



DISA TEM on POTS Transformation

Presented by: MetTel Federal

09/10/2024

Connectivity

POTS
Transformation

Managed
Network

Security

Mobility
& IoT





Corporate Overview

Connectivity

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connect **SMARTER.**

Manhattan Telecommunications Corporation (MetTel)

1996

Founded Privately Held

5,000+

Businesses & Federal Agencies

24/7/365

Care Centers in NJ, NY, UT, & RI

3 NOCs

NJ, NY, & UT

9.5 Years

Average Customer Tenure

1.6 Million+

Mobile Connections

\$2 Billion

Government Awarded Contracts (EIS & GSA70)

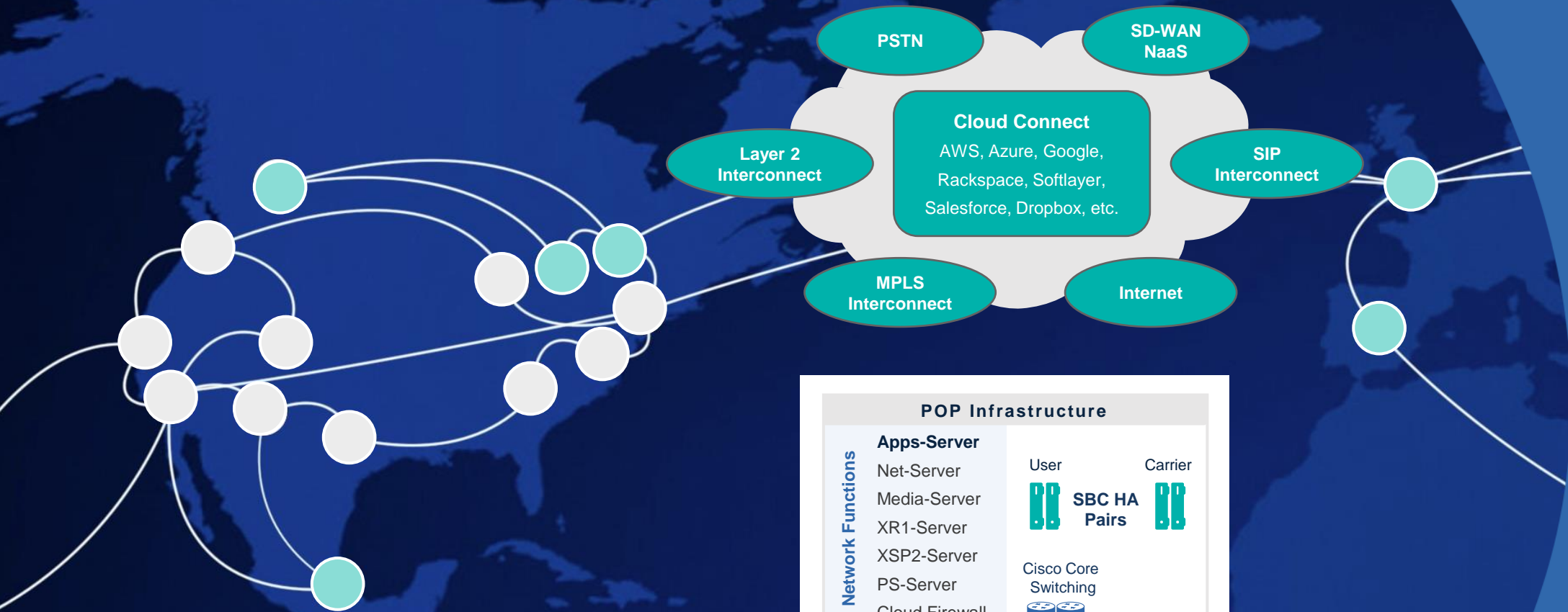
15 Years

Consecutive Double-Digit Revenue Growth

100,000 sq ft

Warehouse for Staging & Kitting

MetTel's Private Network

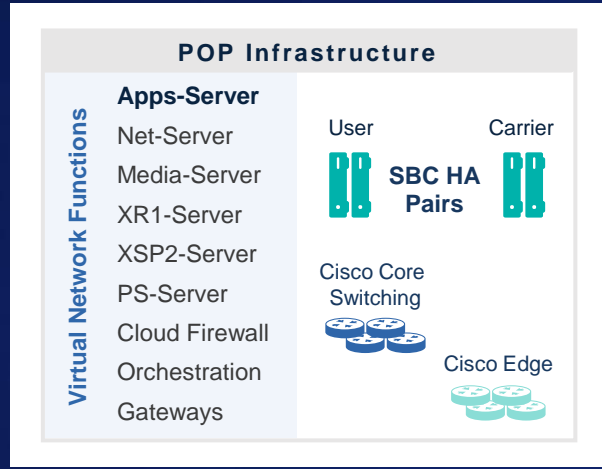


US POPs

- Ashburn, VA
- Atlanta, GA
- Chicago, IL
- Denver, CO
- Dallas, TX
- New York, NY
- Seattle, WA
- Santa Clara, CA
- San Jose, CA
- Phoenix, AZ

INT'L POPs

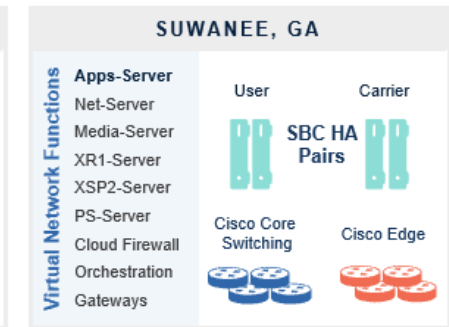
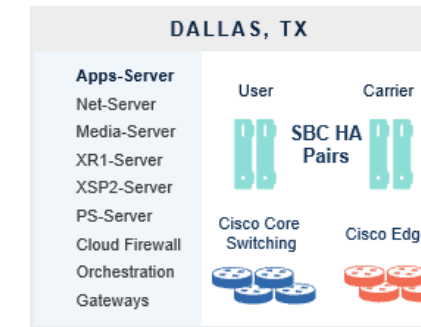
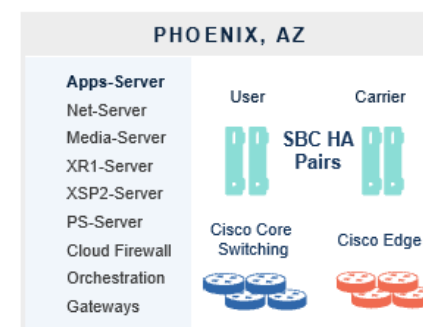
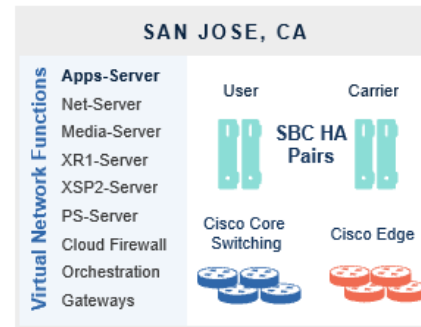
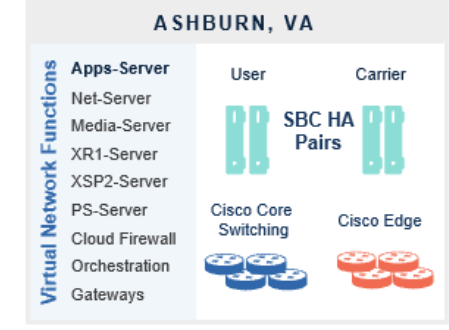
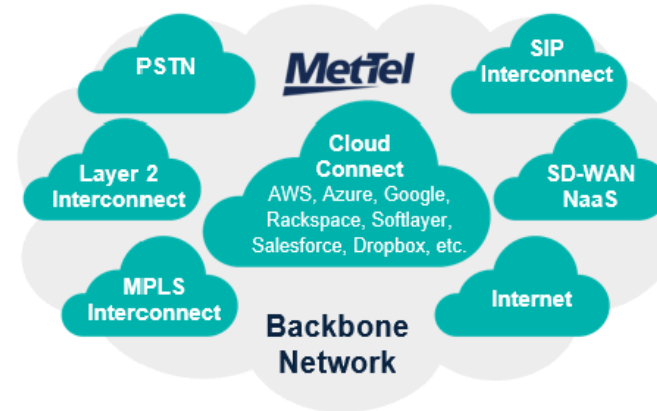
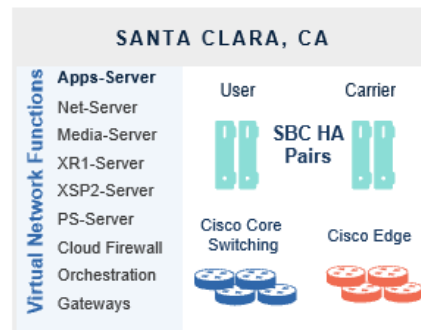
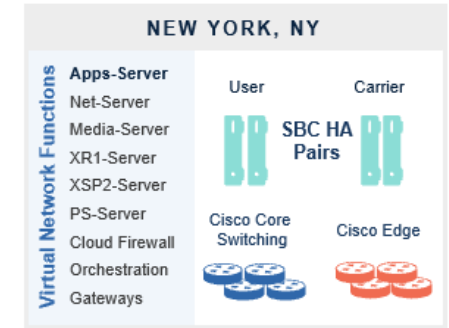
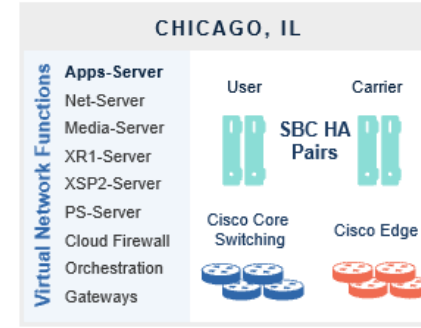
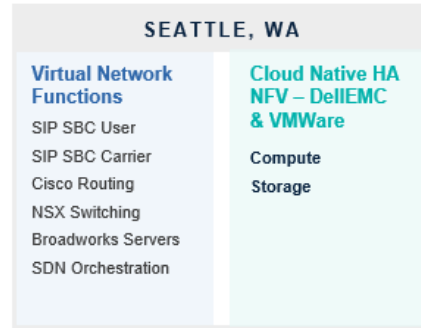
- London
- Madrid
- Montreal
- Toronto
- Calgary
- Mexico City
- Mumbai
- Singapore
- Tokyo
- Sydney



MetTel U.S Distributed Voice Network

Overview

- Over 70 internet based carriers integrated into each pop for shortest path peering to customer premises
- Backbone (DC interconnects), 8 MPLS carriers, each with two 10gig interfaces providing for a 160Gb East to West backbone
- Voice, Cloud Firewall, MPLS VRFs, Managed VPN, and SDWAN gateways configured autonomously to give access to all customers for customized registration based on customer needs.
- Private MPLS ramps to Azure, AWS, and 35 other hosted providers.
- All Co-Lo datacenters with strict physical access, with ISO 27001 certifications
- Diverse inbound PSTN carriers





POTS Transformation

POTS In A Box

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It's time to transform copper lines to the digital age.

POTS Transformation allows you to completely transform all traditional phone lines for voice and data services that require an analog dial tone.

Digitally Transform



Fax



Security Alarms



Fire Alarms



Elevators



POS Terminals



Vending Machines



ATM Machines



POTS

30% estimated cost savings immediately and year to year

Voice Transformation

Why we are the right partner

Multi-WAN Router

- Access any combination of landline, wireless or WiFi
- Multi-carrier access
- Dual SIM failover available
- Business continuity, even during network outages
- Prequalification of LTE/5G coverage in your area
- Up to 24-hour battery back-up
- TIAA Compliant

Turnkey Installation

- Certified PMP managed deployments including site acceptance testing
- Nationwide, professional installation
- Expert migration team specialized in local number portability
- Inventory to support the largest enterprise deployments

Fully Managed Service

- Supported by 24/7/365 NOC
- AI-powered monitoring, alerts & incident remediation
- Fully managed remote updates
- Break/fix with emergency replacement
- Significantly enhanced service quality and accelerated response intervals
- Comprehensive digital management of the entire lifecycle

Smart Network

- 4 nationwide, diverse & carrier class switching networks
- 22 geo-redundant Specialty Line Session Managers
- Direct access to over 70 carrier voice & data networks
- Local PSAP e-911 integration for voice SIP network



Recognized as an approved MFVN (Managed Facilities-based Voice Network) by the NYC Fire Department



Approved by California State Fire Marshal's Building Materials Listing Program (BML) as analog telecom replacement equipment for use with analog line devices.

Proud member of the ESA



Specifications of CDS 90XX

- Connect with broadband, 4G LTE, and/or Wi-Fi
- Cellular can be the primary connectivity if Wi-Fi or broadband are not available, or act as a backup in the event of primary circuit failure
- Dual SIMs provides added fail-over protection
- Handles up to 8 lines including voice, fax, elevator and alarm lines
- Up to 24-hour battery backup
- UL 60950-1 & UL 2054 certified

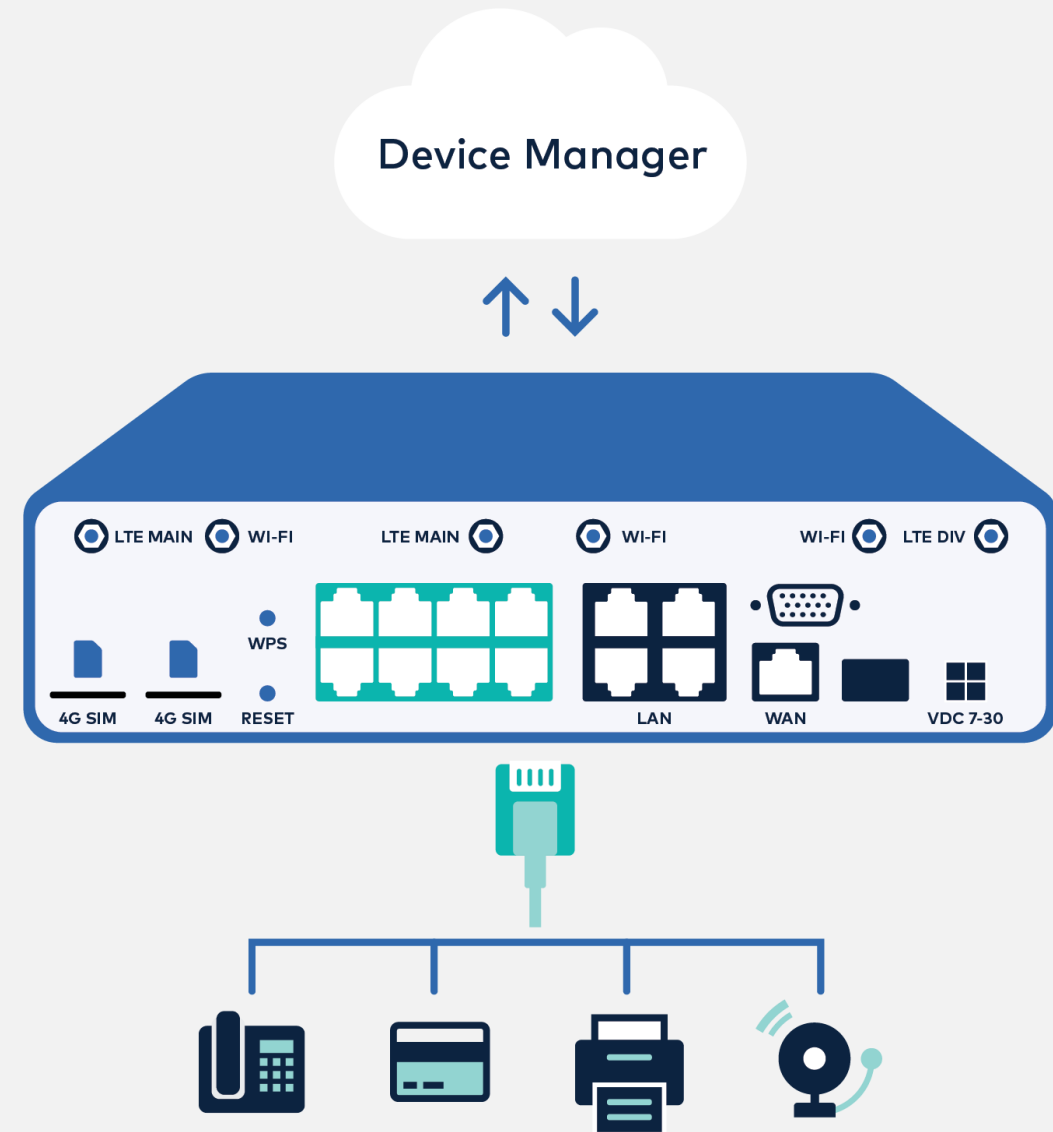
Voice Calling Features

Basic Features

- Call logs
- Caller ID
- Series completion (hunting)
- Call waiting
- Call ID blocking
- E911

Add-on Features

- Auto-attendant
- True hunting
- Voicemail
- Three-way calling
- Flash call hold



Custom Turn-Key Implementation

Staging & Kitting

- Fully assembled in MetTel's warehouse
- Preconfigured and tested
- Fire protective coating on the board

Installation by MetTel Includes:

- Site survey
- Tag and locate
- Installation of the board
- 4G antenna for optimal 4G coverage
- Testing connectivity to internet
- Testing failover to 4G
- Testing failover between the SIM cards
- Cross connect into existing 66 Block
- Testing and confirm all voice and safety lines
- Porting numbers if needed



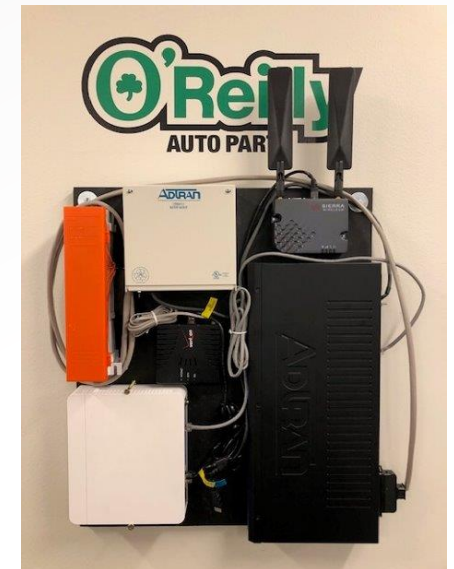
Dual SIM PIAB Copper replacement w/ 24-hour battery backup



Full Office in a Box: SD-WAN, 8-line analog key system and Data Switch, PIAB Copper replacement w/ 24-hour battery backup



SD-WAN, w/ Broadband modem, LTE Backup, PIAB Copper replacement w/ 24-hour battery backup, Emergency Phone

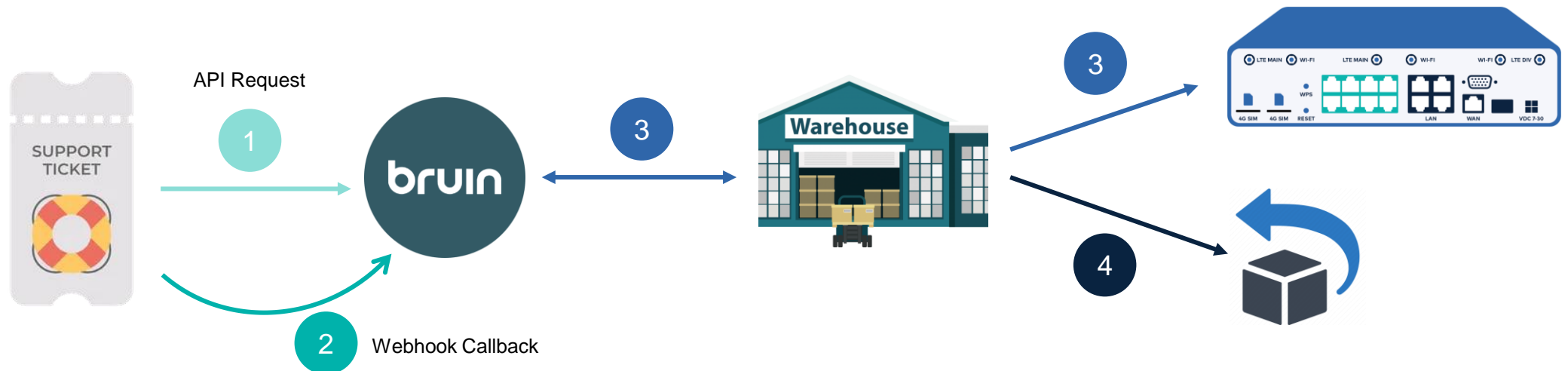


SD-WAN, 24-line analog key system w/ 8-hour battery backup, Sierra LTE backup modem

Device Lifecycle Management

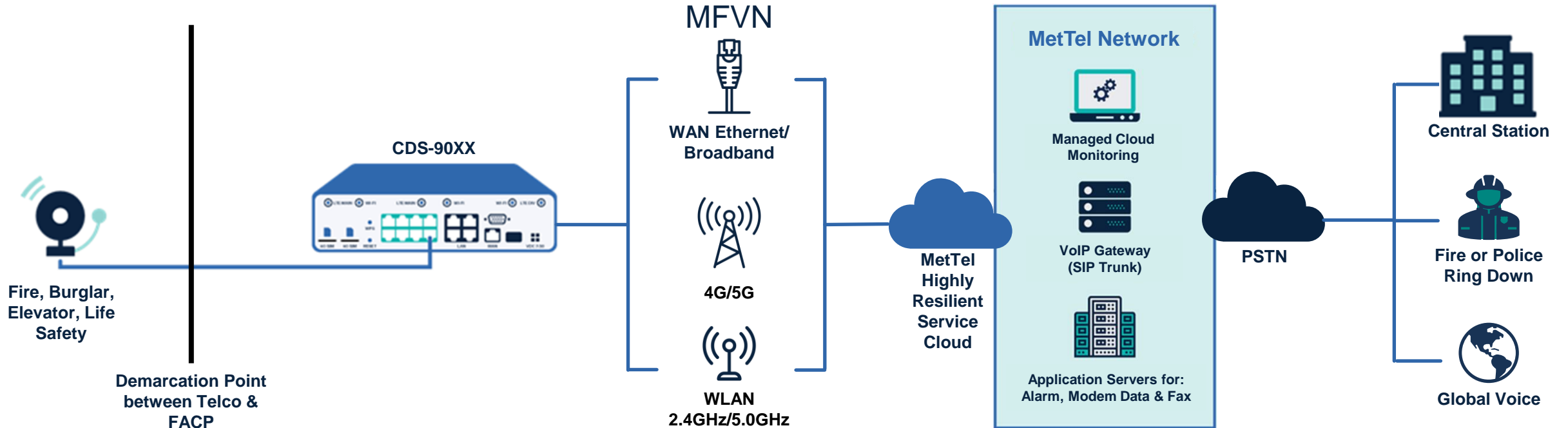
Integration & Automation

- 1 Automate ordering edge devices with an API integration to Bruin from your support ticketing system
- 2 We automatically alert you regarding the status of ordered devices and their shipment dates.
- 3 You can leverage next-day shipment for new and replacement devices with the “push of a button” from your support ticketing system interface and integration with Bruin’s ordering system.
- 4 Improved security compliance and streamline device replacement by auto-generating electronic shipping labels for device returns and providing real-time updates and visibility on return status.



POTS Transformation Regulatory Compliance

Solution Illustration



- NFPA 72
- UL 864
- UL 60950
- UL 2054

- UN 38.3
- UUL 62368-1
- ASME A17.1
- ISO 27001

- HIPAA
- PCI
- SSAE16
- TAA

- City of New York Fire Compliant
- Approved by California State Fire Marshal's Building Materials Listing Program (BML)



POTS Transformation Fire Code Compliant Solution

Under NFPA 72 fire alarm systems must be connected to the PSTN or an MFVN. An NFPA 72 compliant MFVN requires a loop start telephone circuit, proactive support by the provider, and 8 hours of standby power. POTS Transformation supplies all of these features and more, providing a NFPA 72 compliant-ready solution for your copper replacement.

Similarly, because POTS Transformation is a component of the carrier network MFVN, and not part of the alarm system, POTS Transformation is not subject to UL 864 requirements (UL 864 applies exclusively to control units and accessories for Fire Alarm Systems and not the MFVN).

Further, for additional security the CDS 90XX has been certified compliant with UL 60950-1 and the battery is certified for UL 2054 product safety standards.



Voice Portal

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Enhanced SNMP Views

Available analytics through MetTel Provided SNMP monitoring platform

Example SNMP Monitoring

- Primary WAN status (Ethernet/WiFi/LTE)
- LTE state and signal levels
- Data consumption
- IP Address
- LTE Throughput

- Battery status and information
- Line registration for each individual line
- All conditions are proactively monitored
- Any change in condition will trigger an alert/ticket automatically

CDS-9090

Device Status

Name: CDS-9090
DNS Name: (Unknown)
Address: 107.125.176.89
Status: UP (Reachable since Nov 08, 00:13:06)
Ack: (gherman, 216.194.28.29) Test
Ack Exp: No expiration.
Probe: Data Remote Probe (port 161 SNMPv2c)
Up Time: 8 days, 1 hour, 24 minutes
sysName: CDS-9090
Contact: Dataremote Support
Location: Unknown
Availability: 99.9 % (of 16 days, 3 hours, 49 minutes)
Packet Loss: 3.87 % (of 60713 total attempts)
Short-term Packet Loss: 3.00 % (of 100 last attempts) [Reset]
Recent Loss: 1 pkts at Nov 13, 13:04:37
Response time: 69 msec

DataRemote- Device Information

Product Name: CDS-9090
Device UpTime: 8d:2h:35m
Firmware Version: V0.6.12(R202009111412GN.1.1.1-MTL)
Device Serial: 700380
ActiveWanInterface: LTE
WAN IP: 107.125.176.89
Wireless Throughput IP: up 12 kbit/s down 11 kbit/s
Wireless Data Usage: 1.152 GB / 382.051 MB
Device Battery Status: 2 Charging(1), Charged(2), Discharging(3)

DataRemote- SIM Information

SIM Status: SIM1 Active
IMSI: 310410154624380
Iccid: 89014104271546243806
IMEI: 864839040095057
Signal Strength: 80
RSSI: -65
Subscriber Number: 15442567514
Service Provide: ATT
Network Type: LTE
Registration Status: Registered, home network
Connection State: Connected
Sim 1 APN:
Sim 2 APN:

DataRemote- SIP Information

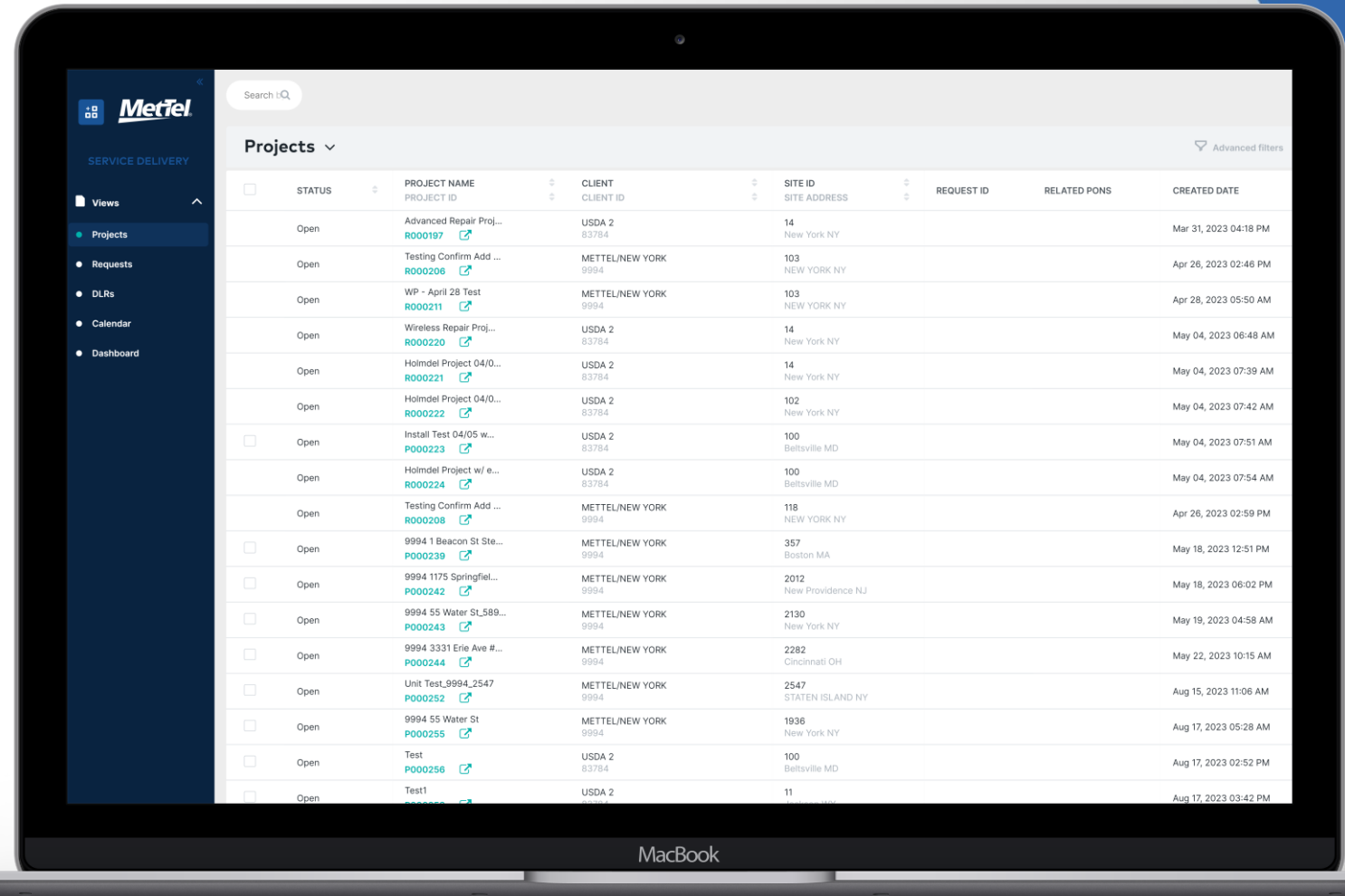
SIP Line-2 DID: 7193153522
SIP Line-1 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-2 DID: 7193153523
SIP Line-2 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-3 DID: 7193153524
SIP Line-3 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-4 DID: 7193153525
SIP Line-4 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-5 DID: 7193153526
SIP Line-5 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-6 DID: 7193153527
SIP Line-6 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-7 DID: 7193153528
SIP Line-7 Status: 1 (disable(0), registered(1), registering(2), fail(3))
SIP Line-8 DID: 7193153529
SIP Line-8 Status: 1 (disable(0), registered(1), registering(2), fail(3))

Recent Outages: [Reset]

Scaled Service Delivery

MetTel has a purpose-built portal to project manage the service delivery at thousands of remote sites

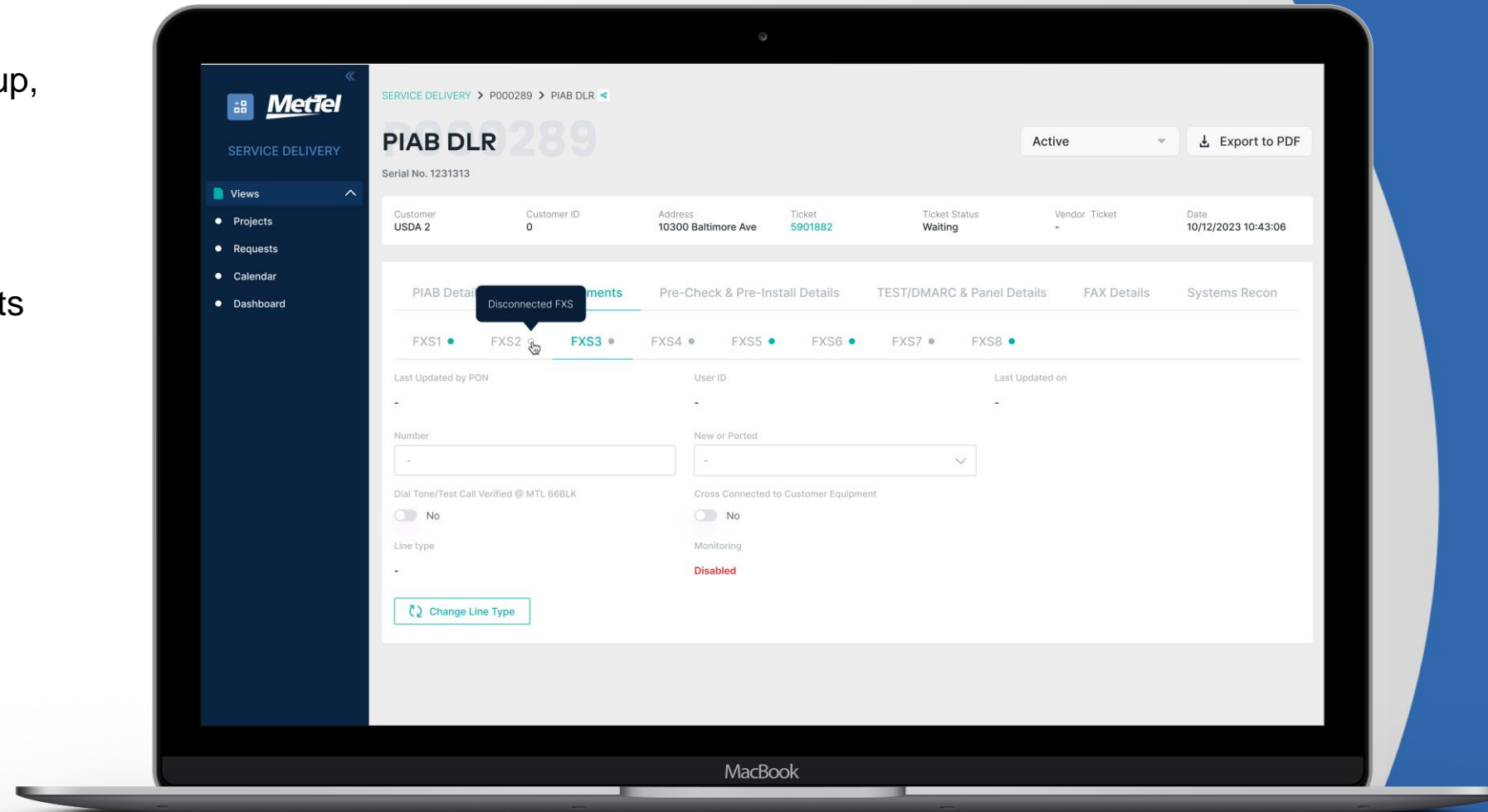
- Project view for managing status and site activity
- Request view to manage all the service delivery requests associated to each project
- Calendar view that helps automate and monitor the dispatching of field engineers and installers for each request
- Equipment layout record to manage, monitor, and maintain the current configuration and health of each edge device



Equipment Configuration Manager

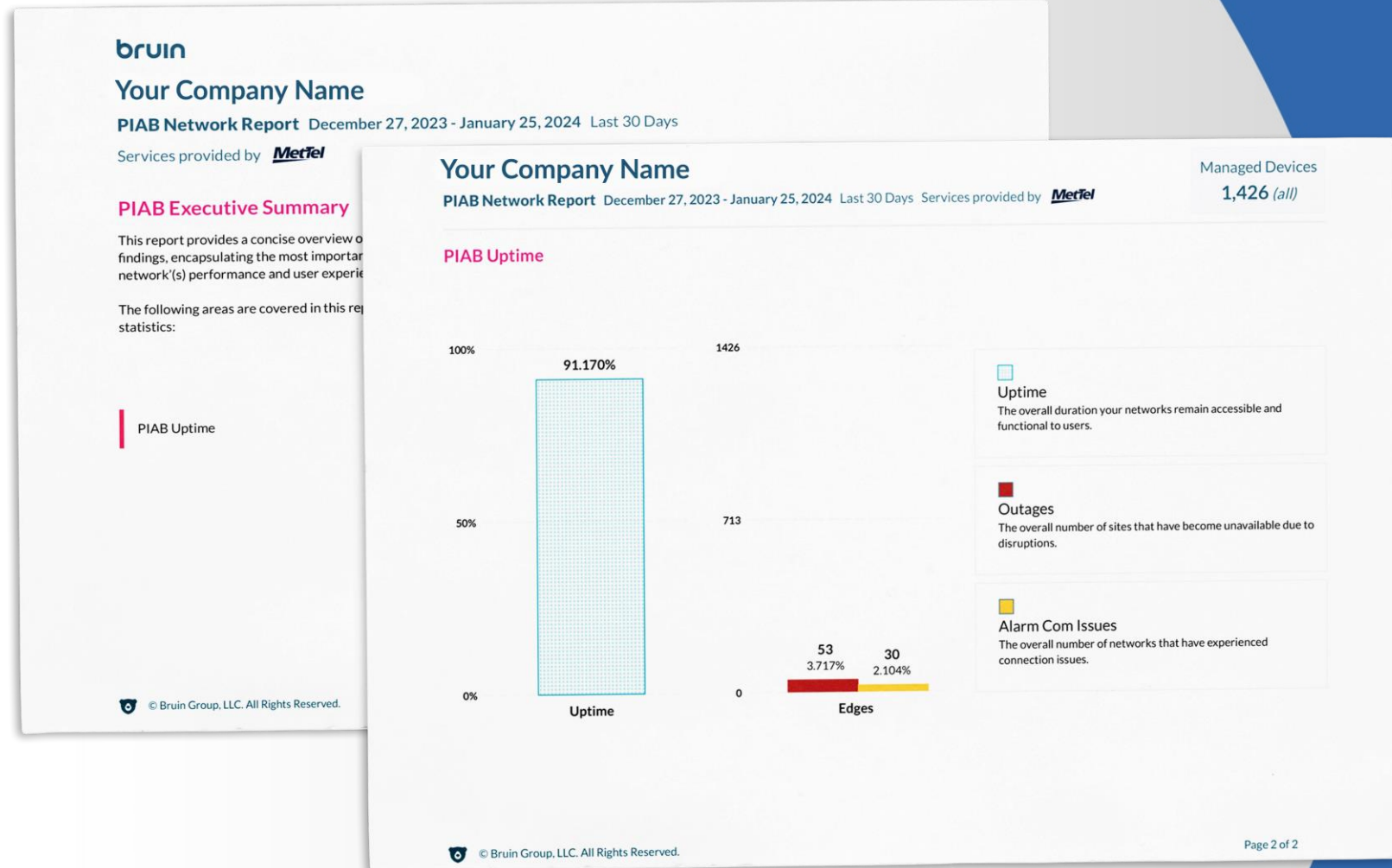
MetTel has a customer friendly equipment layout record to manage edge devices remotely

- View edge device details like model type, carrier, trunk group, etc.
- Conveniently restart the edge device remotely
- Manage FXS port assignments
- Monitor panel details like fire and burglar alarms



PDF Report Capabilities

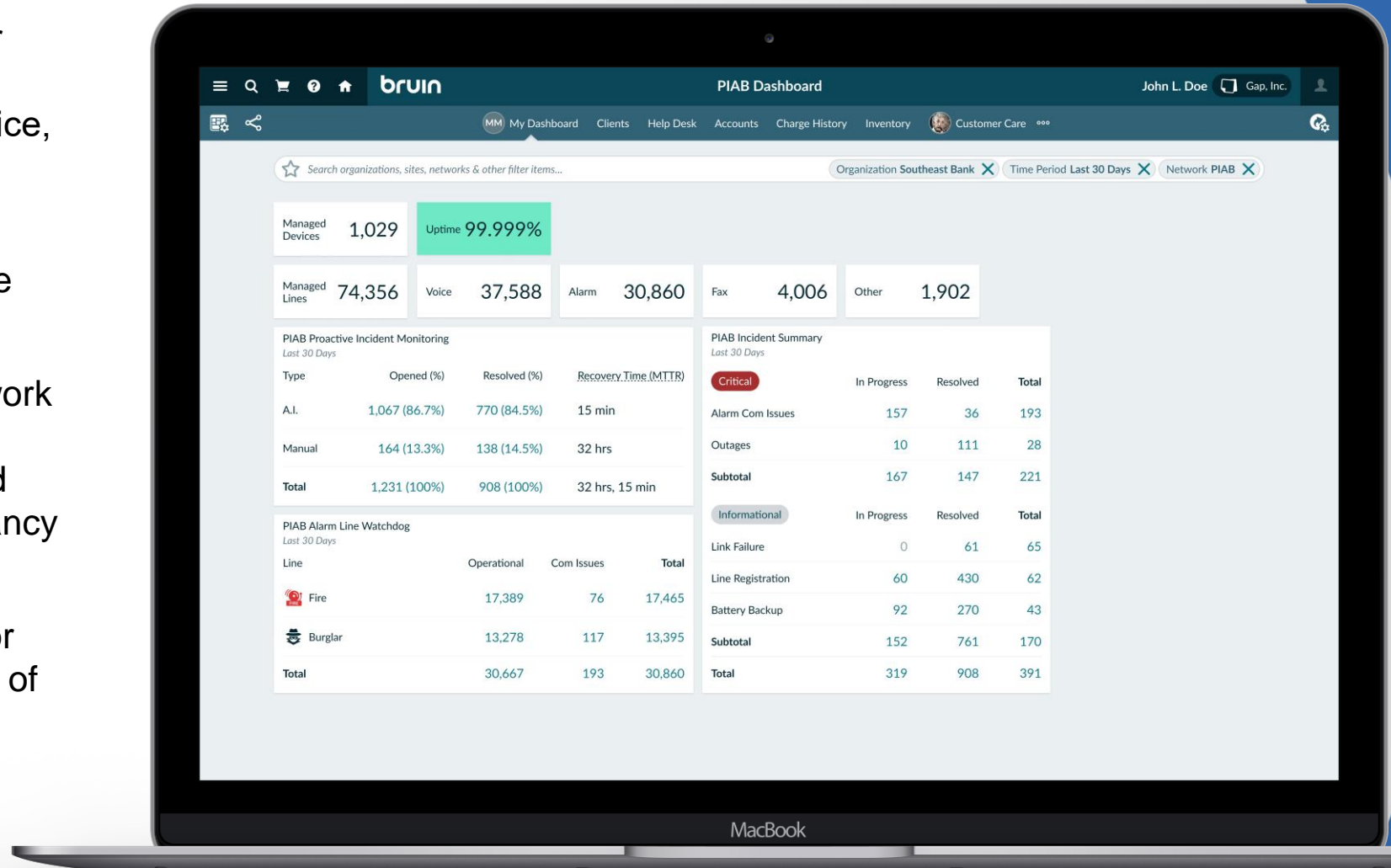
- Professional styled PDF network report delivered directly to your inbox
- Use for summary analysis and your internal presentations regarding the health of your network
- Apply report filters like date range and business hours
- Subscribe daily, weekly, or monthly



Network Dashboard

MetTel's Bruin portal has a near real-time dashboard to monitor all your edge devices

- View the total count of all your edge devices and managed “analog to digital” lines like voice, burglar, and fire alarms
- Quickly identify any sites with outages or critical line (i.e., fire alarm/burglar) failures
- Monitor the trend of your network uptime, outages, and failures. View daily network events and see the benefit of the redundancy built into your edge devices
- Subscribe to a daily, weekly, or monthly executive PDF report of all your network data and analytics





MetTel

Questions?

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Thank You!

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