

Value-Added Functions

- Timestamping
- Packet Slicing
- Deduplication
- L2 Header Stripping
- L3 Tunnel Stripping
- NetFlow Export
- GTP Filtering & Correlation

Key Product Highlights

- Small form factor (1U height). 2 platforms fit side-by-side in standard 19-inch rack
- 4 x 10G SFP+ and 1 x 40G QSFP interfaces
- x86 COM Express module with 32GB DRAM
- 1 terabyte of persistent SSD storage
- Multiple ATLAS appliances may be cabled together for service chaining
- Redundant Power Supply (Optional)



ATLAS-1100 Service Node (ASN)

Advanced Flow and Packet Handling for Network Monitoring Tools

The Accolade ATLAS-1100 Service Node or ASN performs advanced flow management and packet handling functions at 40Gbps for Network Monitoring and Security Tools. Designed to maximize tool performance, the ASN is configurable via a user interface to perform value-added functions including deduplication, flow shunting, header stripping and packet slicing. It is deployed in two different configurations: 1) In **augmentation** configuration (Figure 1) it serves as an adjunct to a packet broker with traffic fed from a packet broker and then sent back (U-turn) after the selected function is performed. With the increased use of commodity

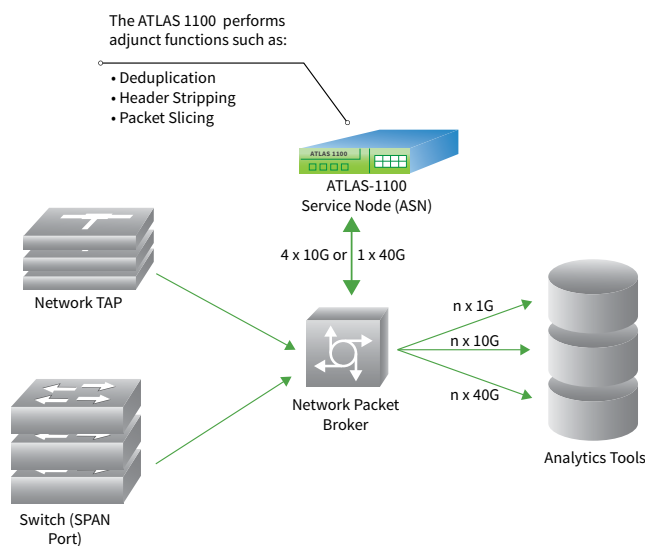


Figure 1: ATLAS-1100 Service Node (ASN) augmentation configuration

Ethernet switches or lower cost packet brokers in networks, the ASN centralizes advanced packet processing functions such as deduplication, header stripping and packet slicing resulting in significant cost savings. 2) With **inline** configuration (Figure 2) the ASN sits in the traffic path and performs functions as traffic is flowing through the network. In this configuration security functions based on deep packet inspection (DPI) are performed “on-the-fly” to prevent unwanted traffic from entering an enterprise environment. In another option traffic enters the ASN via the 40G interface and after DPI or other processing it “fans-out” via the four separate 10G interfaces.

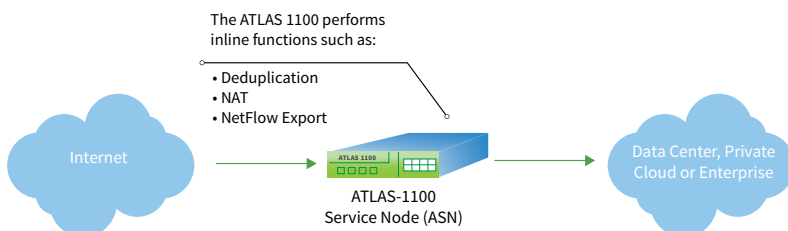


Figure 2: ATLAS-1100 Service Node (ASN) inline configuration

Value-Added Functions

The table below details all of the value-added functions supported by the ASN.

VALUE-ADDED FUNCTION	DESCRIPTION
Timestamping	Apply a nanosecond precision timestamp to each processed packet
Deduplication	Removal of duplicate packets with a programmable deduplication window ranging from 1 millisecond to 250 milliseconds (mS)
Packet Slicing	Slice a packet to include only the desired number of bytes or information including programmable number of bytes offset
NetFlow Export	Convert metadata and flow records into standard Netflow formats such as NetFlow v5, v9 and IPFIX.
Deep Packet Inspection	DPI inspects each flow to identify protocols and applications
Flow Shunting	A host application, based on the results of DPI, can make the decision to shunt (block) away certain IP flows via an API call
Flow Mapping	A host application, based on the results of DPI, can direct traffic flows (by adding VLAN tags) to specific analytics tools
L2/L3 Header Stripping	L2 (VLAN, MPLS, VNTAG, FabricPath) and L3 (IPinIP, GRE, GTP-U, VXLAN) stripping
Packet Masking	Overwrite personally identifiable information (PII) such as credit card numbers, passwords and the like
GTP Filtering	Filter GTP packets by message type (e.g. mobility management, tunnel management, etc.)
GTP Correlation	Monitor traffic in a GTP tunnel while matching and correlating all identified subscriber control and data sessions

Specifications

Hardware

- Interface: 4 x 10G (SFP+) and 1 x 40G (QSFP+)
- 10G Uplink Port (SFP+)
- Scalable Type 6 COM Express Module (i3 to i7)
- Timing: 1 PPS IN/OUT
- Front-to-back cooling (3 smart fans)
- M2-SSD Storage (1 Terabyte)

Power

- Max Power Consumption: 65 watts
- AC option: 100-240VAC - 47/63Hz - 2.5A
- DC option: 48VDC@2.8A

Dimensions

- 1.75 (H) x 12.28 (W) x 14 (D) inches
- 4.45 (H) x 20.96 (W) x 35.56 (D) centimeters

Environmental

- Operating Temperature: 0° to 50°C (32° to 122°F)
- Operating Humidity: 0 to 95%, non-condensing

Product Safety

- UL60950-1 (USA/Canada)
- EN60950-1 (EU)



Compliance

- FCC 47 CFR Part 15 Class A (USA)
- EN55022:2006/A1:2007 Class A ITE (EU)
- EN61000-3-2, EN61000-3 (EU)
- EN55024 (EU)