

Pexip Overview – SaaS/Hybrid, Infinity, PPC

2024

Proven Security and Control Posture



FedRAMP

Pexip Government
Cloud
ATO-Achieved
FR Moderate



DoDIIN APL
JITC Certified
Fully STIGed Application
RMF control baseline
PKI/CAC Authorization



FIPS 140-2 Certified
FIPS 140-3 In-
Process
NIST CMVP #3503



Standards-based
Encryption
AES-256 Media/Signaling
TLS 1.2

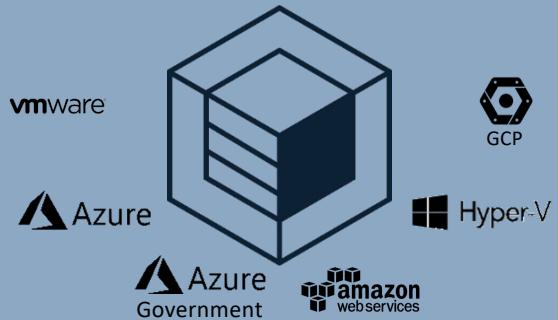


EU GDPR COMPLIANT

Pexip as the core technology

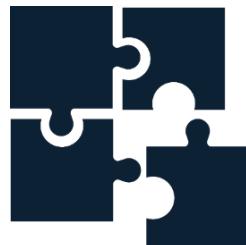
Virtualized

Entirely virtualized using cloud native APIs including cloud bursting. Runs in private data center (on-premises) or in public clouds such as AWS, Azure and others



Distributed

Designed following modern IT fundamentals, Infinity is a cloud agnostic distributed system that scales resources according to usage and geography



Intelligent

Utilizes smart scaling and data routing for efficient data processing and intelligent transcoding of media to allow for the best experience independent of connection, technology and device



Customizable

Easy configuration, monitoring and troubleshooting provides IT team total control of the network and data. Easily customized to the company's look and API, to be adopted to a business specific workflow



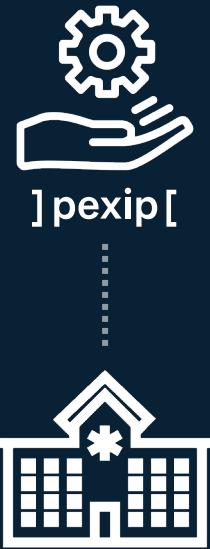
Pexip | Flexible Deployment Options

Pexip Service (SaaS)



- Fully Managed Subscription Service
- Multi-tenant
- Pexip Control Center
- 1:1, 1:many, CVI, InterOp
- Can manage SIP/H.323 Endpoints
- Little customization

Customer-Managed Self-Hosted



- Corporate data center or cloud of choice
- Self-managed capacity
- Can manage SIP/H.323 endpoints
- Can optionally leverage Pexip Smart Scale for burst capacity to Pexip
- Fully customizable
- Supports full API/SDK suite

Dedicated Private Cloud

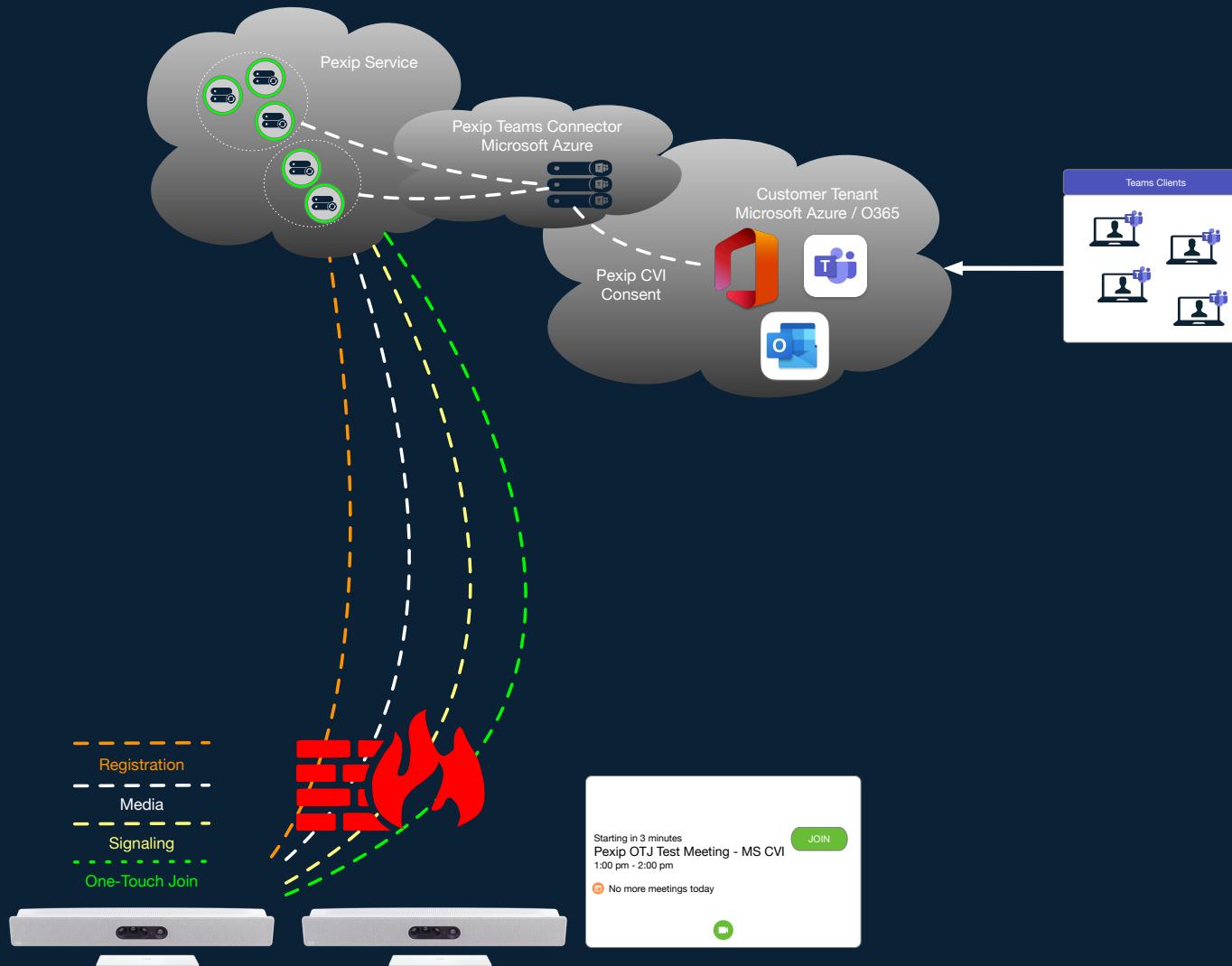


- Single Tenant
- Pexip-Managed, Dynamic Capacity
- Remove compute hosting burden
- Can manage SIP/H.323 endpoints
- Maximizes Security and Scalability While being mindful of cost
- Fully customizable
- Supports full API/SDK suite

Consumption Model – SaaS and SaaS/Hybrid

SaaS- Overview MS CVI – Poly Endpoints

- Pexip SaaS Provides:
 - Endpoint Registration
 - Microsoft Teams CVI
 - One-Touch Join
 - Trusted Devices
 - SIP Guest Join
 - Custom Branding
 - Teams Live Events
 - Teams Like Layout
 - More...

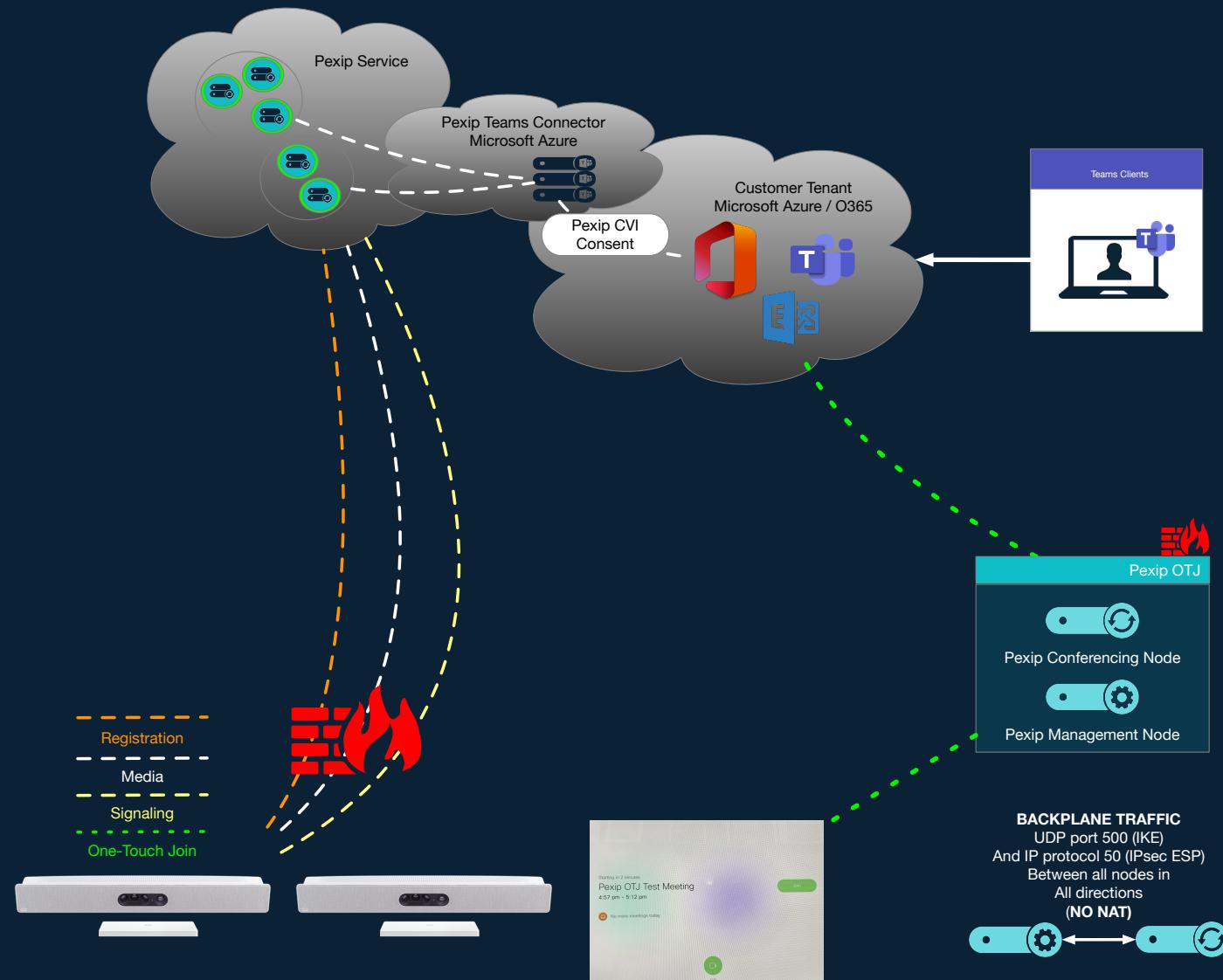


SaaS- Overview MS CVI – Poly Endpoints / OnPrem OTJ

aka: SaaS Hybrid

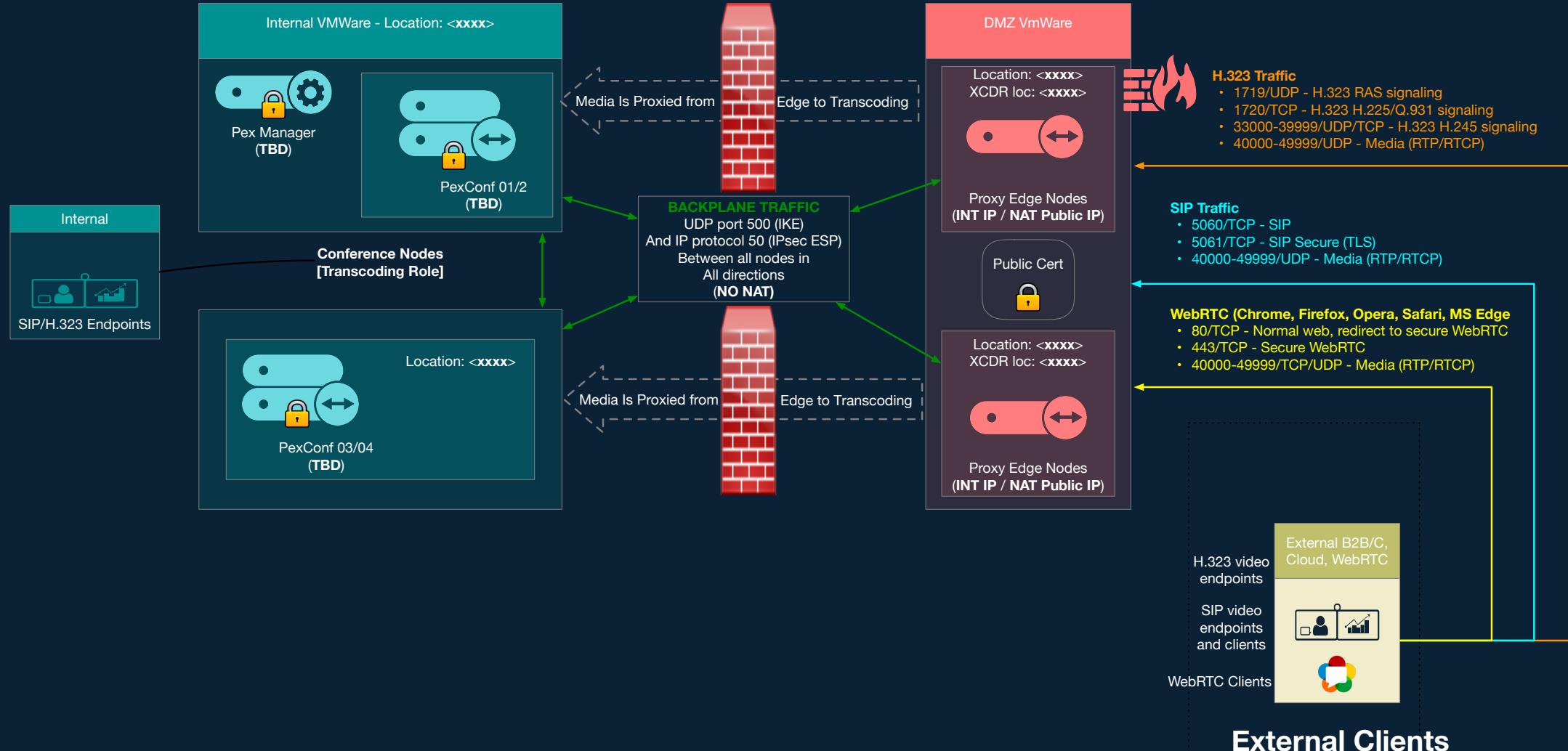
- Pexip SaaS Provides:

- Endpoint Registration
- Microsoft Teams CVI
- One-Touch Join provided OnPremise
- Trusted Devices
- SIP Guest Join
- Custom Branding
- Teams Live Events
- Teams Like Layout
- More...

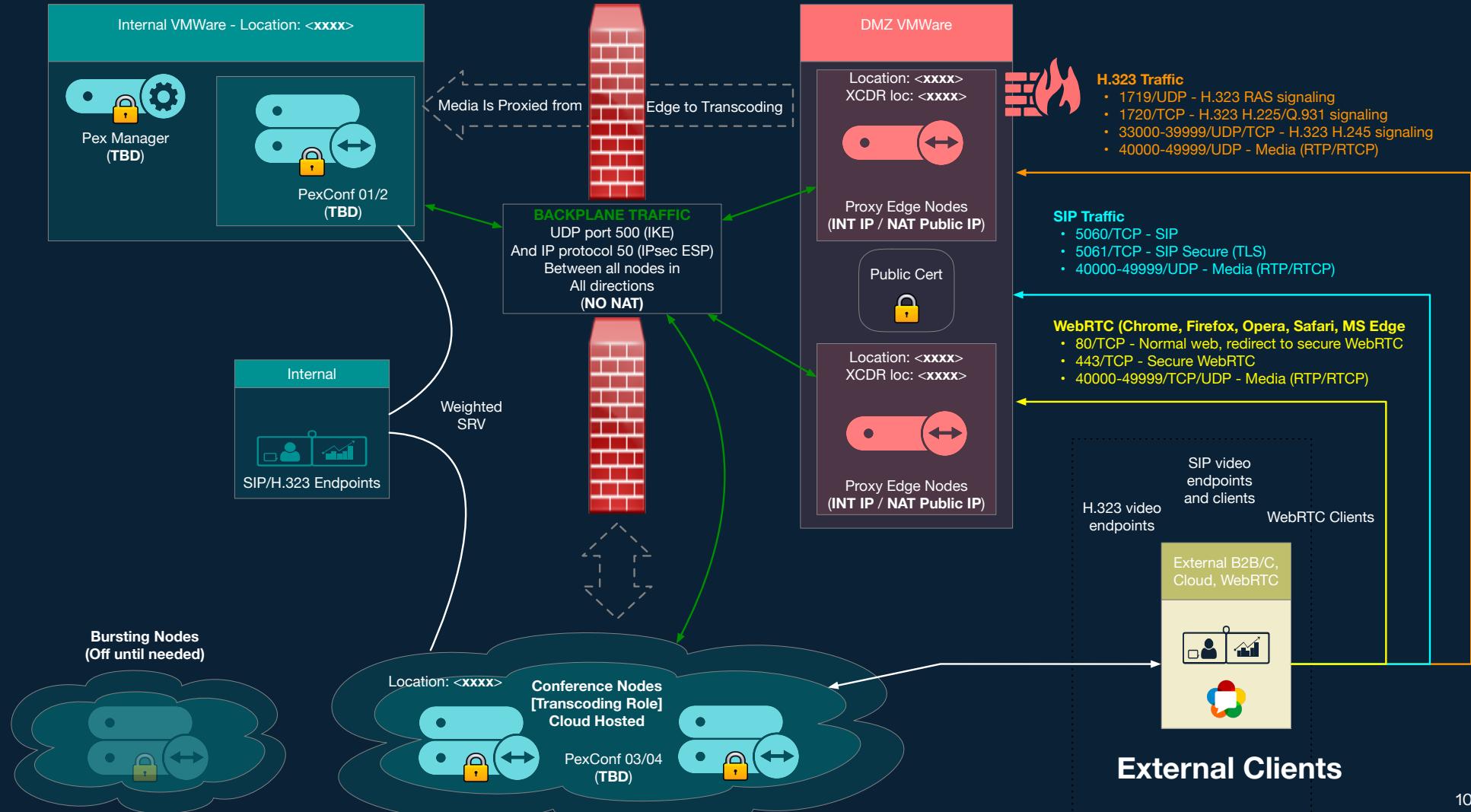


Consumption Model – Self Hosted

High Level Overview of Pexip Infrastructure

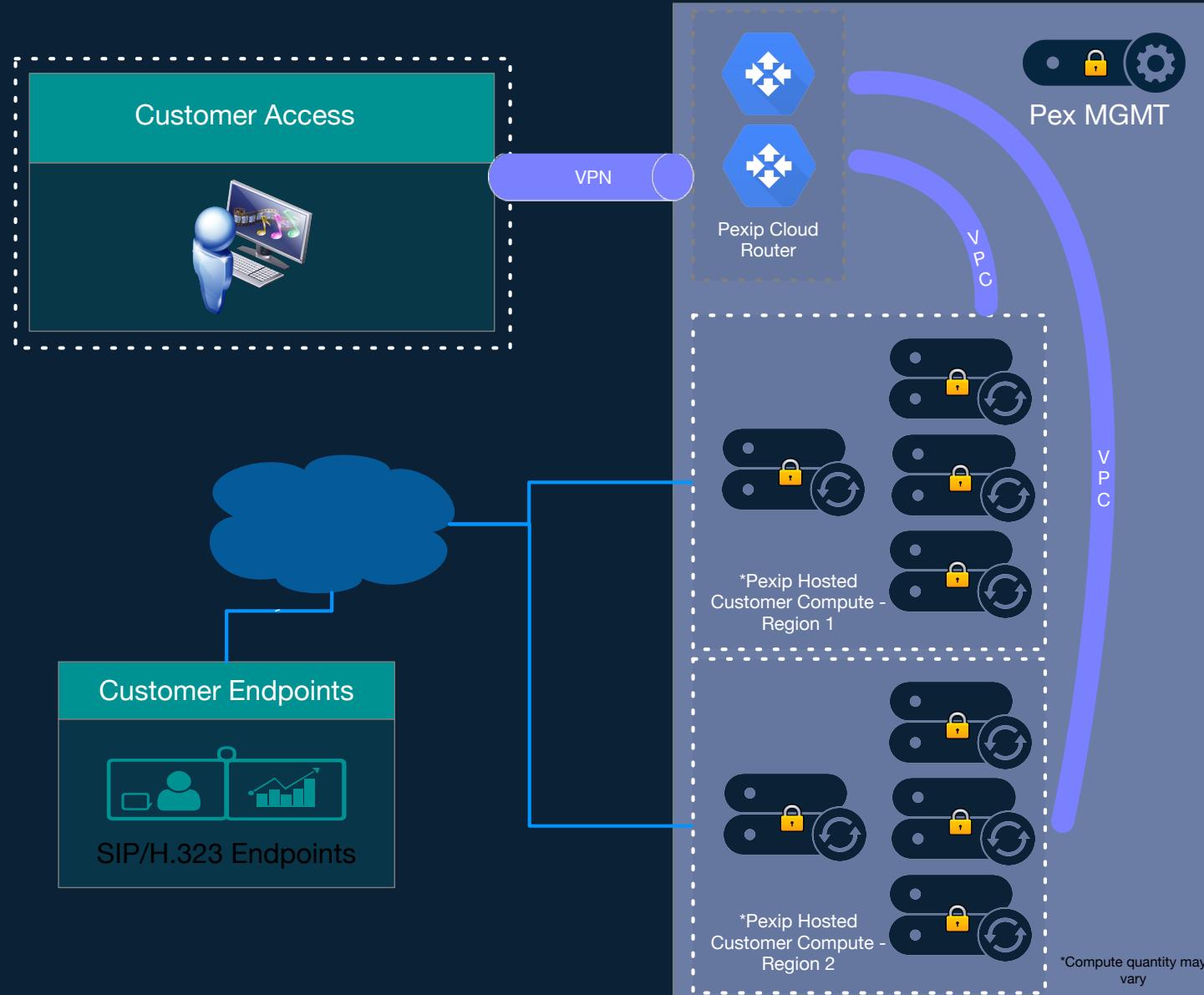
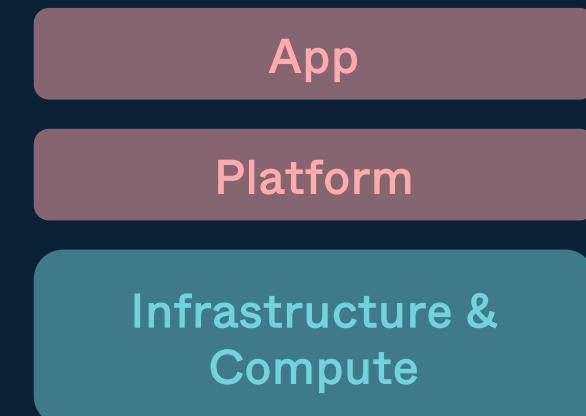


High Level Overview of Pexip Hybrid Infrastructure



Pexip Private Cloud – Pexip Hosted

- Single Tenant Infrastructure
- Customer Managed and Maintained
- Highly available infrastructure



Pexip Infrastructure Solution Components (All OnPrem Example)

Core Components



Management Node



Conference Node



Edge Node

vmware®

NUTANIX



ORACLE

Example of 3rd-party Instances that are commonly integrated with Infinity



External Policy



Event Sink



SIP Call Control



Proprietary Scheduler



RP / TURN



SysLog / Analytics



h.323 Gatekeeper



VDI



SSO / Auth



Chat / IM / P



Custom Application UI



Contact Center

Teams Connector**



- Solution co-developed with Microsoft. (Infinity Required)
- Made up of Azure components (so Azure required)
- Allows for SIP/h.323 devices to interop with MS Teams (in supported tenants)

Let's Breakdown the Infrastructure

Management 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

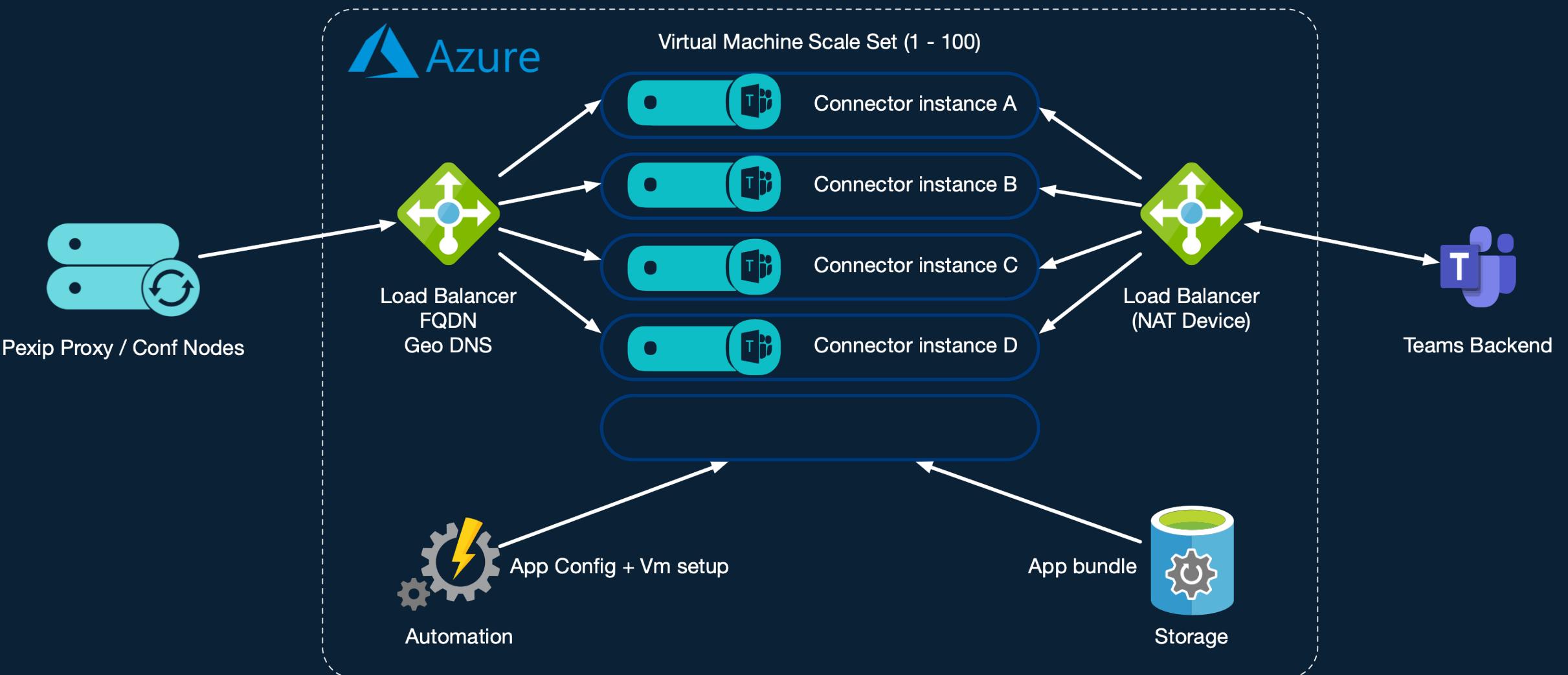


Edge Node

- 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.



Teams Connector (Optional) for Self-Hosted Deployments



Customization at the core

Infinity | Customizing The Video Experience



Native Apps and Self-Service Branding

Pexip Application Suite

- Available, fully supported, and free for use including iOS, Desktop, and web utilities.
- Enable many basic video workflows for 1-to-1 and group visits
- Can be used with any implementation of Pexip Infinity
- Web app supports code-free custom branding through the Pexip Branding Portal



Extending with Plugins

Level 1 Customization

- Pexip Web Apps are fully open source and can be customized using modular, lightweight plugins
- Sample application customizations include ad-hoc SMS / email invitations (e.g.Twilio), pre-defined dial-out to interpreter services, automated dialing to SIP endpoints, and many more
- Pexip developer support can be purchased as an add-on
- Web app supports code-free custom branding through the Pexip Branding Portal



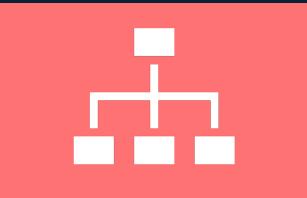
Pexip APIs

Level 2 Customization

- Fully supported APIs allow your organization to manage nearly every aspect of the video visit experience
- Pexip video can be embedded in numerous workflows, including:
 - Web Pages
 - Bots
 - Scheduling platforms
 - Contact Centers
- Ideal for organizations with in-house or established development relationships who wish to implement advanced workflows



The Pexip API Suite (almost over-simplified)



MANAGEMENT API

- Everything you can do from the management node UI
- Use for Non-Time-Critical Monitoring and Static Configuration



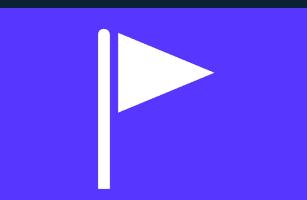
CLIENT API

- Build your own client or app
- Use for interactive control or monitoring of conferences
- Create different custom experiences for hosts vs guests



EXTERNAL POLICY API**

- Actively control conference access
- Time Critical service configuration
- Can be integrated with other systems to allow for cross-platform event triggers



EVENT SINK API**

- Monitor what is happening. JSON events sent over HTTP when conferences start/stop/change and participants join/leave/change
- Use for live participant or conference monitoring.
- Replaces polling status API (Push, not a Pull)

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