DRIVENETS

Build Networks Like Cloud

DriveNets is a rapidly growing software company that created a radical new way to build high-scale networks, similar to the way Hyperscalers have architected the cloud. Using this technology for AI networking, DriveNets now delivers the highest-performance Ethernet fabric for AI back-end and storage networks in the market, improving the performance, efficiency, and cost of AI infrastructures.

DriveNets' solutions - DriveNets Network Cloud and DriveNets Network Cloud-AI - are based on an innovative high-scale networking model - a distributed, disaggregated software solution that runs on standard white boxes. DriveNets Network Cloud is used by leading service providers like AT&T, Comcast, KDDI, and others. Network Cloud-AI, introduced to the market in 2023, provides the highest Ethernet performance for AI infrastructures and is the best Ethernet alternative to InfiniBand. Network Cloud-AI is used by hyperscalers, NeoClouds, and enterprises worldwide.

DriveNets at-a-glance

- **Founded:** 12/2015

- **Headquarters:** Israel (offices worldwide)

- **Mission:** Accelerate networking innovation to empower a future of new connected experiences

- **Vision:** Build the best networking infrastructure for our customers. We maximize the performance of networking services and AI workloads, and simplify network operations to enable innovation and business growth

- **Funding:** Total to date $587 million

Innovative Networking

DriveNets' networking solutions enable service providers, cloud providers, and enterprises to meet growing networking scale and performance demands more efficiently than monolithic routers and more reliably than traditional Clos switches. DriveNets' software runs on standard white box hardware supplied by multiple ODMs, elastically scaling network capacity by adding additional white boxes into physical network clusters. The software-based solution ensures that all these white boxes act as a single network entity or one elastic, lossless network fabric.

For service providers, DriveNets Network Cloud's disaggregated model enables one type of physical infrastructure to support multiple types of networks and services – from core and aggregation to peering and edge use cases. That enables true network and service convergence, substantial operational and supply chain simplification, and cost savings, as well as enhanced automation and security.

For enterprises, NeoClouds (GPUaaS providers), and hyperscalers who are building AI infrastructures, DriveNets Network Cloud-AI offers the highest performance Ethernet at scale, with up to 32K GPUs (800 Gbps) per cluster. Based on a fabric-scheduled Ethernet architecture, Network Cloud-AI provides predictable, lossless back-end cluster connectivity with 10-30% improvement in JCT (Job Completion Time) performance of high-scale AI workloads. It maintains a GPU, ASIC, Optics, and ODM agnostic architecture and supports over 100% return on investment (ROI) on day one.

> *"Expanding the Janus trial across our footprint will transform how we manage the flow of Internet traffic to and from customers to maximize network performance, reliability, and efficiency. Leveraging DriveNets Network Cloud allows us to accelerate product innovation and continue to meet the incredible demand."*
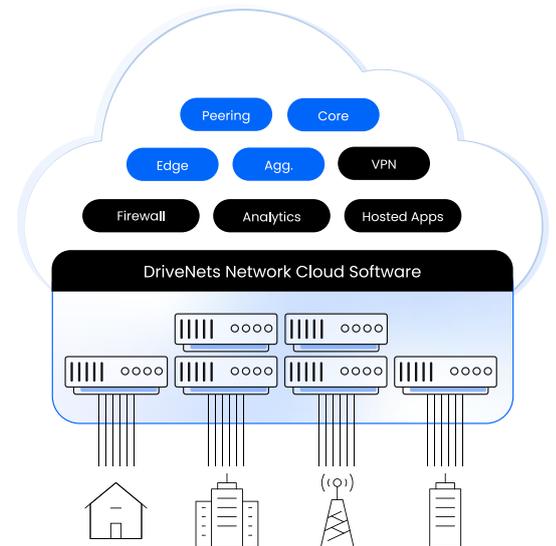>
> Elad Nafshi, Chief Network Officer, Comcast

High-scale routing

DriveNets Network Cloud is a cloud-native software-based networking solution for service and cloud providers. It supports any network use case – from core and aggregation to edge and peering with one software solution based on microservices and containers, and a choice of standard white boxes from multiple ODMs.

- **Fast innovation:** software-based architecture allows for faster feature development and time to market of new use cases

- **Cloud-like operations:** disaggregation of hardware and software enables infrastructure, service, and operational convergence, which drive significant cost reductions, operational simplifications, automation, and enhanced security

- **No vendor lock:** an open ecosystem allows customers to choose the best vendor for their networking ASIC, ODM, software, and optics needs, and reduces cost and time to market

Highest-performance AI networking fabric

DriveNets Network Cloud-AI is a software-based networking infrastructure that provides the highest performance standard-based Ethernet at scale. It is the best Ethernet-based AI/HPC back-end and storage network alternative to InfiniBand on the market today.

- **Proven highest performance Ethernet:** based on predictable and lossless scheduled-fabric technology, delivering the best GPU utilization (tested multiple times head-to-head vs. InfiniBand and Spectrum-X)

- **Native multi-tenancy:** built-in, complete tenant isolation without need for complicated overlay technologies such as EVPN-VXLAN, and proven in cloud deployments.

- **Fastest deployment:** with automated orchestration and zero manual fine-tuning - best performance out-of-the-box.

- **Open, lower cost:** substantially lower TCO than InfiniBand and Spectrum-X with better Job Completion Time, supports any vendor's GPU, optics, and NIC.

- **Multi-site optimized:** unique ability to scale GPU clusters across multiple sites (up to 80km) with no performance degradation

DriveNets Network Cloud-AI