



Nokia Airframe data center solution, an Intel® Select Solution for NFVI on Red Hat Enterprise Linux

Nokia has worked with Intel to create an Intel® Select Solution for NFVI using Red Hat Enterprise Linux for workload-optimized performance from Intel® Xeon® Scalable processors.

Intel and Nokia bring optimized NFVI solutions to market

Communications service providers (CommSPs) are seeking to change the economics and service deployment agility of their networks by embracing network functions virtualization (NFV)-based services. This network revolution provides the agility and flexibility to support new high-bandwidth applications like 5G and new high device-count services such as Internet of Things.

NFV replaces fixed-function appliances with virtual network functions (VNFs) that run on general-purpose Intel® architecture-based servers. With an NFV server in place, a CommSP can remotely turn up or turn down services in a very short time. This approach also brings savings through the general-purpose nature of the server as well as the ability to use the server for multiple services.

Nokia has partnered with Intel to verify its Airframe data center solution as an Intel Select Solution for NFVI. This lets users of the Airframe data center solution benefit from Intel's experience in the NFV market and get workload-optimized performance from the Intel® Xeon® Scalable processors.

Configuration and specification

The Nokia Airframe Data Center Solution is a verified Intel Select System for NFVI server that leverages the following components:

Item	Description
Server Name	Nokia Airframe RM18 1U rackmount server
Processor	2 x Intel® Xeon® Gold 6138 processor
Memory	12 x 32 GB DDR4 2666 Hz
Network Controller	2 x Dual Port 25 GbE Intel® Ethernet Network Adapter XXV710-DA2
Storage (NVMe)	2 x Intel® SSD Data Center P4500 2.0 TB
Storage (SATA)	2 x Intel® SSD Data Center S4600 480 GB
Intel QAT	1 x Intel® QuickAssist Adapter 8960
Operating System	Red Hat Enterprise Linux 7.5
Power Supply	2 x 800 W Titanium
Trusted Platform Module	TPM 2.0

Nokia Airframe data center solution is a flexible NFVI solution that is available in three form factors: standard rackmount server, an Open Compute Project (OCP)-based OpenRack v2, and compact Open edge server. All form factors include the latest generation Intel Xeon Scalable processors, giving the operator freedom to choose and develop network data centers tailored to their particular needs.

Key benefits

Key benefits of investing in an Intel Select Solution for NFVI from Nokia include:

Faster evaluation: Intel Select Solutions for NFVI tight hardware and software specifications eliminate guesswork and speed decision-making. IT managers can focus their search on key value-added elements and select an optimal solution quickly.

Fast and easy deployment: Intel Select Solutions for NFVI feature pre-defined settings and rigorous system-wide tuning for efficient pre-deployment testing. IT staff know what to expect up front, which speeds time to service delivery and increases confidence in solution performance.

Workload-optimized performance: Intel Select Solution for NFVI configurations are designed by Intel and its partners to deliver to a performance threshold for the workload and are built on the latest Intel architecture technology including Intel Xeon Scalable platforms.

Learn more

To find out more about the Nokia AirFrame data center solution, visit <https://networks.nokia.com/solutions/airframe-data-center-solution>

Intel Select Solutions: intel.com/selectsolutions

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