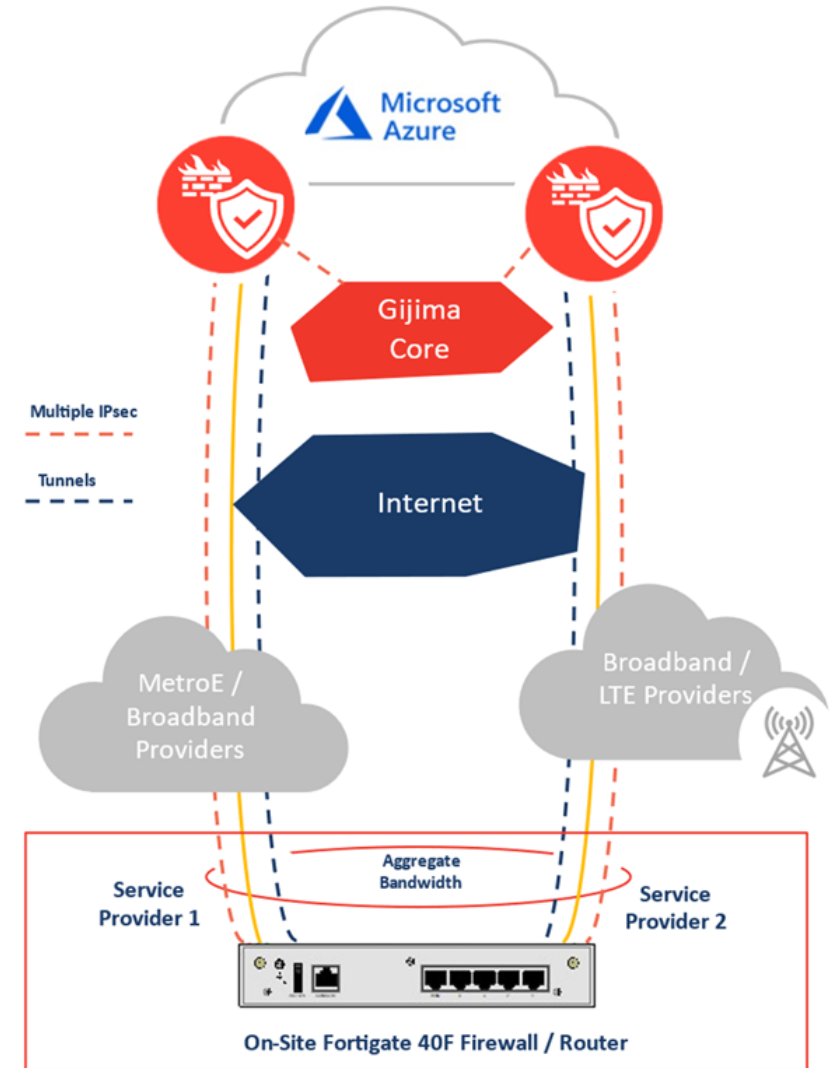


SD-WAN Technical Solution Overview

SD-WAN Services

- Hosted on Microsoft Azure
- FortiGate NGFW/SD-WAN router
- UTM Protection incorporated
- Active-Active configuration
- Two different SP's providing two technologies
- Enhanced Monitoring using analytics
- Customer Dashboards through several platforms
- Multiple IPSec encryption tunnels
- Gijima High availability, redundant Core
- Traffic Shaping methodology



Why our Solution?

Gijima's complete service offering

All SD-WAN Services include:

- Hosted on Microsoft Azure
- Modem and last mile support - Vendor Agnostic
- CPE Support
- Backbone infrastructure support down to a level where:
 - (*) User experience is emulated
 - (*) Thresholds are defined to initiate proactive support services in the interest of meeting SLA commitments
 - Tunnels managed as active-active as part of redundancy strategy
- Service Delivery management end to end with committed SLAs
- Continuous Business improvement
- Security at remote site – Capable
- Implementation experience of 1500 SD-WAN end-points across different industries (Including manufacturing)

Carrier stack

Broadband Fibre, Broadband Wireless, DSL, LTE



Hardware (SDN)

CPE; Modem (Primary and LTE); Antennae; Core Hardware; Sundries

FORTINET



Technical Support (Back Office)

L2 and L3 Back Office Support; MARC (Including L1 Support)

Field Support

Gijima Field Support resources and Partners

Monitoring and Alerting

NOC; Bbox and Hotrod; PRTG; Forti Manager

Service Delivery Management

Service Desk; SDM; OPM; Incident, Problem and Change Management

TC Portfolio Elements



Enterprise WAN-as-a-Service

Enterprise Network Management
WAN connectivity based on:

- SD-WAN
- MPLS
- Dedicated Circuits
- Internet Access
- Global Access Networking
- Network Security

Managed LAN-as-a-Service

LAN connectivity based on:

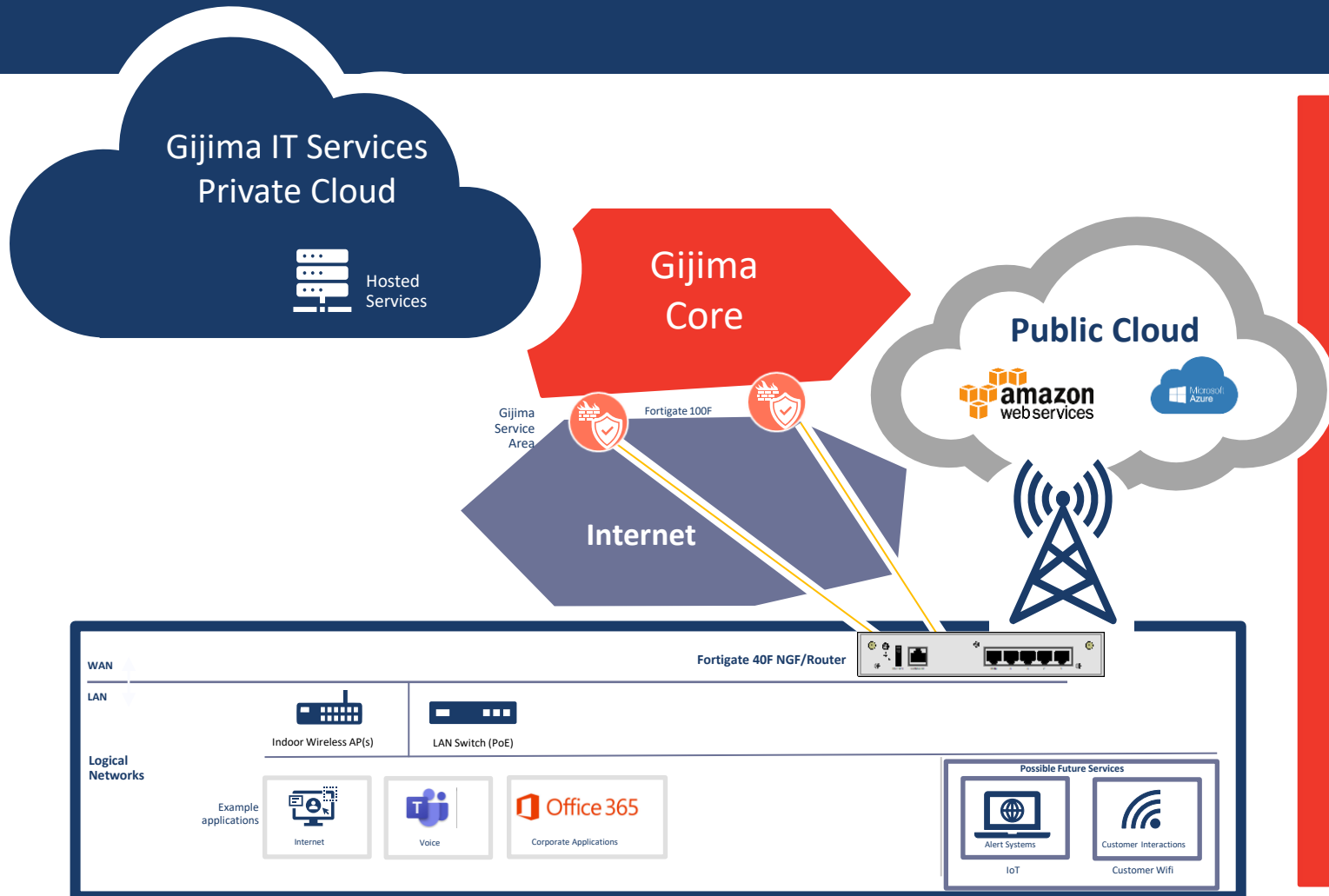
- LAN/WLAN/Wi-Fi based on:
- LAN
- Wireless LAN Access Points
- Wi-Fi
- Guest Wi-F

Dynamic Unified Communications-as-a-Service

Unified Communication Services

- Voice
- Collaboration
- Business Trunking (SIP & SBC)
- Contact Center

Network Topology Overview



Secure SD-WAN Capabilities

- Multi-functional CPE – Firewall / Router
- Intelligent path selection
- Aggregate Bandwidth
- L7 Application awareness
- Multi-Transport Support
- Access to Cloud Services
- Traffic Shaping & Policing
- Single Centralized Management

Connectivity Managed-Services



Enterprise WAN-as-a-Service

Managed LAN-as-a-Service

**Dynamic Unified
Communications-as-a-Service**

Integrated independent stack per Connectivity Service

- Delivery Management (build and run)
- 24*7 WAN Management (tools, processes, skills)
- Service Management (Incident, problem, change)
- Service Desk (tier 1 & 2)
- Vendor (incl carrier) Management
- Reporting and innovation (continuous improvement)