



Juniper Mist Access Assurance

Only Cloud-Native Network Access Control
Driven by Mist AI

JUNIPER
NETWORKS

What's Wrong with NAC Solutions Today?

Require professional services or a dedicated NAC IT expert

Solutions are complex and brittle

Impossible to manage without breaking

Cumbersome troubleshooting and lack insights

No end-to-end visibility

Lack agility and scale

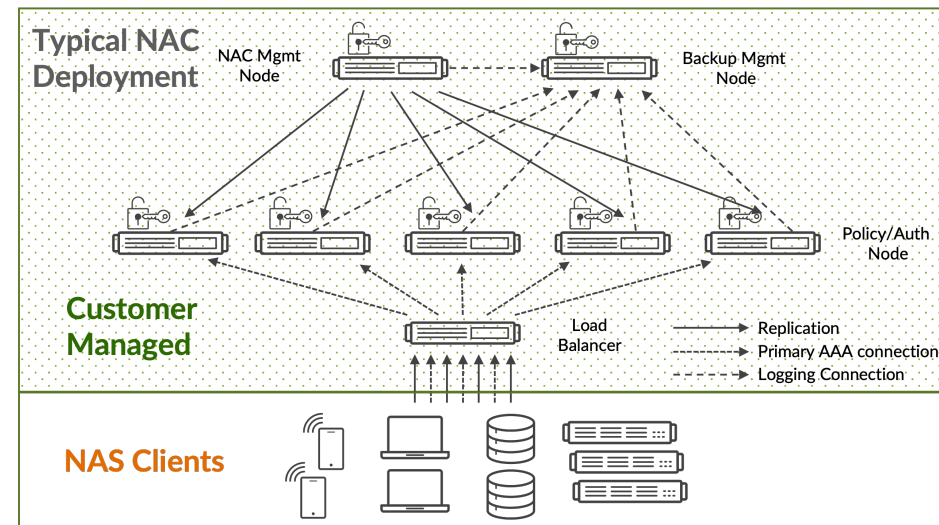
Legacy LDAP and on-prem directories

Requires downtime

Maintenance, feature updates & security patches

Current NAC Customer Responsibility

- 1) Design for service redundancy
- 2) Design for high availability
- 3) Design for scale
- 4) Manually scale up or down
- 5) Maintain server hardware / VM servers
- 6) Perform upgrades / security patches



Juniper Mist Access Assurance

True Cloud-based Network Access Control Driven by Mist AI



Cloud-based Network Access Control for Guest, IoT, BYOD and Corporate devices



Easy-to-use access policies and workflows



Built-in Redundancy and High-Availability

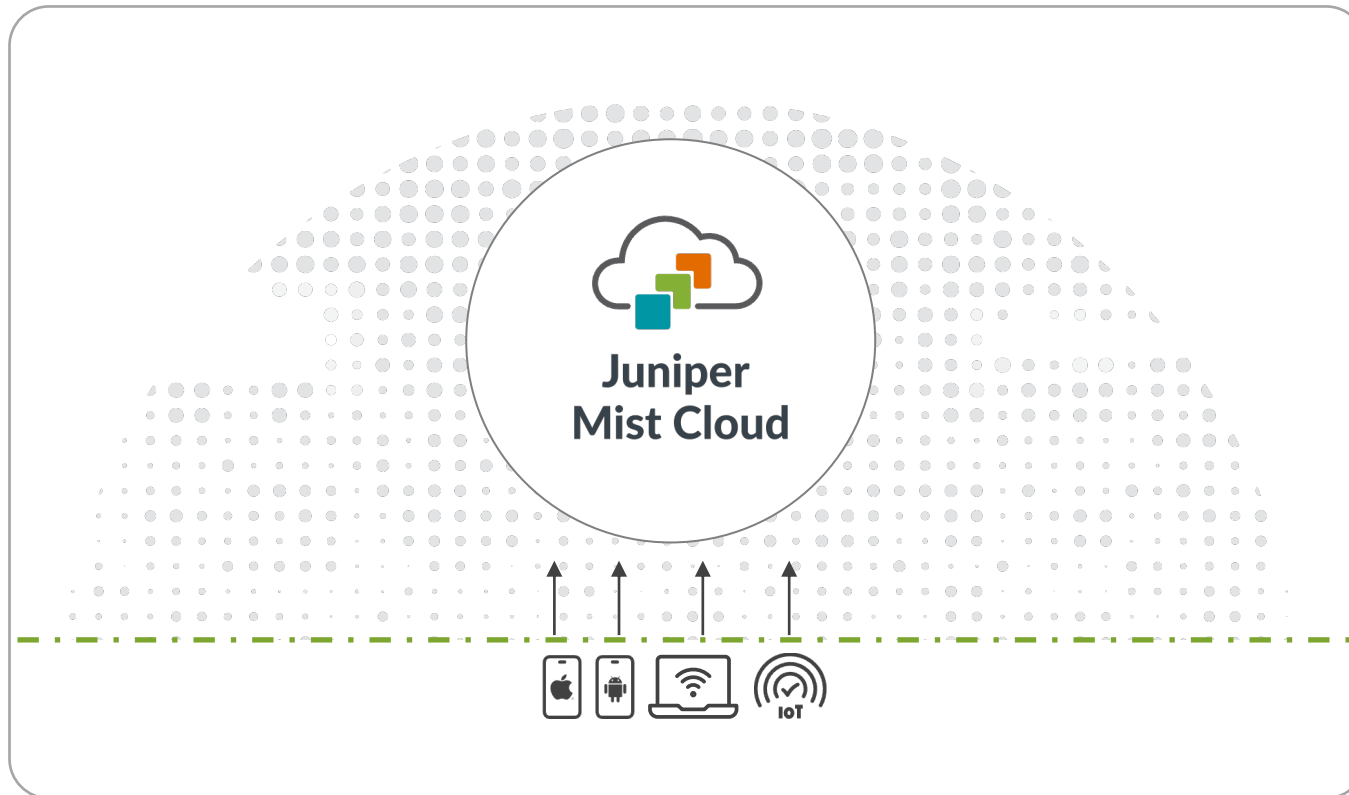


Optimized day 0/1/2 Operations – Full NW stack



Juniper Mist Access Assurance

Moving to the integrated cloud



- ✓ **Microservices-based** Cloud NAC service natively integrated into network operations.
- ✓ **IT-friendly Day 0-2 operations** fully integrated into the network, continuously validating end-user experience.
- ✓ **AI-Native** network operations extended to network access control.
- ✓ **Periodic hitless feature updates** security patches and vulnerability fixes without downtime planning.
- ✓ **Geo-awareness, high-availability** Intrinsically available with the Juniper Mist Cloud.

Juniper Mist Access Assurance Framework



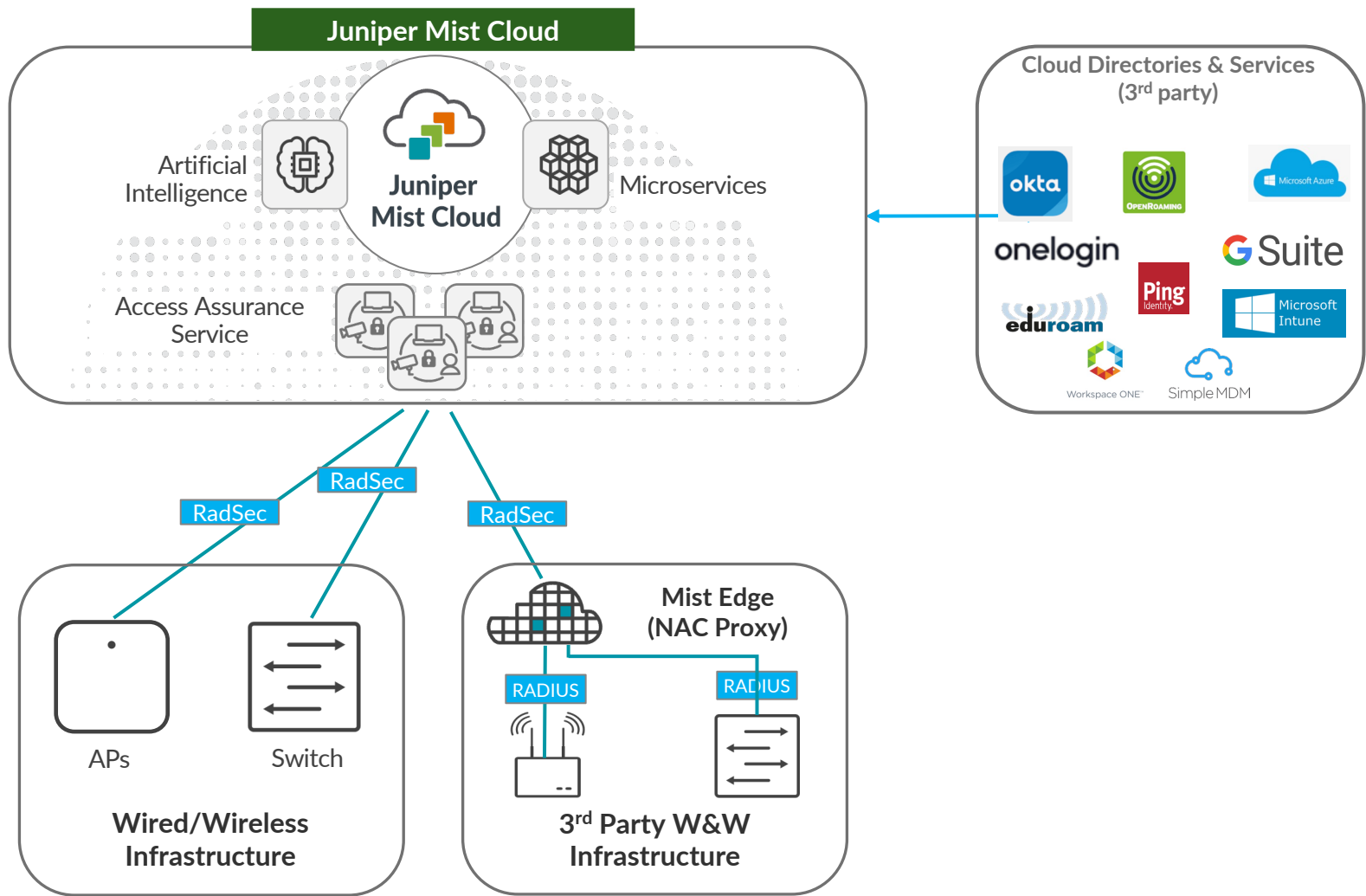
Micro-Services based Cloud NAC Offering



Industry-first AI powered operations



IT-friendly day 0-2 operations





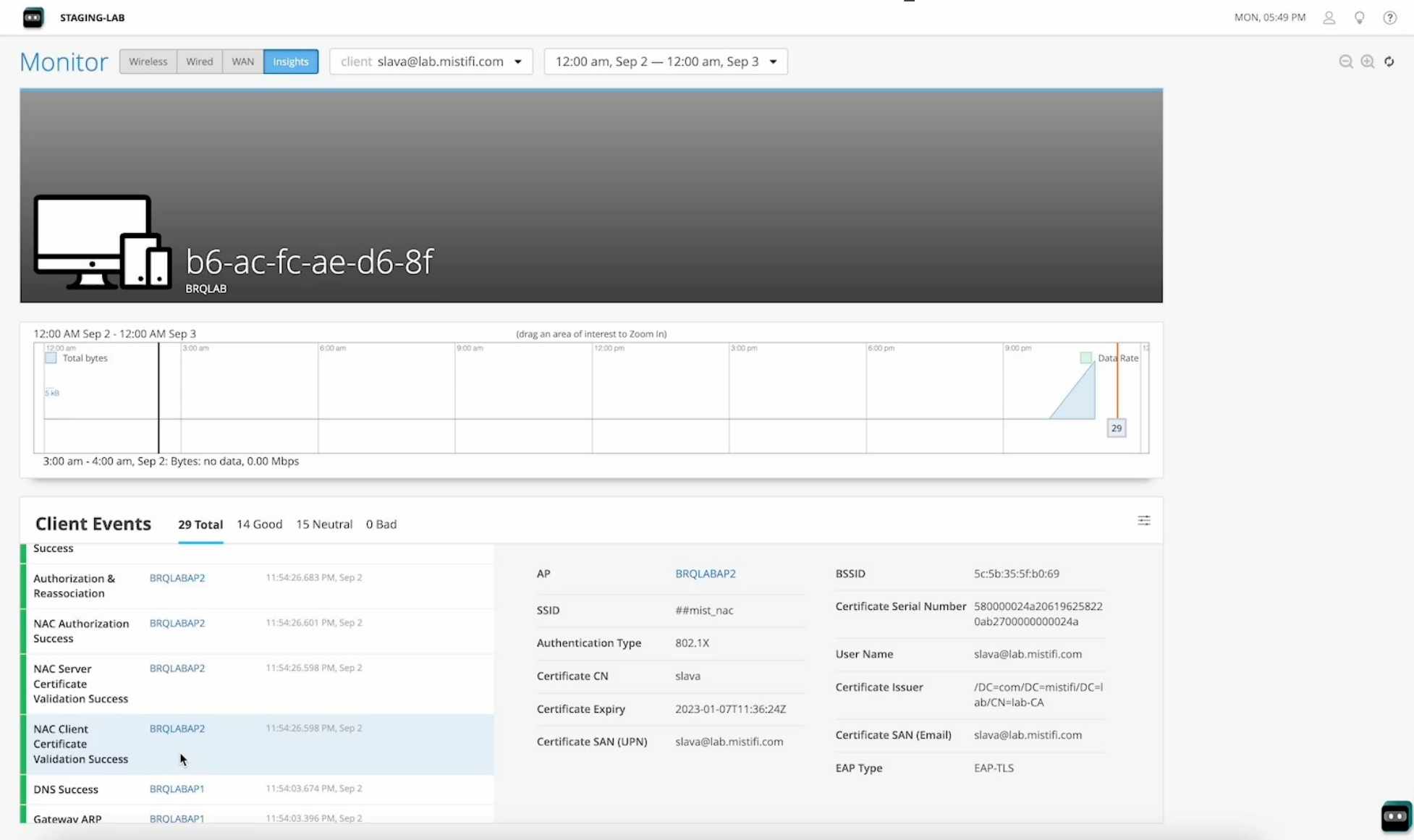
Access Assurance in Juniper Mist

Integrated into the Network – Mist AI

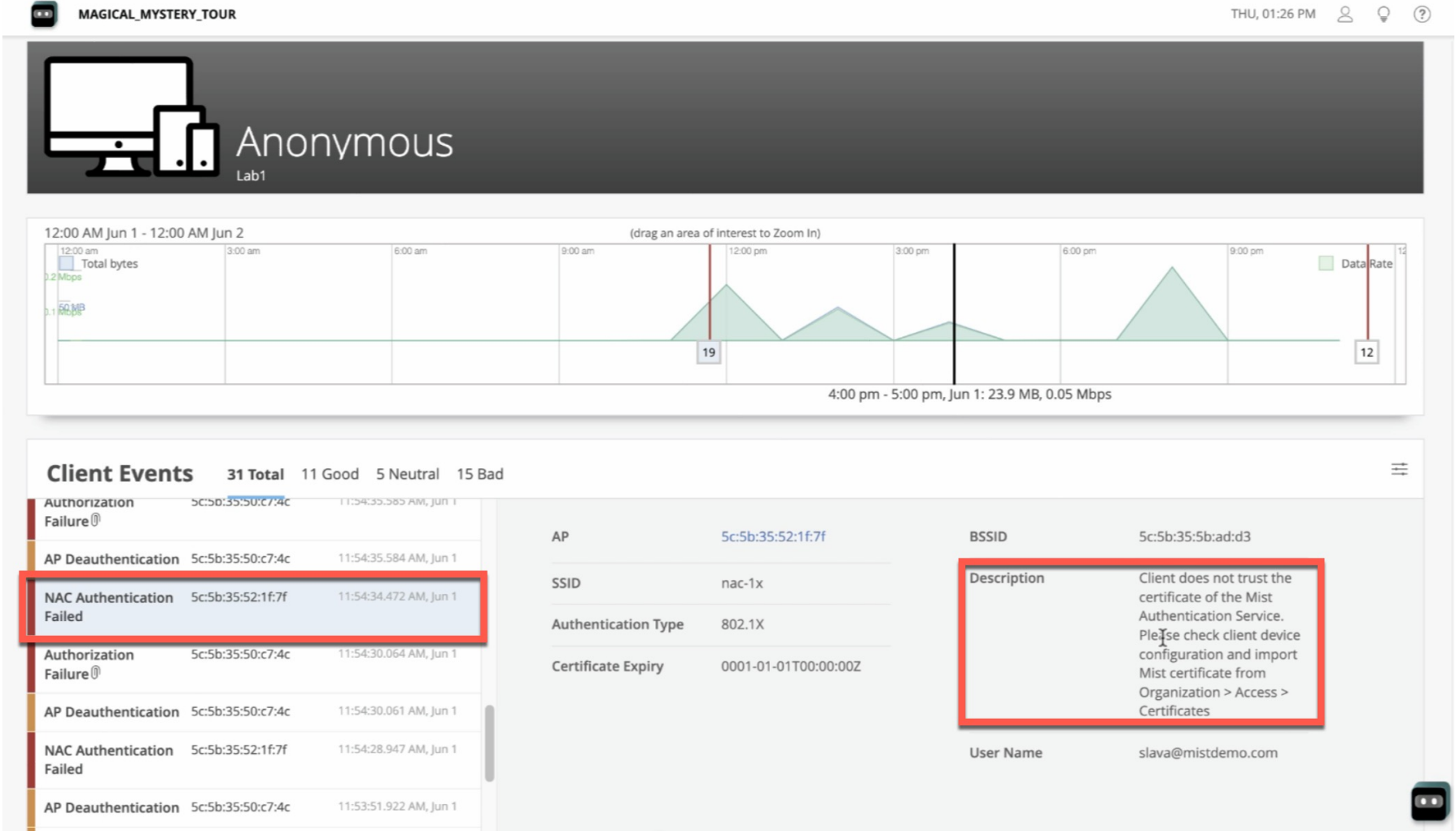
- Access Controls front and center
- Access Set-up in Mist
 - Policies
 - User and device certificates
 - Direct Integration into cloud directories and IDP
 - Pre-shared Keys for IOT and BYOD
- Features and Security updates implemented transparently
- 100% API-driven

The screenshot shows the Mist AI management console interface. The sidebar on the left contains navigation icons and labels: Monitor, Marvis™, Clients, Access Points, Switches, WAN Edges, Mist Edges, Private 5G, Location, Analytics, Site, and Organization. The main content area is titled 'Auth Policies' and includes a description: 'Each user authentication attempt is evaluated according to the list of Policy rules based on Match criteria. Only the first matching policy rule'. Below this is a table with columns 'No.' and 'Name'. The table has two rows: Row 1 with '1' and 'None', and Row 2 with '2' and 'None'. To the right of the table is a 'Match Criteria' section with a dropdown menu set to 'all' and several tags: 'Employees in Azure AD', 'User certs', 'Wireless', 'EAP-TLS', and 'Wired'. A dropdown menu for 'Authentication Servers' is open, showing options: Mist Auth, RADIUS, RadSec, Mist Edge Proxy, and Mist Auth. The 'Access' menu is highlighted in the sidebar, and the 'Pre-Shared Keys' option is selected under the 'Wireless' section.

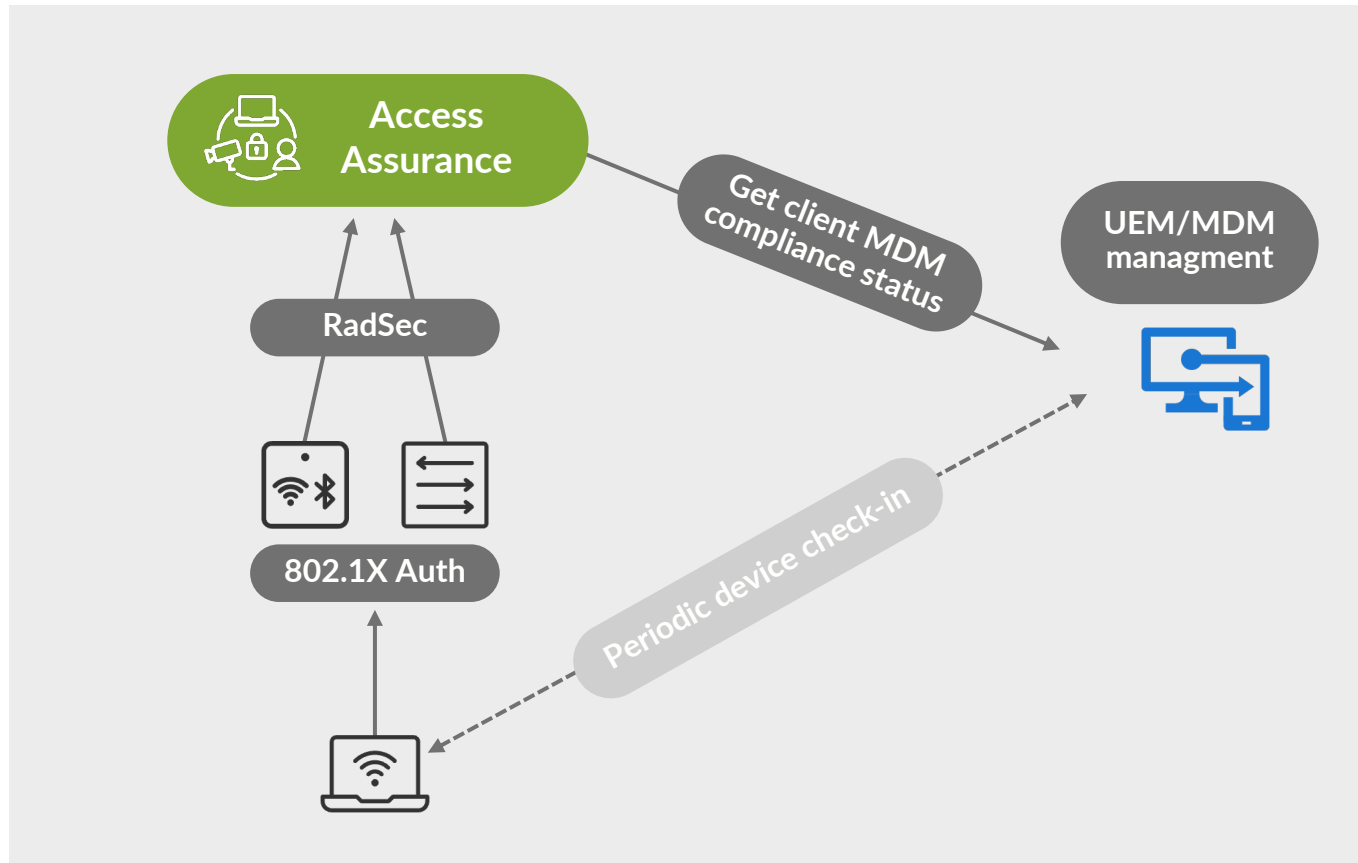
Client Events Extend to NAC Operations



Mist AI-Native User Experience Monitoring



Simplifying and Securing End-to-end Posture Validation with Juniper Mist Access Assurance



Why does it matter?



The simplest way to enforce network access control (NAC) with posture in the modern cloud.



End-to-end network automation for posture enforcement.



Easy cloud-to-cloud integration with well-known endpoint management / security platforms.

* Support for Microsoft Intune, Jamf, VMware Workspace One (fka Airwatch)

Simplified End-to-End Posture Integration



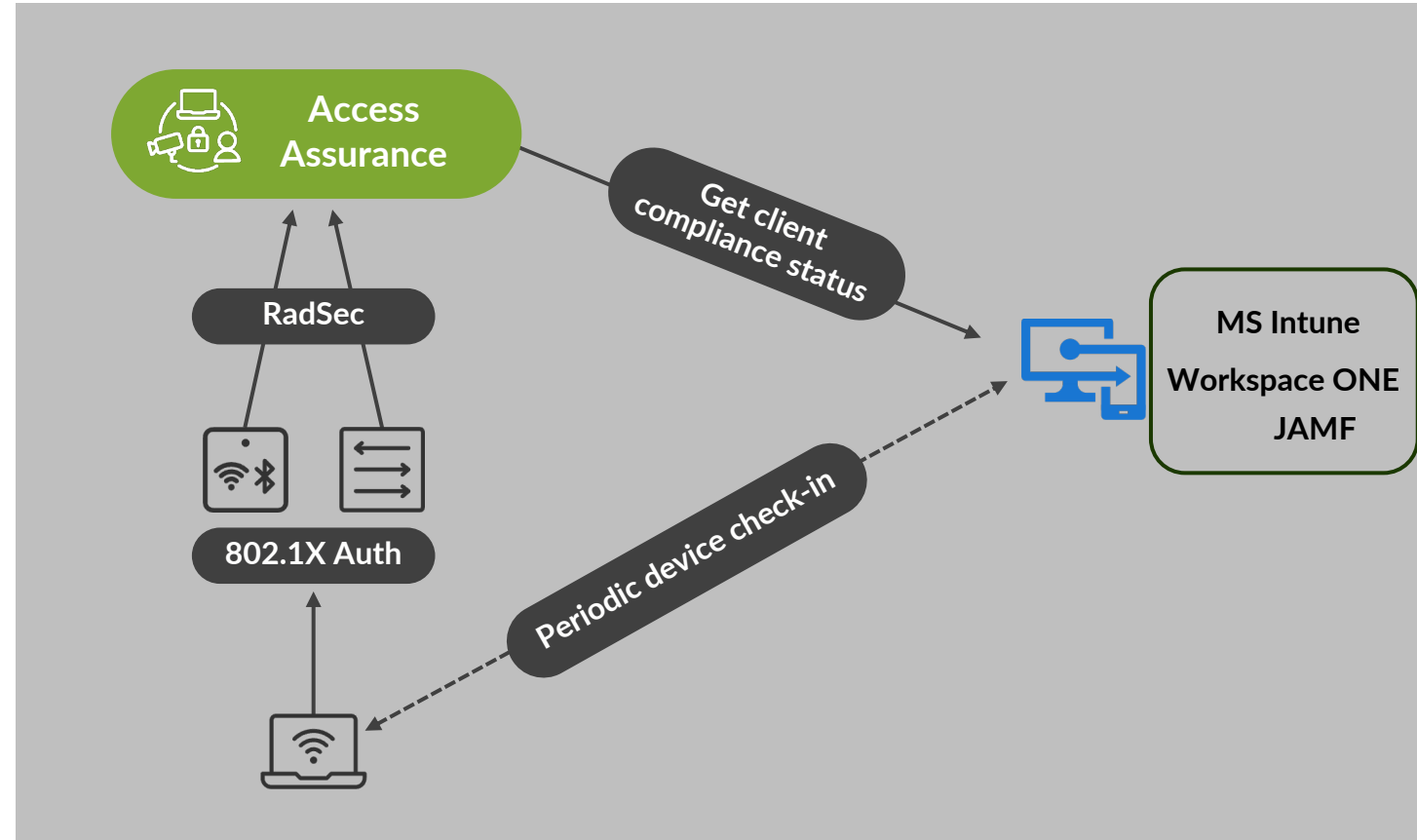
Ensure compliance and enforce access control in the cloud



End-to-end automation for posture enforcement



Easy cloud-to-cloud integration with MDM/UEM platforms



Simplified End-to-End Posture – Setup

Juniper Mist

Monitor

Marvis

Clients

Access Points

Switches

WAN Edges

Mist Edges

Private 5G

Location

Analytics

Site

Organization

[MIST CSQA] STAGING-LAB

Change language (en) WED 12:41 PM

9 Identity Providers

Static Configuration

Add IDP

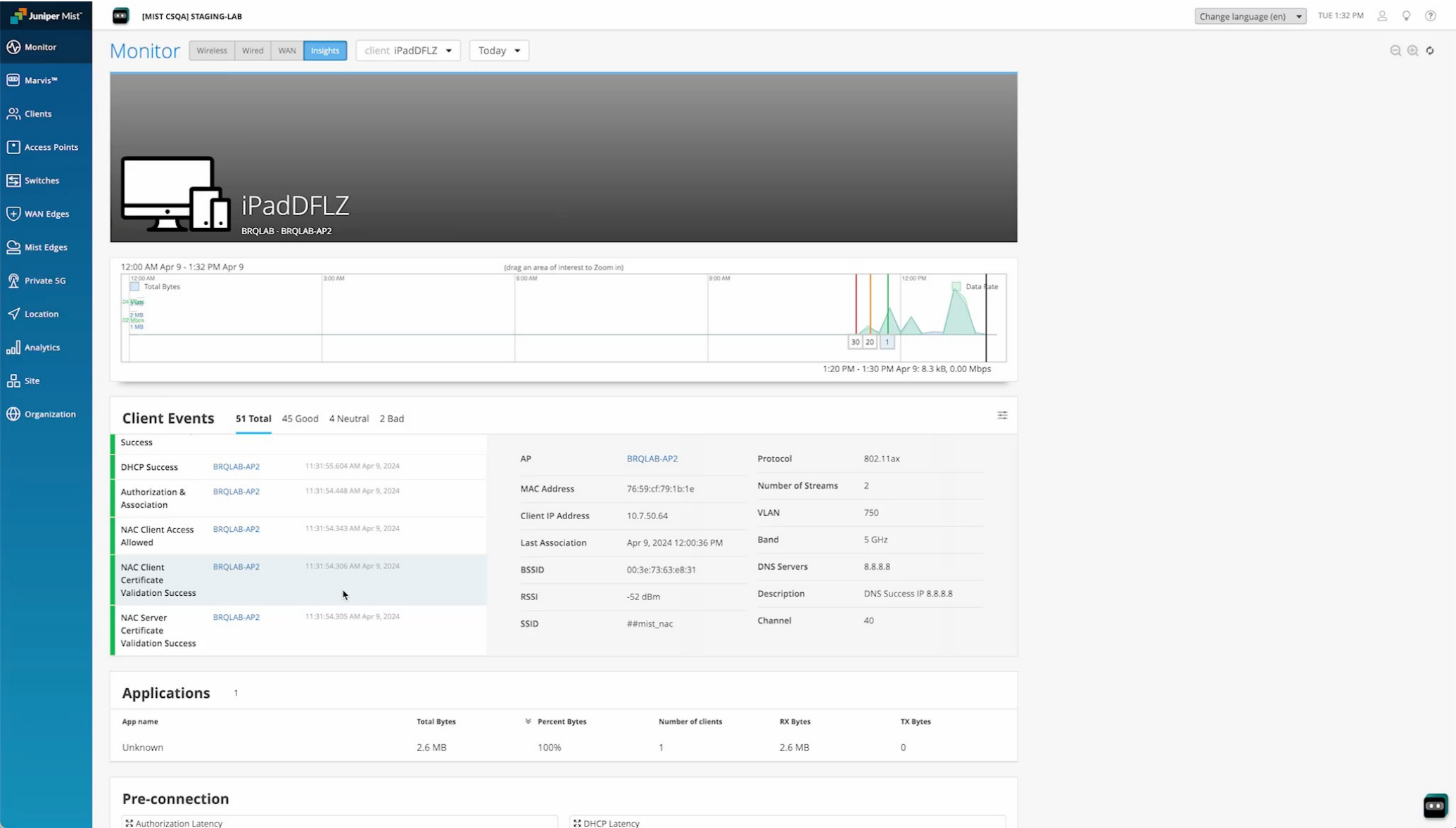
| Name | IDP Type | Default IDP |
|--------------------|-----------------|-------------|
| OktaNewAppTest | OAuth | |
| oauth-okta | OAuth | |
| mxedge-aws-eduroam | Mist Edge Proxy | |
| Local AD | LDAPS | |
| Google LDAPS | LDAPS | |
| Azure OAuth | OAuth | |
| Azure AD | LDAPS | |

Linked Accounts

Link Account

| Status | Application | Company Name |
|--------|-----------------------------------|--------------------------------------|
| ● | jamf PRO Jamf Pro | ef7637b6-6d15-4ff9-8d59-c2252f2afa3c |
| ● | Microsoft Intune Microsoft Intune | 255d31b5-3f25-457a-b6ec-3877a4411593 |

Simplified End-to-End Posture – Visibility



Access Assurance - Support for IOT & BYOD

Enabling Provisioning, Policies, Operations

- Org Level PSK (Pre-Shared Key)
 - Cloud Scale
 - Cloud PPSK (Private PSK) Lookup
 - Org-level per PSK client visibility
- Key Life Cycle Management
 - Automatic Key Expiration
 - Key migration
- Self Provisioning Portals
 - Supporting cloud directory connectors
 - Workflow based self-service portals
 - BYOD vs Guest vs visitor

The screenshot displays the Juniper Mist management interface. The left sidebar contains navigation options: Monitor, Marvis™, Clients, Access Points, Switches, WAN Edges, Mist Edges, Location, Analytics, Site, and Organization. The main content area is titled 'LIVE DEMO' and 'Pre-Shared Keys'. It features a table with columns for SSID, Role, and Expiring Keys. Below this is a table with columns for Key Name, Created Time, Modify Time, Passphrase, Expiration, and Max Usage. On the right, there is a mobile self-provisioning portal titled 'Connect to WiFi' with a QR code and a manual entry option for SSID and Passphrase.

| SSID | Role | Expiring Keys |
|-------------------------|-------------------|----------------|
| Mist_IoT | Creditcarddevices | Within 1 Month |
| BYOD-IOT | cameras | Within 1 Week |
| Live_demo_only | contractor1 | Within 1 Day |
| Demo-MPSK | contractor2 | |
| Live_demo_do_not_remove | digitalmedia | |

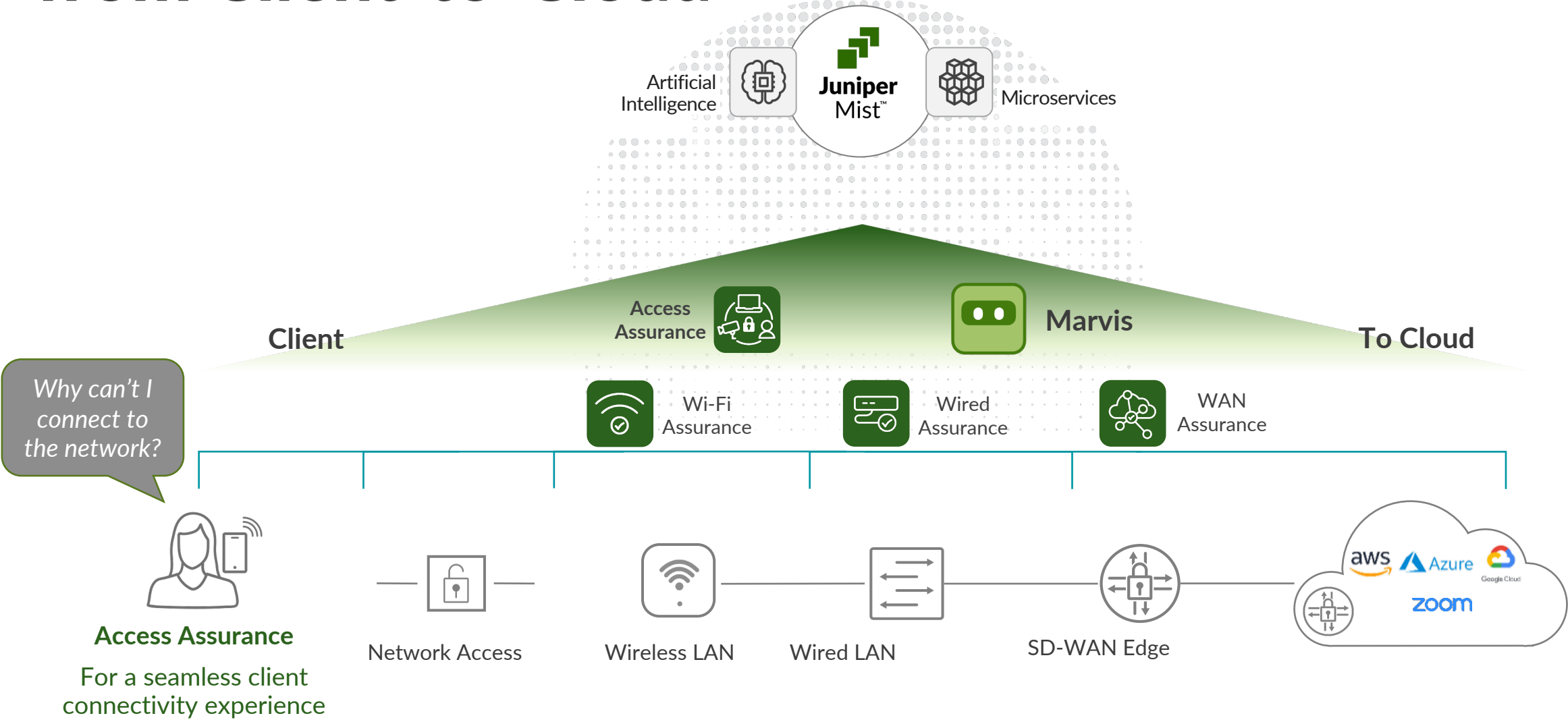
| Key Name | Created Time | Modify Time | Passphrase | Expiration | Max Usage |
|-------------------------|-------------------------|-------------------------|------------|-------------------------|-----------|
| corp4@mistdemo.com | Jun 17, 2024 6:33:51 AM | Jun 17, 2024 6:33:51 AM | ***** | Dec 16, 2024 5:33:51 PM | Unlimited |
| aide-demo_contractor1 | Nov 4, 2022 5:03:00 PM | Jun 15, 2024 5:34:26 AM | ***** | | Unlimited |
| Guest Devices | Jan 19, 2022 7:49:56 PM | May 9, 2024 4:41:45 AM | ***** | | 10 Max |
| aide-demo_digital-media | Nov 4, 2022 4:59:55 PM | May 7, 2024 8:39:38 AM | ***** | | Unlimited |
| aide-demo_scanner1 | Apr 7, 2024 6:12:39 PM | Apr 7, 2024 6:12:39 PM | ***** | | Unlimited |
| aide-demo_contractor2 | Apr 2, 2024 7:51:24 AM | Apr 2, 2024 7:51:24 AM | ***** | | Unlimited |

Mobile Portal: Connect to WiFi. Scan this code to connect. QR code displayed. or enter the code manually. SSID: byod-net. Passphrase: 2FJACc(%). Email Passphrase button. Valid for 182 days. Generate New Passphrase button.



In Summary

Delivering an Experience First Network from Client-to-Cloud



Juniper Mist Access Assurance Differentiators



First Microservices Cloud-based NAC Offering

- Guest, IoT, BYOD and Corp 802.1x device support
- Inherent high availability
- Seamless feature upgrades and maintenance
- 100% API-based for cross-platform integration



AI-powered operations – Full stack

- End-to-end visibility of user connectivity experience
- 3rd party device support (wired/wireless)
- Support for cloud-based identity providers and UEM/MDM



IT-friendly day 0-2 operations – Full stack

- Single pane of glass – Wired / Wireless / SD-WAN / Access
- Flexible yet simple network access policies and enforcement
- Automated network device provisioning



Key Takeaways



- ✓ **The first cloud-based NAC**
 - Natively integrated into the Mist Cloud
- ✓ **Easy-to-use policies & workflows**
 - Customers up and running in minutes, not days or weeks
- ✓ **Mist AI for Day 0-2 operations** fully
 - Near-effortless network management across the full stack
 - Wired /wireless / SD-WAN and Access Control
- ✓ **Redundancy and High Availability**
 - Built into the Architecture
 - Points of Presence worldwide
- ✓ **UEM/MDM and eduroam support**
 - Microsoft Intune, Jamf, VMware Workspace One

Juniper Networks is a Leader in 2024 Gartner® Magic Quadrant™ for Enterprise Wired and Wireless Infrastructure

Furthest in Vision, Highest in Execution

Read the complimentary report:



<https://www.juniper.net/us/en/forms/2024/gartner-2024-mq-wired-wireless.html>

Gartner Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure, Tim Zimmerman, Christian Canales, et al., 6 March 2024
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4 Years a Leader!



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Experience™