



恒景科技

Niagara产品介绍



Niagara-TAP (网络可视化)

Niagara Networks
提供高性能
网络可视性
解决方案

无缝连接至用户的
安全解决方案
性能管理方案
网络可视性方案



Niagara的产品线包括

PB

Packet Broker

NB

Network Bypass

NT

Network Tap

M

Management

NI

Network Intelligence

Niagara Networks – 公司介绍

- 销售网络遍布全球
- 全球三大研发中心
- 提供全面的可视性
- 专注于SDN技术和可扩展分布式可视化平台技术

解决方案

- 与SDN技术相结合的最优秀的灵活扩展可视性解决方案。

North America

Europe



TELEKOM
AUSTRIA
GROUP

Duke
UNIVERSITY



IBM



Symantec

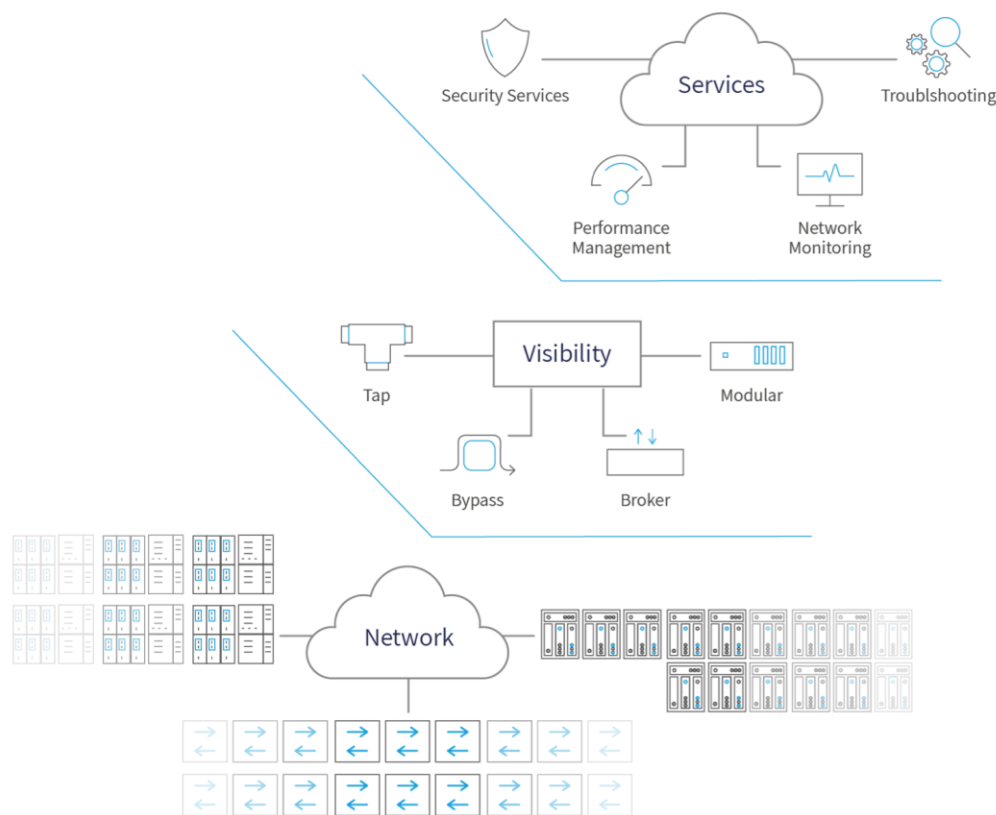
verizon



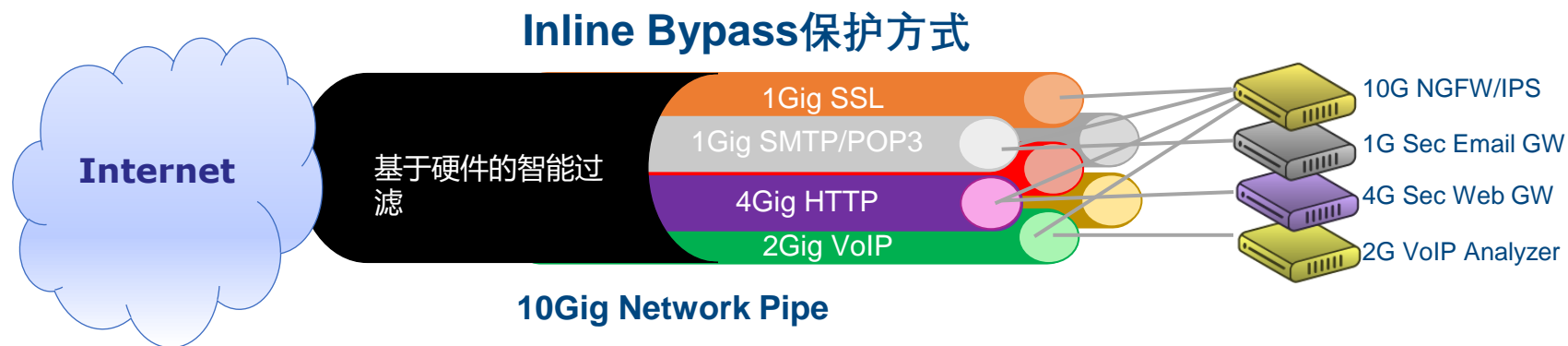
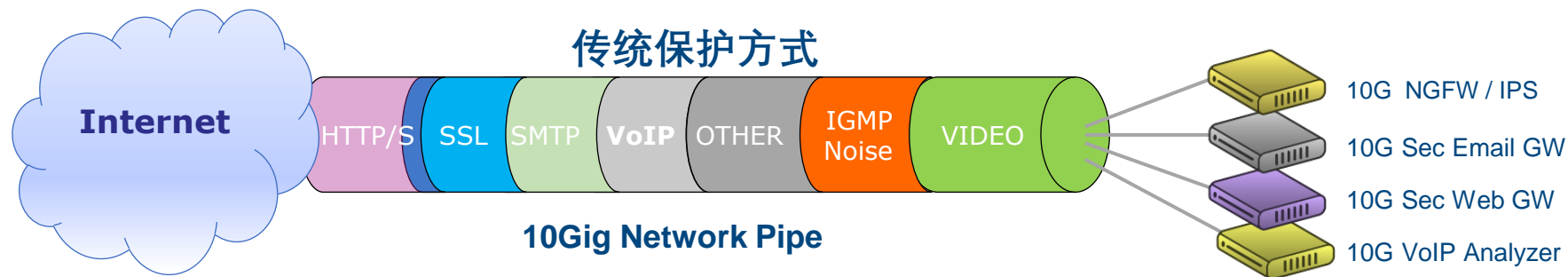
COX
COMMUNICATIONS

可视性是什么？

- 可视性是指在网络层和安全工具及监控工具间的流量的可视
- 它可以允许特定流量送至目标工具，且可以实现在工具的连通性、故障或被攻击时，保证网络的可用性。



在线流量过滤



被动式（监测）和主动式（监控）的共性——面向网络数据包

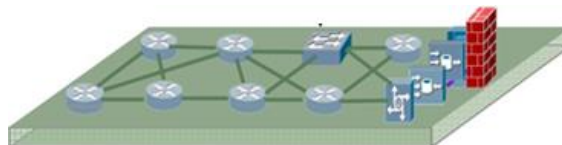
网络智能工具：

- 网络监测
- 网络和应用性能分析
- 网络安全
- 网络审计
- 数据库审计
- Web监测
-



共同的需求：从网络中获取完整的数据包，实现监测可视化

IT基础架构



我们可以解决用户的哪些问题及挑战?

1

解决
单点故障

2

升级
网络带宽

3

解决工具与
网络的速率
不匹配问题

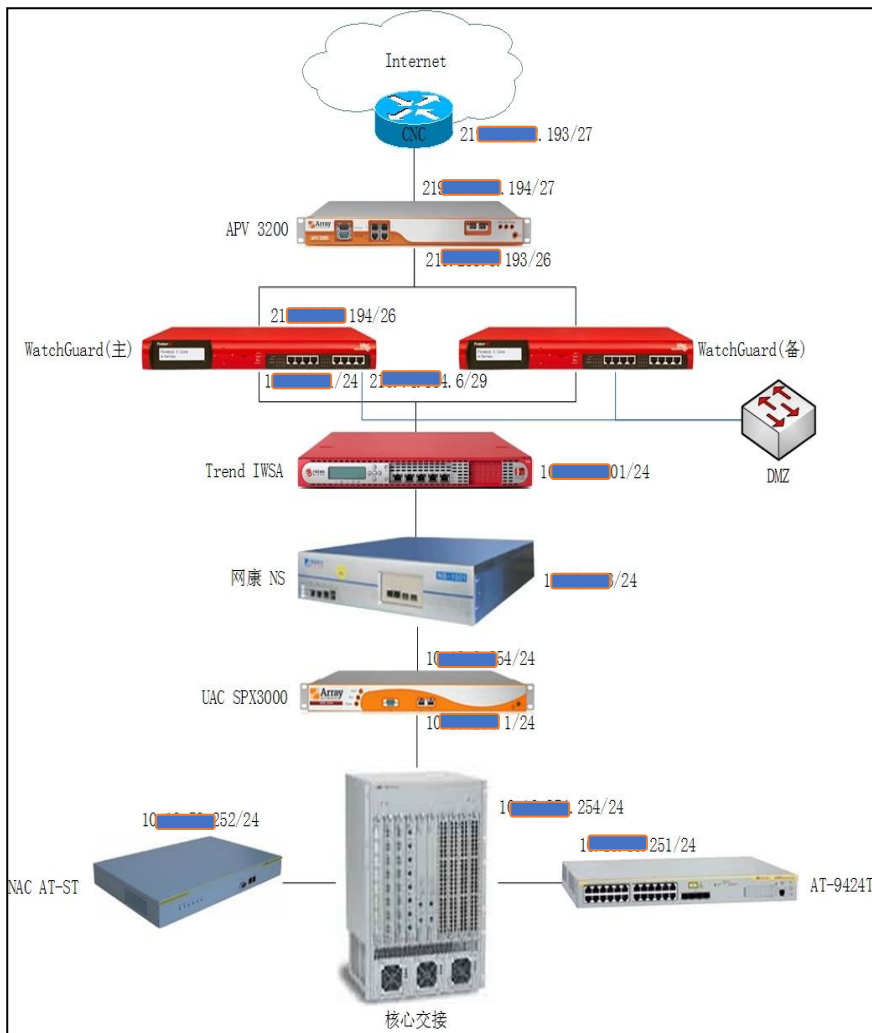
4

远程管理

5

解决镜像端
口不够问题

互联网网络出口现状



安全设备	部署、工作模式
趋势 IWSA	透明桥接模式
网康	透明桥接模式
DDOS 攻击防护设备	透明桥接模式
流量带宽管理设备	透明桥接模式
趋势IWSA	透明桥接模式
流量统计分析	旁路监测

用户安全防护现状

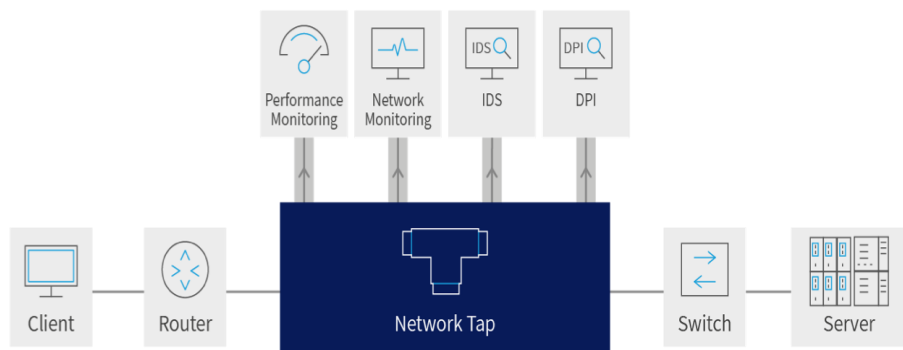
- 现有网络安全设备可靠性低、存在单点故障风险
- 现有网络安全设备处理性能问题，降低了互联网出口的整体性能
- 无法对现有网络安全设备进行有效扩展
- 运维管理复杂且存在风险

具体需求

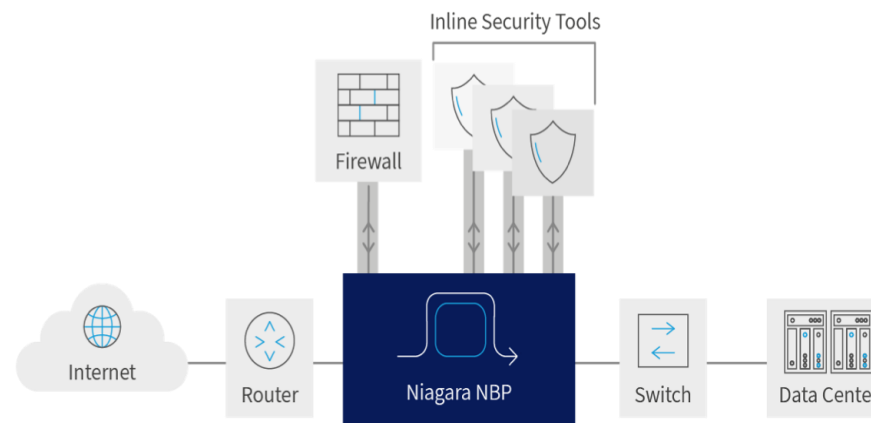
- 网络安全设备旁路 (Bypass) 需求
- 网络链路旁路 (Bypass) 需求
- 流量筛选和智能导向需求
- 流量负载均衡分流需求
- 被动流量捕获、汇聚、复制和输出需求

主要应用场景

旁路监听

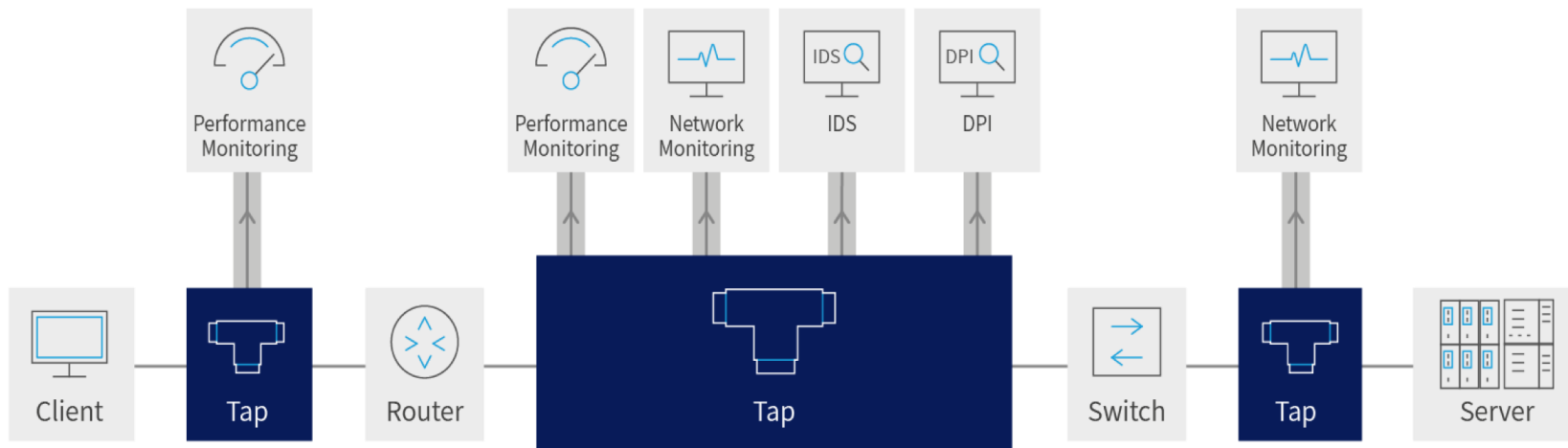


串接 - Bypass



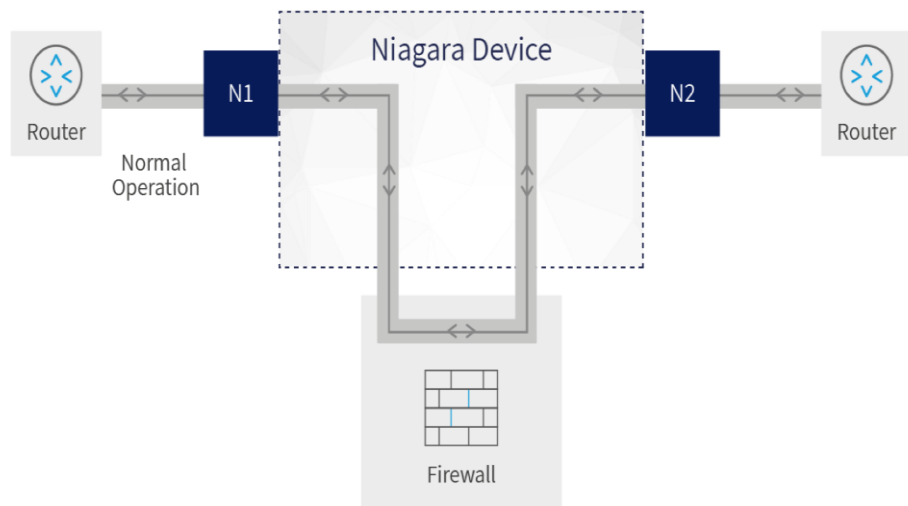
串接复制监听网络流量

适用于一切链路类型

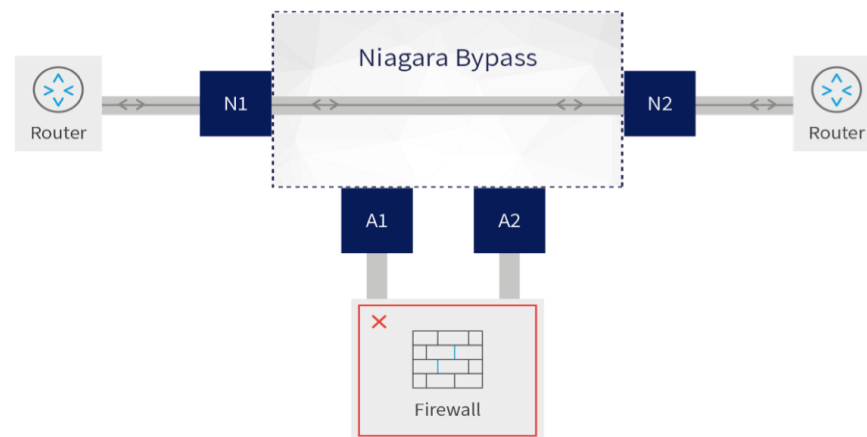


网络安全可视性解决方案 (1)

防止工具故障断网 - 利用 bypass功能



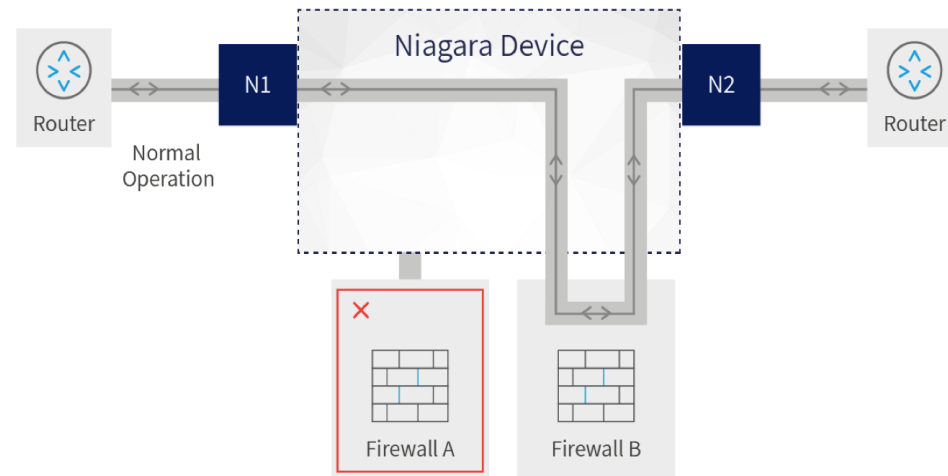
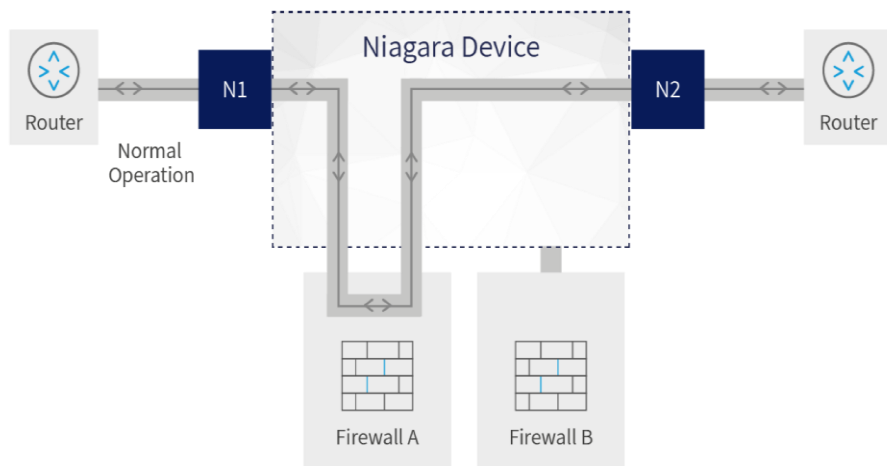
普通模式



Bypass 模式

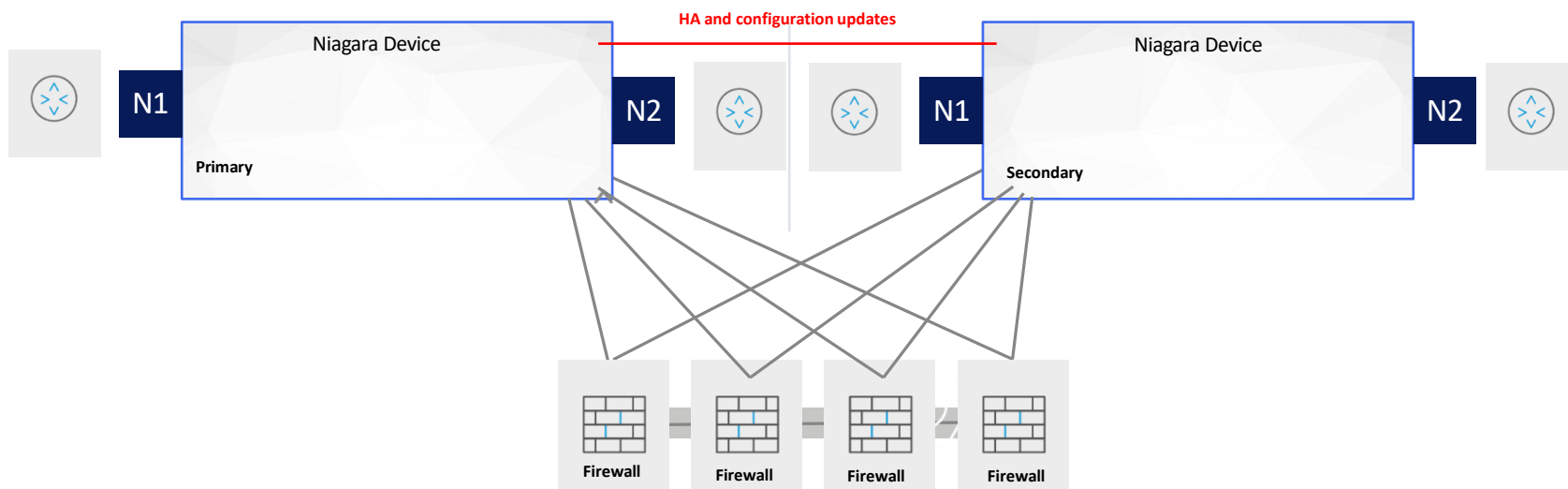
网络安全可视性解决方案(2)

提供高可用的网络安全服务，通过提供冗余的安全工具方案（当工具故障时）



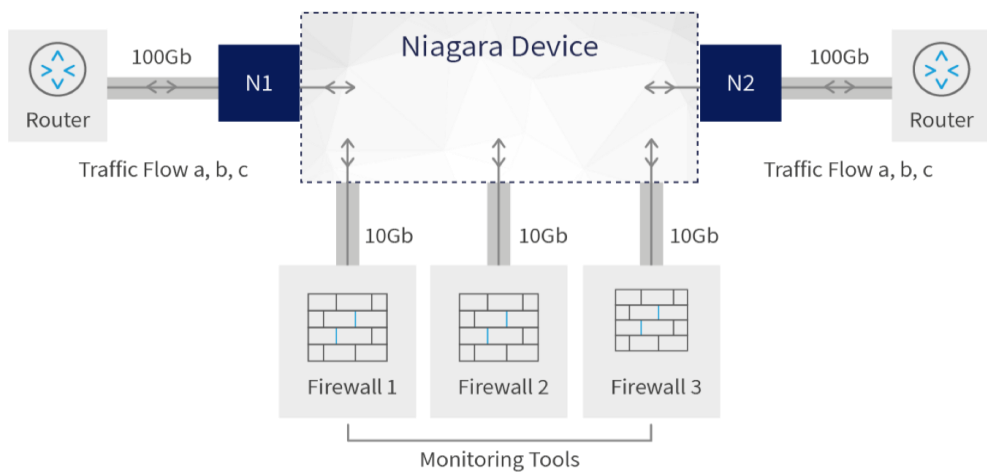
高可用性网络安全方案

提供主备链路的高可用性解决方案，当主链路故障时切备链路。

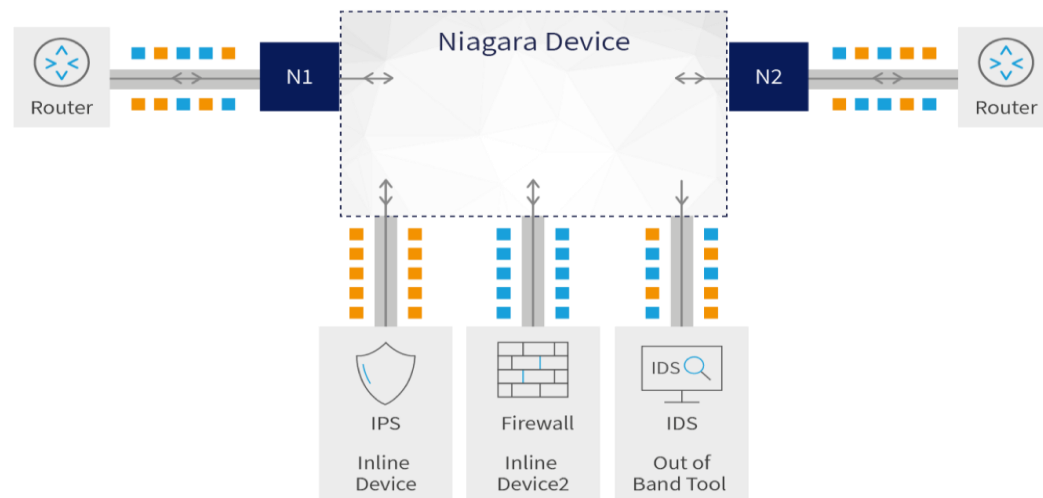


高可用网络安全方案 (3)

提高安全工具的利用效率

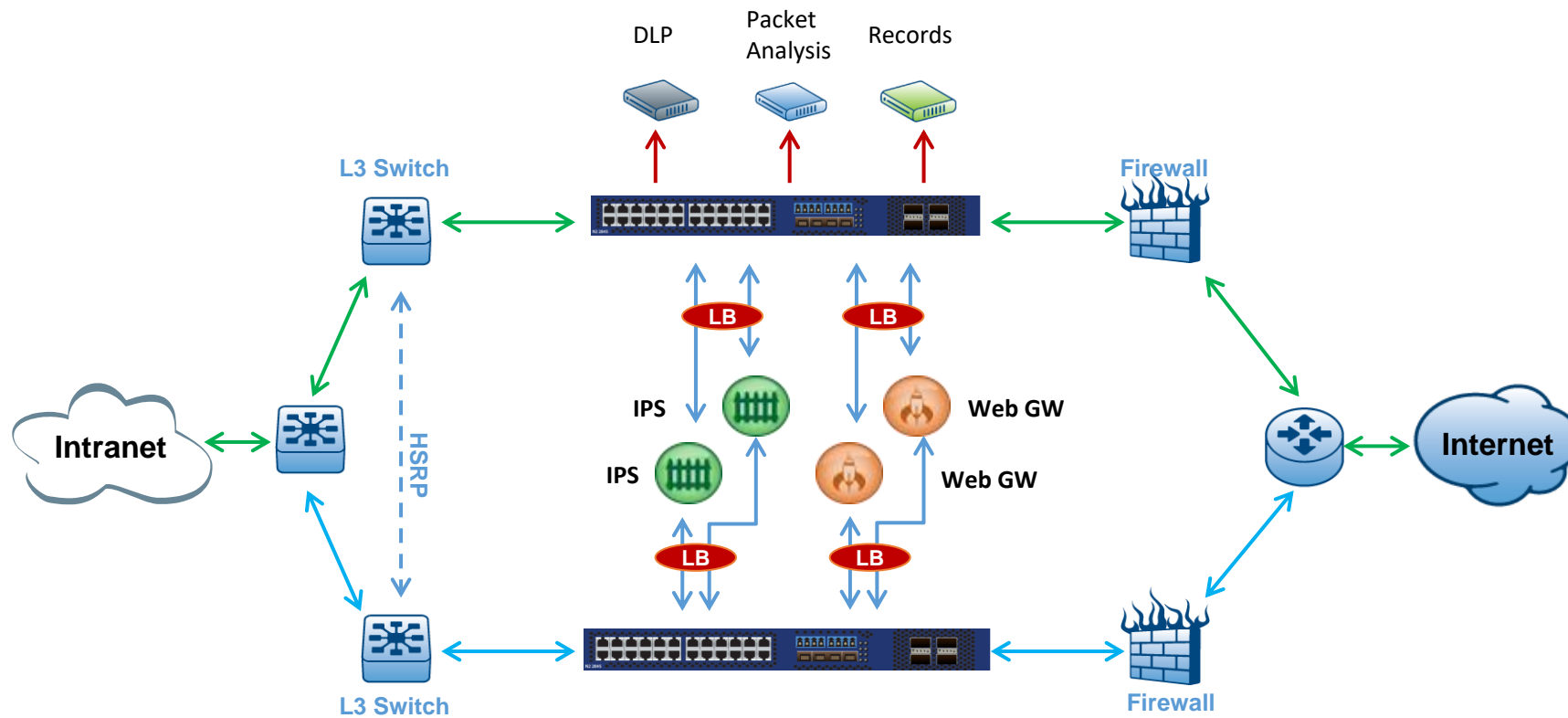


低速率工具之间的负载均衡



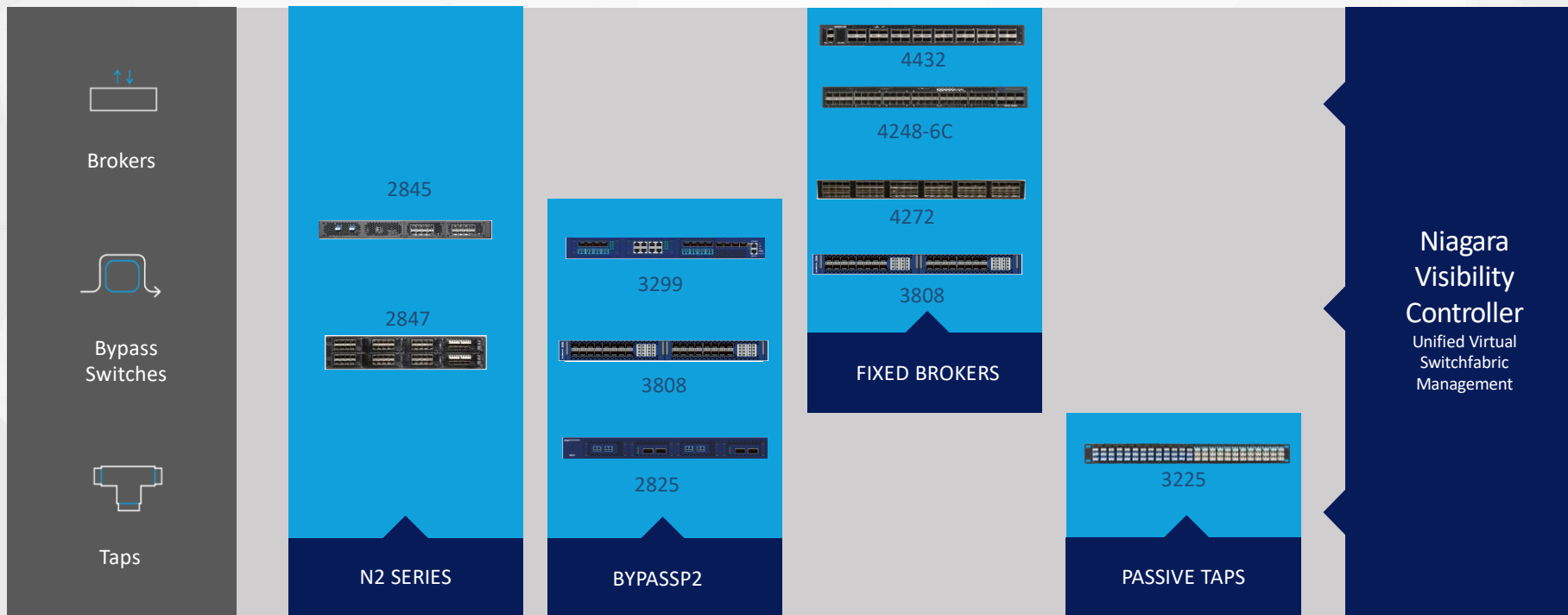
将正确的流量分配给正确的工具

主备架构



Niagara产品线

Niagara Networks产品线



N2 series – 模块化设备



- Segment protection / packet broker / tap
- 4 multi-purpose slots
- Individual in-line element upgrade
- Single platform for 1/10/40/100G
- Non-blocking architecture
 - 160Gbps slot capacity
 - 1.2Tbs backplane capacity
- Hot-swap power supplies and fan tray

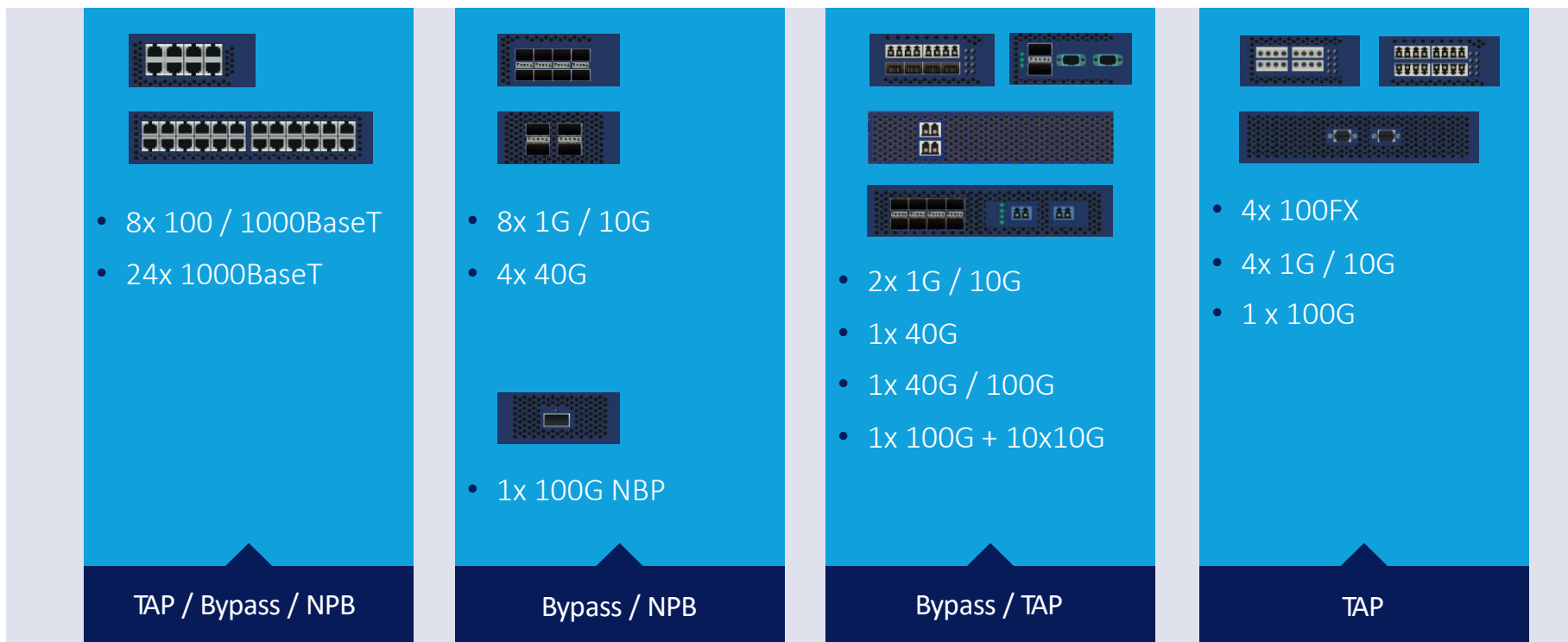
2845




- Segment protection / packet broker / tap
- 8 multi-purpose slots
- Same architecture as 2845
- Packetron processor for advanced in-line tasks

2847

N2 series – 模组

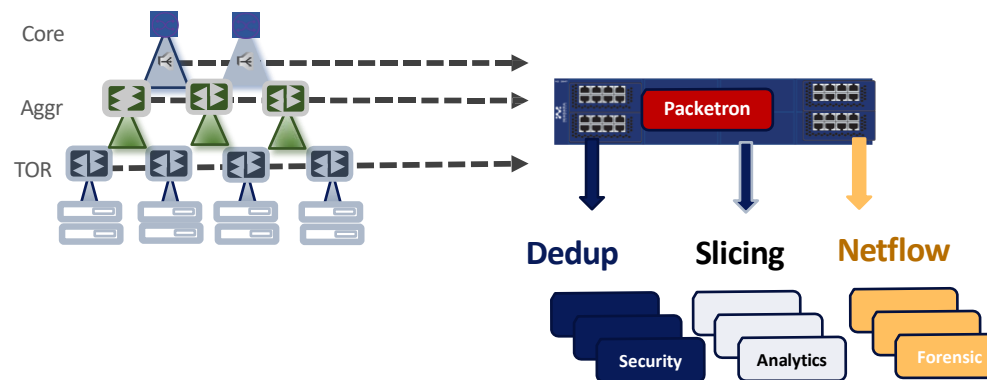


N2 series – Packetron version 10.8



- 至强处理器
- 每个设备最多4个处理器
- 开放系统环境
- 独特的细分市场

Network Intelligent

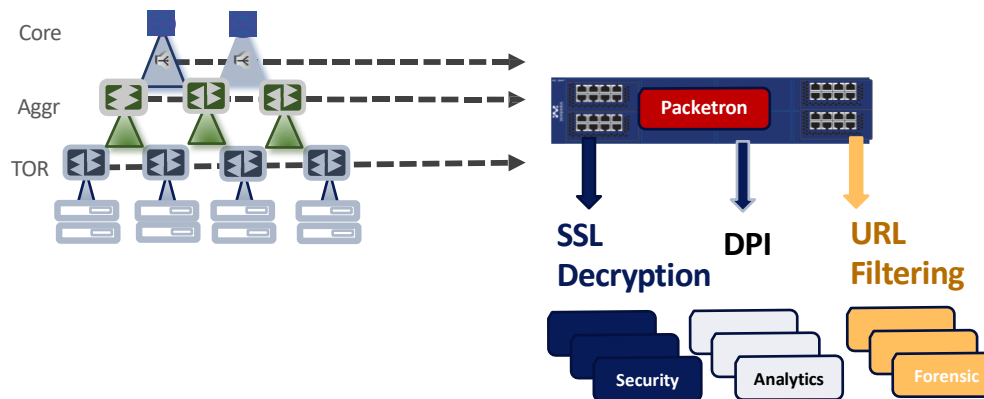


N2 series – Packetron 2019



- 至强处理器
- 每个设备最多4个处理器
- 开放系统环境
- 独特的细分市场

Network Intelligent



BypassP² segment protection



- Table top
 - Dual bypass 1000BaseT
- Rackmount
 - Up to 6 bypass segments
 - Copper and fiber (MM/SM)
- 4x 10G aggregation ports
- Copper ports can be bypass, tap or appliance ports

3299



- Up to 4 1G/10G bypass segments
- segments configured at ordering
- Available with active or passive tap ports
- Split ratio selected at ordering
- Multimode 50/125 or 62.5/125
- Single-mode
- AC or DC

281x



- Modular; up to 4 segments
- 1G / 10G / 40G / 100G
- Multimode 50/125 or 62.5/125
- Single-mode
- Optional HW based heartbeat module
- Field replaceable power supplies and fan unit

2825

Fixed Brokers



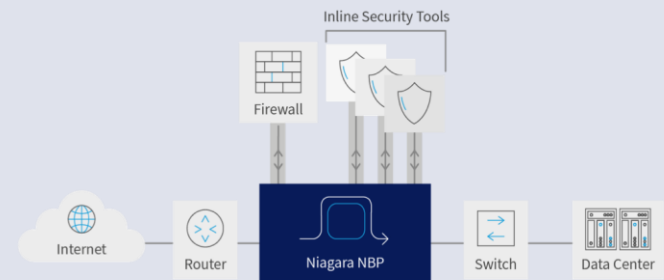
- Up to 72 SFP/SFP+ ports
- License based, 36 or 72 ports
- Field replaceable power supplies and fan unit

4272 – 72x 1G / 10G



- Up to 48 SFP/SFP+ ports
- 6x 40/100G QSFP port
- License based
 - 8 to 16 ports
 - 16 to 24 ports
 - 24 or 48 ports
 - 40G ports
- Field replaceable power supplies and fan unit

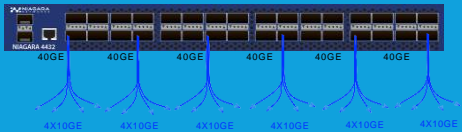
4248-6C – 48x 1/10/25G + 6x 40/100G



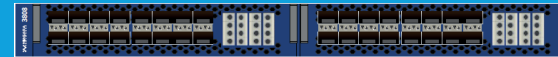
Fixed Brokers



- Up to 32 ports 40G or 100G
- Any port can be 40G or 100G
- License based
 - 16 to 32 ports
- Field replaceable power supplies and fan unit



4432 – 32x 40G / 4248- 6XL



- Combined Network Packet Broker and integrated bypass segments.
- Up to 8 bypass segments
- Copper or optical relay for failsafe
- Bypass ports can be configured to active tap
- All incoming traffic supported for NPB
- Active or passive taps
- Multimode 50/125 or 62.5/125, Singlemode
- Combined NPB and Bypass segments

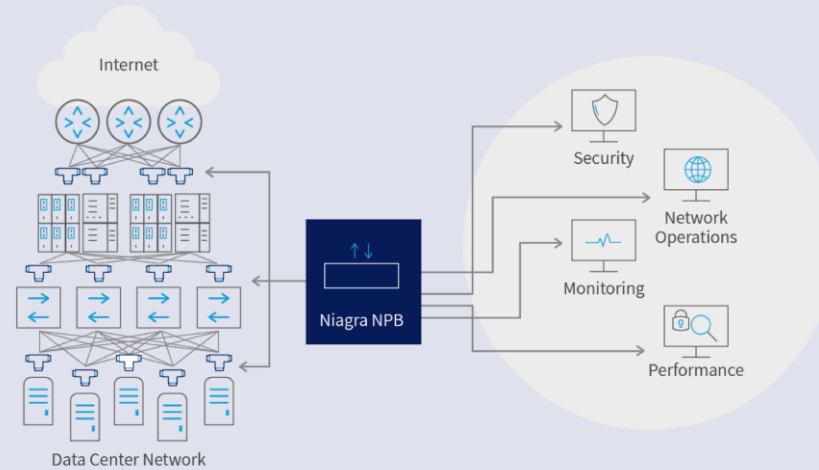
3808E

高密度模块化光纤TAPs - 3225



- Single mode / multimode
- SR / LR / LR4 / SR4 / SR10
- SR4 and SR10 use MPO connector
- Multiple split ratios
 - 90/10
 - 80/20
 - 70/30
 - 60/40
 - 50/50

3225: up to 25 passive taps 1/10/40/100G





谢谢

恒景科技