SmartNode

High-Density FXS Gateway

PATTON® Let's Connect!™

voip SUPPLY everything you need for voip™

Presented by:

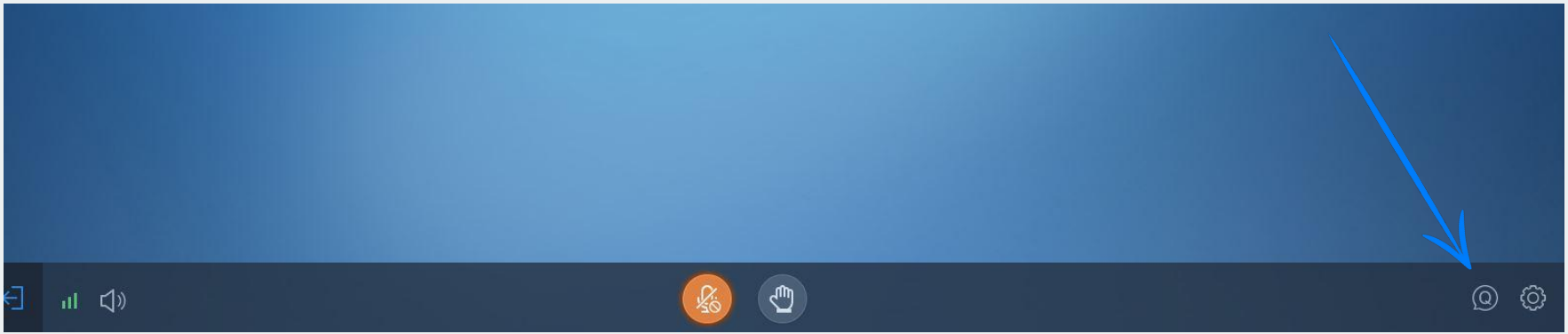
Burt Patton

Executive Vice President / co-owner

burt@patton.com

During the webinar please use the Q&A feature
located in bottom right corner of your screen!

We will answer the questions at the end of the presentation
Thank you!



We Are VoIP Supply

VoIP Supply Programs

Since 2002 VoIP Supply has delivered unparalleled service and expertise to over 125,000 customers worldwide.

Hardware & Provisioning

featuring over 60 manufacturers that offer over 16,000 products and the ability to provision for you!

VoIP Rental Program

our Device as a Service (DaaS) rental program gives your customers the widest variety of VoIP Products for a low monthly payment!

CloudSpan MarketPlace

a single place to shop various VoIP service providers - build up your MRR and receive discounts on hardware selling through VoIP Supply

Fulfillment

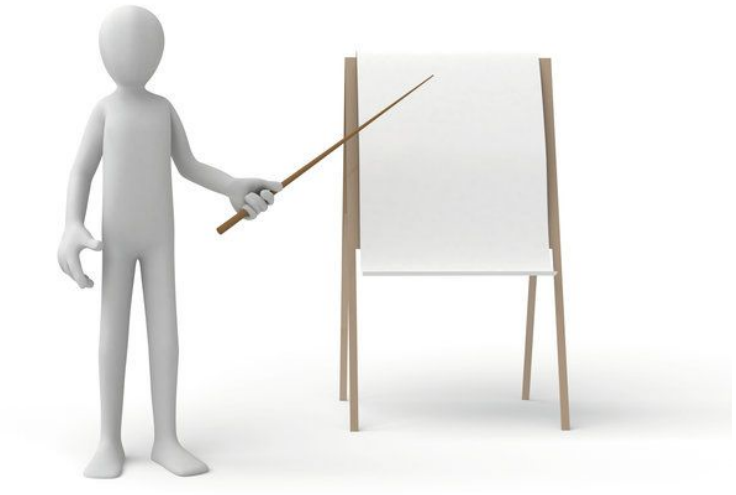
provisioning and professional services from multiple warehouse locations in North America; providing real-time access to manage your projects from order through delivery

Refresh & Reclaim

offering certified reconditioned devices at a fraction of the cost plus offering an outlet for selling off used and excess VoIP equipment

Agenda

- Introduction Patton
- VoIP Product Range
- Analog Gateway Portfolio
- Use Cases
- Availability
- Q&A



PATTON

Multinational company with more than 35 years of experience

We manufacture in our Headquarter in USA, our innovative and high quality products for UC, Cloud and IoT solutions.

Our mission is to support Service Providers, Value Added Resellers and System Integrators in their transition to All-IP enabling Unified Communications,

What we do in VoIP

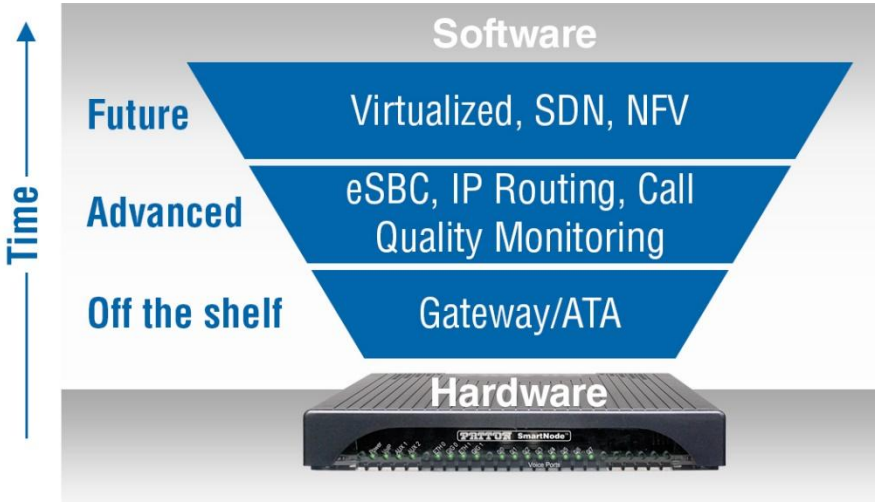
- **VoIP Gateways**
  - Integrates IP and TDM
  - Analog FXS/FXO, digital ISDN BRI and T1/E1/PRI Telephony Interfaces
    - 1 to 128 FXS/FXO
    - 1 to 8 ISDN BRI
    - 1 to 1024 T1/E1/PRI
    - 1 to 3 DS3 / 1-15+1 STM1
    - 1 to 32`768 VoIP or fax call capacity

- **eSBC (Enterprise Session Border Controller)**
  - Service Demarcation - between Customer LAN & Provider`s WAN
  - Topology hiding – IPPBX to be protected from WAN
  - Quality of Service – High quality end to end
  - Security – Fraud strike prevention, DoS attack protection
  - Access Router Functionality

Physical Interfaces

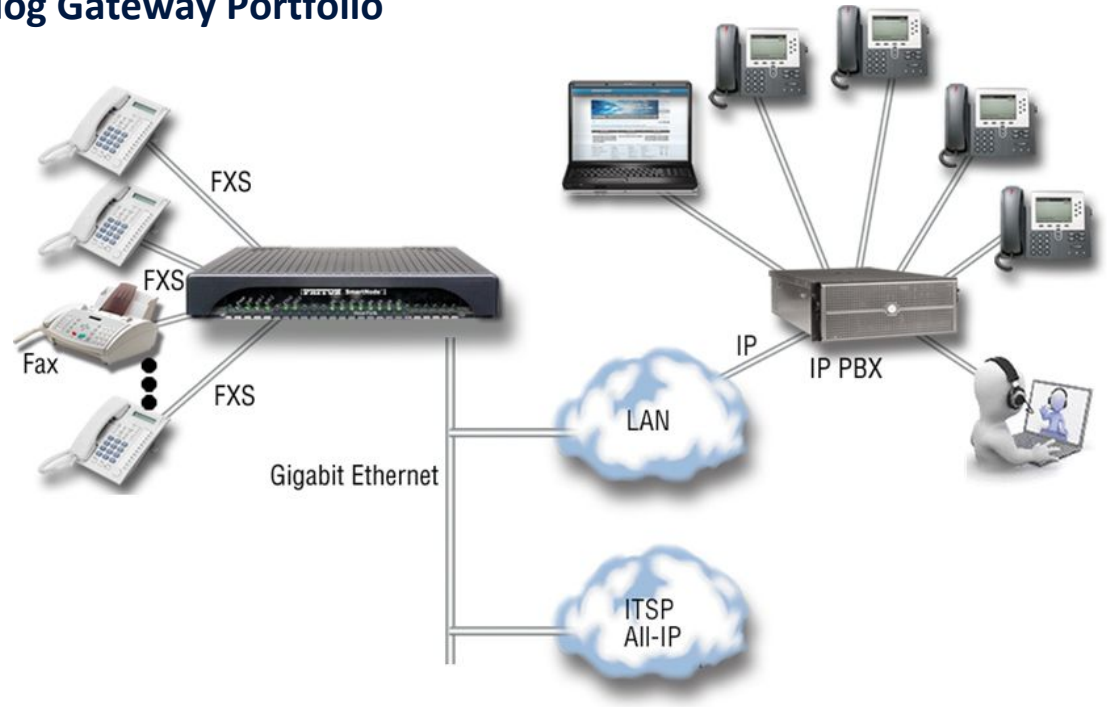
Patton Product Concept

- Connectivity
  - State of the art Hardware
  - High MTBF
- Functionality
  - Future enhancements possible
  - Adapts to your needs
  - Evolves over time

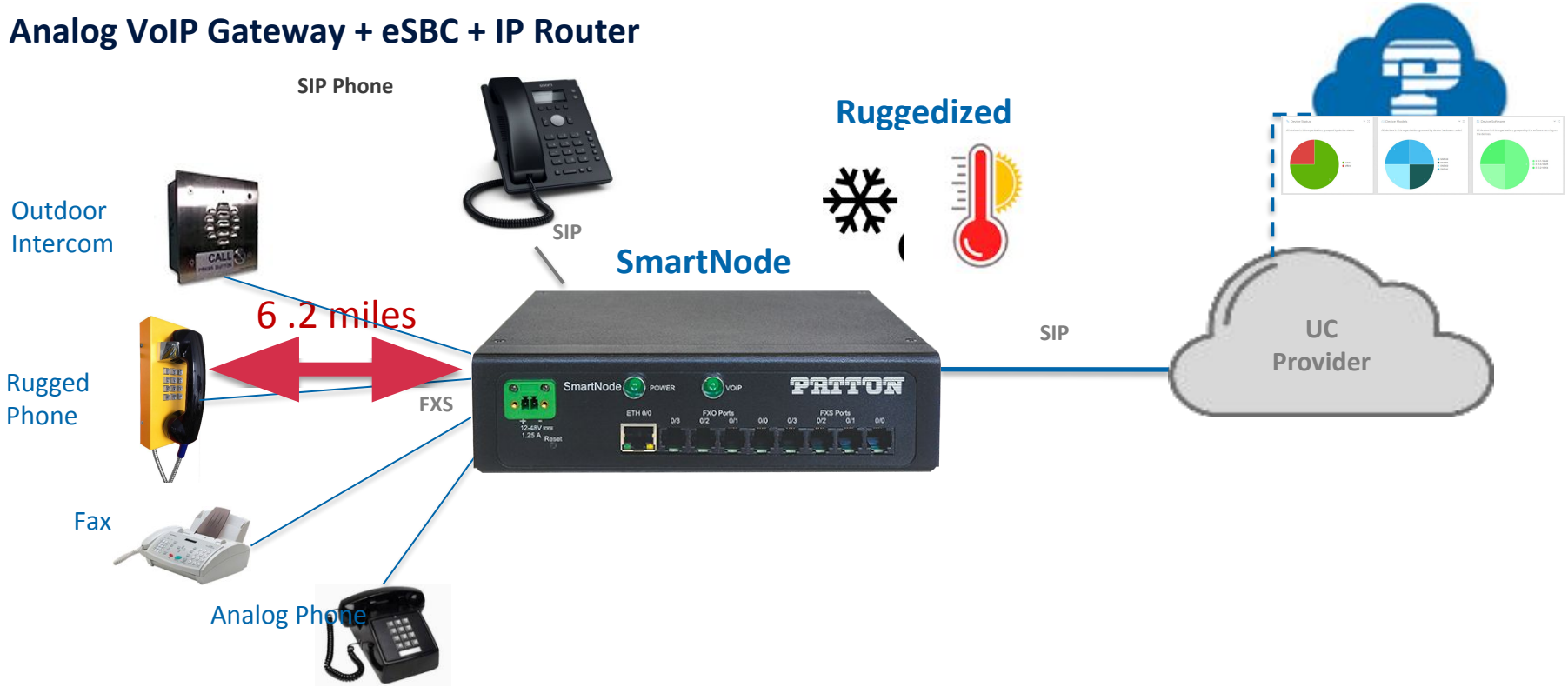


Patton Partners

Patton Analog Gateway Portfolio

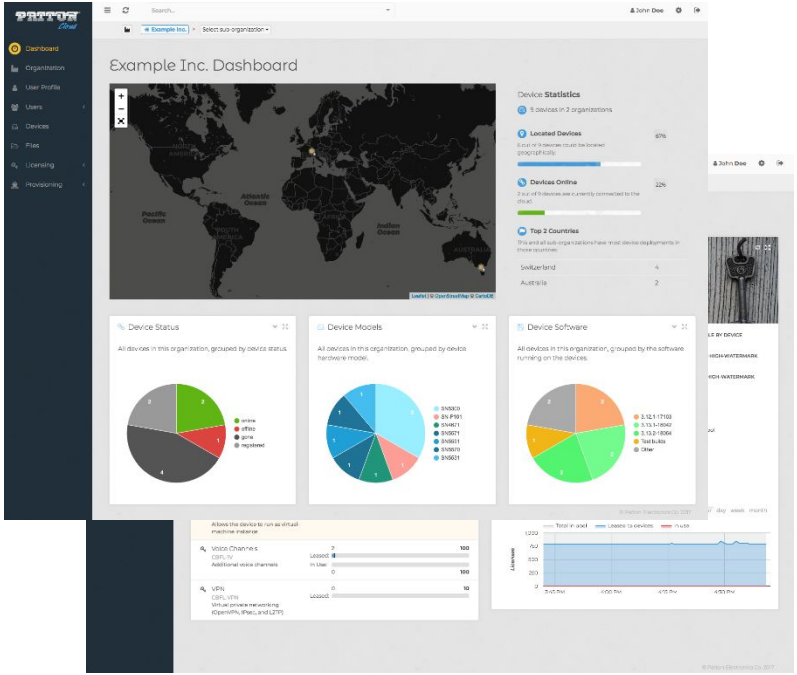


Analog VoIP Gateway + eSBC + IP Router



Patton Cloud – Edge Orchestration

- **Management** - Software License, Alarming & Notification, CPE Supervision, Config Management
- **Customer Service Aid** – Remote Troubleshooting, Warranty Management, Configuration adaptation
- **Provisioning** – Zero Touch, Cloud Wizard Easy Install, Install Progress Monitoring
- **Call Quality Scoring and Metrics**
- **Integration** – OSS/BSS, Business Process integration, more efficiency and less problems



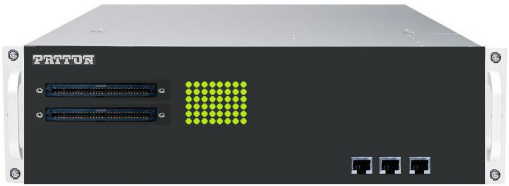
The Patton Cloud – Edge Orchestration Service

- Dashboard overview of connected devices, location maps, in-service software revisions etc.
- Device list and detailed view of connected devices etc.
- View configurations, logs, device health etc.
- Access the CLI Terminal and device WebGUI through the Cloud interface
- Auto-Provisioning. Automatically connect new devices to your Cloud and provide them with prepared configuration files.
- Execution of predefined Wizards
- Manage device feature licenses such as SIP sessions, voice channels or VPN in the Cloud.
- Store device files (configurations) in the Cloud
- Basic call history of all devices connected to a Cloud-Powered SmartNode
- Automatically synchronize the device file system to the cloud (configurations, log files, certificates, etc.)
- Schedule and perform software upgrades on your devices with a few clicks.
- Define, collect, and distribute status alerts and warnings on your network.
- Create and assign configuration wizards
- Packet Capture for streaming and storing of pcap traces from devices to the cloud
- Quality monitors delivering call Quality Metric Scoring
- Advanced CDRs and Call Quality Metrics; Real-time and historic Call Detail Records and Call Quality Metrics including Packet Flows and detailed call quality graphs.
- Create and manage an unlimited number of sub-organizations with their own users and roles.
- Allow one sub-organization to provide remote support to another sub-organization with defined access rights.
- APIs to Control all Cloud functions through an API enabling you to integrate the Patton Cloud into other Systems and Applications.

High-density Analog gateway - *where high-avc*

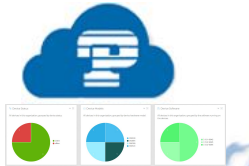
- Right # of Ports – Not too many nor too few
- High-availability (Dual Power supplies)
- K.21 analog line surge protection
- Link Redundancy & Survivability
- Notification & Alerting
- Software upgrade path

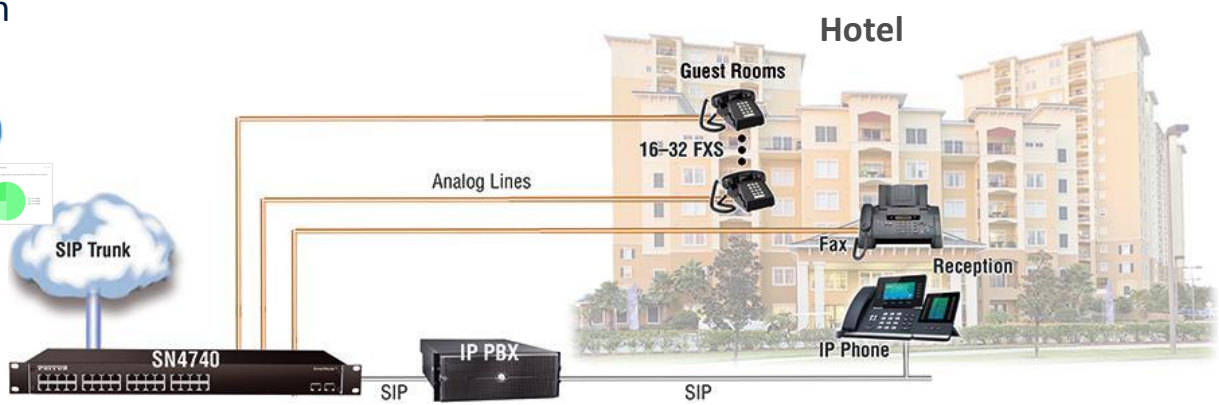
16 24 32 48 64 72 96 128



Hospitality

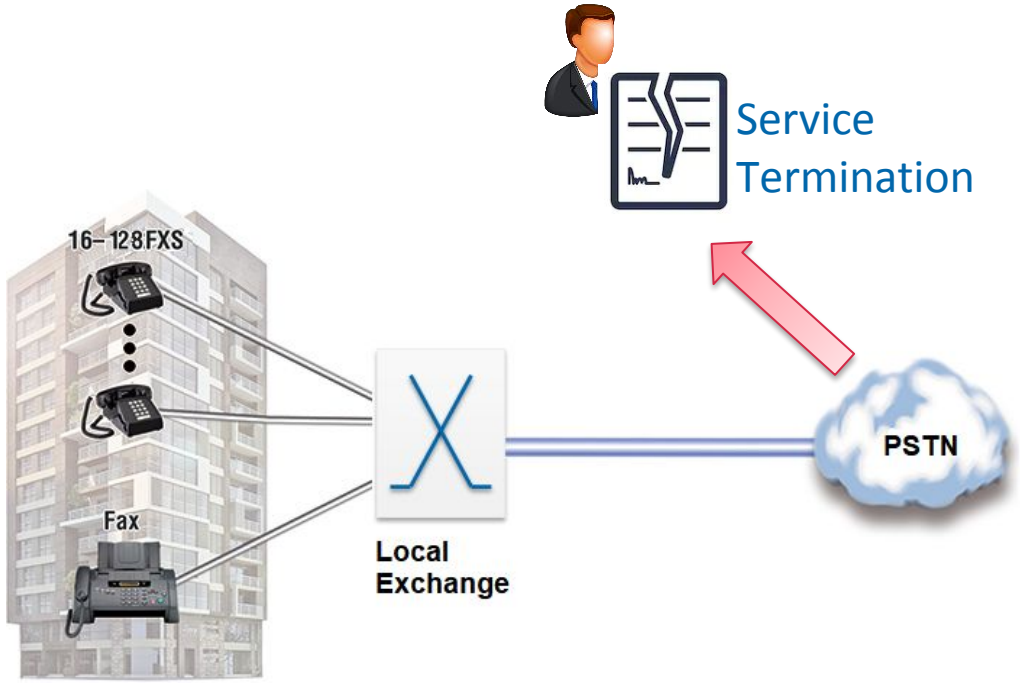
- Smooth All-IP integration
  - IPPBX
  - SIP phones
  - Cloud
- MWI – Message Waiting indication
  - Neon bulb
  - Line reversal
  - FSK
- Ring-Groups
- Priority Call handling (E911)





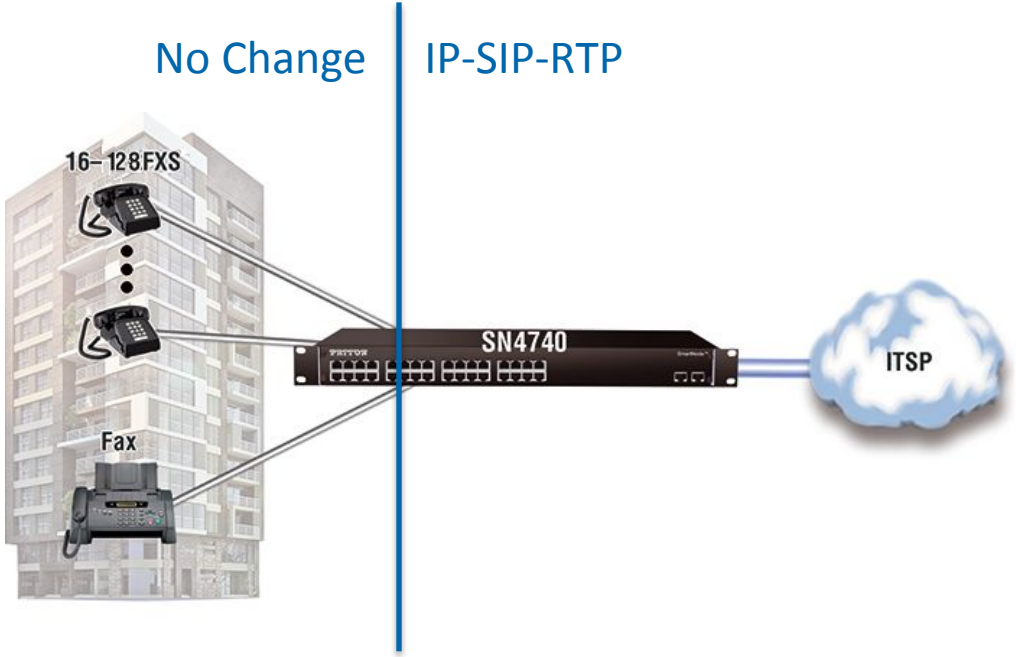
Service Providers

- Large Carriers terminating legacy service
- Local Exchanges – EOL
- New service offerings possible



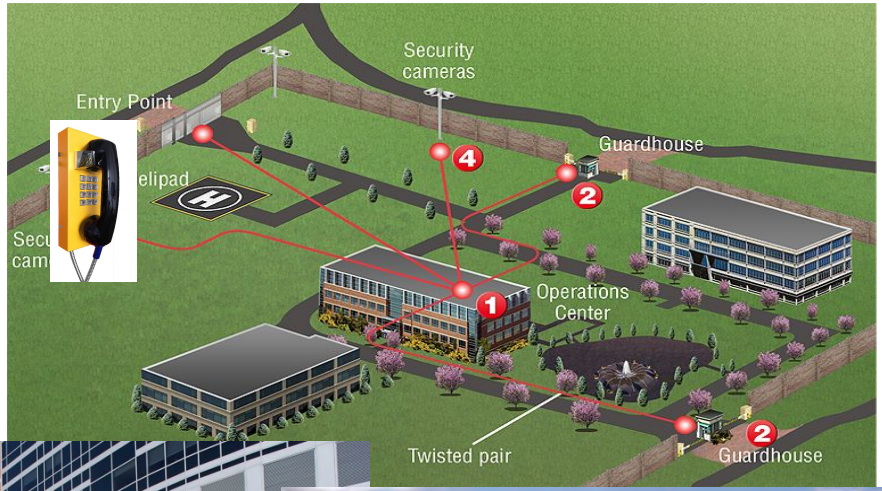
Service Providers

- Extend lifespan of existing infrastructure
- Low cost upgrade from PSTN to IP based
- Increase Service Uptime (Survivability)
- Smooth migration path
- Expandable – eSBC (Sip Registrar)



Enterprise, Campus

- Re-use of existing copper infrastructure
- Emergency phones area distributed
- Long reach – up to 6.2 Miles
- K.21 Surge protection
- Dual Power Supply



Industry

- Mining sites (gold, diamonds, copper, etc.)
- Oil & Gas, Fossil Resources production plants
- General manufacturing plants
- Transportation – Railway, etc.

Ruggedized Option

High Density Analog Specs.

Hardware:

- Analog port Connectors
  - 50-pin Telco RJ21 or
  - RJ11
- 2x Gig Ethernet, Console
- USB – Survivability

VoIP:

- G.722, G.711m/A-law
- G.723.1 (6.4 kbps), G.729, 729a, 729ab (8 kbps)
- G.726 (16, 24, 32, 40 Kbps), AMR-NB (4.75, 5.15, 5.9, 6.7, 7.4, 7.95, 10.2, 12.2 kbps)
- G.168-2004 echo cancellation (128 ms)
- SRTP, SIP-TLS (optional license)
- Conferencing (local mixing)

Analog

- Caller-ID FSK and ITU V.23/Bell 202 generation
- MWI – high voltage, line reversal and FSK method
- Long reach – 6.2 miles @3REN
- K.21 Surge Protection

IP

- IPv4 & IPv6 Dual Stack
- PPP, PPPoE
- DHCP Client and Server
- SNMPv3
- NTP

Upgrade path

- IP Routing. GRE, BGP, VRRP, RIPv2, etc.
- LACP, Balancing, Failover
- eSBC - SIP B2BUA, SIP Registrar, Auto-Survivability

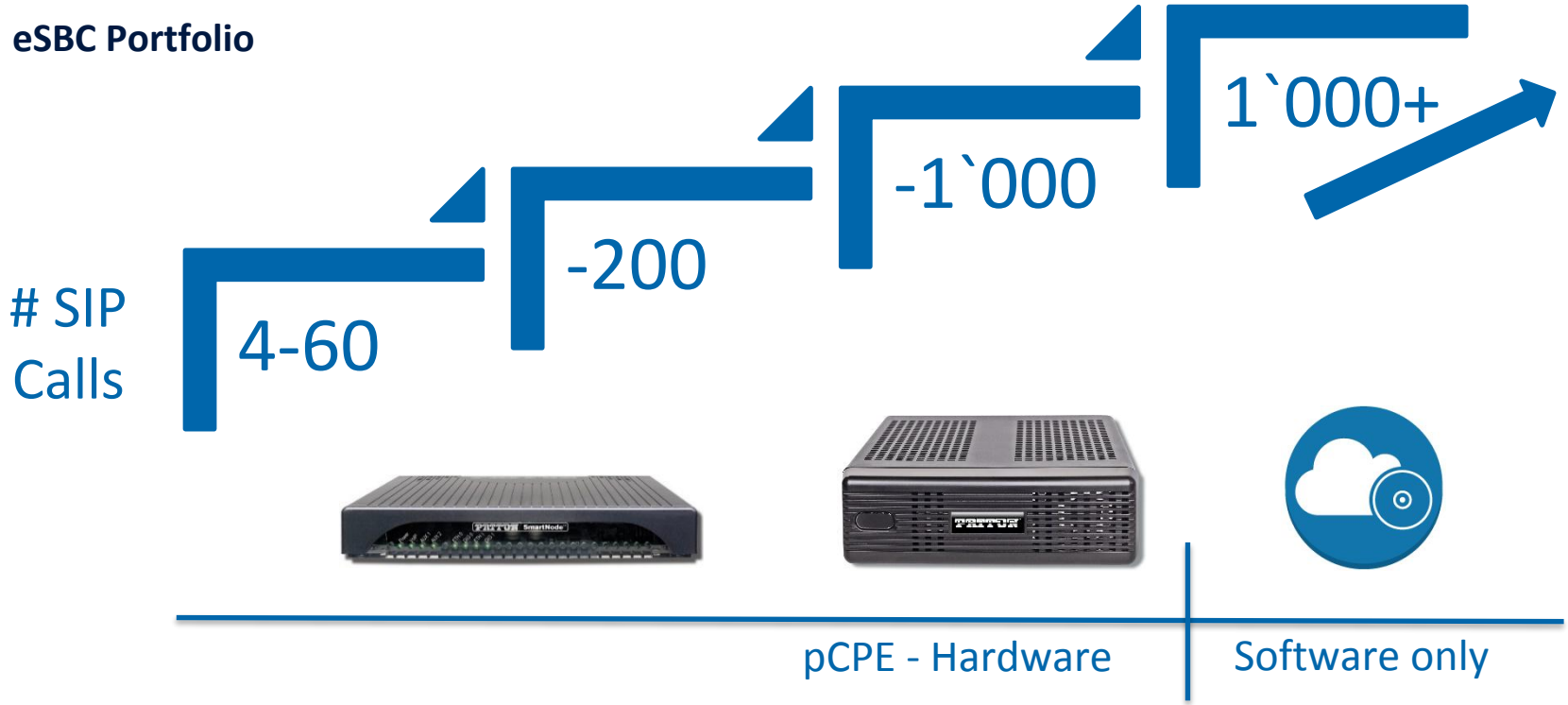
Low density - SN200

- 1, 2 or 4 port FXS & 1FXS/1FXO
- PoE powered (eliminates Power Supply)
- Rich Feature Set
  - Zero Touch Provisioning
  - Cloud Connect
  - SIP/TLS – SRTP
  - Fax T.38 & G.711
  - IPv4 – IPv6 Dual Stack
  - 3 Way Conference, Call Hold, Call Transfer
  - MWI, DTMF, Caller ID

Patton Analog Gateway Portfolio

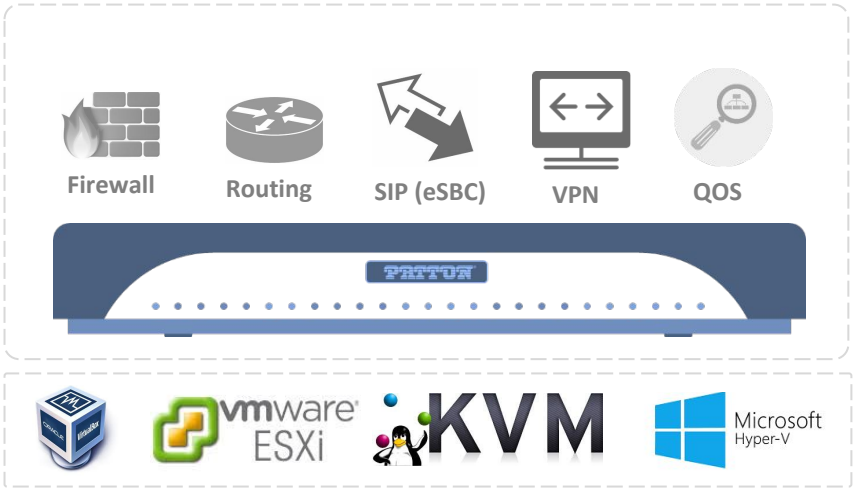
	M-ATA	SN200	SN4140	SN4740
Telephony Interfaces	FXS	FXS & FXO	FXS & FXO	FXS or FXO
# of Telephony Ports	1	1, 2 or 4	2, 4, 8	16, 24, 32, 48, 64, 72, 96, 128
VoIP Gateway		✓	✓	✓
IP Router IP Routing, QoS, VPN, etc.			See eSBC	Optional
Number of Ethernet Ports	1	1	1 or 2	1 or 2
Extras		PoE Powered		Dual Power Supply

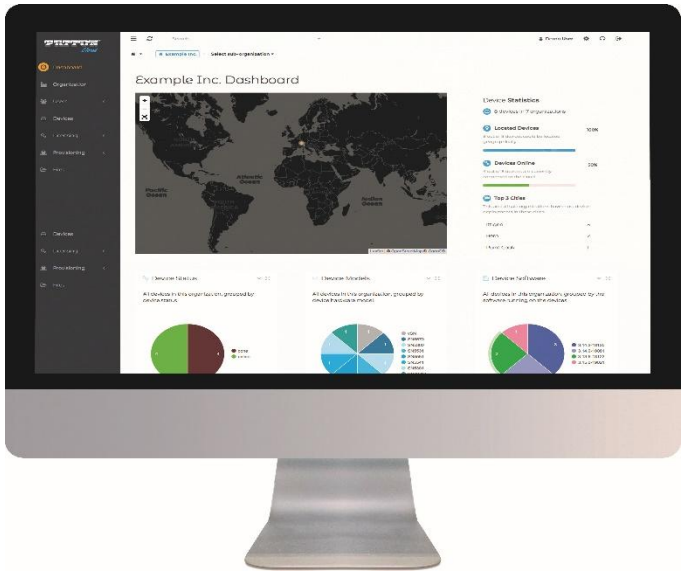
eSBC Portfolio



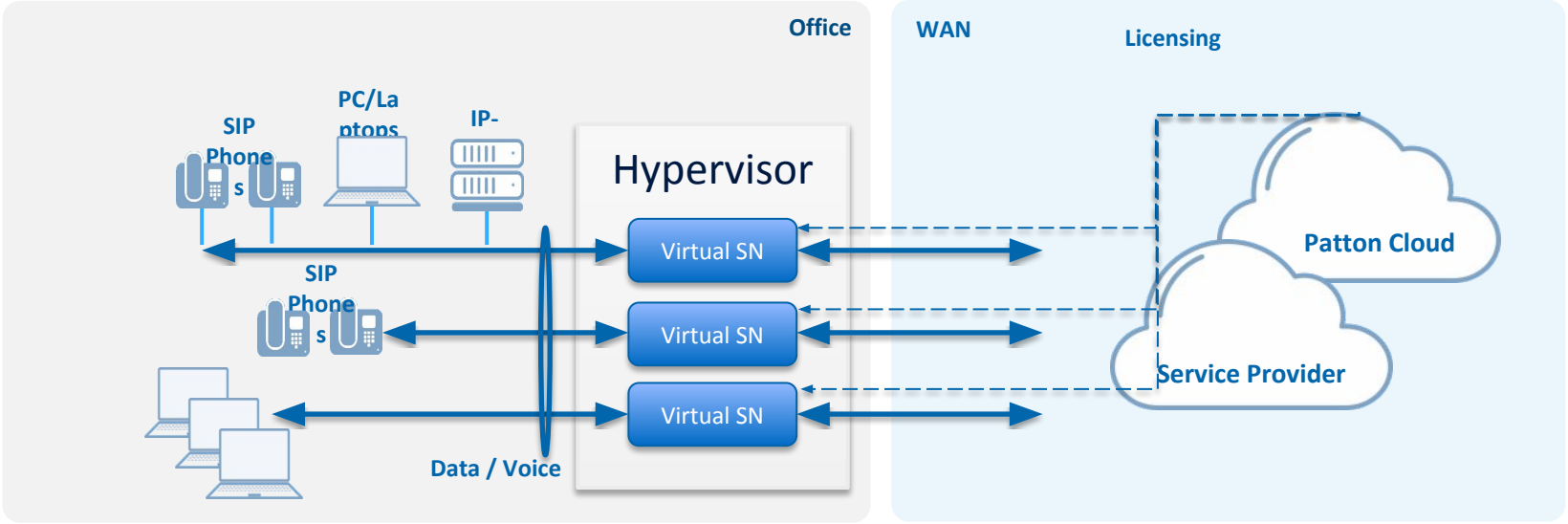
pCPE: Purpose Build Customer Premise Equipment

Virtual SmartNode (vSN)

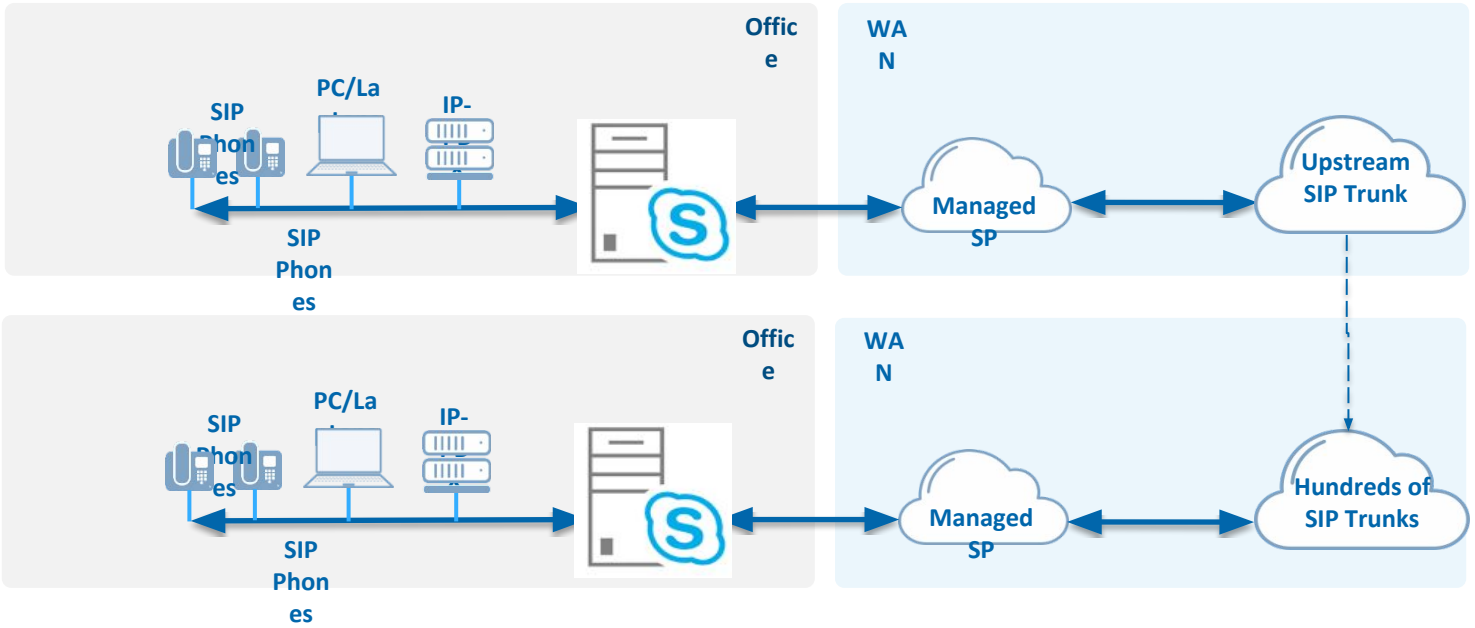




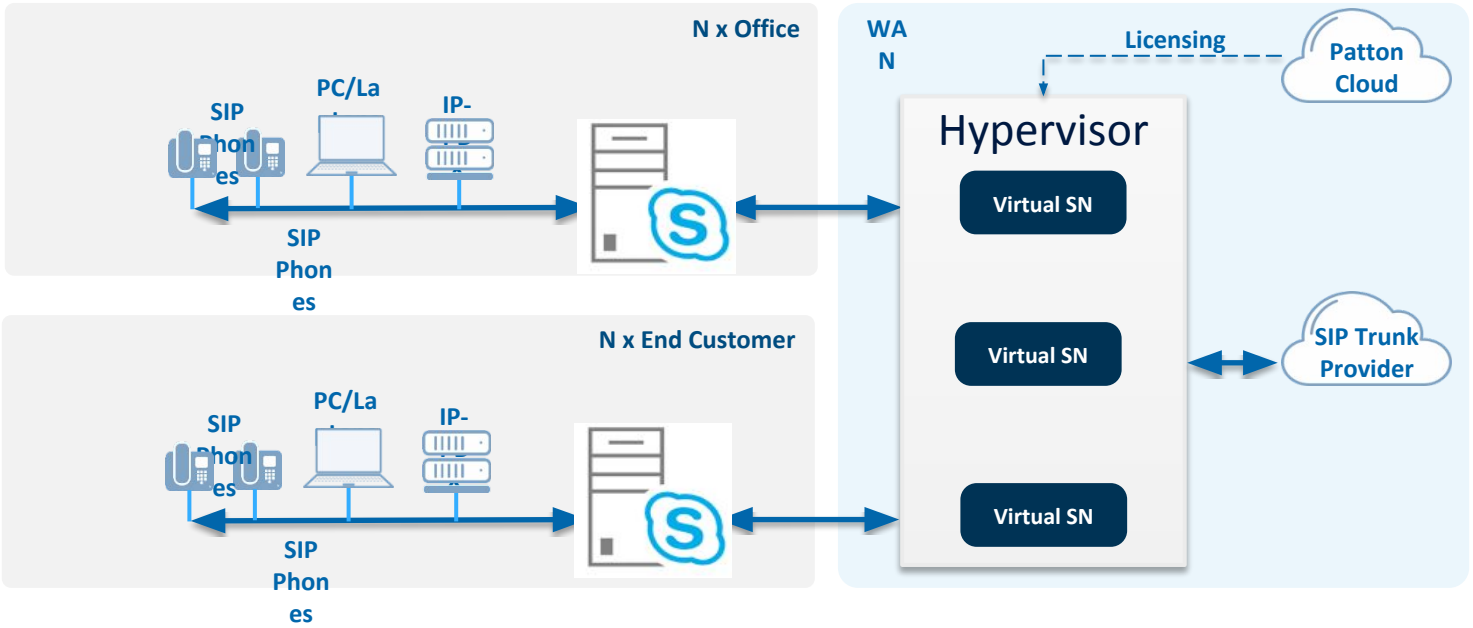
Virtual SmartNode Licensing



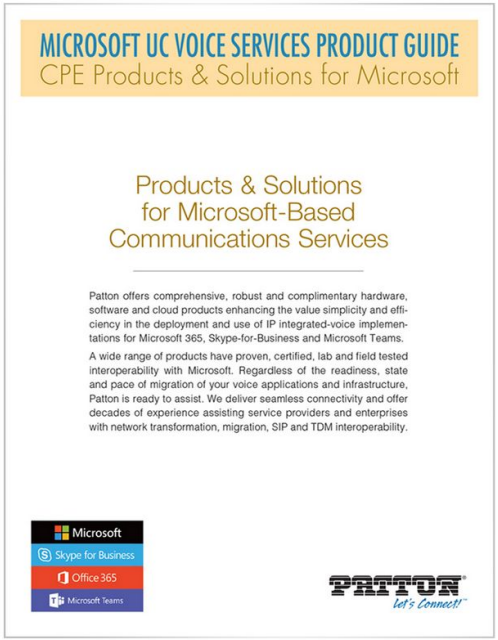
THE OLD WAY - Unconsolidated



THE NEW WAY - Consolidated



Virtual SBC – On Premise



Get a copy !
http://www.patton.com/guides/07SFB-PG_spread_lo-res.pdf

Virtual SmartNode - Benefits

- No CAPEX – **Pure OPEX Solution**
- No need for CPE (purpose-built CPE) – No Hardware needed
- No performance limitations - Dynamically scale # of SmartNode instances and SIP Sessions
- No local EMS required - Centrally Managed and Orchestrated through Patton Cloud
- Fast and instant installation (no Hardware install needed)
- Scalable, flexible
- High availability through virtualized hardware

Virtual SmartNode

Free Trial for 90 Days

https://www.patton.com/session-border-controller/vsn/trial/

SN4740 – High Density Analog

- Availability
- RJ-11 – 16-32FXS
  - Taking orders now – Shipping now
- RJ-21 Telco Connector – 16-32FXS
  - Taking orders now – Shipping end of August
- 48-128 port (RJ11 & RJ21)
  - Taking orders now
  - Shipping in September

SPECIAL PROMO DEAL THOUGH VoIP Supply ONLY

20% off the SN4741/24JS24V/RJ11/EUI

Limited Supply available

Ask your VoIP Supply rep today!

Q&A

Contact

Burt Patton

Patton

Executive Vice President/ Co-Owner

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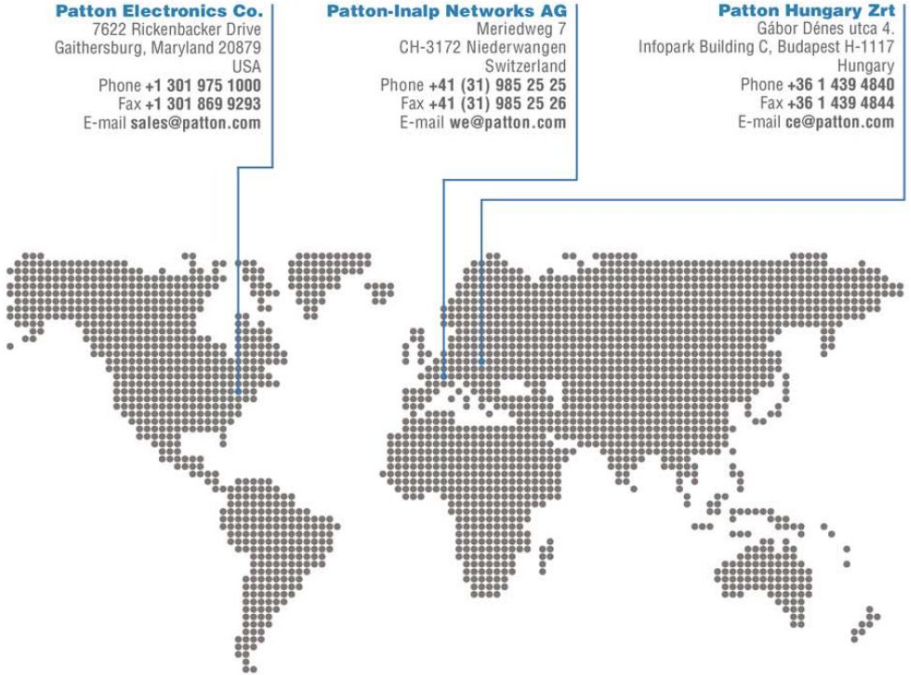

We Are VoIP Supply

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