platform is designed from the ground up to ease deployments in large distributed enterprise DECT environments reducing hardware needs and enabling new capabilities from consolidated integrations.

ONE
VIP-DECT SERVER

VIP-DECT Server One allows enterprise IT departments and MSPs (Managed Service Providers) to quickly deploy the solution as a virtual appliance on their existing virtual machine/hypervisor environments, whether On-prem or in Cloud, removing the need to incorporate a new separate hardware platform and any IT security policy concerns that come with new hardware.

Massive scalability

By unbundling the software from the current hardware platform's limitations, Spectralink VIP-DECT Server One Platform can handle the massive scalability requirements of multi-national and enterprise businesses distributed across large campus environments – up to 100,000 users*.

As Enterprise businesses unify their IT environments, the fully virtualized VIP-DECT Server One Platform supports and enables installation in a data center or in Cloud - to serve multiple sites on a consolidated, hypervisor based platform, streamlining deployment and giving significant control to enterprise IT departments on how best to deploy and roll out the solution based on their own enterprise hardware & security policies

The Spectralink VIP-DECT Server One is an ideal software-centric enterprise-grade mobility solution for businesses requiring radio coverage over a large or very large area or campus or can be deployed centrally to connect and support hundreds of remote and branch sites over high-speed secure broadband Internet. It is also an excellent choice for business who need to equip a large number of mobile employees with DECT wireless telephony.

Benefits

- 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
- Increases business efficiency by integrating application systems and business processes
- Maximizes employee availability using simple, reliable, and durable handset devices
- Single web portal for administration and maintenance
- Supports deployment within enterprise data center or in Cloud to fit IT infrastructure needs
- Supports both LAN sync as well as Air sync
- Upgradable with optional licenses as business needs grow

The VIP-DECT Server One solution consists of infrastructure software modules which can be set up to exactly match the wireless needs of your large enterprise business needs today and to support any future organizational growth. This makes the VIP-DECT Server One an ideal and future-proof choice for large organizations, enterprises, and fast growing businesses.

One instance of the Spectralink VIP-DECT Server One solution can fulfill in-building wireless telephony needs of up to 4,095 mobile employees plus supports radio coverage with up to 4096 IP-Base Stations.
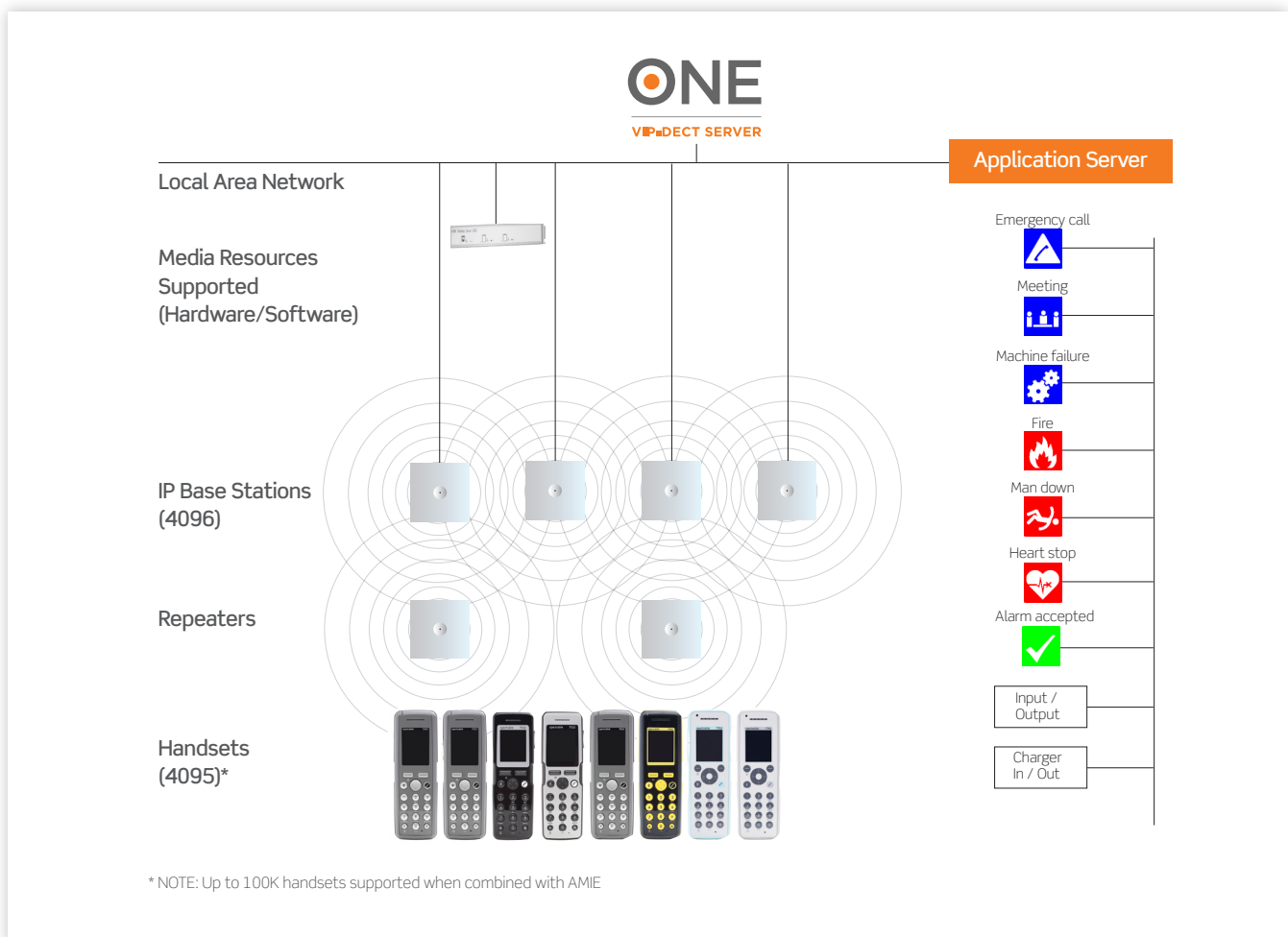
Managed Service Providers (MSPs) & System Integrators (SIs) can now centrally deploy the VIP-DECT Server One in their data-center - and support up to 256 separate virtual tenants on a single VIP-DECT Server One platform – using optional LDAP directory licenses. All the virtual tenants can be connected over secure broadband Internet making it easier to offer DECT mobility as a managed service.

Flexible license options

With flexible license options, businesses only need to pay for the features and users they need. The modular add-on nature of the Spectralink VIP -DECT Server One options makes it easy to increase the number of voice channels and/or geographical radio coverage. Add additional voice channels simply by deploying virtualized media resource software on your own platform while expanding any needed radio coverage with the Spectralink IP-DECT Base Stations, as required.

Whether it is the number of mobile employees, the number of available voice channels, or the need for growth and greater geographical reach, the Spectralink VIP-DECT Server One can fulfill your business' current and future DECT wireless mobility needs and requirements.

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
(4095)*

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
- CLIP
- 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 centralize 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 VIP-DECT Server One is a software only control unit acting as a SIP integration unit to the host SIP UC / UCaaS (Call Control Platform) which also controls and handles all other infrastructure elements
- Max. no. of:
  - IP-DECT IP Base Stations: 4096
  - Simultaneous calls on each IP-DECT Base Station: 11
  - Repeaters on each IP-DECT Base Station: 3
  - Total Simultaneous calls - supported: 1,024
    - A. Using Physical Media Resources (MR):
      - 32 (total 1024 channels)
      - Max simultaneous calls per each Media Resource (HW): 32 (G.711)
    - B. Using Software (Virtual) Media Resources (MR):
      - License (in Server): Max 1024 Channels
      - Can use 32, or 128 MR Channel licenses (in any combination) to achieve max 1024 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 4095
  - Base Server One starts with: 150 users stepwise: 150 users, 500 users, 1500 users, 4095 users

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 branch sites to be remotely connected

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

AMIE Advanced for IP-DECT empowers your IT team to keep the Spectralink DECT system running smoothly with fast deployment and easy centralized administration of servers, base stations and handsets including proactive monitoring and alerting of the system. With AMIE, businesses can now achieve increased operational efficiency supporting and maintaining their DECT networks remotely from a central location.

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.

De-risk your invest with Spectralink Professional Services

Design	Deploy
Strategize your path to success. To start the process, we analyse and assess your needs based on your business goals, end-user requirements and existing IT infrastructure. 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. Visit 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.

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