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, or 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 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, versus traditional north–south traffic traversing in and out of the data center environment. In addressing these new challenges, NETSCOUT now offers ISNG software and appliance options designed for deployment in any environment, ranging from the network edge, small remote facilities, satellite offices, disaster recovery locations, to the data center core.

Only NETSCOUT offers ISNG technology, a powerful “anyware” architecture that elegantly and seamlessly integrates ASI-based data sources 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 IT and network teams to deliver the most 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 identify other significant service.

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 the infrastructure and visibility requirements.

Purpose-built ISNG hardware appliances offer optimized, hardware-accelerated, “tuned” configurations, bringing deployment, administration, and maintenance efficiencies to information technology (IT) teams.

The certified ISNG 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, and a hardware appliance is purchased from NETSCOUT Contract Manufacturing.

This certified ISNG software appliance approach offers 100% performance parity with ISNG hardware appliances. The qualified ISNG software appliance option accommodates organizations that have standardized on Dell or HPE platforms in their data centers, with ISNG software running on an “off-the-shelf” server tested and qualified for use with NETSCOUT’s software. With this option, the ISNG ASI software and an ASI Accelerator NIC is purchased from and supported by NETSCOUT, with hardware support purchased separately from the third-party hardware vendor.

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 the ISNG Appliance

- 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 supporting NetFlow
- Singular data source for digital transformation initiatives, including hybrid cloud, Unified Communications & Collaboration (UC&C), wired/wireless/virtual networks, and digital application roll-outs

### ISNG Appliance Deployment Options

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<thead>
<tr>
<th>1400 Series</th>
<th>2400 Series</th>
<th>2600 Series</th>
<th>4700 Series</th>
<th>4800 Series</th>
<th>6600 Series</th>
<th>9700 Series</th>
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<tr>
<td>Rack Unit</td>
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<td>3 RU</td>
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<td>4x1 GbE SFP</td>
<td>4 x 1/10 GbE SFP+</td>
<td>4 x 1/10 GbE SFP+</td>
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<td>2 x 100 GbE CFP4</td>
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<td>16 TB</td>
<td>16 TB</td>
<td>24 TB</td>
<td>32 TB (expandable to 128 TB)</td>
<td>48 TB</td>
<td>64 TB (expandable to 192 TB)</td>
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Table 1: ISNG Hardware Appliance Specifications.