

# 5G & BEYOND



## ULAK 5G New Radio

3.5GHz & 26GHz

Macro solution with full mMIMO capability

NSA&SA solutions integrated with Ulak eNB

Open standard interfaces and full flexibility



## 5G Core Network

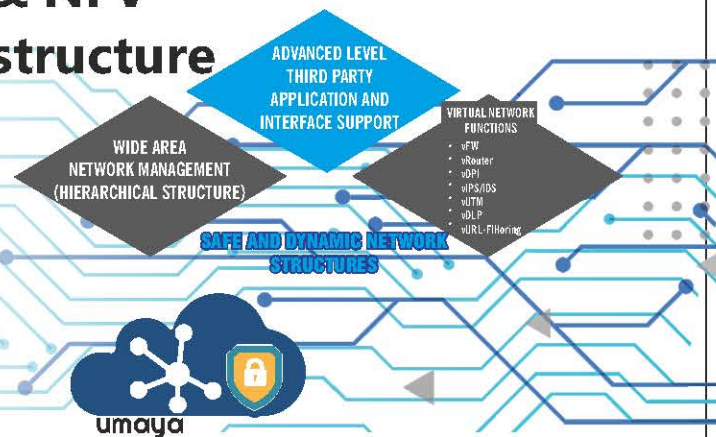
Edge computing

On-demand Slicing

Virtualized Functions

Mission Critical Services

## 5G SDN & NFV Based Infrastructure



## uMAYA 5G READY

### SD-WAN



#### SDN FEATURES

- Control Plane / Data Plane Separation
- Network Function Virtualization
- Zero Touch Provisioning
- Secure Control Plane (TLS)
- Control Plane / Data Plane Redundancy



#### KEY TECHNOLOGIES

- ETSI/NFV Compatible Architecture
- Carrier Grade & 5G Ready Control Plane
- OpenFlow 1.3, 1.5 Support
- Intel DPDK for Dataplane Acceleration
- OVSDB, NetConf, YANG, JSON-RPC, REST APIs
- Control Plane High Availability and Scalability
- MEF CE3.0 SD-WAN Standards Compatible

#### NETWORK SERVICES

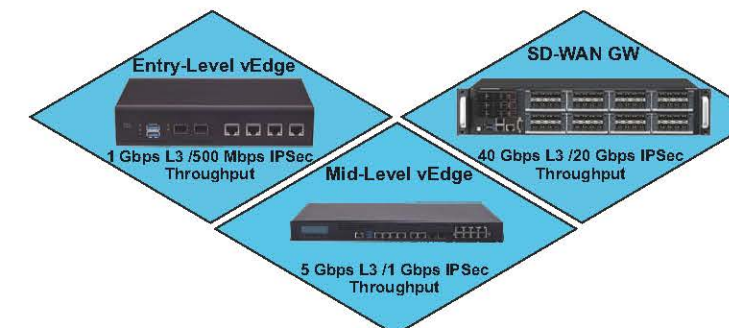
- Dynamic Overlay
- IPsec VPN
- IP Routing ( OSPF/ BGP/ PBR)
- DHCP Server / Relay
- DNS
- NAT (Source/ Destination)

#### MONITORING and VISIBILITY

- Topology Monitoring
- Auto Discovery
- Topology Health Status
- Netflow, Sflow, Flow Statistics
- SNMPv2, v3, SysLog
- Multi User /Role Support WEB Based GUI
- Big Data & Analytics

#### CYBER SECURITY SERVICES

- Stateful Firewall
- URL / Content Filtering
- Access Management
- Secure Traffic Management Algorithms
- Secure Address Management
- Secure Log Management



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