



洞察未来，AI 网络助力汽车行业全球拓展



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7月20日 广东佛山

JUNIPER
NETWORKS

Driven by
Experience™



公司一览

创建于
1996



总部
Sunnyvale, CA



2022 年收入
\$5.301B

全球布局

9,300
雇员



88
办公室



43
国家



24/7 全球在线支持

满足客户随时需求

公司使命: Connect Everything. Empower Everyone.

公司愿景: Engineering Simplicity

服务客户

9/10
福布斯
全球企业

9/10
全球最大
云提供商

49/50
全球大型
运营商

14/20
国际知名大学

17/20
全球银行

8/10
国际领先
科技企业

6/10
全球商业
零售企业

All stats based on global industry lists, with material (>\$10K) Juniper SA from 2017-2019.

公司战略



助力公有云/私有云
数据中心搭建



为用户和设备提供云和彼此之间的
安全连接



构建和管理
分布式云环境



构建软件定义企业网络

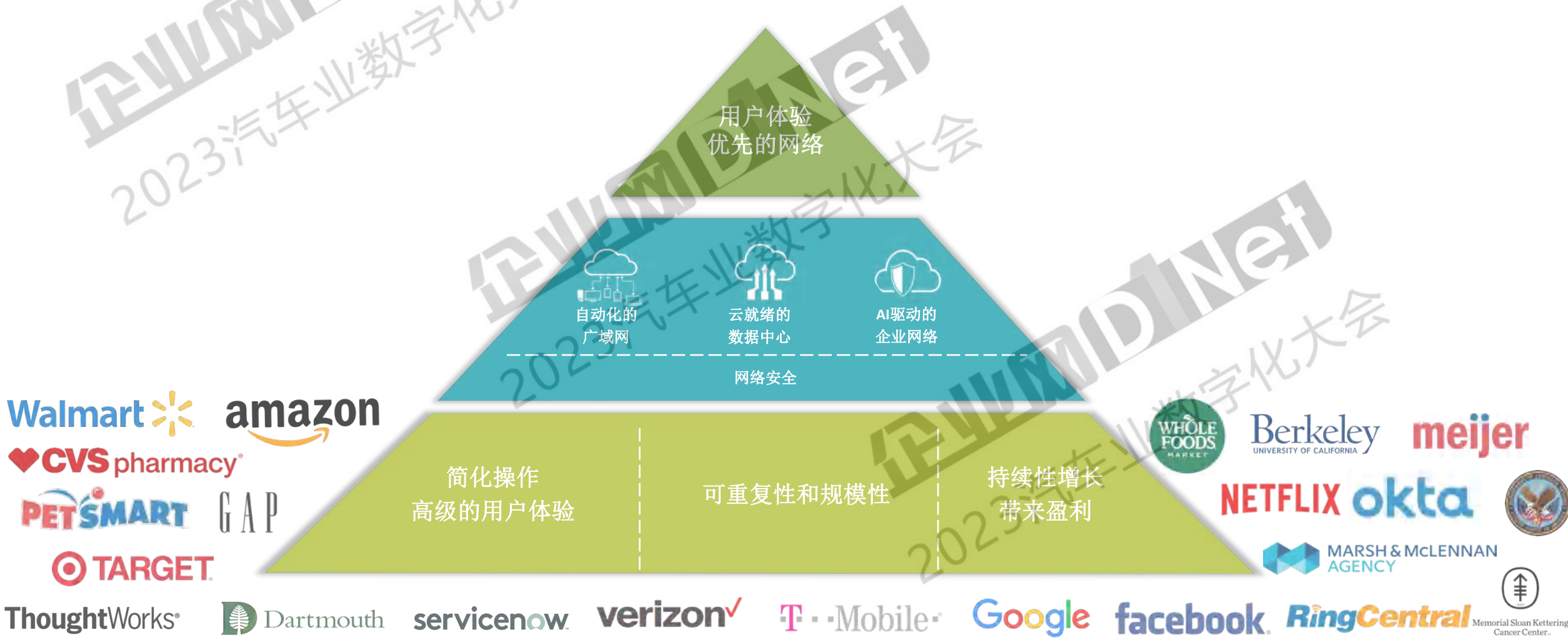
REACHING THE HIGHEST STANDARDS



LEVEL PLAYING FIELD
INSTITUTE

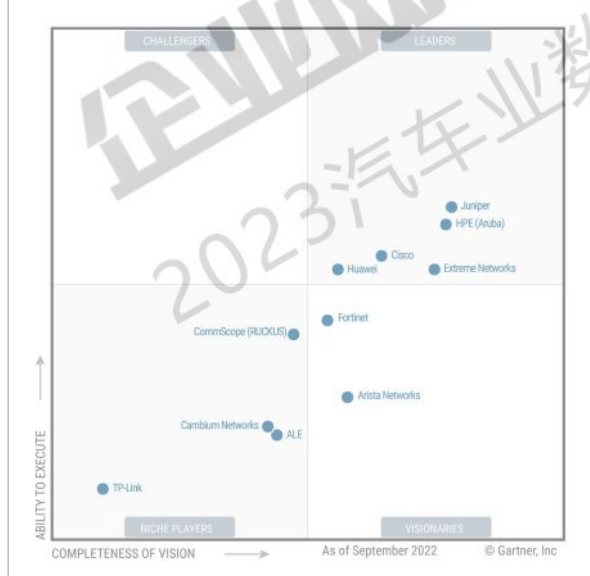


交付最佳用户体验网络



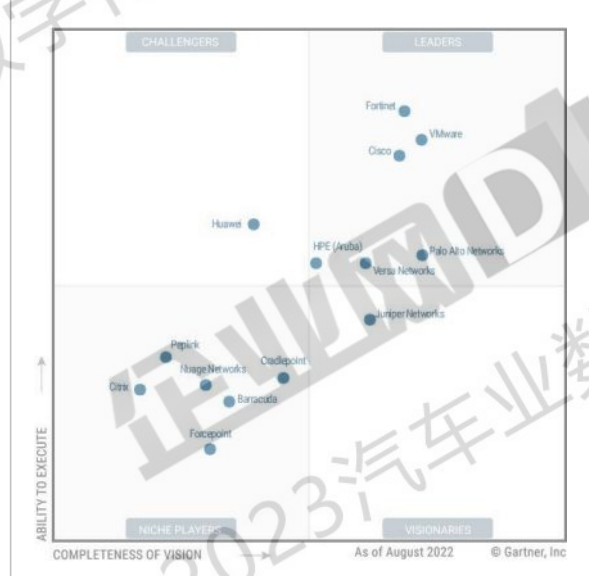
Gartner® Magic Quadrants™ 魔力象限

企业有线及无线网络
2022 Magic Quadrant™



连续3年领导者

SD-WAN 基础架构
2022 Magic Quadrant™



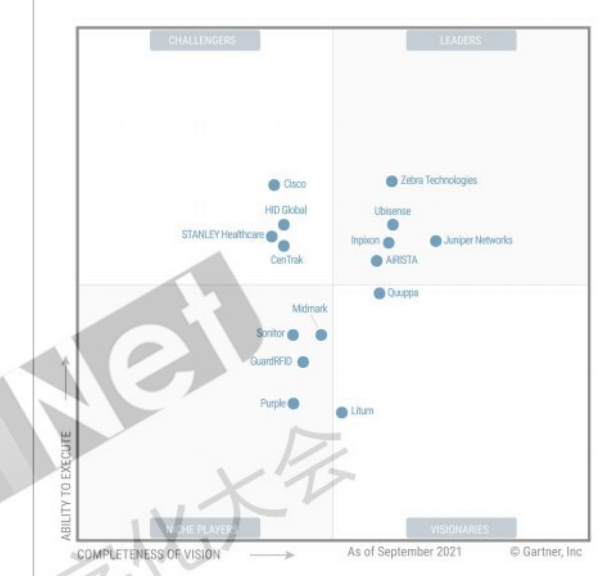
唯一远见者

防火墙
2022 Magic Quadrant™



挑战者

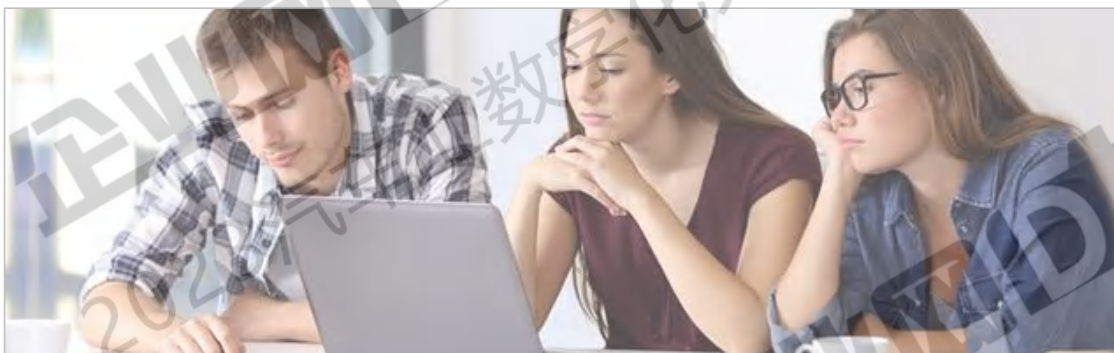
室内定位服务
2022 Magic Quadrant™



领导者

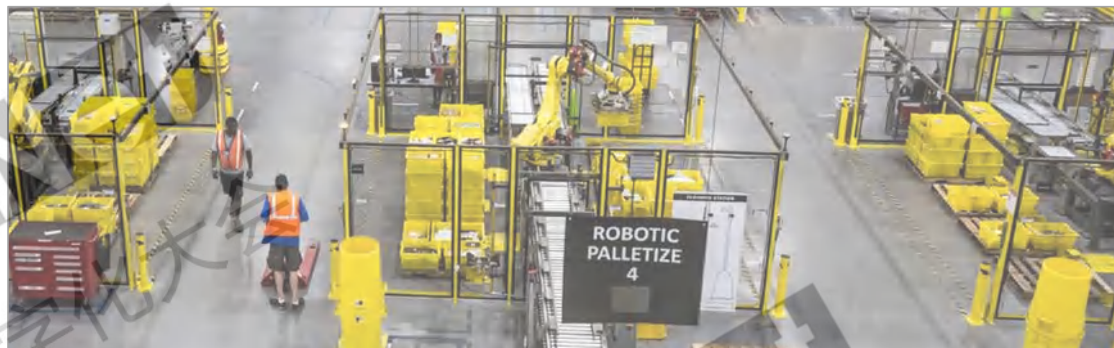
Gartner Magic Quadrant for SD-WAN Infrastructure, by Jon Forest, Andrew Lerner, Evan Zeng and Naresh Singh, September 16, 2022.
 Gartner Magic Quadrant for Enterprise Wired and Wireless LAN Infrastructure, Mike Toussaint, Christian Canales, Tim Zimmerman, December 21, 2022.
 Gartner Magic Quadrant for Network Firewalls, by Rajpreet Kaur, Thomas Lintemuth, Adam Hills, December 19, 2022.
 Gartner Magic Quadrant for Indoor Location Services, Tim Zimmerman, Annette Zimmermann 23 February 2022.
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 This graphic was published by Gartner, Inc. as part of a larger research document and should be evaluated in the context of the entire document. The Gartner document is available upon request from Juniper Networks.

AI驱动型企业： 帮助企业提升数字化转型体验



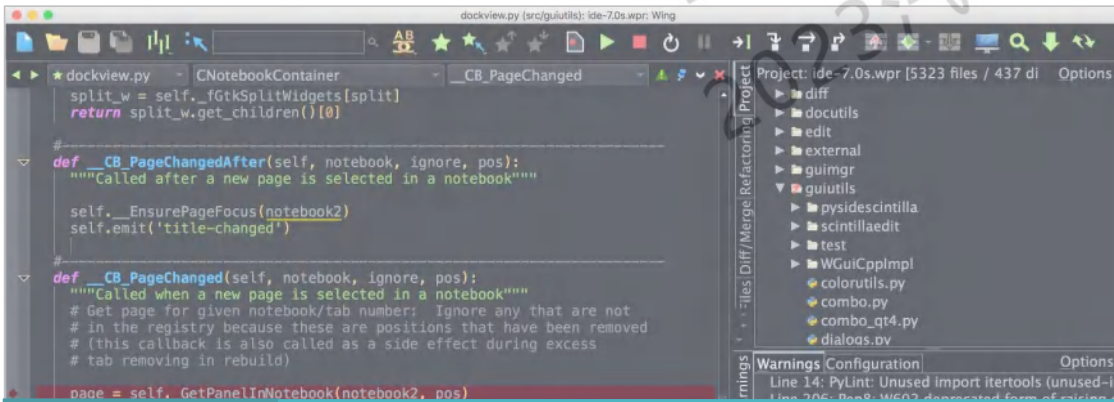
提高用户体验

“已连接”不等于“用户体验好”



SLE用户体验保障

关键业务服务需要
更具可预测性、可靠性和可衡量性的网络



自动化AIOps

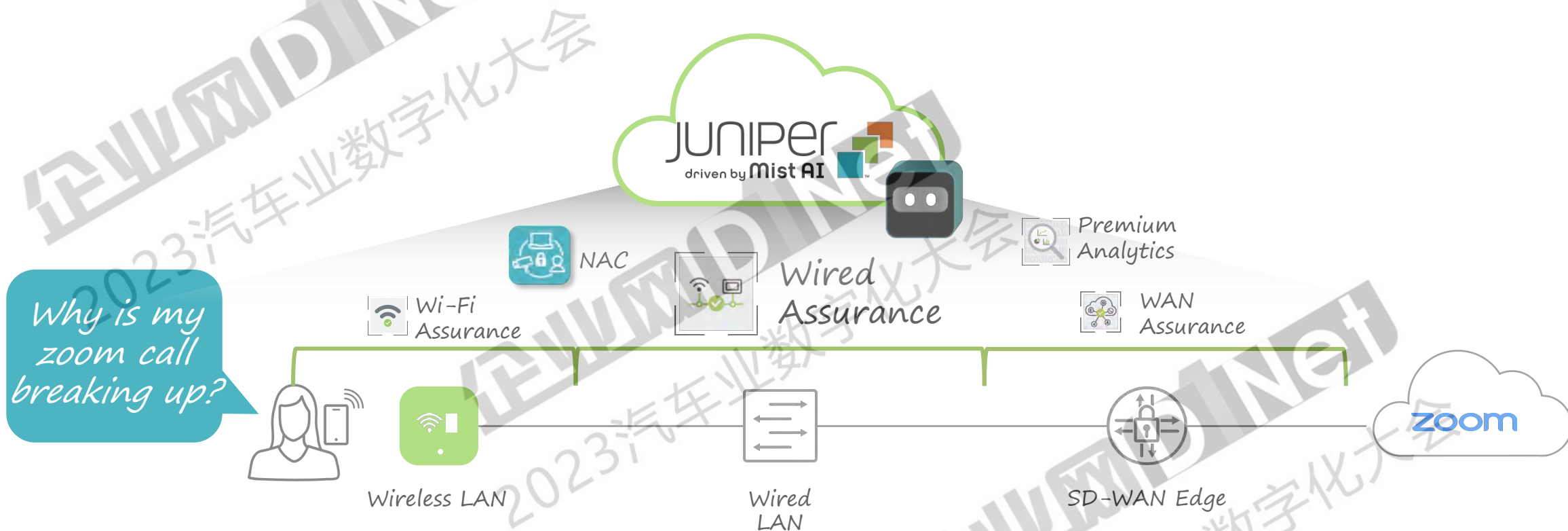
可以把配置设备的工作交给自动化设备做



IoT 及用户集成

根据位置提供个性化体验，与物联网集成

AIDE 战略：用户体验优先



引领IT新时代：使用『AI人工智能』提供『主动』，『可预测』和『自我修复』的网络，从而『节省时间和金钱』，提供无与伦比的『用户体验』

优化的体验保证

主动AI驱动
运营支持

100%API开放
可编程的云

MIST AI 驱动的产品组合

AI 驱动的云服务

虚拟网络助理



Marvis

- AI 驱动解决问题
- 会话助理



Marvis
虚拟网络助手

Marvis Actions

- 主动网络检测和修复
- 全方位的网络可见性



Wi-Fi
Assurance



User
Engagement



Asset
Tracking



IoT
Assurance



Wired
Assurance



WAN
Assurance

Wireless Infrastructure



Mist Edge



AP1
2



AP3
2



AP3
3



AP3
4



AP4
3



AP4
5



AP63
(outdoor)

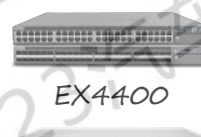


BT11
(BLE)

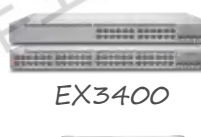
Wired Infrastructure



EX4600/4
650



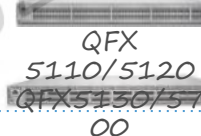
EX4400



EX3400



EX4300



QFX
5110/5120



EX2300



SRX



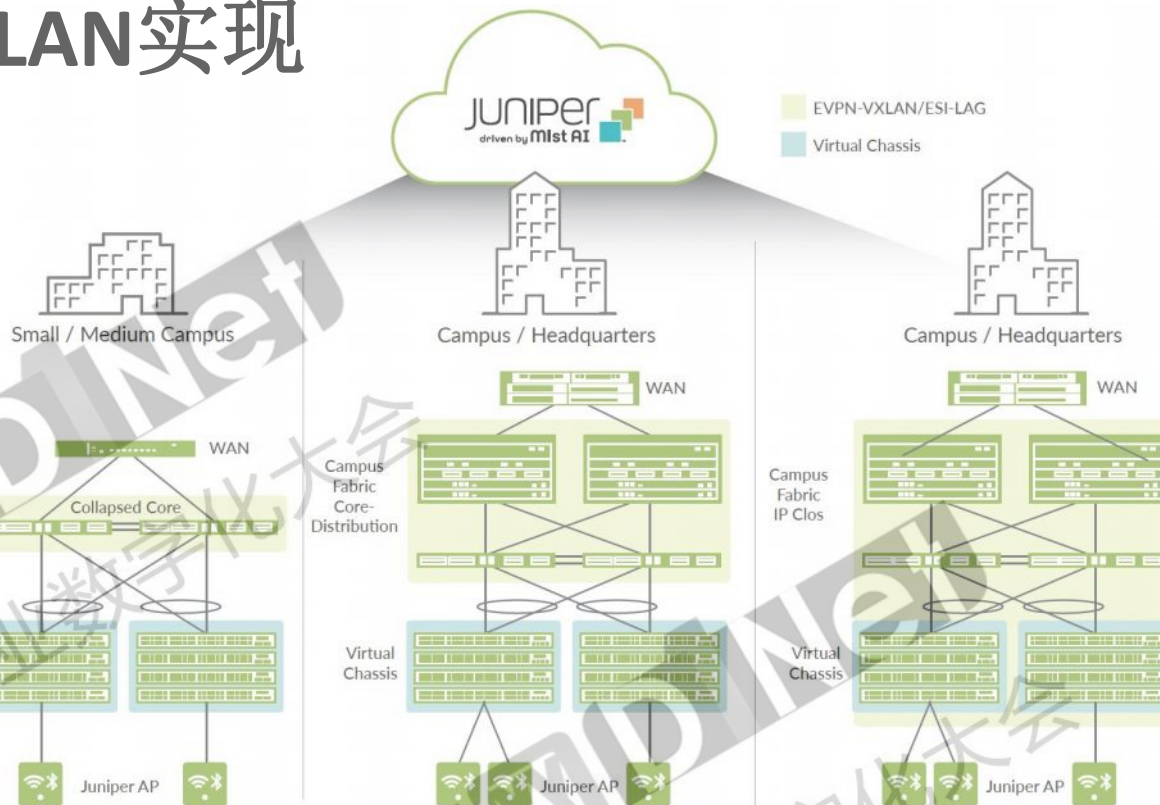
Session
Smart
Routers

WAN Infrastructure

大型园区网络架构 EVPN/VXLAN实现



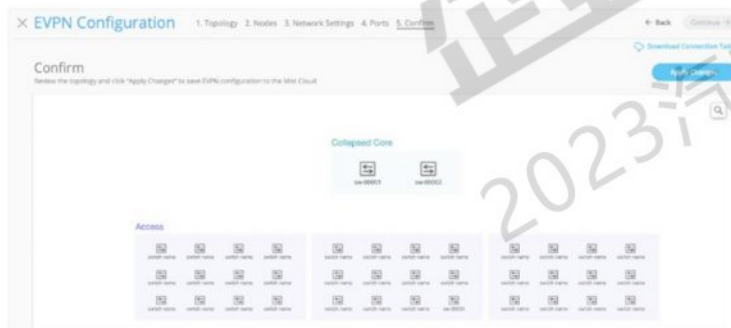
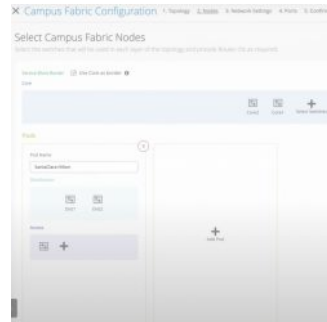
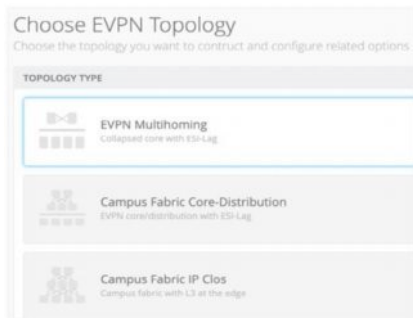
Juniper Mist 平台简化先进的 EVPN/VXLAN 部署。



1. 选择拓扑结构

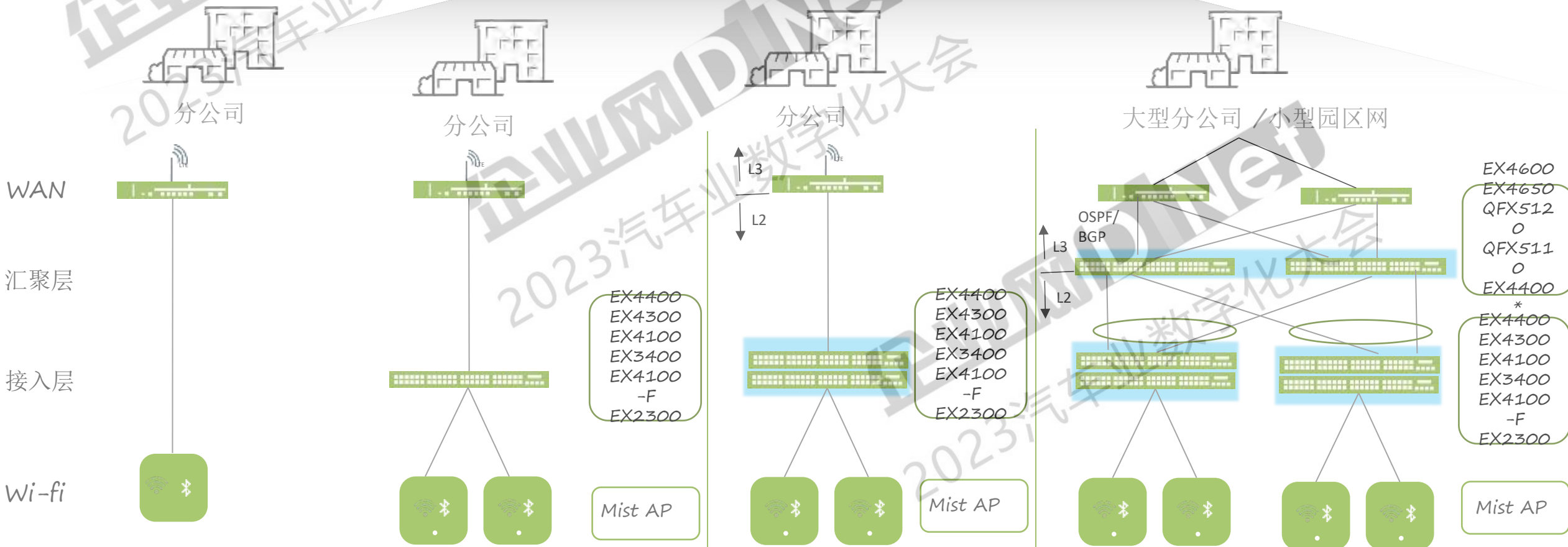
2. 选择交换机及其角色

3. 推送配置及访问规则

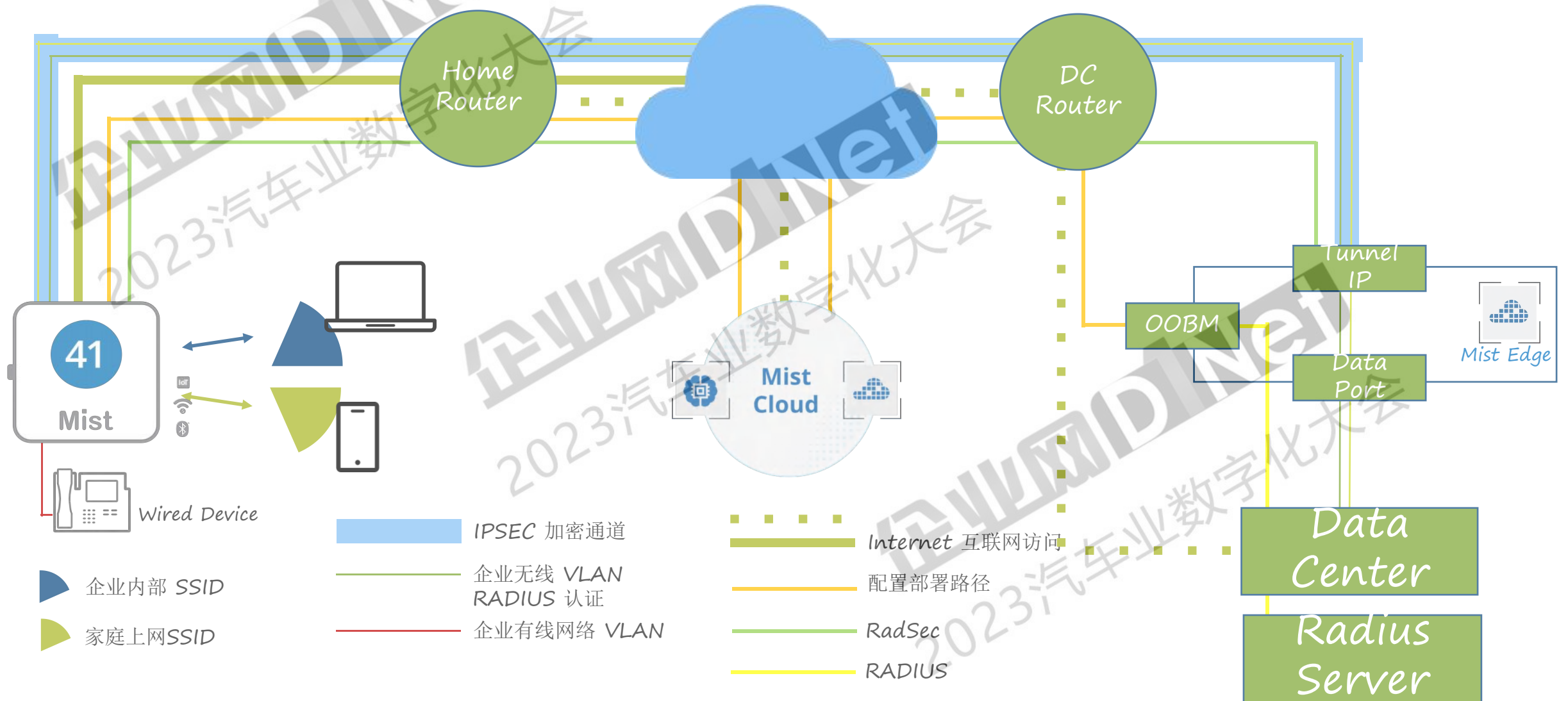


企业分支机构网络架构

Virtual Chassis 虚拟机箱
* EX4400-24X or EX4400-48F only



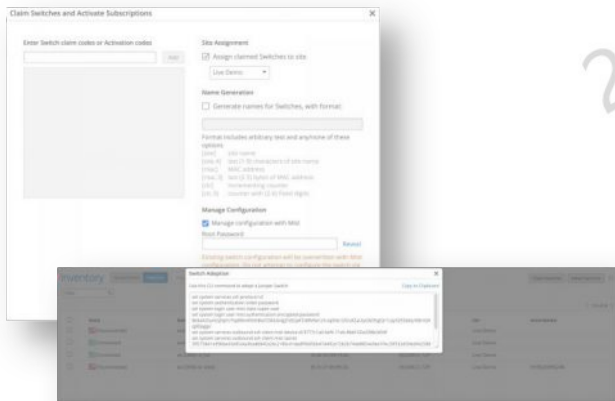
MIST SECURE EDGE - 居家办公/超 Mini 办公室



自动化快速部署能力 Zero Touch Provisioning

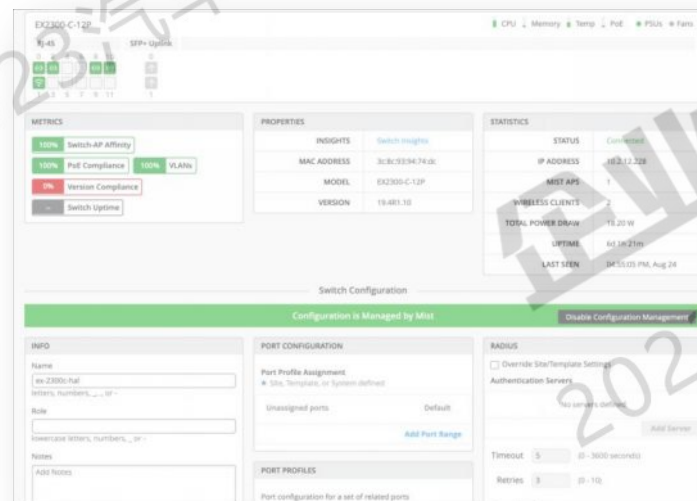
Day 0: Provision

- 通过平台 ZTP 一键激活所有设备
- 通过手机扫码或序列号方式激活



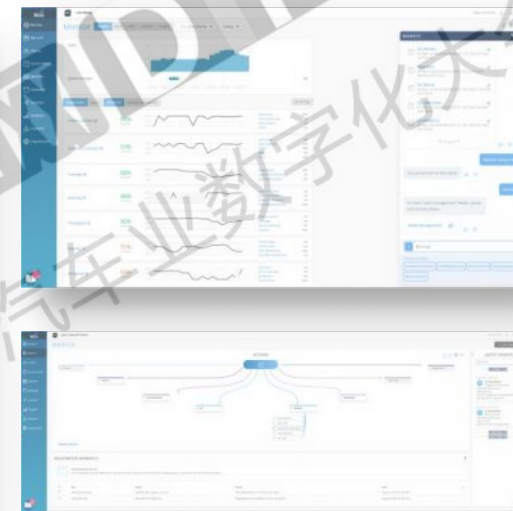
Day 1: Deploy

- 模板式配置远程推送
- 端口/接口描述
- 颜色展示端口状态



Day 2+: Operate

- SLEs 服务体验保障
- Marvis 人工智能自动化运维
- 告警自动推送



用户体验服务等级 SLE

多维度服务等级监测

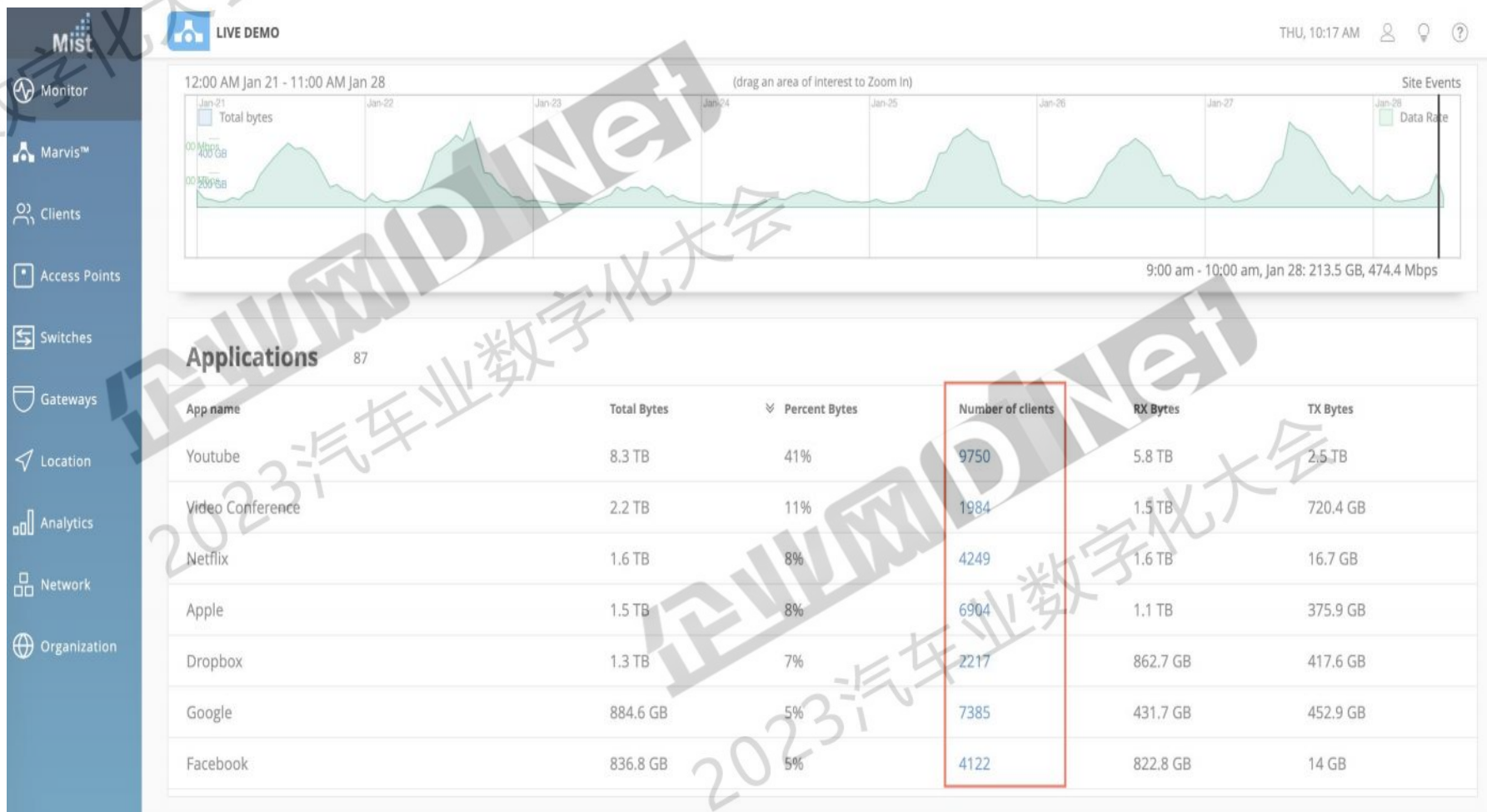
- 连接成功率
- 连接用时
- 吞吐率
- 无线覆盖能力
- 容量 Capacity
- Roaming



应用体验感知能力

加强企业核心应用保障

- 会议软件
- ERP 软件
- 流量控制



Marvis | 虚拟网络助手 (VNA)

Marvis Actions

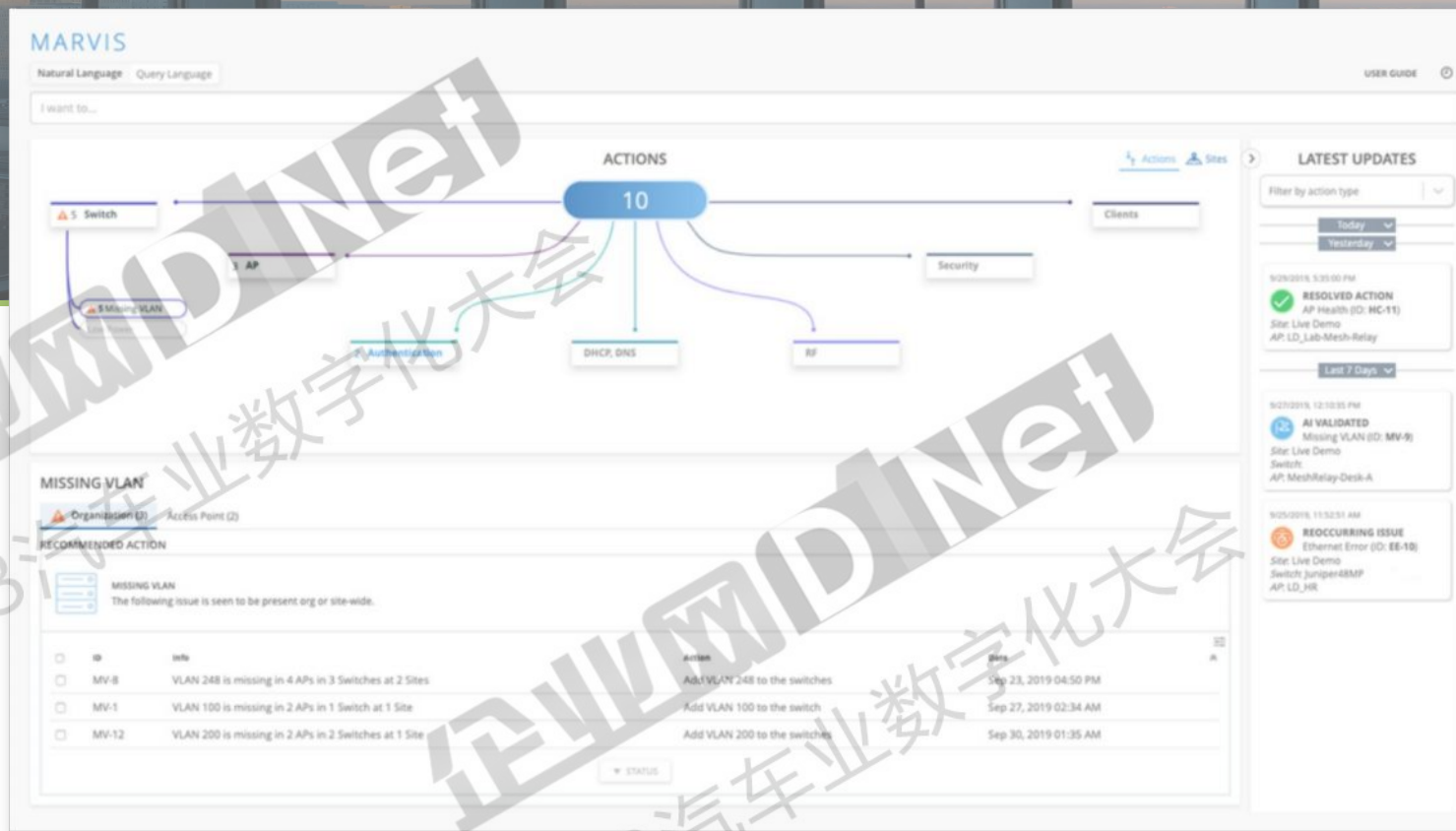
自然语言 AI 交互

自修复网络

自动化操作

运维问题

- 软件更新提醒
- 修复错误的端口/VLAN 配置
- 检测有故障的网线
- 发现2层网络 Loop
- 发现接入设备安全风险
- 终端异常流量



Marvis | 虚拟网络助手 (VNA)

Marvis Actions

自然语言 AI 交互

与全栈网络交互

Transforms how IT interacts with the full stack network

极致用户体验

Streamlines operations and boosts experiences

自然语言对话

Uses chat (NLP)

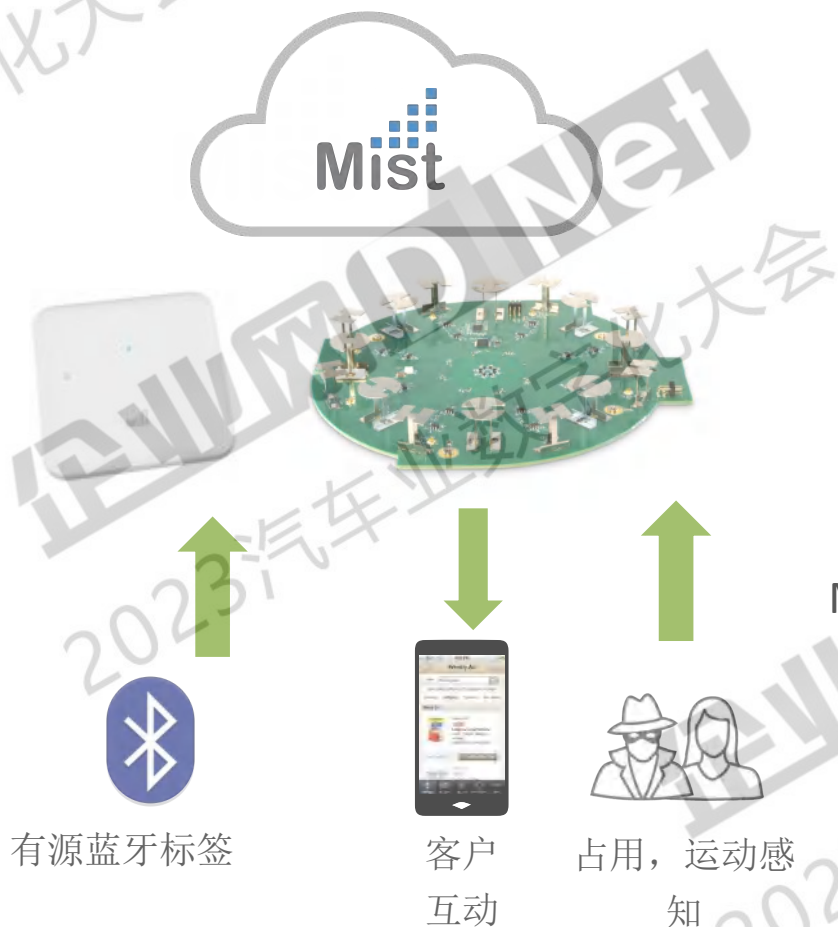
深度发掘及理解问题

Provides deep understanding of issues

The image displays a screenshot of the Mist network management interface. The main dashboard shows various monitoring charts and metrics, including Users, System changes, Time to Connect (94%), Successful Connections (93%), Coverage (88%), Roaming (98%), Throughput, Capacity, and AP Uptime. A chat window for Marvis is open, showing a message about troubleshooting a Deeyo AP 1. The chat window includes a message: "Checking Deeyo AP 1. Here is what I found between September 1st - September 2nd:" followed by three items: "Slow Association", "AP Disconnect", and "Poor Coverage". Below the message are buttons for "Troubleshoot device", "Troubleshoot site", "Device Search", "Documentation", and "Marvis Actions".

业界领先的定位服务 Gartner 象限第一名

网络连接与定位功能
合二为一的解决方案



Mist Cloud

- 虚拟蓝牙信标
- 机器学习定位
- Analytics API

AP 中的vBLE 天线阵列

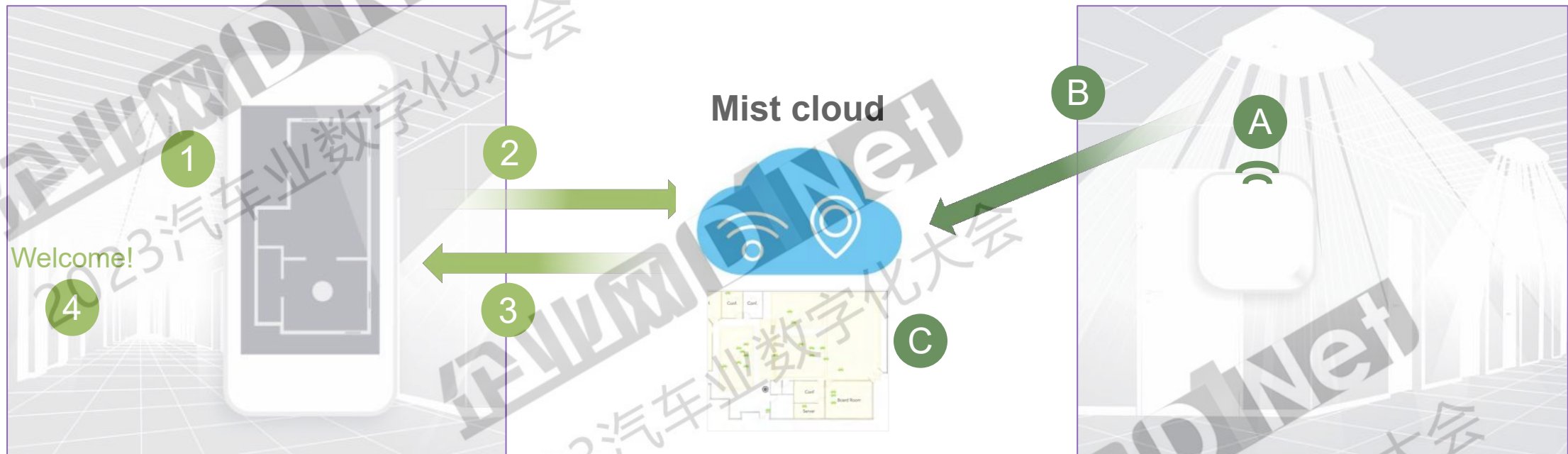
- 企业级的PoE BLE
- 路径寻找及资产跟踪
- iBeacon / Eddystone telemetry 协议标准

Mist 移动 SDK

- 传感器功能整合
- 锁屏通知
- 第3方蓝牙设备支持

分布式微服务架构

Mist vBLE 如何工作



How vBLE engagement works:

- Mobile devices listen to BLE beacons from AP
- Mist SDK (in mobile app) sends information to Mist cloud/Mist Edge
- Mist cloud sends real-time location and map info to app
 - In absence of connectivity, sensor fusion with device telemetry delivers blue dot continuity
- Unlimited virtual beacons can be created anywhere

How vBLE Asset Visibility works:

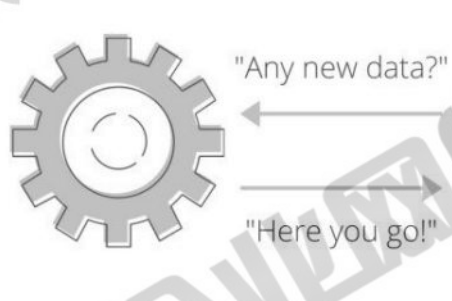
- Mist AP receives BLE signals from 3rd party tags
- Mist APs send information to Mist Cloud (via Rest APIs)
- Mist cloud displays location

Mist VBLE 导航演示



与客户平台集成

APIs



Webhooks

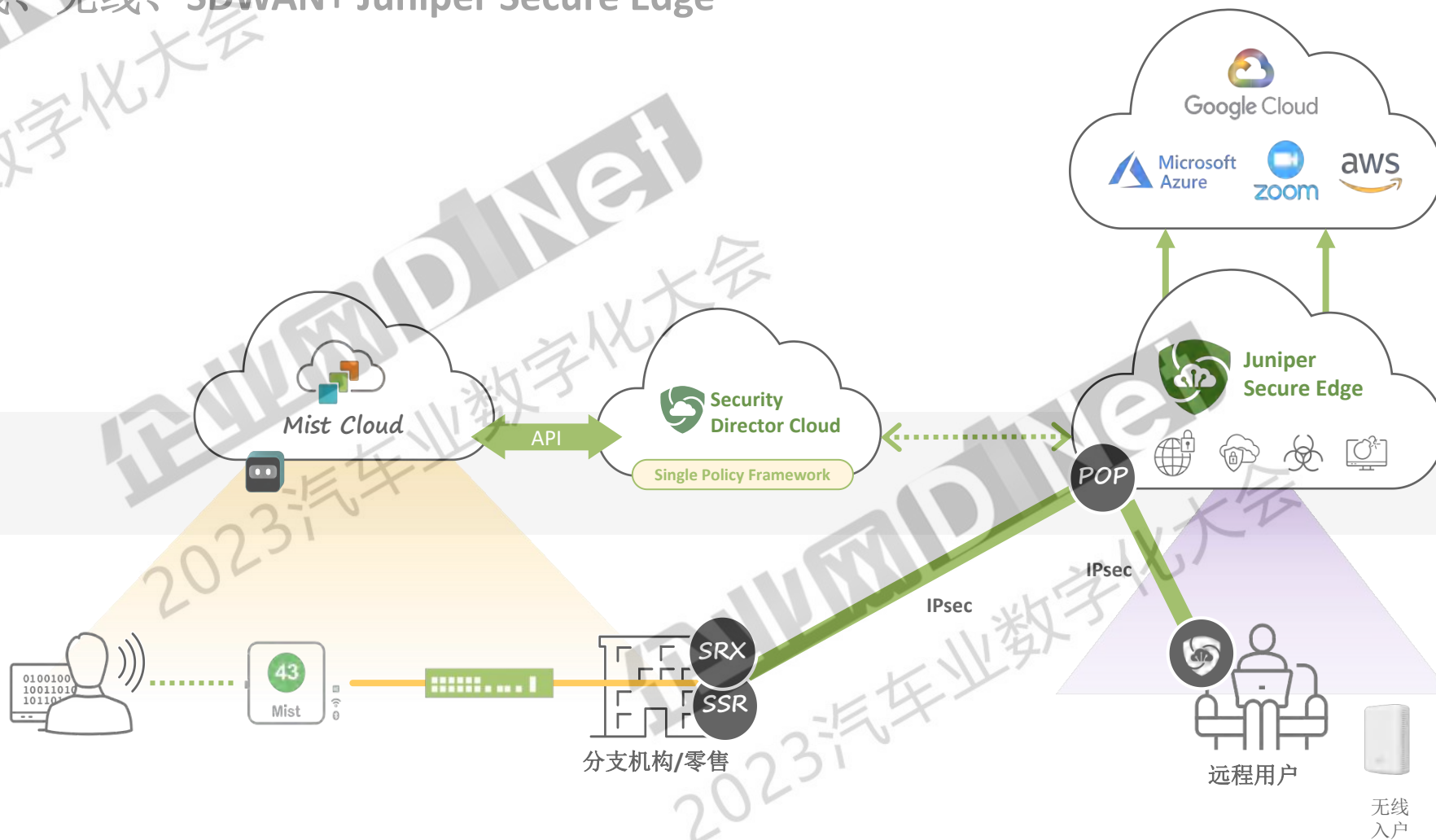


	REST APIs	Webhooks
类型	拉取/查询模式	推送模式
限制	每个企业5000次/小时	无限制
运营方式	获取统计, 创建配置, 更新配置	事件推送
覆盖	100%	Alerts, key events, Location
使用场景	Automation, Configuration	Integration with 3 rd party monitoring tools or Business Apps

总结： AI 驱动的企业一体化网络

AI 驱动的有线、无线、SDWAN+ Juniper Secure Edge

- 快速部署能力
- 应用感知能力
- SLE 用户体验服务级别
- AI 智能运维能力
 - 快速定位故障
 - 快速修复问题
- 统一安全策略
- 应用数据保护
- 按需购买使用





THANK YOU

JUNIPER
NETWORKS

Driven by
Experience™