Pexip Enhanced Room Management

2024

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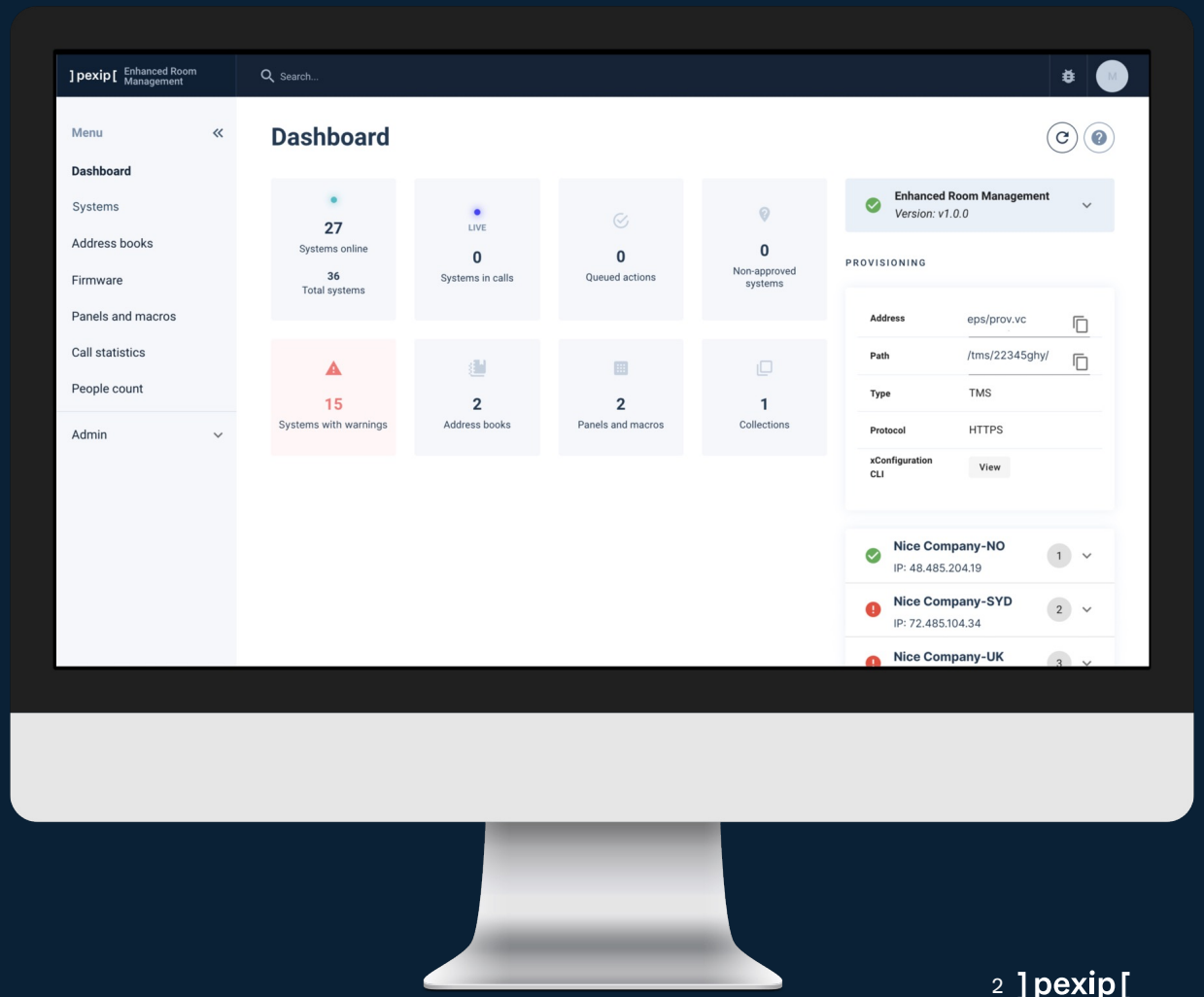
Enhanced Room Management

- Room Management for Cisco and Poly
- Reduce operational costs
- Faster time to resolve issues
- Proactive management of the service
- Support users before and during a call
- Maximise your investment
- Address books, Macros, and more..

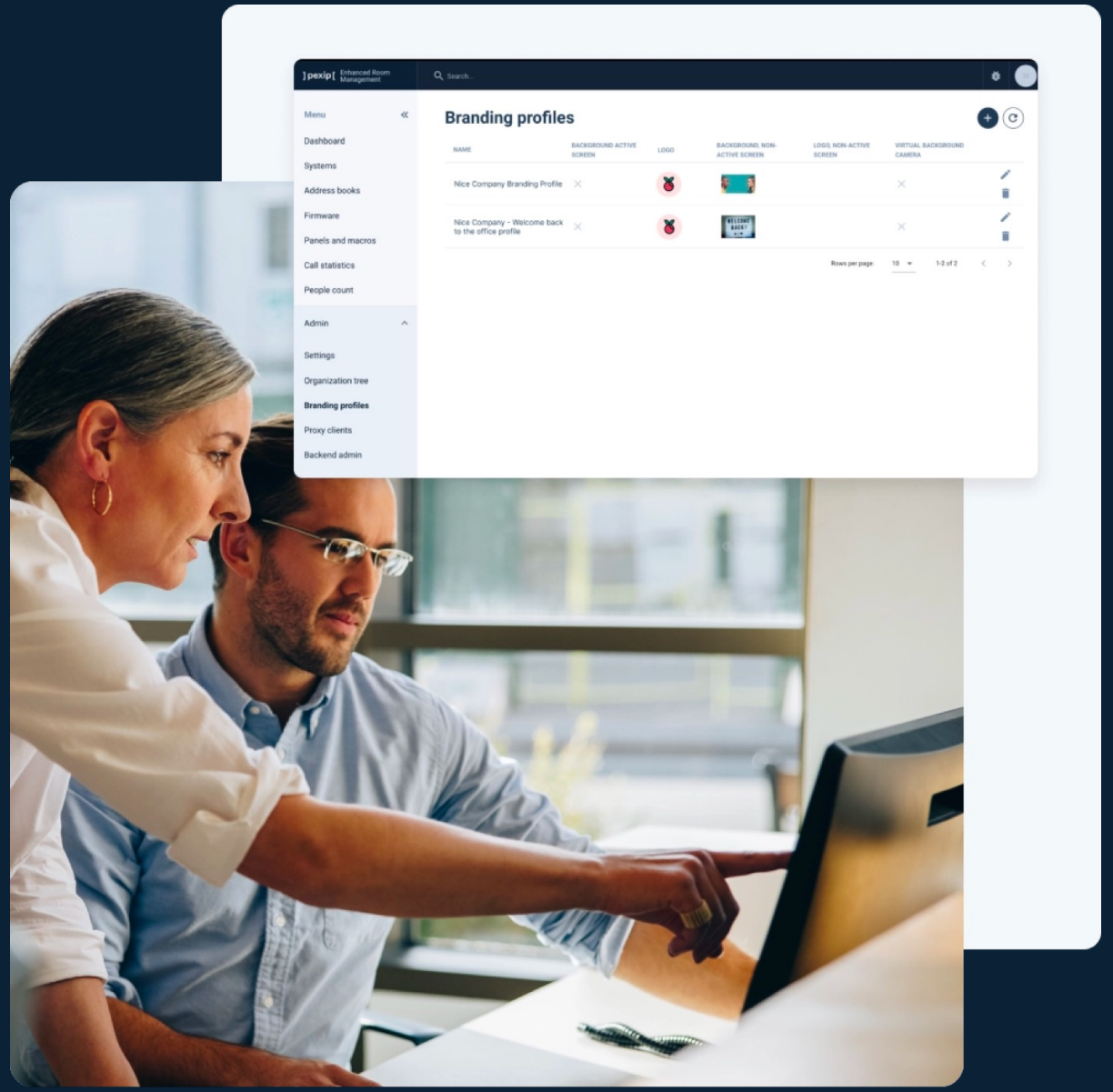


Systems

- Summary of systems, alerts, and more
- Quickly access endpoints from Cisco/Poly
- Indicators for offline and online systems
- Search for endpoint or group by type

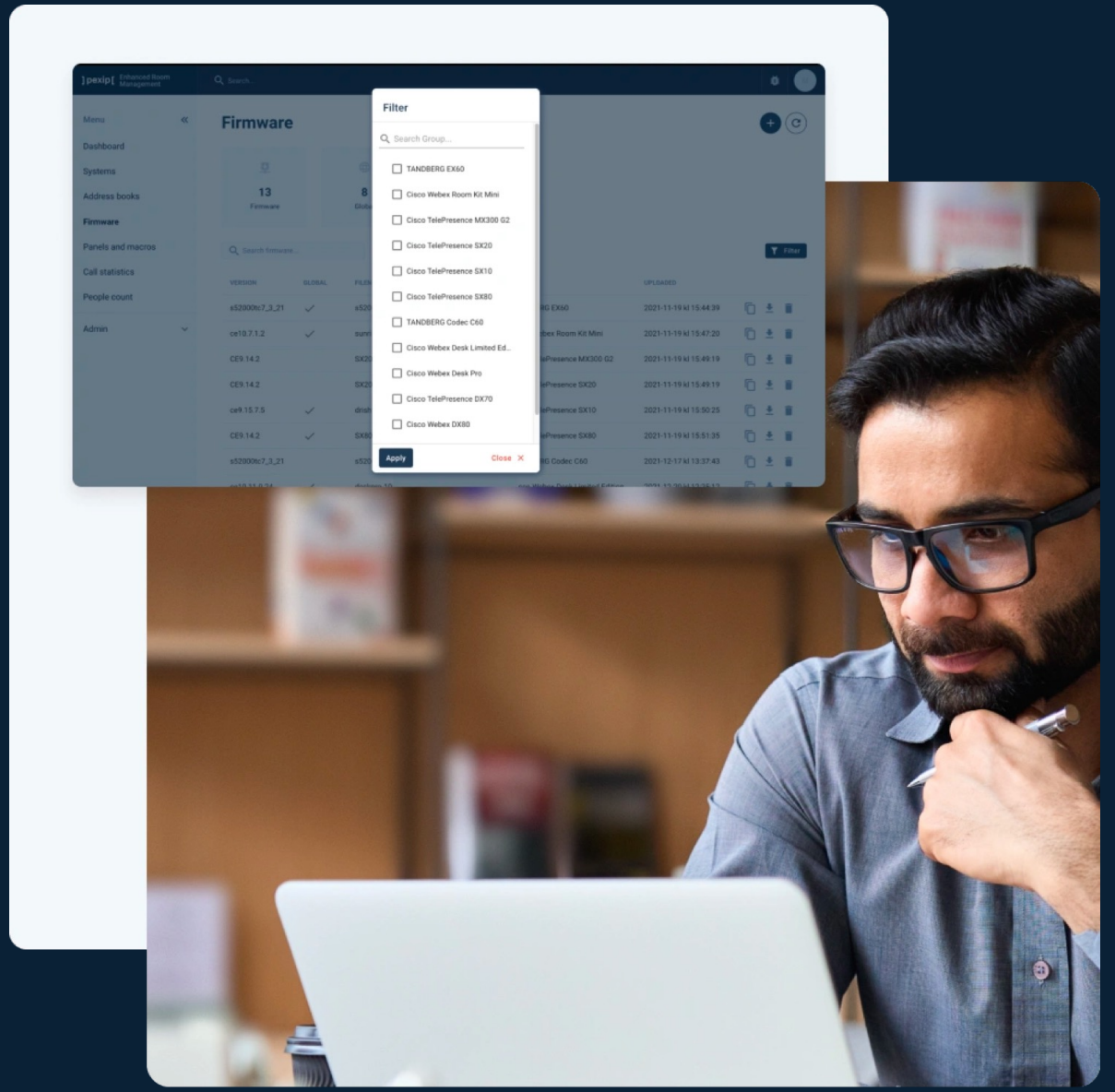
Branding Profiles

- Upload and manage branding for endpoints
- Customize where branding profiles are applied
- Quick view of branding profile images



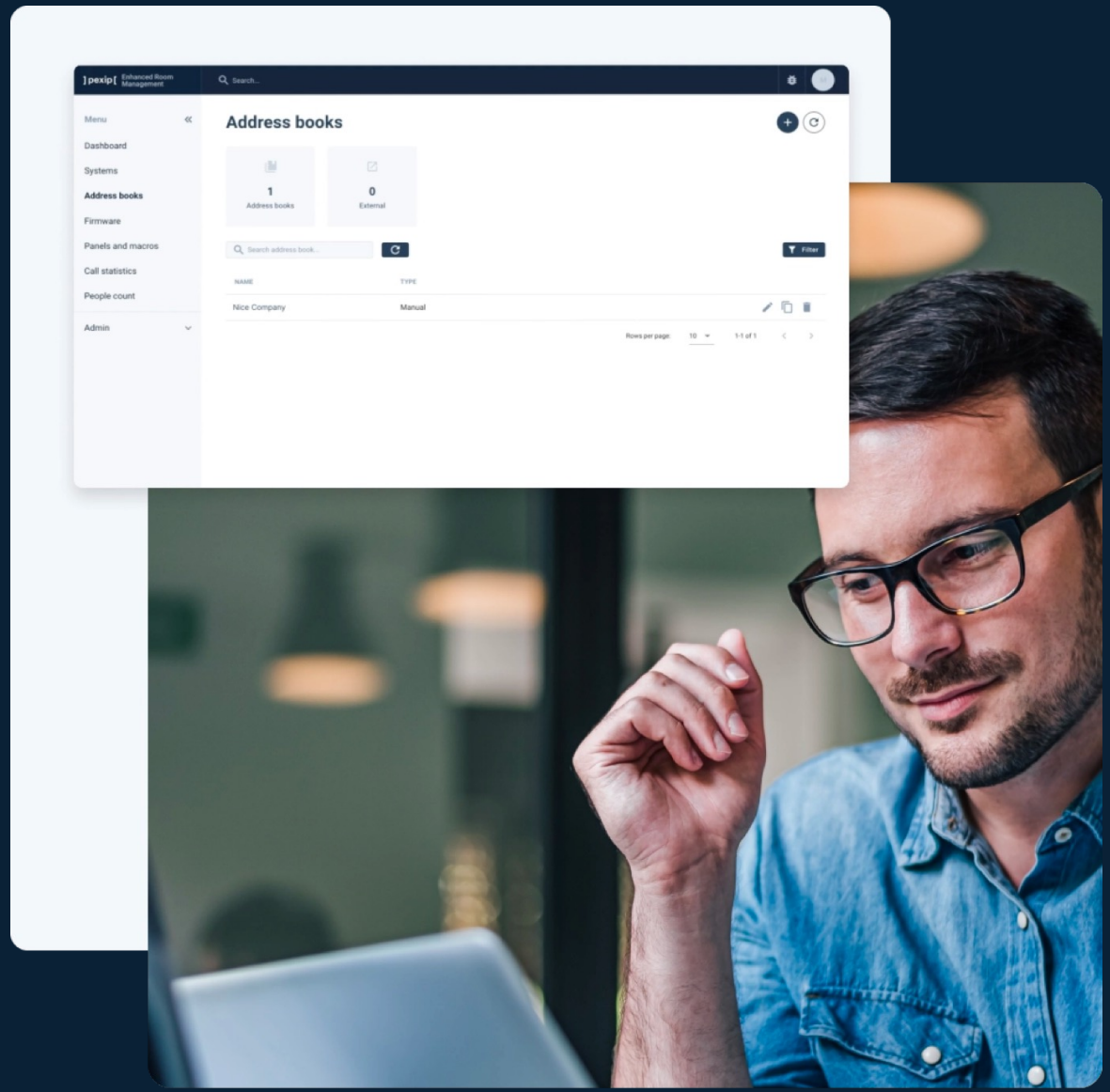
Firmware

- Upload firmware for Cisco and Poly
- Manage endpoint firmware updates
- Manually or schedule updates for endpoints



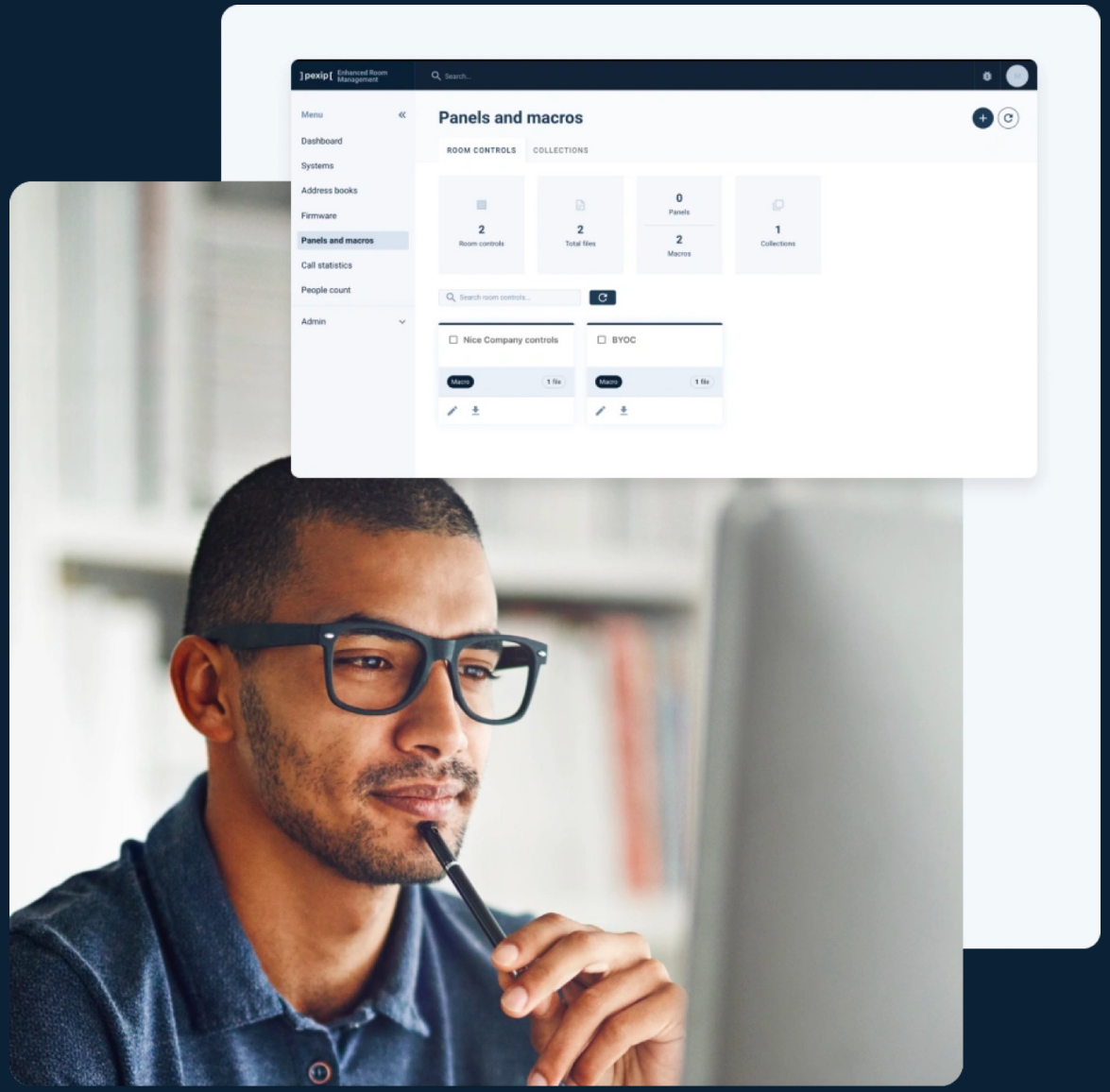
Address Books

- Manually added or synchronized sources
- Structured address books
- Manage address books for endpoints



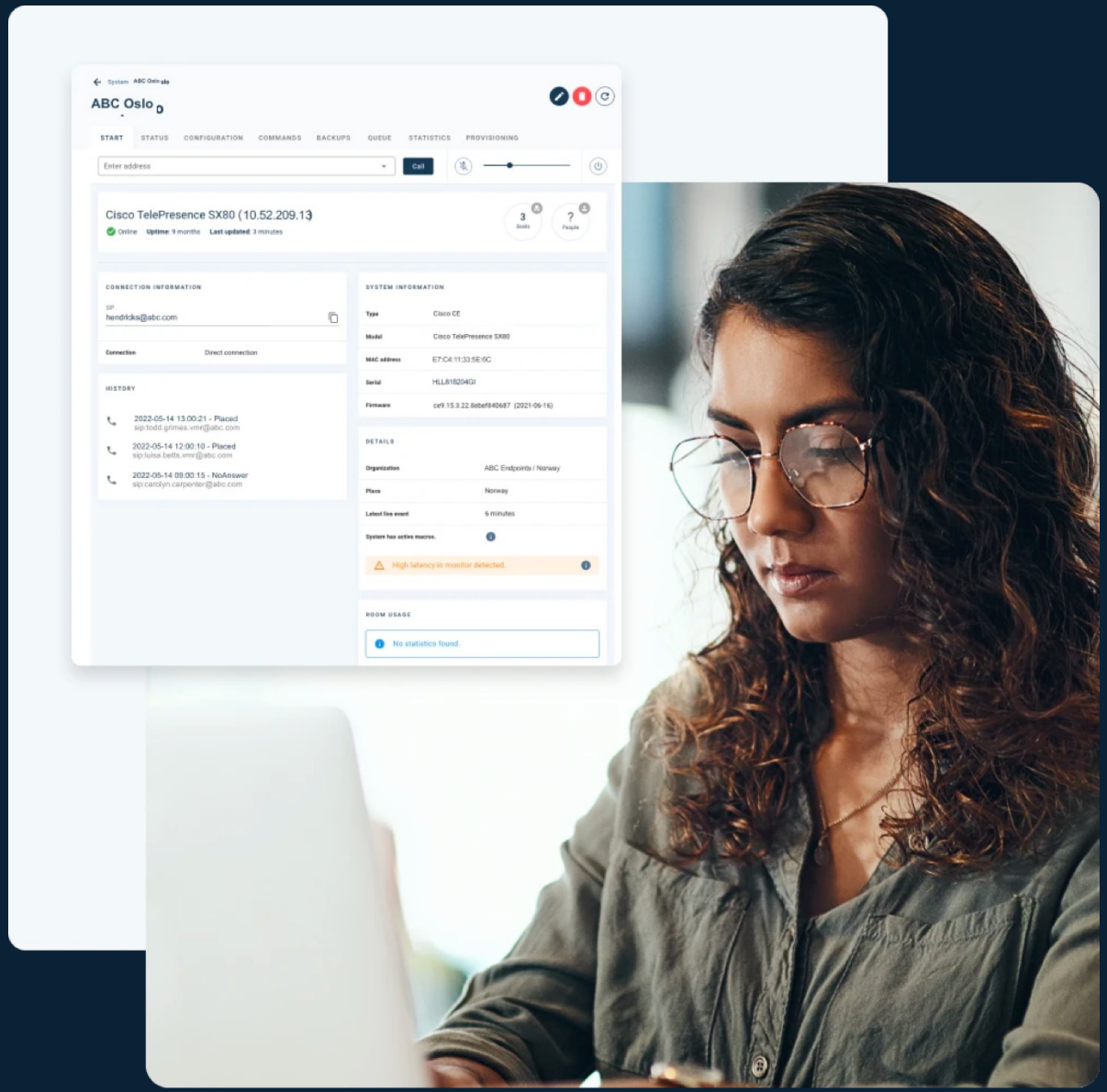
Panels and Macros

- Add room controls to ERM
- Provision to one, many, or all
- Create collections of macros for endpoints

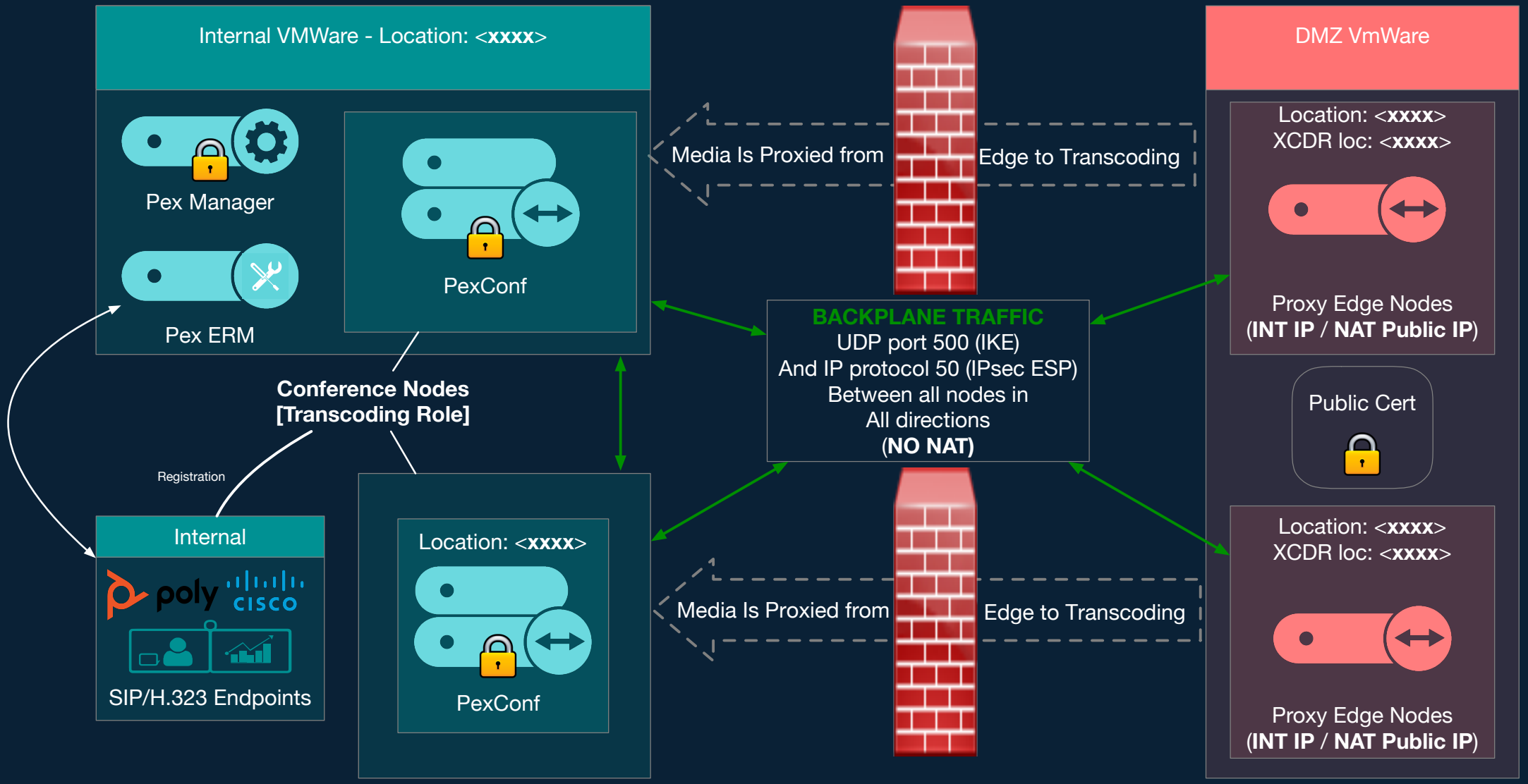


Endpoints

- Single pane of glass for endpoint webGUI
- Same controls but in simple to use interface
- Status, configuration, or restart endpoints
- Place calls, answer calls, mute, and more..



Pexip ERM in the mix



ERM TCP/UDP breakdown

OnPrem

Pexip ERM

Inbound Connections

Outbound Connections

Public Services
Web UI, Feedback Events, CDR (80,443)

Internal/operational services
Installer web UI (8999)-may be filtered in firewall
Low level troubleshooting (22)-may be filtered in firewall

API request to Pexip Infinity (443)-configurable
Video endpoints (TCP 443)
DNS (TCP 53)
LDAP (389/636)-configurable
NTP (UDP 123)
ERM license activations (TCP 443)-185.94.242.28[erm-activation.pexip.io]
ERM docker images registry and OS updates (TCP 443)-185.94.242.28[erm-registry.pexip.io]

ERM Server VM

Enhanced Room Management

ERM API Service

ERM Installer: Binds to 8999

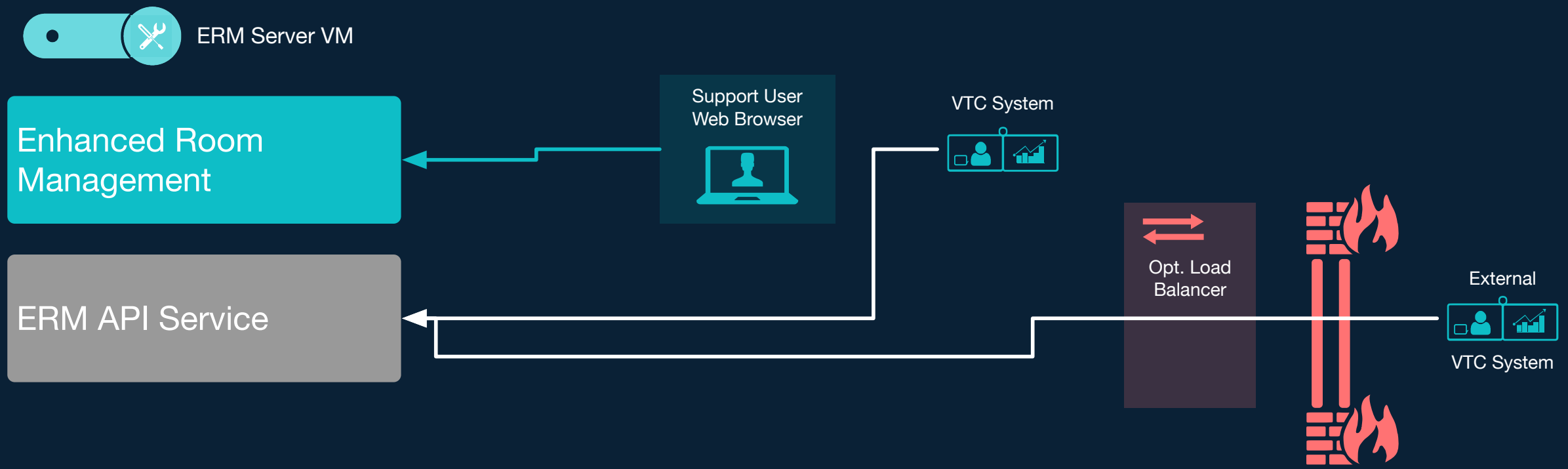
ERM MGT: Binds to 80 and 443

ERM API: Binds to 80 and 443

DNS

Certificates

ERM Traffic Flow



ERM Compute

Host Blade 1 (Example ONLY)….														
CPU-1												CPU-2		
Pexip Enhanced Room Management (4vCPU, 6GB RAM, *150 SSD)														
core-1	core-2	core-3	core-4	core-5	core-6	core-7	core-8	core-9	core-10	core-11	core-12	core-1	core-2	core-

(Shown above) Less than 500 managed endpoints

- 4 vCPU
- 6GB ram
- 100GB storage SSD/SAN recommended
- 1 x NIC

Shared Compute (reserved CPU recommended)

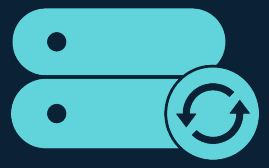
More than 500 managed endpoints

- 8 vCPU
- 16GB ram
- 200 GB storage SSD/SAN
- 1 x NIC

For larger deployments with ~500 endpoints or above, dedicated/reserved CPU capacity is required.

Management Node

Management Node



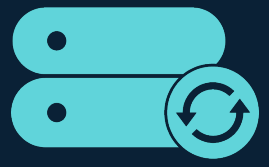
Conference Node

Edge Node

- Hosts admin web UI
- Configure and create conferencing nodes
- Configure services
- Configure platform-wide and location specific policies
- Monitor live calls / conferences
- Aggregate conferencing node log data
- Hosts management API
- One Instance Only

Conference Node(s) – aka Transcoding Node

Management Node



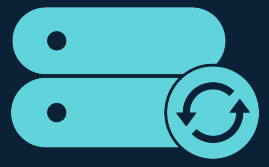
Conference Node

Edge Node

- Minimum of One, but can scale to 150+
- Grouped in logical locations
- Runs H323/SIP/WebRTC
- Does all platform ”heavy lifting”
- Video and audio processing (Individual transcoding & trans-rating)
- CPU-Heavy VM

Edge Node(s) – aka Proxy Node

Management Node



Conference Node

Edge Node

- Not a hard requirement for Pexip to work
- Serves as Pexip's FW Traversal Device
- Identical software to conference nodes; but no transcoding
- Handles Signaling and Smart Load Balancing
- Proxies media to Conference nodes
- If present in architecture, it will often have Single NIC with a Static NAT or Dual NIC.

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