



# SINGLEstream™ 1404

## 10G Aggregating Network Tap with Load Balancing and Packet Filtering

### Flexible, Any-to-Any Line-Rate Hardware Based Load Balancing and Packet Filtering for Cost Effective Data Capture and Monitoring Applications

#### Passive Tapping

These network taps are ideal for security applications, network monitoring and anywhere you need to see all the data that only an In-Line solution can provide. Invisible to the network, completely passive and fault-tolerant, fiber taps will not affect network performance or integrity.

A copy of traffic from the network links are passively copied for monitoring. In the rare event of power loss, traffic is completely unaffected on connected network devices.

#### Load Balancing

Balance traffic across multiple ports to allow growth as the volume of data increases. Load balancing helps prevent loss of data by enabling deployment of redundant security tools that can back each other up, in the event of failure or during while their software updates.

As links get faster, you need to be able to distribute traffic across lower speed analysis tools. Load balancing allows you to extend the life of existing lower speed devices as your network traffic increases.

#### Data Filtering

Instead of tools attempting to keep up with high-speed aggregates traffic streams, the *SINGLEstream* can apply packet filters to the data to increase tool efficiency and eliminate port oversubscription.

Line-rate hardware filtering on each port allows you to customize and streamline the amount and type of data each connected monitoring tool receives. Because they are receiving only traffic of interest, tools run faster, data is more manageable, and issues are resolved quicker.

#### Aggregation (Many-to-Any)

Many-to-Any monitoring access aggregates network traffic and provides visibility for one or more monitoring tools. Aggregate and reassemble full duplex conversations from one or more trunked links.

Perfect for tools that don't support multiple monitoring interfaces or for redundant networks, EtherChannel, load balanced servers, and asymmetrically routed traffic.

#### Regeneration (Any-to-Many)

Any-to-Many configurations replicate copies of identical network traffic to provide multiple tools with monitoring access to the same links.

In addition to eliminating contention for scarce SPAN ports and test access points, multiple tools can be connected to the same link for redundancy, testing, or advanced monitoring applications.

### Highlights

- Consolidate monitoring tools to reduce management expenses and lower tool costs
- Single point of deployment and remote management minimizes management expenses and reduces MTTR
- Monitor 10G links with 1G tools for increased ROI and more efficient use of monitoring resources
- Easily share scarce SPAN ports and test access points without maintenance windows
- Receives traffic from external taps or SPAN ports to allow you to deploy tools right away without impacting your production network, which simplifies the change control process.

### Features

- Load Balancing - Balance sessions across multiple outputs for monitoring redundancy
- 160 Gbps backplane
- All ports active with full features- no per port licensing. Input from passive TAPs or SPANs.
- Filtering - Line-rate hardware-based filtering can eliminate port oversubscription.
- Filter on IPv4 Src/Dst Address, MAC Address, Protocol, Port, Ethertypes i.e. MPLS, VLAN, IPv6 Src/Dst Address
- Aggregation/Regeneration - Combine multiple network links or channels into one stream or send copies to multiple connected tools to share data sources
- Media Conversion - Leverage existing monitoring tools regardless of media type
- Manage device remotely or locally with Web-based management (HTTPs) or extensive CLI (telnet/SSH)
- SNMP v2c, v3c
- RADIUS, TACACS+
- Traffic rate monitoring

