Cloud Operations: accelerate your telco cloud journey
We are now firmly in the era of the cloud and devices driven by technology shifts such as virtualization are causing significant changes in human behavior and massive disruption to businesses. Solutions are increasingly oriented towards applications, reducing the traditional differences between telecom and IT networks.

Nokia supports operators throughout their cloud network journey, from initial introduction to full enablement. It does this with a value proposition of transformation services and operations that aim at continuous improvement. Nokia has vast, proven capabilities in managing telecom and IT network operations across the globe. Using these capabilities, Nokia has designed the next generation operations delivery blueprint, allowing it to respond to the challenges posed by the operation of virtualized networks.

This delivery blueprint addresses the challenges of organizational changes and process enhancements with the implementation of a DevOps framework, OSS strategy and a strong governance framework for the transformation of operations. The delivery framework is also enabled through work level agreements with strategic partners to support a cloud open ecosystem on agreed subjects.
NOKIA HYBRID MANAGED SERVICES

DevOps SERVICE PACKAGES
- RUN-TIME
- DEVELOPMENT (DevOps)
- ONBOARDING & INTEGRATION Support
- FULLFILMENT
- OPERATION SUPPORT

ORGANISATION
- JOB CATALOG
- PROFESSIONAL DEVELOPMENT
- DELIVERY CENTERS
- PARTNER COLLABORATION

GOVERNANCE
- PROCESS
- SYSTEMS / TOOLS
- METRICS

Operations LAB

Fully Integrated Delivery Structure with FLEXIBILITY, SCALABILITY AND QUALITY
**Product Overview**

The solution is a radically new offering to meet the future requirements of Cloud managed services in multivendor networks. The Cloud Operations solution includes three main offerings, each with its own teams:

- Virtual Network Function (VNF) Operations: This manages the operations of virtualized network functions. VNF operations teams are also responsible for service management.
- MANO Operations: Concerned with the operations of MANO and VNF manager. The MANO operations team will manage the DevOps framework, as well as handling policy management.
- Data Center Operations: This is concerned with managing data center resources. The data center operations team will manage the operations of the compute, storage and networking components.

**Operator’s Benefits**

- Cut the time to introduce new technologies such as NFV and SDN
- Fast, flexible introduction of new services
- Improved availability and cost optimization
- Innovative sourcing models

**Value Proposition**

- Advanced delivery ecosystem
- Multivendor operations
- Strong transformation framework
- Scalable & flexible operations
- Dev-Ops framework readiness
- Advanced cloud competence centers to support transformation of operations and continuous improvement
Current Managed services requires labor-intensive network administration

Evolution reduces NOC/field labor by automations and IT/SW talents

Nokia Proposition

Managing hybrid environments

Extended Operations Capabilities

New Skills & Organization

Dynamic & Automated Operations

Operations for Telco & IT Domains

Managed Integration (DEVOPS)
The Nokia Cloud Operations solution introduces an enhanced service framework, covering end-to-end operations in multivendor networks. The services are comprised of:

- Governance & control
- Operations transition & transformation
- Run time operation services
- Fulfilment service
- Development support DevOps framework
- Operations support services
- VOPS Lab: proof of concept pre-production environment

Setting up cloud operations requires multiple interactions between different partners in a multivendor network. As a central part of its new framework, Nokia will be a “Single Point of Contact” for managing end-to-end network operations. The structure also promotes close co-operation between staff tasked with deploying the network and those responsible for operating it. Nokia has gained solid experience in the establishment of these cooperative working practices from delivering numerous contracts in different environments.

The Cloud Operations integrated delivery framework is supported by Nokia’s highly skilled global delivery centers but can also be supported locally to meet specific operator requirements.
About Nokia

Nokia is a global leader in the technologies that connect people and things. Powered by the innovation of Bell Labs and Nokia Technologies, the company is at the forefront of creating and licensing the technologies that are increasingly at the heart of our connected lives.

With state-of-the-art software, hardware and services for any type of network, Nokia is uniquely positioned to help communication service providers, governments, and large enterprises deliver on the promise of 5G, the Cloud and the Internet of Things. http://nokia.com

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