Zeetta NETWORKS

NetOS
powered by zeetta NETWORKS
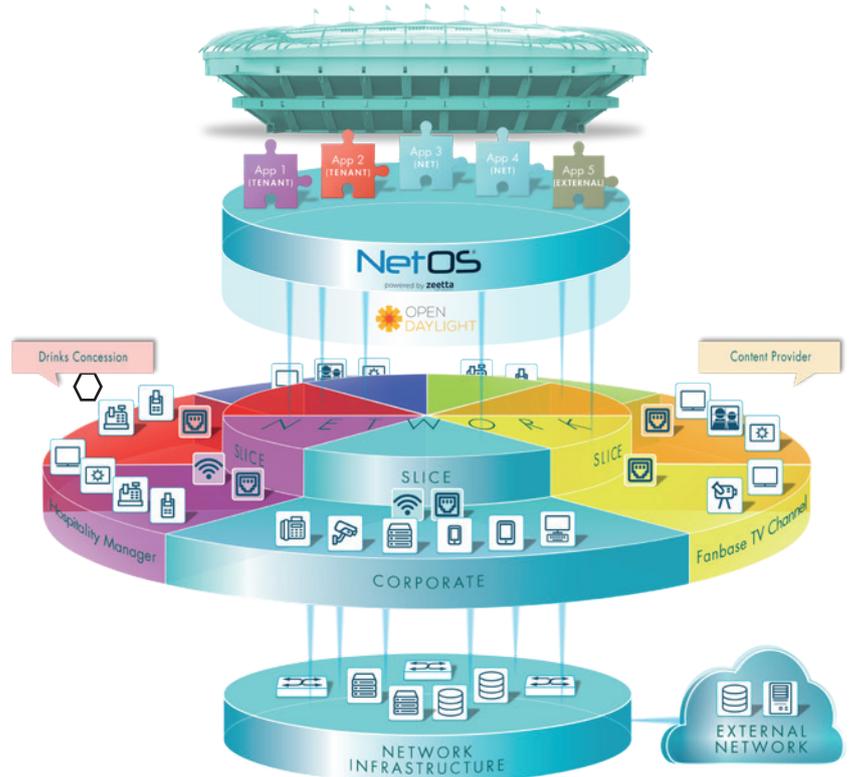
NETOS® SOFTWARE SUITE

Zeetta Networks provides flexible, versatile and scalable network service delivery to multiple tenants, using NetOS® Software Suite, a programmable network infrastructure platform.

Key Features

- **Network Slicing** - Flexible, on-demand segmentation of a common physical infrastructure into multiple logical or virtual networks, for multi-tenant end-user applications whilst being decoupled from the physical network

- **Network Splicing®** - Integration of additional network devices and technologies across ethernet, optical and wireless technologies, including IoT devices and controllers.

- **Future Proof** - Extensible and open framework allows rapid support for new network devices. Open APIs allow 3rd parties to create network services via web-apps, scripts or integration with OSS/BSS

- **Vendor Agnostic** - Control, management and provisioning of services with multiple network device technologies, across multiple network domains, irrespective of equipment manufacturer

NetOS®

NetOS® Software Suite comprises NetOS®Core, the platform, and NetOS® Console, the administration interface.
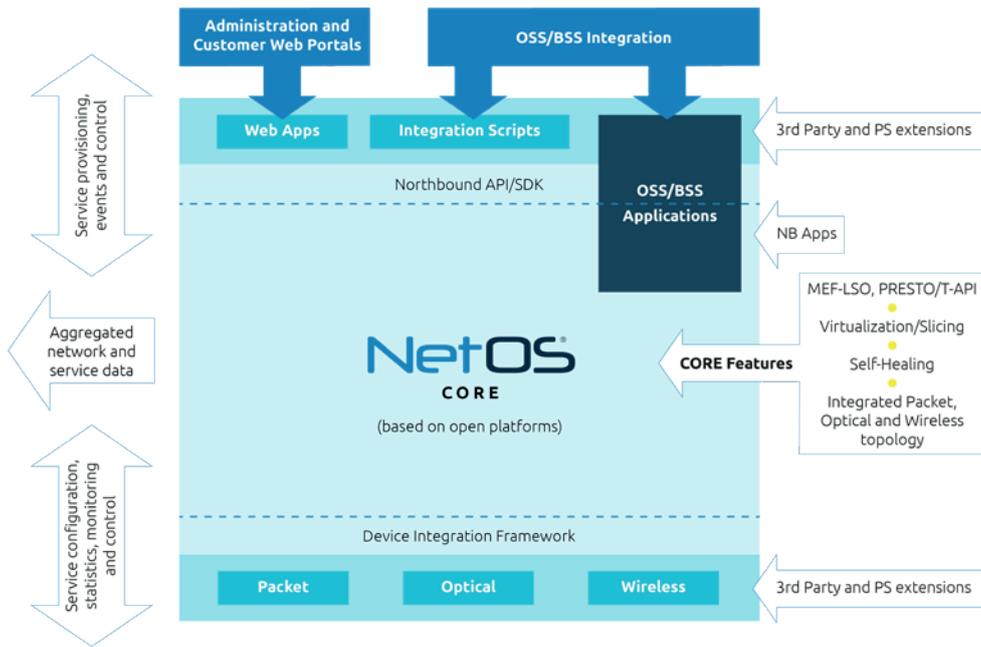
NetOS® Core

- **Programmable network controller** - automated operation and control of a range of multi technology, multi-vendor network devices.

- Slicing engine - dynamic creation of virtual networks that are based on reservation of underlaying physical devices and links guaranteed to satisfy the quality criteria of the service deployed on each slice. Slices are isolated and allow hosting services for multiple tenants over the same shared physical infrastructure.

- Northbound API - based on industry standards including TAPI(ONF) and MEF LSO. The northbound interface API allows for customers and 3rd parties to create bespoke applications that extend the core functionality and integration with external systems. Zeetta Networks offers a range of applications for the Enterprise and Service Provider markets.

- Southbound device support - a framework allows extending support for additional network devices and categories (optical, ethernet and wireless) including IoT devices/controllers.

NetOS® Console

- Intuitive and configurable GUI - Graphical User Interface provides visibility of the entire network and status. Visualised in topology, plan and map views with filtering based on device category, status, location

- Monitoring - Deviations between planned and actual network configurations dynamically highlight misconfigurations (connections or wirings) or malfunctions (links or devices) to aid remediation.

- Automation - Allows definition of custom host category (such as IoT devices) with rule based automated device enrolment and association to the appropriate network.

In addition to the NetOS® Software Suite, Zeetta offers a Data Suite product featuring advanced data collection from the network, multiple storage connectors, analytics and a customisable dashboard. This facilitates billing, service assurance and self-optimisation. In addition, the insights gained from analytics can assist in identifying new services and revenue streams.

www.zeetta.com   📞 +44 (0)117 344 5304   ✉ info@zeetta.com

Reference Architecture

Detailed Features

Core Technology

Network Slicing Engine Pluggable Engine Extensions	Multi-tenancy enabler	OpenDaylight-based architecture

Northbound API

MEF Architecture compliant MEF LSO Support	ONF TAPI Support	Open APIs for other functions (SDK available soon)

Network Device Support

Extensible framework Multi-technology support Multiple management protocol support	Ethernet (LAN) Optical (Fibre switch, Open Optical (coming soon) WiFi overlay mm-Wave (coming soon)	Protocols supported: OpenFlow 1.3, OVSDB, NETCONF/YANG, SNMP, CLI

Security

Users and app Authentication/ Authorisation	Role Based Access Control Health monitoring	Audit logging

Applications

Network Resource/Service Calendaring Booking	Network Operations and Security Dashboard	Network User Portal (coming soon)

Console

Map/plan/topology view Single sign-on	Topology editor Service editor	Network events logging

Data Analytics

Deep Packet Inspection MongoDB Storage	ElasticSearch engine for analytics	Kibana customizable dashboard

Pricing

Perpetual licences for the core	Annual subscriptions for applications/ added value features	Flexible maintenance support packages

NetOS® Console

Visibility of the entire network and status, visualised in topology, plan and map views.
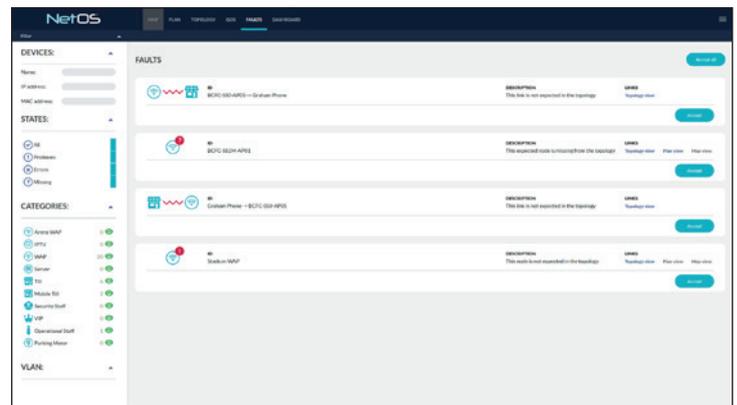
Misconfigurations and malfunctions are dynamically highlighted to aid remediation.