Nokia AirFrame Cloud Infrastructure for Real-time applications (NCIR)

Executive Summary
Nokia AirFrame Cloud Infrastructure for Real-time applications (NCIR) is a Network Functions Virtualization cloud solution, offering unique scalability and performance for the most demanding telco workloads in the 5G era. The latest release is an OPNFV* verified telco-grade solution that meets the requirements of high bandwidth and low latency applications at edge datacenters.

NCIR complements the Nokia AirFrame open edge datacenter solution. Together they provide the first solution in the market that enables operators to create edge clouds with widespread support of industry automation and real-time consumer applications.

NCIR offers the Edge Cloud solution its real-time optimized, OPNFV verified cloud infrastructure with OpenStack distribution built to run in small datacenters while providing the performance and low latency required by solutions like Cloud RAN. NCIR is the first edge optimized cloud infrastructure with carrier-grade high availability as well as flexibility to scale from single server edge cloud to multi-rack solutions. It offers easy deployment, with remote upgrade automation and configuration management.

- First edge optimized cloud infrastructure for CSPs’ high performance requirements
- Hybrid management of virtual machines and container workloads and umbrella management capabilities for a large number of distributed loads
- OPNFV verified offering with fast time to market - leveraging and scaling open source

Drivers & benefits

- Support for real-time software optimization and hardware accelerators
- Flexible scalability from single server edge cloud to multi-rack with SDN
- Interoperable and open, also supporting third party VNFs
- Time to market advantage with latest stable OpenStack, continuous delivery.
- Carrier grade high availability with sub-second reaction time, auto-recovery
- Deployment and update/upgrade automation with remote capability, runtime configuration management and open APIs. Designed for Security and Serviceability

The Edge Cloud will be a fundamental asset for service providers, allowing them to support new services and applications and opening new vertical market opportunities. The industry needs to start preparing and implementing edge infrastructure now to address these business opportunities and be ready for the next evolutionary steps of their networks, including 5G.

*OPNFV is Open source carrier grade NFV reference platform hosted by Linux Foundation. Aim is to speed up development and deployment of NFV, and accelerate the transformation of service provider and enterprise networks.
About Nokia

We create the technology to connect the world. Powered by the research and innovation of Nokia Bell Labs, we serve communications service providers, governments, large enterprises and consumers, with the industry’s most complete, end-to-end portfolio of products, services and licensing.

From the enabling infrastructure for 5G and the Internet of Things, to emerging applications in digital health, we are shaping the future of technology to transform the human experience. networks.nokia.com

Nokia is a registered trademark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or trade names of their respective owners.

© 2018 Nokia

Nokia Oyj
Karaportti 3
FI-02610 Espoo, Finland
Tel. +358 (0) 10 44 88 000

Document code: SR1806026162EN (June) CID205140