

# Transforming Network Automation at the Edge (a use Cases)

## About Me



*Long standing IT professional, working for more the 15 years in the Out of Band, Data Center management and networking space*

***Living:***

Limerick, Ireland

***Hobbies:***

Running, Photography

## *Most common customer requirements @ the Edge*

- Faster deployments and the ability to scale quickly.
- Enterprise-grade security
- Collapsing of Hardware/Reduction of Hardware complexity
- Always on connectivity, more connection options !!
- Increasing Security footprint on the Edge
- Reducing management requirement



## *Customer Use Case*

# ***SD-Branch & Security (SASE)***

*One of the world's leading oil and gas service providers was looking for a solution to consolidate the network stack at their remote locations and drilling rig/command centers all over the globe.*

*Their existing solution was cumbersome to manage and offered limited scalability – each appliance had its own management software and associated CAPEX and OPEX costs.*

### ***Requirements:***

Simple to manage SD-Branch / SASE solution with high availability and connectivity failover embedded for each drilling rig/command center location.

### ***Old Solution:***

Each drill rig / location had a network stack consisting of a hardware firewall and hardware switch on top of the drill rig's connected devices.

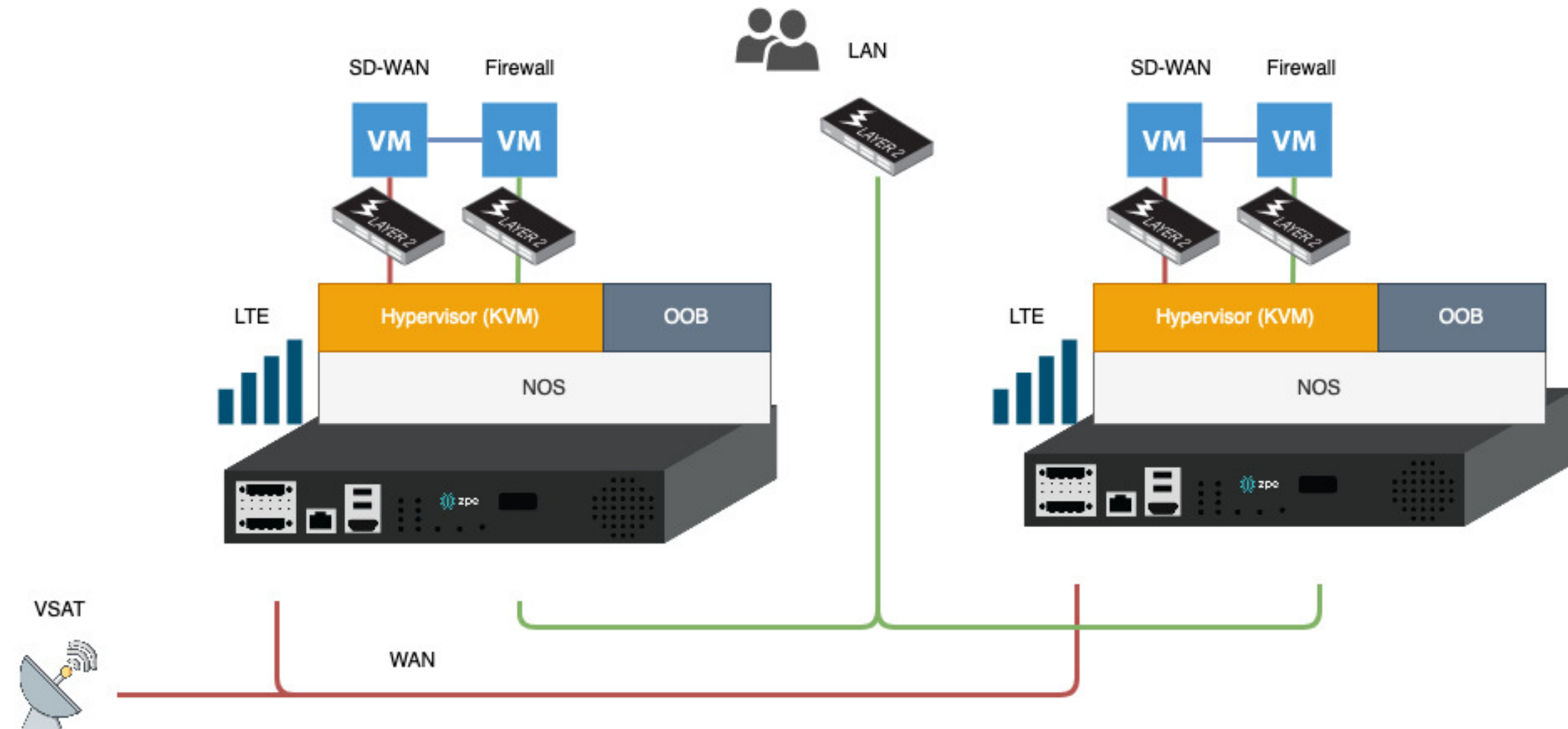
# Challenges

- Extremely hard to reach remote sites
- Global deployment with different skill sets in each location
- Multiple devices in a HA configuration
- Better connectivity/bandwidth is required for each site, currently using only VSAT
- Due to newer business applications, changed the security profile
  - Support for Cloud and Split tunnel
- Hardware and software management was an issue
- Integration of hardware into automation is an issue, boot-strapping

## *Options*

- Vendor Specific Solution vs Vendor Agnostic Solution
- Connectivity through VSAT plus LTE/5G to increase bandwidth
- SD-WAN solution, with different VPN overlay options
- Hardware appliances vs NFV options
- Security based on SD-WAN solution or EDGE deployment of corp. Firewall solution
- One automation solution for all components or multiple tools
- OOB for hardware components or depend on HA capabilities

# Final Implementation:



## *Decision Time*

- SD-WAN solution specialising in Low Bandwidth high Latency environment
- Hardware Consolidation, from 8RU to 2RU
- Integrated OOB function, including Sensors and RPDU support, providing remote access
- Full Integration with existing Automation Tool
- Single vendor support for hardware
- Connectivity through VSAT plus LTE/5G to increase bandwidth
- Security based on SD-WAN solution



## Q & A

