

Virtual B-RAS solution



Overview

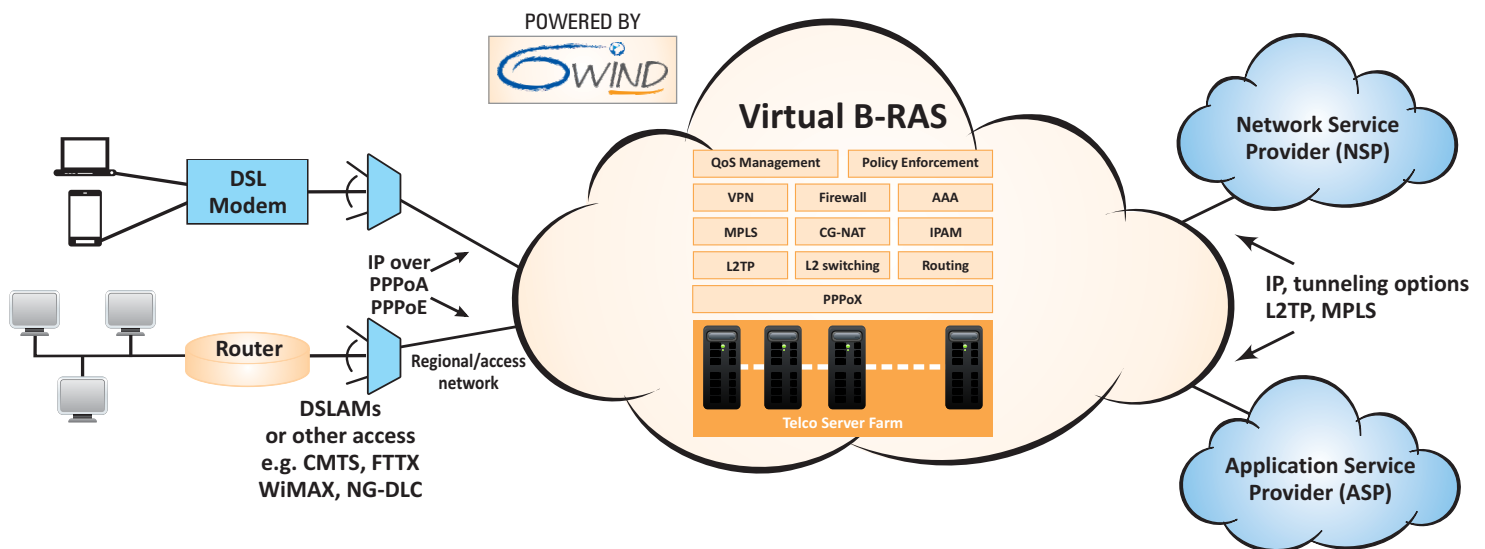
Broadband Remote Access Servers (B-RASs) or Broadband Network Gateways (BNGs) perform a wide variety of network functions from subscriber session management to IP address assignment, policy enforcement and QoS management.

Huge growth in Internet video traffic and number of connected devices with multi-play capabilities, pose a challenge to service providers to continuously upgrade capacity and improve subscriber, session and application level intelligence at the network edge. Rapid technology transitions, new service launches, security, privacy and metering requirements are forcing service providers to incur significant amounts of CAPEX and OPEX to continuously upgrade the infrastructure.

Virtualization of B-RAS functions offers high-level of flexibility, scalability and investment protection to service providers. B-RASs running as virtual appliances optimized to standard x86 blades using Intel DPDK allows network operators to deploy products that can support on-demand scalability and flexibility to enable dynamic QoS management and policy enforcement at a lower cost.

Virtual B-RAS solution

ALLEN Calsoft Labs offers a high performance Virtual B-RAS solution addressing residential broadband and Evolved Packet Core (EPC) requirements. Powered by highly optimized data plane processing software from 6WIND, the ALLEN Calsoft Labs' Virtual B-RAS solution supports PPPoX termination and L2TP/GRE tunneling with support for Virtual Routing and Forwarding (VRF) for multi-tenants, apart from a host of other features including DHCP, AAA, IPSec/PPP interworking and QoS management.



With about 15 years of rich experience in networking product development and deployment across access, metro and core networks, ALLEN Calsoft Labs brings a deep understanding of the domain, appreciation of deployment challenges, and an expert engineering team that has worked on few of the industry's first commercial virtual network function (VNF) deployments.

Virtual B-RAS Solution - Features

- PPPoX termination with VRF support for Multi-tenants
- DHCP support :
 - DHCP Relay
 - DHCP Server for IPv4/IPv6
- Tunneling :
 - L2TP and GRE with VRF support
 - IPsec/PPP interworking per VRF
- AAA (Authentication, Authorization, Accounting) – RADIUS
- Security :
 - IP address tracking
 - Centralized Firewall
- QoS :
 - QoS per service
 - QoS per subscriber, Hierarchical QoS
 - Dynamic Bandwidth management

vB-RAS Solution – Benefits

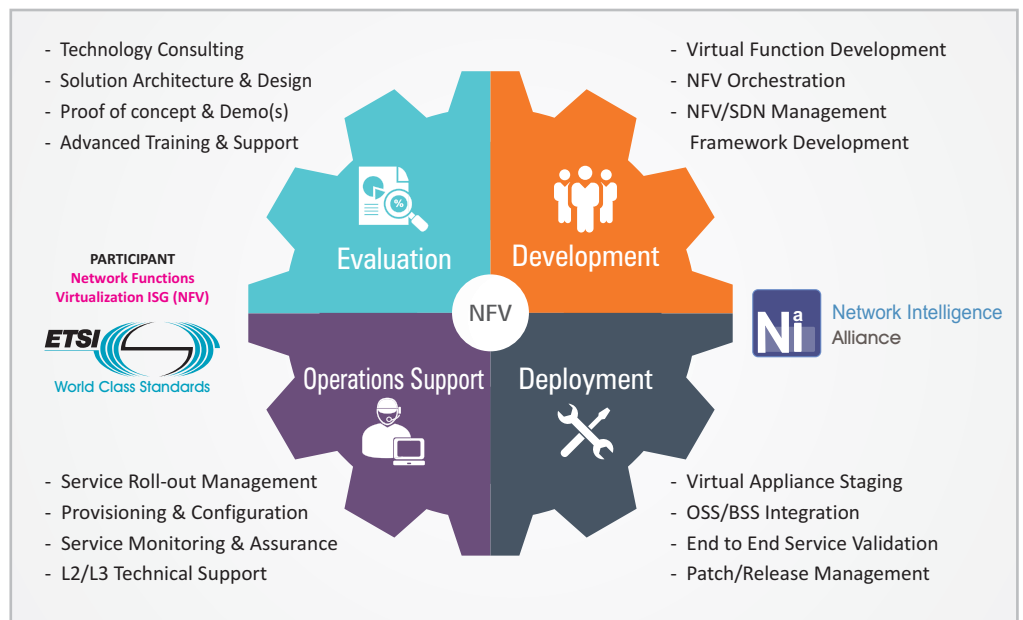
- Powered by high performance 6WINDGate software from our partner 6WIND
- Intel DPDK optimized to deliver 256K PPPoE tunnels on a 2U rack server with standard x86 processors
- Ready for deployment in a virtualized environment / Telco server farm
- Integrated with ALTEN Calsoft Labs' NFVOps orchestration framework for automated service provisioning
- Open, standards based solution
- Offers significant CAPEX and OPEX benefits to Service Providers

ALTEN Calsoft Labs' Professional Services

ALTEN Calsoft Labs' Professional Services organization offers Virtual B-RAS solution deployment, OSS/BSS integration and Operations support services to Telecom operators.

ALTEN Calsoft Labs' addresses the needs of Service Providers from Evaluation/PoC stage to Service Roll-out and L2/L3 Technical support, all under one roof.

Partners



ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

www.altencalsoftlabs.com



business@altencalsoftlabs.com