NETSCOUT®

InfiniStreamNG Appliance

InfiniStreamNG Appliance for Service Assurance, Cybersecurity, and Business Intelligence Applications

The InfiniStreamNG™ (ISNG) appliance with NETSCOUT's® patented Adaptive Service Intelligence™ (ASI) technology efficiently converts packet data in real time into the "smart data" required for contextual views into today's complex networks, applications, and business services.

Highly scalable ISNG software and hardware appliances mine network traffic in real time to deliver timely, accurate, and actionable operational insights into data center, cloud, and hybrid infrastructure environments.

With ASI also serving as a common data source for NETSCOUT's vSTREAM™ family of appliances for cloud and virtual environments, ISNG software and hardware appliances can be deployed in tandem with vSTREAM virtual appliances to provide smart data to fuel the smarter analytics generated by the NETSCOUT nGeniusONE® Service Assurance platform.

Problems Solved by ISNG Technology

Organizations embracing digital transformation face network and application visibility challenges, regardless of the next-generation platforms involved in such transitions. Equally significant, today's underlying network designs are changing. With these "flat" designs, there is more east–west traffic to monitor in order to address server-to-server performance challenges, adding to the traditional north–south traffic traversing in and out of data center environments. In addressing these new challenges, NETSCOUT offers ISNG software and appliance options designed for deployment in any environment, ranging from the network edge, small remote facilities, satellite offices, and disaster recovery locations, onto the data center core.

Only NETSCOUT offers ISNG technology, a powerful "anyware" architecture that elegantly and seamlessly integrates the advanced and extended version of core ASI technology to support wired or wireless, physical systems,

virtual systems, and commercial-off-the-shelf implementations, as well as private, public and hybrid cloud deployments.

All ASI-based data sources are integrated with the nGeniusONE platform to provide a common set of metadata analytics for NETSCOUT real-time monitoring, historical analysis, and single-pane views into the entire network. NETSCOUT smart data provides continuous, uniform visibility and automates the precise identification of risk and performance status across all connected services and their interactions – from the network edge and across all services – allowing Information technology (IT) and network teams to deliver superior user experience. The correlated data is used for IP intelligence to spot network and application issues, understand the impact of enabling services on applications, distinguish application and network issues, identify server issues and security breaches, offer insights for infrastructure optimization and planning, and pinpoint other significant service delivery anomalies.
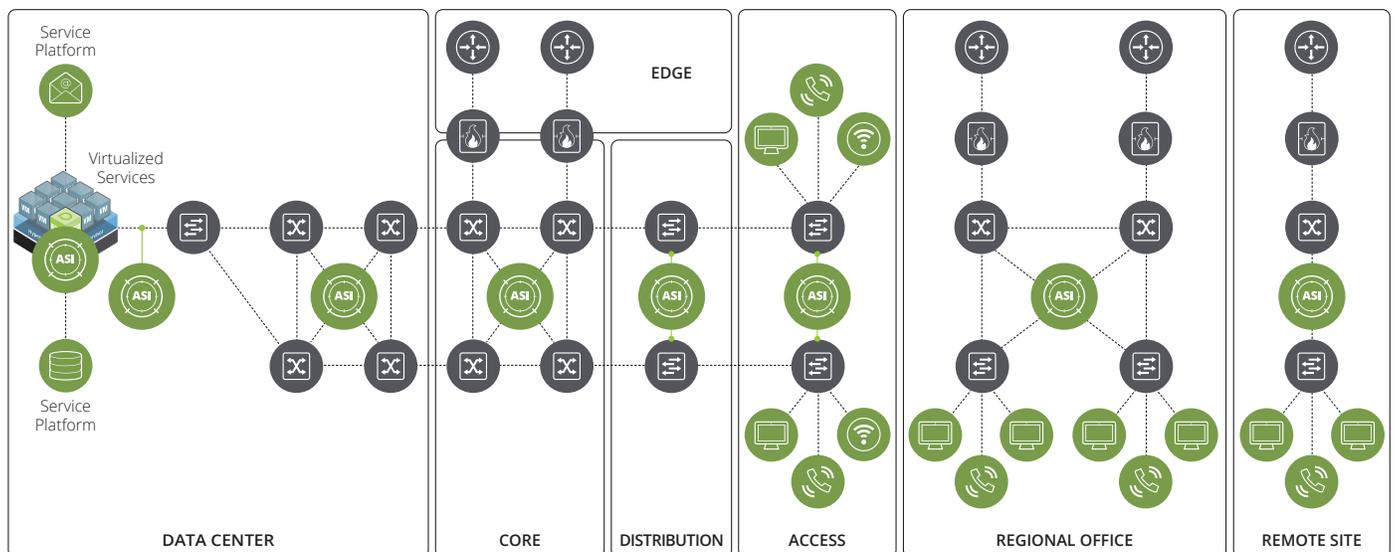

Figure 1: ISNG software and hardware appliance options provide the greatest flexibility for strategic deployment throughout enterprise, government, and commercial networks.

ISNG Appliance Deployment Options

NETSCOUT provides organizations with the flexibility to deploy ISNG software and hardware appliances in the manner best-suited to their infrastructure and visibility requirements.

NETSCOUT's purpose-built ISNG hardware appliances offer optimized, hardware-accelerated, "tuned" configurations, bringing deployment, administration, and maintenance efficiencies to IT teams. Our next-generation ISNG appliances offer advances in memory and storage capacity. Additionally, since processing and capacity needs differ, several ISNG hardware appliance models can be expanded with Extended Storage Units (ESUs).

The NETSCOUT Certified InfiniStreamNG Software Appliance approach factors deployment of a customer-provided hardware platform certified to support NETSCOUT ISNG software. With this cost-effective approach, the NETSCOUT-certified software kit (comprised of ISNG ASI software and an ASI Accelerator NIC) is purchased from NETSCOUT. With guidance from NETSCOUT, customers independently order Certified InfiniStreamNG Server hardware from a NETSCOUT Certified Supplier.

Similar to the NETSCOUT ISNG hardware appliance approach, several NETSCOUT Certified ISNG models offer additional support for configuration of an optional ESU.

This NETSCOUT Certified InfiniStream NG Software Appliance approach offers 100% performance parity with ISNG hardware appliances.

The NETSCOUT Qualified InfiniStreamNG Software Appliance option is distinctly suited for organizations that have standardized on Dell or Hewlett Packard Enterprise (HPE) platforms in their data centers. NETSCOUT Qualified ISNG Software Appliances support 10 and 40 Gigabit network environments. All NETSCOUT Qualified ISNG models offer additional support for configuration of an optional ESU.

With this approach, NETSCOUT ISNG software runs on a recommended, "off-the-shelf" Dell or HPE server configuration tested and qualified for use with NETSCOUT's software. The ISNG ASI software and an ASI Accelerator NIC is purchased from and supported by NETSCOUT, with hardware support purchased separately from either Dell or HPE.

In solving scalability and monitoring needs of very large environments, multiple ISNG software and hardware 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.

Benefits of ISNG Software and Hardware Appliances

- Industry's most scalable, lightweight distributed architecture for collecting data at the source in real time
- Provides high-resolution visibility into packet data, automatically identifying thousands of protocols and applications
- Passive and non-intrusive appliance does not impact production networks
- Implementation agnostic, suitable for any environment, including enterprise, commercial, government, cloud, hybrid, etc.
- Singular ASI-based data source eases ISNG software and hardware appliance deployment alongside vSTREAM virtual appliance for extended visibility into cloud and virtual environments, with ASI also converting NetFlow into NETSCOUT Smart Data
- Generates smart data needed for successful digital transformation initiatives, including hybrid cloud, Unified Communications & Collaboration (UC&C), wired/wireless/virtual networks, and digital application roll-outs, as well as workload migration efforts

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