

# InfiniStreamNG Appliance

## InfiniStreamNG Appliance for Intelligent Deep Packet Capture and Analysis

The InfiniStreamNG™ appliance is a real-time information platform that supports next-generation IT initiatives being implemented by enterprises to achieve their digital transformation business objectives. With intelligent, deep-packet capture and analysis, the InfiniStreamNG appliance provides IP intelligence from dedicated, always on, monitoring and continuous capture capabilities for real-time and back-in-time analysis. The appliance is used as the foundation for the nGeniusONE® Service Assurance platform to analyze packets traversing the network for rapid problem isolation and service delivery assurance.

The InfiniStreamNG appliance hosts Adaptive Service Intelligence™ Plus (ASI+) - groundbreaking technology that delivers a high-performance, deep-packet inspection (DPI) engine for analysis of network traffic. It generates highly scalable metadata for comprehensive views of service, network, application, and server performance across complex multi-tier, multi-domain service delivery environments.

## Problems Solved With InfiniStreamNG Appliance

The relentless competition facing enterprises today demands the flawless delivery of more agile and cost-effective digital services. Companies are challenged by new technologies, architectures, demands and security risks. Pressure to digitally transform enterprises cannot ignore the need for a comprehensive and cost-effective business assurance solution. Business assurance combines the disciplines of network and applications service assurance, cybersecurity, and IT operational analytics. Service Assurance is necessary to monitor and manage the delivery of complex digital service. Cybersecurity support is needed to protect the enterprise against both external and internal threats. Business Analytics is required to help enterprises to analyze the usage and performance of all digital services.

The highly scalable, family of InfiniStreamNG appliances with ASI+ ground breaking technology passively and non-intrusively captures network traffic crossing the wire to provide rich and detailed operational understanding of application and network performance. This powerful problem-solving platform manages digital services detected

and, in real time, captures transactions and sessions that make up an application service and simultaneously analyzes Layer 2 through Layer 7 information used by the nGeniusONE platform. The correlated data is used to spot network and application issues, understand the impact of enabling services on applications, distinguish application and network brownouts, identify server issues and security breaches, provide insights for infrastructure optimization and planning, and identify other significant service delivery problems.

Since most networks generate large amounts of traffic, the appliance delivers the performance and scaling capabilities needed to analyze network traffic generated by thousands of users using hundreds of applications.

The family of InfiniStreamNG appliances features multi-CPU, multi-threaded architecture for delivering high performance DPI capabilities; a variety of connectivity configurations to capture data streams generated by large, high capacity networks; substantial storage space to store the performance metrics and packet data for long-term use.

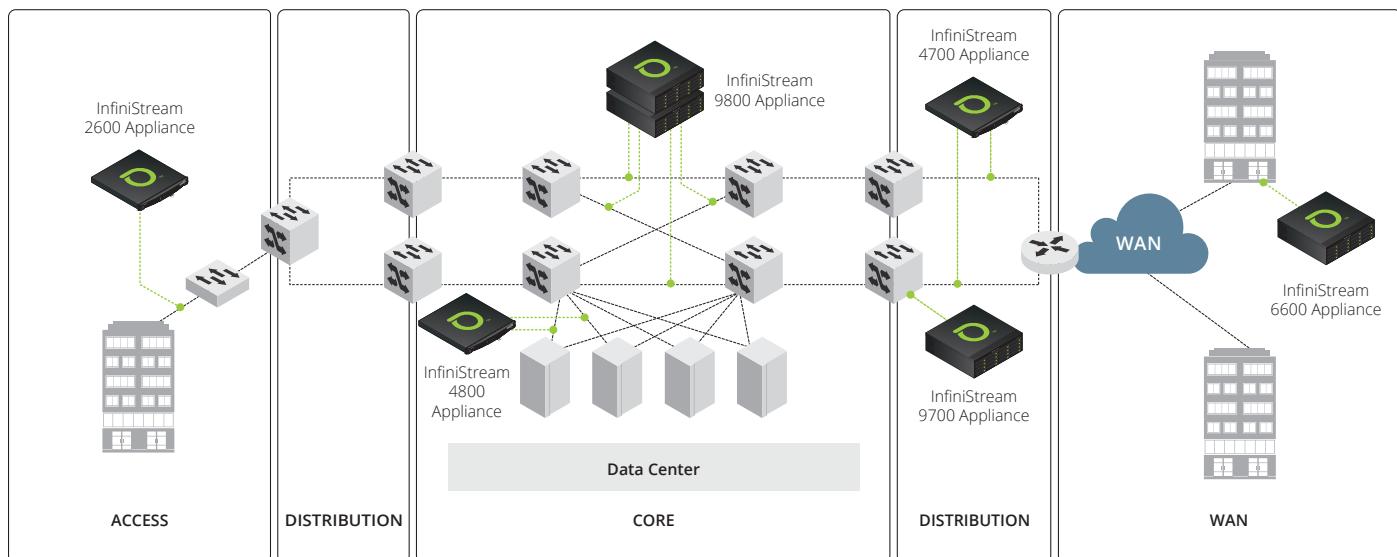


Figure 1: InfiniStreamNG appliances strategically deployed in an enterprise network.

While organizations benefit from end-to-end visibility for the entire enterprise, the challenge is to find a right-sized appliance that meets the needs at a particular location in the network. InfiniStreamNG appliances are available in different capacities and configurations suitable for deploying in multiple topologies to enable pervasive visibility supporting monitoring needs for different size installations from small offices to large enterprise data centers.

To solve scalability and monitoring needs of very large environments, multiple appliances can be deployed to provide virtually unlimited scalability. To reduce management complexity in large networks, all appliances are centrally managed through the nGeniusONE platform.

## InfiniStreamNG Appliance Capabilities

InfiniStreamNG appliance, running on a customized Linux® operating system, is purpose-built for visibility across enterprise networks and provides a foundation for extracting application and network performance metrics for the nGeniusONE platform. With support for 10/100/1000 Mbps, 10GbE, 40GbE and 100GbE interfaces and up to 288TB of disk storage space, this family of appliances provides configuration flexibility and an integrated approach to eliminating performance problems.

The flexible and agile, high-performance appliance dynamically recognizes different digital services, applications and protocols behind each IP session and delivers detailed performance metrics to the nGeniusONE platform.

Some of the unique capabilities of the InfiniStreamNG appliance include:

- High resolution visibility into packet data with deep packet analysis identifies thousands of protocols and applications associated with every network flow
- Generates real-time performance, traffic, and error metrics as well as session event records
- Packet recording capacity ranges from 1TB and up to 288TB
- Interface speeds range from 10 Mbps to 100 Gbps with RJ-45 copper, pluggable fiber/ copper transceiver or 40-Gbps QSFP BiDi support
- Time synchronization based on either IETF NTP or IEEE 1588 (PTP v1/v2) with optional time synchronization adapter to leverage Global Positioning System (GPS) to connect to highly precise time source
- Extensible software architecture enables support for new protocols and analysis metrics through software-based ASI+ analysis and service monitors
- Appliances with different levels of storage protection, up to RAID 6, and power supply redundancy
- Intelligent packet recording with granular selection of protocols and packet recording slice size
- Highly secured platform built on a customized and hardened Linux operating system
- Advanced security protection with data encryption options
- Role-based access security for controlling access to sensitive data
- Certified for international Common Criteria EAL3+ and U.S. NIAP CCEVS

All InfiniStreamNG appliances share a common foundation of proven technology including scalability, speed, agility continuous packet-flow data capture, simultaneous deep packet inspection and analysis, metadata creation and storage to disk.

The family consists of 1900 series, 2600 series, 4700 series, 4800 series, 6600 series, 6700 series, 9700 series and 9800 series to achieve enterprise deployment flexibility covering data centers, headquarters, branch offices and small sites.

## Benefits of InfiniStreamNG Appliance

- Single appliance used with the nGeniusONE platform for network and applications service assurance, unified communications service assurance, cybersecurity, and IT operational analytics
- Passive and non-intrusive appliance does not impact production networks
- Enables a common architecture that eliminates middleware
- Provides pervasive visibility and a future-proof architecture
- Powerful ASI+ technology for high-performance, deep packet inspection and analysis
- Plug and play deployment recognizes digital services including over thousands of common protocols and applications
- Implementation agnostic, suitable for any environment, service provider, enterprise, cloud, hybrid, etc. Scalable architecture enables enterprises to scale for any size deployment

	2600 Series	4700 Series	4800 Series	6600 Series	9700 Series	9800 Series
Rack Unit	1RU	1RU	1RU	3RU	3RU	3RU
Port Configuration	4 x 1/10 GbE SFP+	4 x 1/10 GbE SFP+	4 x 1/10 GbE SFP+	4 x 1/10 GbE SFP+	4 x 1/10 GbE SFP+	4 x 1/10 GbE SFP+ 2 x 40 GbE QSFP+ 2 x 100 GbE CFP4
Storage	16TB	24TB (expandable to 88TB)	32TB (expandable to 128TB)	48TB	64TB (expandable to 192TB)	96TB (expandable to 288TB)



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