



KEY BENEFITS

- Supports high-speed 400GbE interfaces
- Optimized for the latest x86 architectures
- Linear scalability across virtual CPUs and memory
- High availability and horizontal scale
- Broad hypervisor compatibility
- Certified for leading virtualization platforms, including KVM and VMware ESXi, offering deployment flexibility across private and hybrid cloud environments
- NUMA-aware resource optimization
- Future-proof network virtualization
- Designed for telco-grade reliability, supporting evolving 5G, [6G?] MEC, and cloud-native network functions

ActiveLogic, AppLogic Networks' hyperscale data plane, delivers a complete and high-performance solution suitable for any access and network type, including 5G. In addition to being access agnostic and cloud-ready, ActiveLogic now supports high-speed interfaces up to 400GbE, enabling service providers to meet the growing demands of modern networks. ActiveLogic offers flexible deployment options—whether virtualized or on commercial off-the-shelf (COTS) hardware via AppLogic Networks' iQ platforms. As a core component of the App QoE portfolio, ActiveLogic empowers service providers to accelerate the transition to automation-ready networks and unlock a wide range of automation-driven use cases.






ActiveLogic delivers advanced, machine learning-powered traffic classification, hyperscale performance, and a comprehensive set of carrier-grade features for service providers:

- ML-driven Application Classification
- Dynamic Content Categorization
- Traffic Shaping
- Traffic Filtering
- Advanced Traffic Steering
- Carrier Grade NAT (CGNAT)
- Data Export (Supports CSV, IPFIX, JSON, KAFKA)

Please refer to the ActiveLogic Datasheet for more information.

Figure 1

AppLogic Networks empowers service providers to seamlessly evolve across the cloud journey—from bare metal appliances to virtualized deployments, and ultimately to private and public cloud environments.

Value Delivery	UI, Dashboards & Workflows	VAS / BI Services	Prediction & AI Modeling	Managed Services	Integration & Automation	Adv. Traffic Management	Revenue Assurance
Data Enrichment	Data Orchestration & Export						
	Data Contextualization and Advanced KQIs (incl. QoE Scoring)						
Data Intelligence	Real-time control & data plane analysis	ML/AI driven app identification, classification & categorization			Granular KPI creation	Policy Enforcement	
Deployment Options	Certified Server & Qualified Software Appliances, Virtual, and Cloud						
							

The platform layer of AppLogic Networks' AppQoE Portfolio is built on COTS hardware, virtual machines, and cloud infrastructure. These platforms provide the physical or virtual resources required to deploy and scale AppQoE solutions across diverse use cases and network environments.

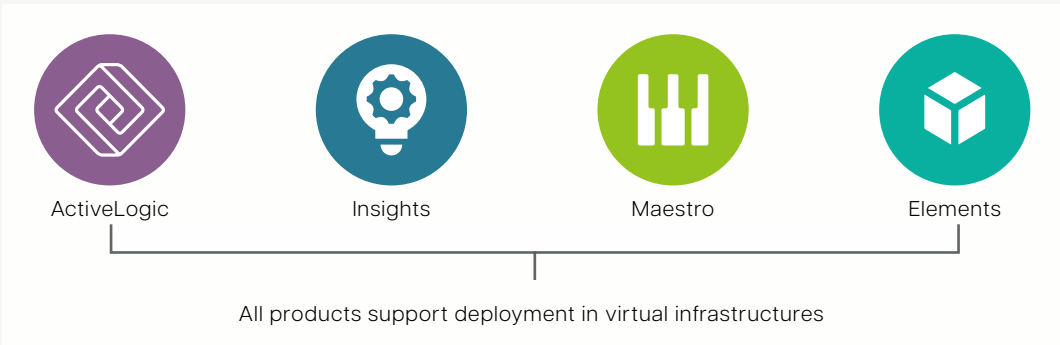
AppLogic Networks offers three primary deployment models to meet operational and procurement preferences:

Arrow	Retail Channels	Virtual & Cloud
Certified Server Appliances	Qualified Software Appliances	Cloud and Virtual Deployments
<ul style="list-style-type: none">Developed in partnership with Arrow Technologies, ensuring pre-tested, turnkey solutions with global delivery.	<ul style="list-style-type: none">Designed for customers utilizing existing hardwareOptimized for seamless integration and maximum performance	<ul style="list-style-type: none">Perfect for dynamic and scalable workloads in public/private cloud or virtualized environments.

All products within the App QoE Portfolio (see Figure 2) can be deployed in virtualized environments.

Figure 2

AppLogic Networks' App QoE Portfolio



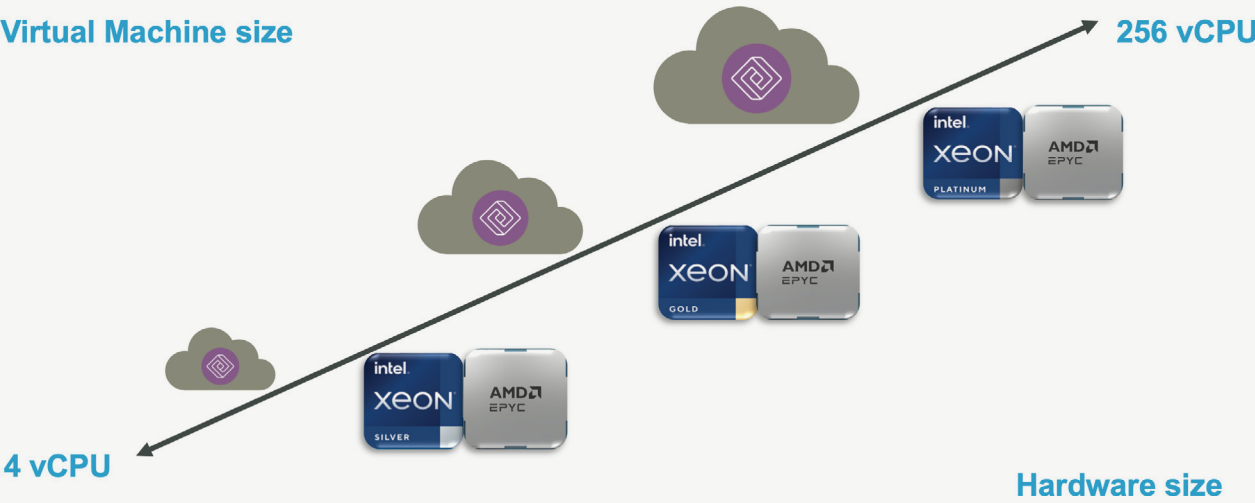
AppLogic Networks' ActiveLogic data plane was purpose-built for virtualized environments, requiring no proprietary hardware and offering native support for the latest x86 CPU architectures. While optimized for modern Intel processor generations, ActiveLogic remains fully backwards compatible.

Designed for scalability, ActiveLogic supports horizontal scaling from extra-small to extra-large configurations, adapting easily to varying performance demands. It is engineered for maximum flexibility, ensuring optimal utilization of COTS hardware and well-dimensioned virtual infrastructures.

Figure 3

AppLogic Networks' virtual scale and dimension

Virtual Machine size



Virtual ActiveLogic Performance

The performance of a Virtual ActiveLogic instance can range from less than 1 Gbps to over 600 Gbps, depending on how the instance is dimensioned. Key factors influencing performance include the underlying COTS hardware, the number of allocated vCPU threads, available physical RAM, and the use of DPDK-supported NICs that have been qualified by AppLogic Networks for high-throughput workloads.

Additionally, the choice and configuration of the hypervisor can also impact overall efficiency. To achieve predictable performance at scale, deployments should follow AppLogic Networks' reference architectures and sizing best practices, ensuring optimal alignment between virtual resource allocation and platform capabilities.

ActiveLogic empowers service providers to seamlessly evolve their cloud strategy—from virtualized environments to private and public cloud deployments.

Ready for the Next Generation of Network Infrastructure

The telecom industry is truly transforming. The demand for data from over-the-top (OTT), video services, cloud gaming, ultra-high-definition (UHD) content, and emerging technologies like AI, AR/VR and IoT is pushing the limits of connectivity, bandwidth requirements and end-user quality of experience.

Whether a network operator is deploying 400GbE, requiring next-gen compute, meeting stringent performance SLAs, or supporting future networks, AppLogic Networks is there to support as a strategic enabler for the modern network.

To learn more or request a demo, [contact us](#).

ABOUT APPLOGIC NETWORKS

AppLogic Networks' cloud-based App QoE portfolio helps customers deliver high quality, optimized experiences to consumers and enterprises. Customers use our solutions to analyze, optimize, and monetize application experiences using contextual machine learning-based insights and real-time actions. Market-leading classification of more than 95% of traffic across mobile and fixed networks by user, application, device, and location creates uniquely rich, real-time data that significantly enhances interactions between users and applications and drives revenues. For more information visit <https://www.applogicnetworks.com> or follow AppLogic Networks on X @AppLogic Networks.



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