

NFV • VIRTUAL NETWORK FUNCTIONS • SD-BRANCH

Virtualize the Network. Centralize Control. Secure Access Everywhere.

Inteltel-managed virtual network services simplify branch infrastructure, cloud access, security policy, and network operations.

Discover how it works



NFV: IT Virtualization Technology

Move network and security functions from dedicated appliances into software-based services that can be centrally deployed, managed, and orchestrated.

From physical appliances to virtual services

Network Functions Virtualization (NFV) separates network functions from dedicated hardware. Firewalls, VPN gateways, routing, secure gateways, optimization, and other services can run as virtualized functions on standardized infrastructure.

Flexible

Deploy functions as software.

Scalable

Add capacity as needs grow.

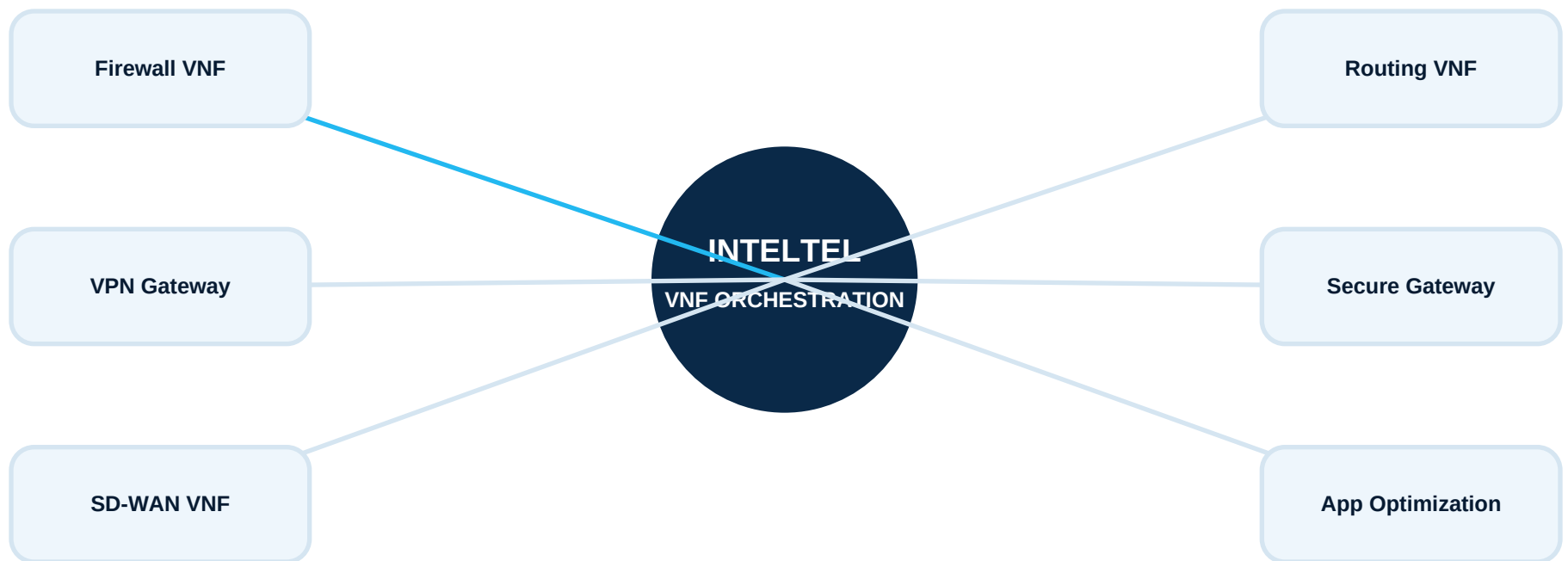
Centralized

Coordinate policy and lifecycle operations.



Virtual Network Functions

Inteltel manages and orchestrates multiple virtual network appliances through a unified operating environment.



One orchestration layer. Multiple network and security functions.

One Operating Model Across WAN, WLAN & LAN

Simplify cloud management and policy enforcement by coordinating connectivity, security, identity context, and branch operations.

01

WAN

SD-WAN, routing, VPN, path selection

02

WLAN

Wireless policy and user access

03

LAN

Switching, segmentation, device access

UNIFIED POLICY + ROLE-BASED CONTEXT

Apply consistent access, security, segmentation, and operational policy across the branch.

Bring Identity Awareness to the WAN

Use user, device, location, application, and security context to support more consistent access and policy decisions.

- 1 **User**
Who is requesting access?
- 2 **Device**
Is the device trusted?
- 3 **Location**
Where is the connection originating?
- 4 **Application**
What resource is being accessed?
- 5 **Policy**
What controls should apply?



Simplify the Enterprise Branch

SD-Branch extends software-defined operations beyond the WAN by coordinating branch connectivity, LAN, WLAN, security, and virtualized services.

Simpler Design

Reduce appliance sprawl and fragmented management.

Lower CAPEX

Consolidate services on standardized infrastructure.

Operational Consistency

Use centralized orchestration and repeatable policy.

Cloud Ready

Securely connect users and devices to cloud applications.



Reduce Onsite Hardware Complexity

Virtualized network functions can consolidate services that traditionally required multiple dedicated branch appliances.



Business impact

Fewer dedicated appliances can simplify deployment, reduce hardware lifecycle complexity, and create a more flexible platform for introducing new services.

Secure Access to Applications Anywhere

Provide users and devices with secure connectivity to applications, data, and services across branch, cloud, data center, and remote environments.

Users & Devices

Consistent secure access

Cloud Platforms

Protected workload connectivity

Business Applications

Policy-driven application access

Data Centers

Secure hybrid connectivity



Security Integrated into the Branch Architecture

Coordinate network and security controls rather than treating them as separate operational silos.

Firewall VNF

Policy enforcement and threat control.

VPN Gateway

Encrypted connectivity for users and sites.

Secure Gateway

Protected access to Internet and cloud resources.

Segmentation

Separate users, devices, applications, and traffic classes.

Identity Context

Apply policy using user and device attributes.

Monitoring

Centralized visibility and operational response.

Centralized VNF Lifecycle Management

Coordinate deployment, configuration, policy, monitoring, scaling, updates, and optimization across virtual network services.

1 Deploy

2 Configure

3 Secure

4 Monitor

5 Scale

6 Optimize



AI-Assisted Visibility & Performance

Use telemetry, analytics, event correlation, and operational context to help teams identify anomalies, prioritize incidents, and optimize service performance.

Telemetry

Collect network and service health data.

Correlation

Connect related events across services.

Prioritization

Focus teams on consequential issues.

Optimization

Identify capacity and performance opportunities.



Why NFV + SD-Branch Matters

A software-defined branch model can reduce complexity while improving flexibility, policy consistency, and operational control.

Lower Infrastructure Complexity

Consolidate multiple services and reduce dedicated appliances.

CAPEX Efficiency

Use standardized infrastructure and flexible connectivity.

Better WAN Utilization

Apply intelligent path selection and policy across available links.

Faster Service Introduction

Deploy new virtual services without a hardware refresh at every site.

Consistent Policy

Coordinate security and access across distributed branches.

Operational Agility

Manage changes centrally and scale as requirements evolve.

SD-Branch Extends Beyond SD-WAN

SD-WAN optimizes WAN connectivity. SD-Branch expands the operating model to LAN, WLAN, security, and virtualized branch services.

SD-WAN

- WAN path selection
- Application-aware routing
- Central WAN policy
- Link utilization

SD-BRANCH

- WAN + LAN + WLAN
- Virtualized network services
- Role-based branch policy
- Integrated security & orchestration

Intel Implementation Model

Introduce virtualized network functions and SD-Branch through a structured, business-aligned transformation process.

01**Discover**

Inventory sites, appliances, applications, connectivity, and security requirements.

02**Assess**

Identify consolidation opportunities, dependencies, risks, and readiness.

03**Design**

Define VNF architecture, policies, segmentation, resilience, and cloud access.

04**Deploy**

Implement virtual services, orchestration, and branch connectivity.

05**Validate**

Test application access, security controls, failover, and performance.

06**Operate**

Monitor, support, maintain, and manage the environment.

07**Optimize**

Continuously improve performance, capacity, policy, and service design.

Where Virtual Network Functions Fit

Apply virtualized network and security services across distributed enterprise environments.

Retail & Branch Networks

Standardize connectivity and security across many locations.

Remote & Hybrid Work

Secure user access to applications and cloud services.

Cloud-First Enterprises

Connect branches directly to cloud and SaaS environments.

Mergers & Expansion

Introduce standardized services at new or acquired sites.

Temporary Locations

Deploy flexible network services without heavy appliance footprints.

Modernization Programs

Replace aging hardware with a software-defined operating model.

Vendor-Neutral Engineering + Managed Operations

IntelTel coordinates network, security, cloud connectivity, and lifecycle operations through one accountable managed-service model.

1

Vendor-Neutral

Select functions and platforms around requirements.

2

Security by Design

Integrate security and access policy from the start.

3

End-to-End Engineering

Assessment through deployment and migration.

4

24/7 Operations

Monitoring, troubleshooting, escalation, and support.

5

Continuous Optimization

Improve performance, capacity, policy, and lifecycle decisions.



OUTCOMES

A More Flexible Branch Operating Model

Create a scalable foundation for secure cloud access, simplified branch operations, and ongoing network modernization.

Simplify

Reduce appliance sprawl and fragmented management.

Secure

Apply coordinated security and identity-aware access.

Scale

Introduce services and capacity as the business grows.

Optimize

Use centralized visibility to improve performance and utilization.

Modernize

Build a foundation for SD-WAN, SASE, Zero Trust, and cloud networking.

Operate

Manage network functions through one coordinated lifecycle.

Virtualize the Network. Centralize Control. Secure Access Everywhere.

DISCOVER HOW IT WORKS

Modernize the Branch. Virtualize Services. Operate as One.

Explore how Inteltel can help assess, design, deploy, and manage NFV, Virtual Network Functions, SD-WAN, and SD-Branch architectures.

Start Your Network Virtualization & SD-Branch Assessment

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