



SecureWISE Network

2025 PDF Solutions Connected Equipment Summit

Version 1

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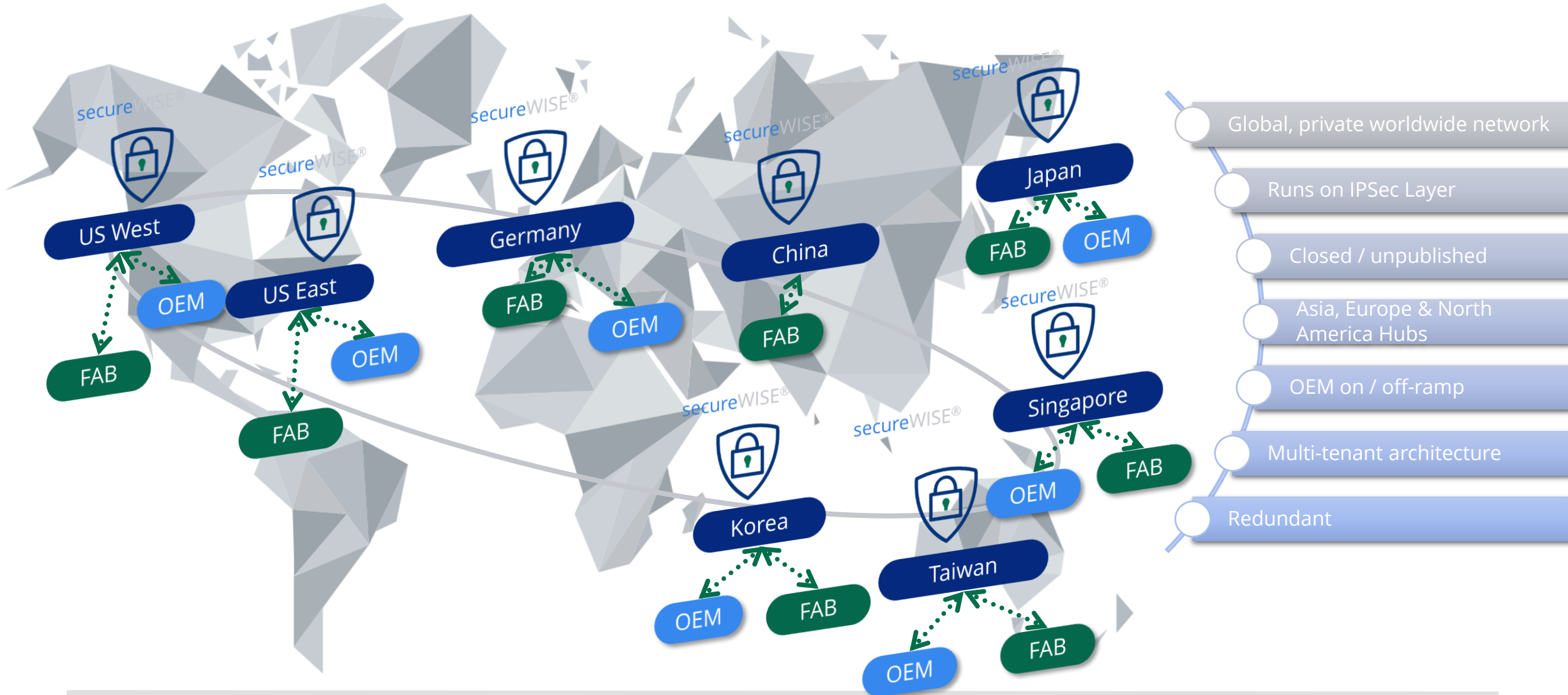
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Agenda

1. Network Overview
2. Current Network
3. Future Development
4. Q & A

serviceNET

Global, secure, private network for machines



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Global Network

US – East
AWS

28 external
VPN
connections

US – West
AWS

39 external
VPN
connections

Germany
AWS

52 external
VPN
connections

Korea
AWS

6 external VPN
connections

Japan
AWS

121 external
VPN
connections

China
On Prem

95 external
VPN
connections

Taiwan
On Prem

89 external
VPN
connections

Singapore
AWS

1 external VPN
connection

OEM to Fabs

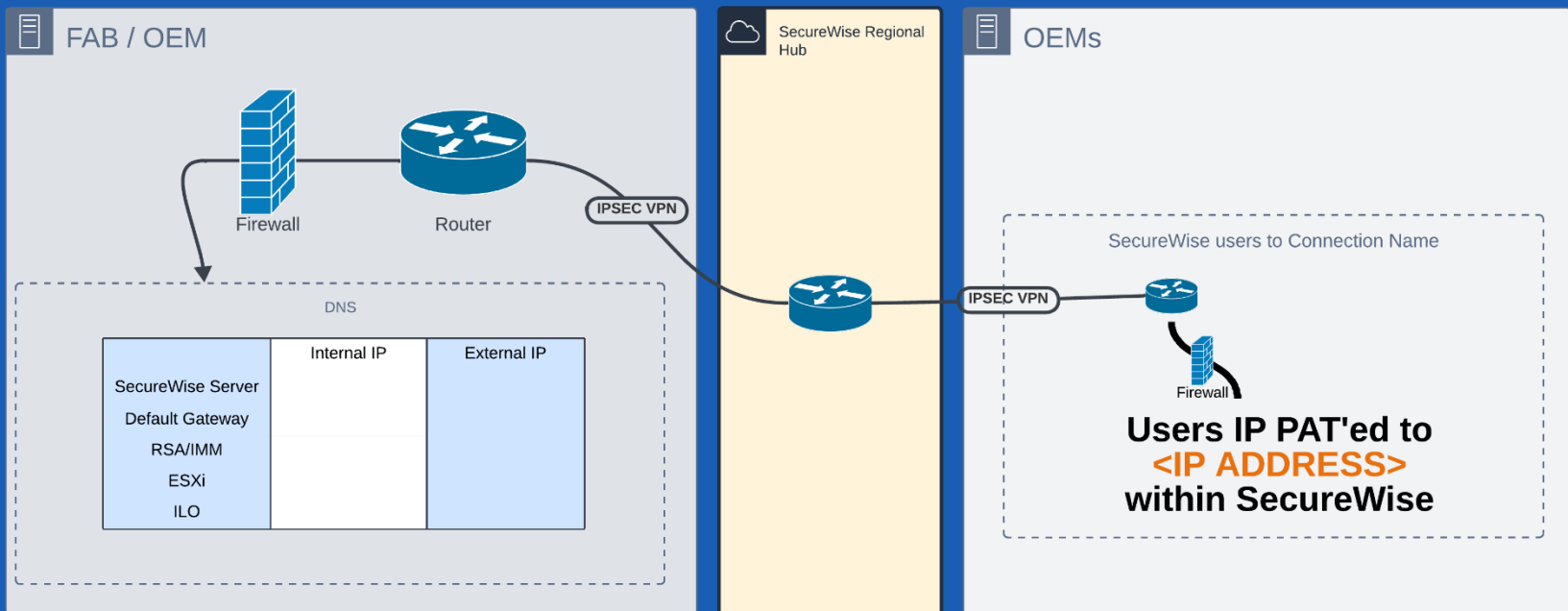
Dedicated

Data Analytics

secureWISE

Global Network

OEM to Fabs



All connections into a FAB are PATed to a single IP

Dedicated

Bandwidth

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Global Network

OEM to Fabs

Dedicated Connections

- All hubs are interconnected using IPSEC VPN
- Majority of the hubs have dedicated MPLS connections for interhub transport
- All cloud hubs have AWS Peering capability enabled
- Some FABs/OEMs have dedicated ISP or MPLS to secureWISE depending on the specifics of the implementation.

Data Analytics

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Global Network

OEM to Fabs

Dedicated Connections

Data Analytics

- **Ensure all network traffic is tabulated for customer billing and asset health/security monitoring.**
- **NetFlow: Used for collecting and analyzing network traffic data for billing and usage tracking.**
- **Nagios: Utilized for monitoring asset health and security, providing alerts on anomalies and failures.**

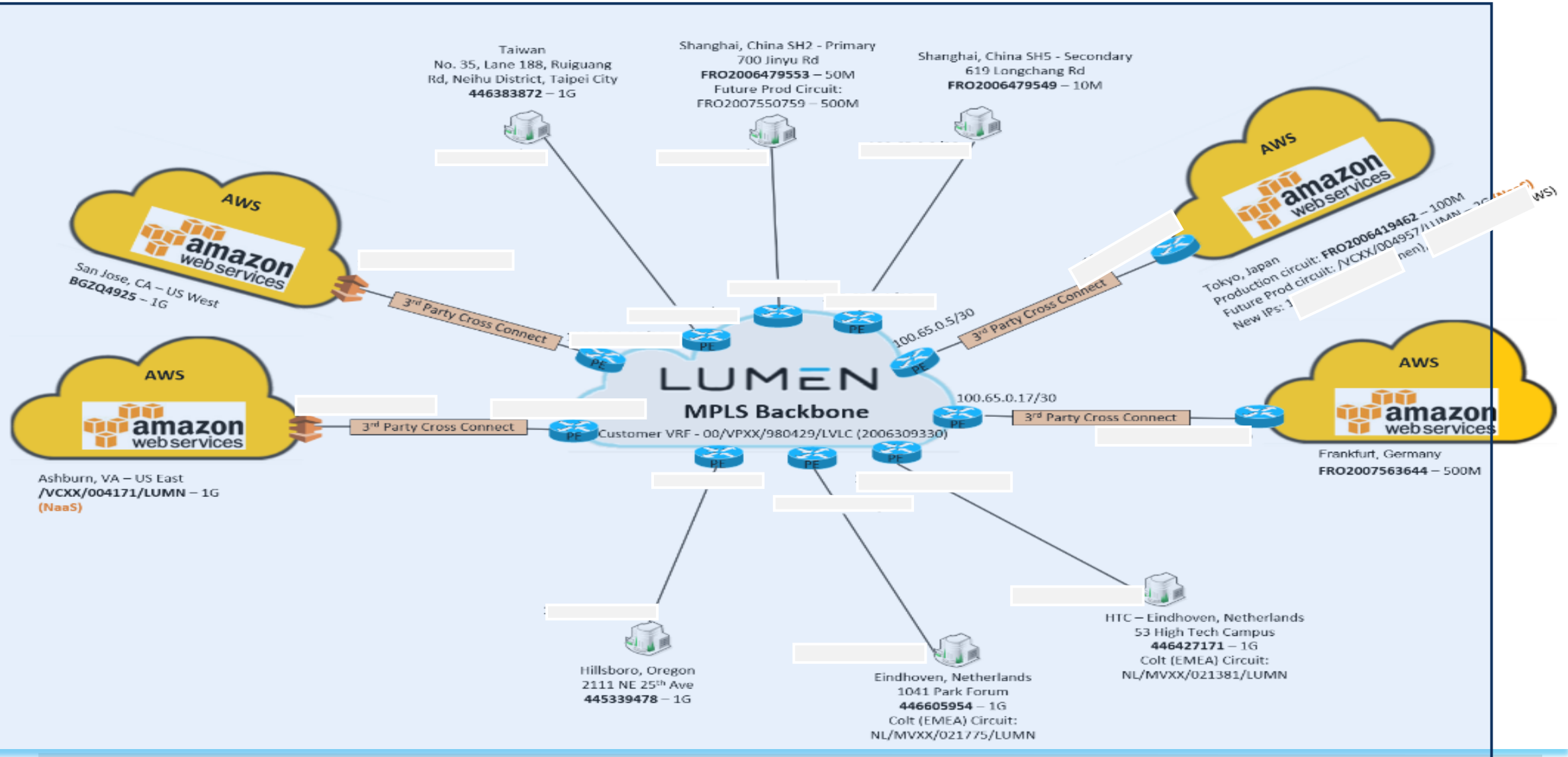
HUB Inter-Region Redundancy

Utilizing multiple carrier paths

Advantages to setting up multi-Carrier links

This project is to move away from a set single path between Global Hubs. We have multiple carrier technologies available to setup backup links. Use of a routing protocol (BGP) will select the best path and route around a carrier failure. The carriers we have available in Cloud based hubs:

- MPLS dedicated circuits (LUMEN)
- Cloud provider inter region transport (VPC Peering – Transit GW)
(Limited IPsec Throughput)
- Cloud provider Internet Gateway (Public Internet)

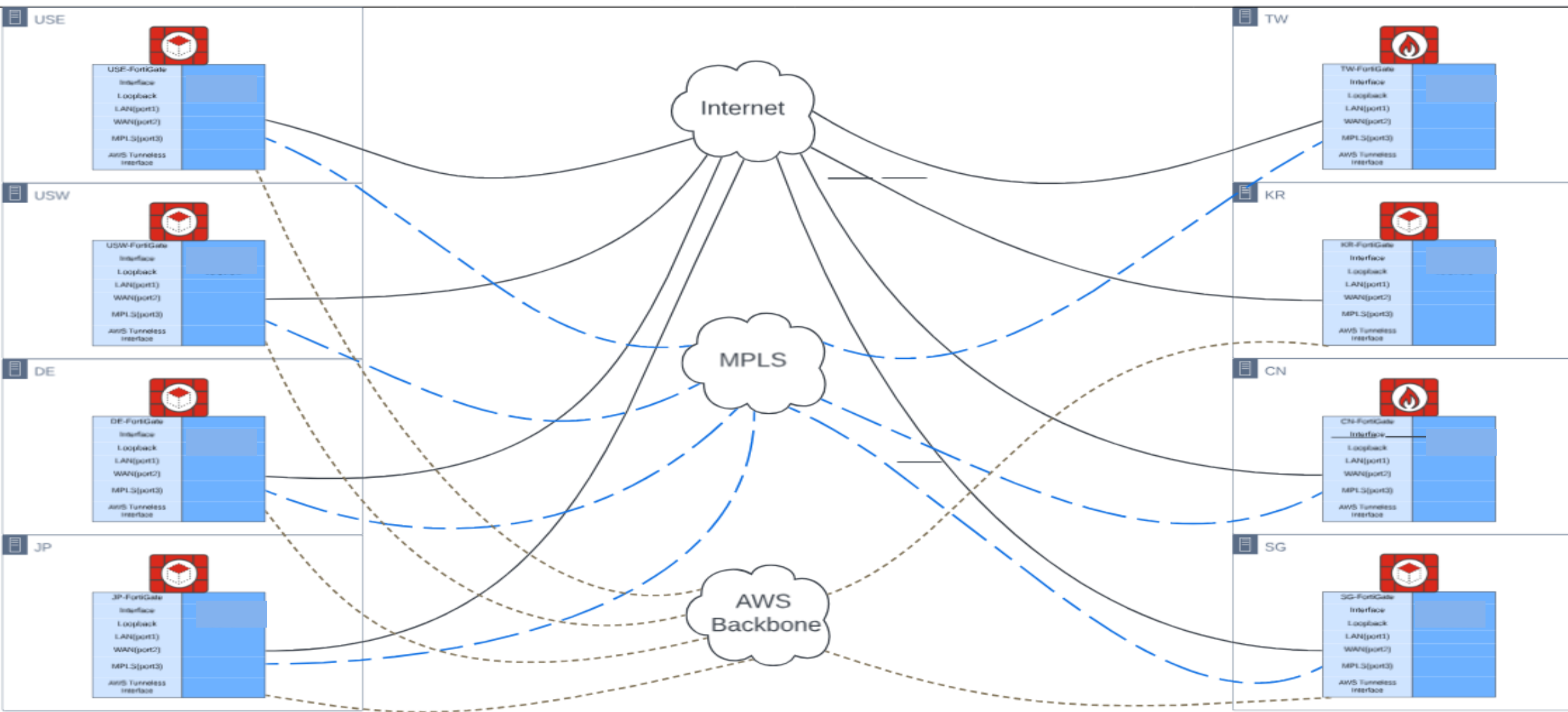




serviceNET Fortinet Backbone

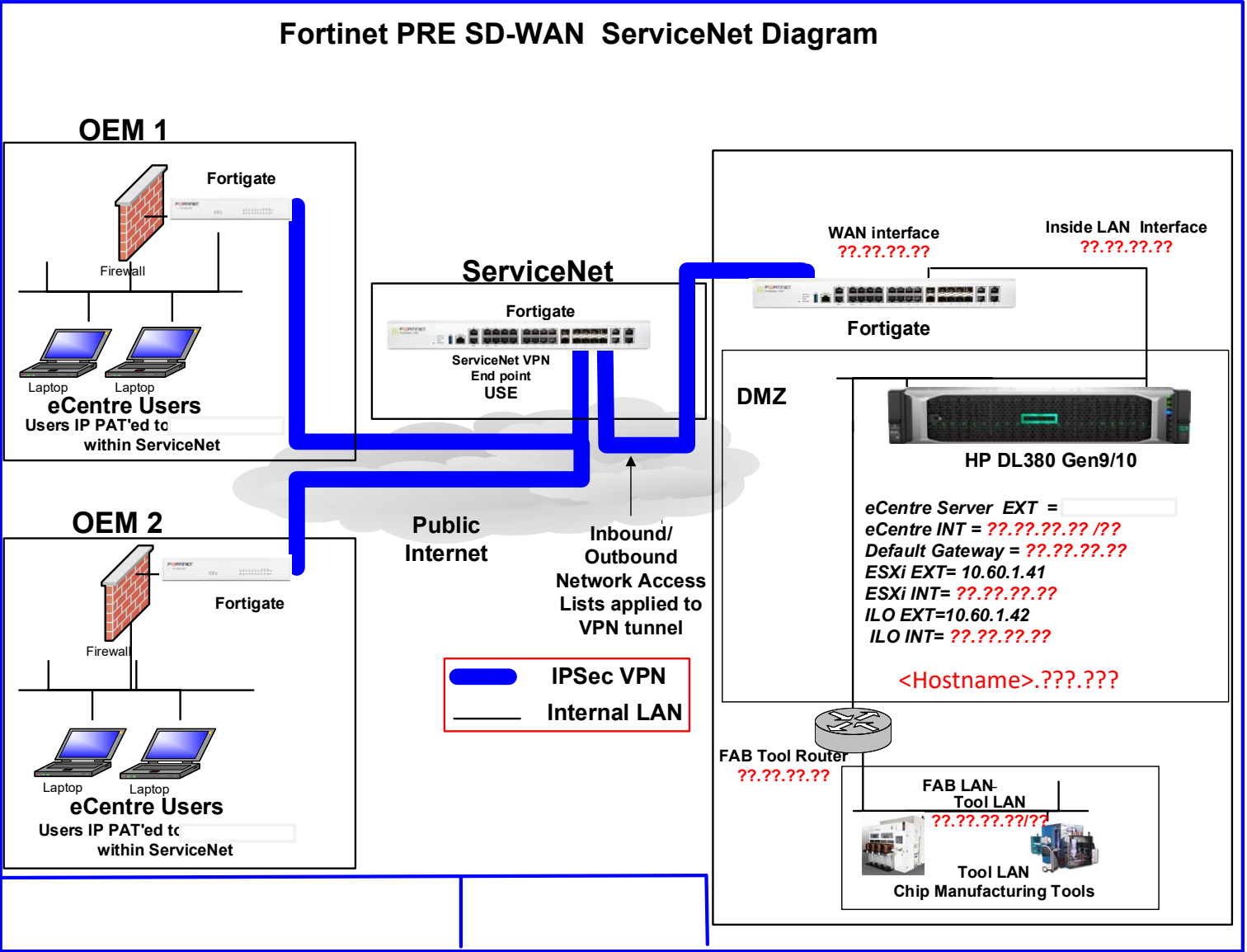
Location: Physical Location (Country - City/State) Securewise Hub: hub_name

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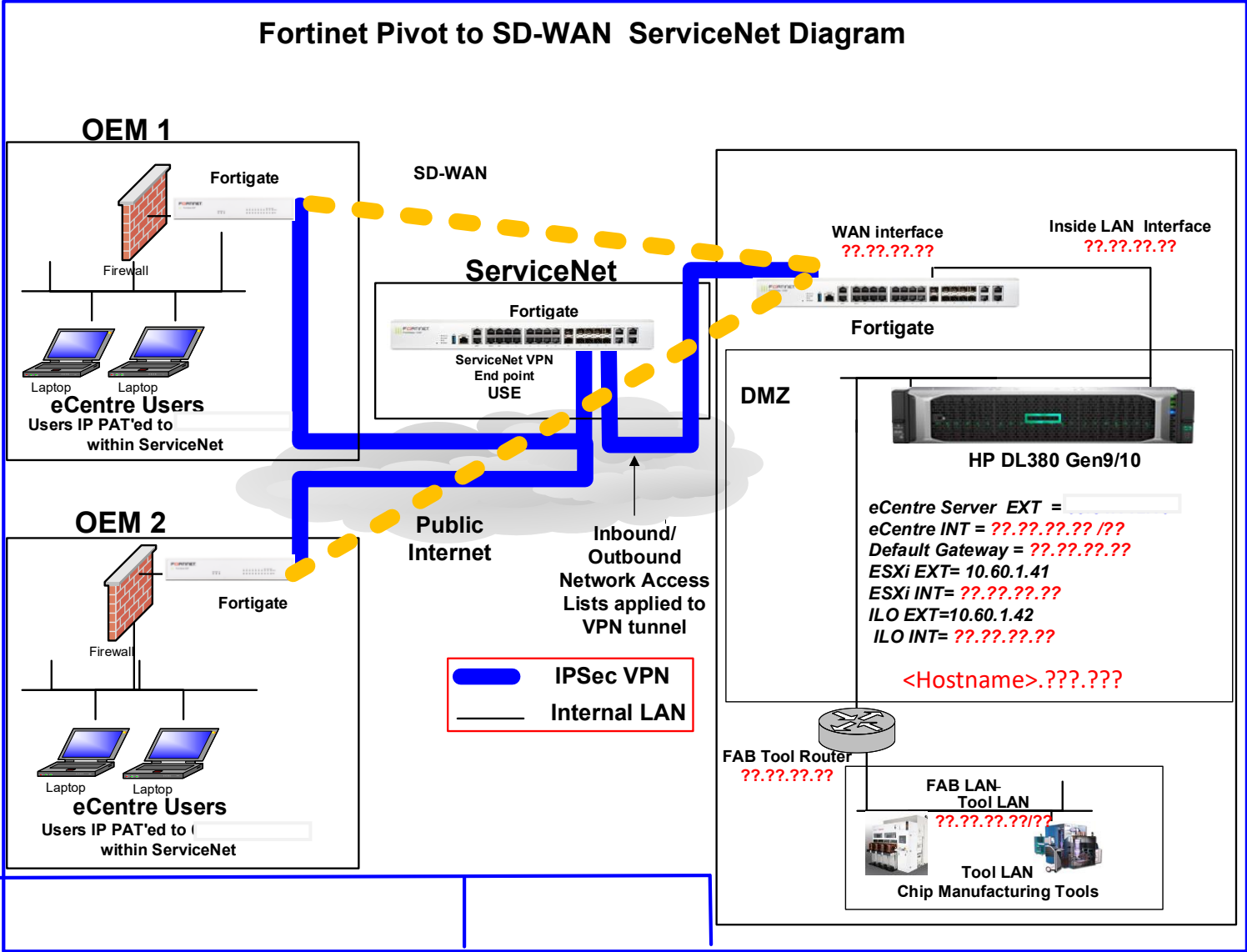


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Future SD-WAN considerations and functionality

Pivot from Classic Hub and Spoke VPN

Introduction

The SD-WAN ecosystem allows granular control of the traffic and the ability to become more fault tolerant. Nodes that have dual ISP's can automatically route around a failed circuit.

- All nodes must be using secureWISE Fortinet devices to use the technology
- To have circuit failover there must be a backup circuit available
- Traffic riding inside SD-WAN has better reporting capability
- SD-WAN has routing path auto discovery

Sneek Peek into Future Projects

Leveraging emerging technology to be future ready

Inter-region cloud connections > 10 GBps

AWS now offers high speed transit between regions using a specialized gateway option. Testing is underway to validate the performance claims

- Training has begun incorporate this option into our environment.
- Next generation routing needed to integrate into Hub and Spoke Topology
- No timeline has been announced on the viability of this technology integration

Q & A ?

Questions

&

Answers

Thank You

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