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CORPORATE OVERVIEW ABOUT AXELLIO

Axellio Inc. is a leading innovator in high-performance network packet capture, storage, and analysis solutions. Axellio was spunout in 2018 from an earlier company with a twenty-year legacy of innovation in enterprise IT high-performance storage solutions for commercial enterprise as well as aerospace and defense agencies.

AXELLIO SUMMARY

Founded: 2018

HQ:

Colorado Springs, Colorado, USA

Background:

20 years' experience in high-performance enterprise storage solutions

Target Market:

Network & Security Operations in commercial enterprise, defense, and intelligence

Offering:

- PacketXpress[™] High-speed collection, recording, and analysis platform
- FabricXpressTM
 High-performance,
 high-density compute
 and storage platform

INNOVATION FOR NETWORK & SECURITY OPERATIONS

With its vast experience in high-performance storage, Axellio developed a unique solution for the most challenging problem in network and security operations: how to capture packets both economically and reliably for detailed analysis while providing efficient access to the data.

IT management has always valued full packet data, but the cost and complexity of capturing, storing, and using this data has been prohibitive for most organizations. Until now, systems were also not able to keep up with increasing network speeds and traffic volumes without packet loss that rendered the data less useful. So, organizations resorted to using statistical information such as NetFlow, events, or aggregated data to assure security, services, and application delivery, which was less expensive for event detection, performance analysis, and planning, but is limited by an incomplete view. Capturing and storing the full packets without loss provides the detail required to detect security vulnerabilities, identify root cause, and validate mitigation attempts.

Axellio addresses the pressing issues of Network and Cybersecurity Operations today, including:

- Ensuring reliable packet capture across today's highspeed networks
- Supplying enough storage for days or weeks of data while having immediate and efficient access to data
- Shielding the existing monitoring and analysis environment from traffic spikes and overload while extending its useful life and ensuring accurate results
- Providing a high-performance, high-density compute and storage platform for any application

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CORPORATE OVERVIEW ABOUT AXELLIO

Axellio, through its Xpress Fabric interconnect — a mix of unique architecture and core-software — created a high-speed platform uniquely qualified to address those needs:



- Network
 - Reliable, sustained 100 Gbps capture and recording without packet-loss.
 - Instantaneous distribution of the recorded traffic to third-party onboard or offboard monitoring and analysis applications. Distribution speeds at up to 100 Gbps and traffic content can be adjusted to avoid application overload.
- **Storage** for back-in-time pre- and post-event analysis with up to 725 Terabyte onboard storage and ability to archive to the cloud or on premises solutions.
- **On-board analysis** for any of your analysis applications, making the most of the high-speed onboard processing and storage capabilities.

This is made possible through its unique architecture and software design which is , optimized for high performance computing, based on standard off-the-shelf components:

- Storage Up to 48, high-speed solid-state-disk drives, dual ported with PCIe direct-connect.
- **Processing** Up to 4 Intel Xeon Cascade Lake processors, with a total of 224 virtual cores providing high-speed interconnect and memory bandwidth with 48 PCIe lanes per CPU.
- Networking 100 Gbps SmartNIC Hardware and FPGA software purposely designed for packet capture via inline, tap, or span Ethernet ports.
- **Xpress Fabric** a switched PCIe fabric with 160 dynamically configurable PCIe lanes, allowing for 240 Gigabytes per second or 1920 Gigabits per second of total throughput.

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CORPORATE OVERVIEW ABOUT AXELLIO

APPLICATIONS

This architecture has been applied to two primary applications:

- **FabricXpress™** High-performance, high-density compute and storage platform for any application, used in applications such as high-availability storage, high-speed streaming and analytics, as well as financial trading applications.
- PacketXpress[™] High-speed collection, recording, and analysis platform for Network and Security Operations' monitoring and analysis applications

Both applications are made available on the ARX platform, a 3U high, 30-inch deep for Industry Standard Rack mounting.

Designed to support your specific applications you rely on in Network and Security Operations, our solutions are 100% vendor-agnostic so you can continue using the tools that you are already familiar with:





