

# Put Your Network into High Gear Using the Axellio XpressWay

Many organizations consider monitoring to be complex and expensive. Some reasons for this include: the speed of the data can be too fast, the volume of the data can be too much, the person who created and understood the data analysis plan has left the organization, or the plan was never really understood due to the complex nature of data these days, especially time series data.

In addition, after you capture the data, something then has to be done with that data, or all of your effort was wasted. But what do you do with that data and how do you turn it into information? These questions are why the software-based Axellio Xpress Platform™, and its solutions PacketXpress® and SensorXpress™, were created.

The Axellio Xpress Platform addresses these issues and enables you to:

- Improve data visibility and access across your enterprise or service provider network
- Utilize a unique architecture that delivers industrial grade solutions while being scalable up and down the data rate highway from 1 to over 200 Gbps
- Deploy extensive flexibility that empowers you to manage data distribution to reduce total cost of ownership (TCO) and improve data control
- Capitalize on DVR-like capabilities that allow you to play, and replay, specific data you want to see

Looking at the first bullet in more detail, the Xpress Platform is data source agnostic. This means you can use the platform and specific features to capture packets, radio frequency data, video, voice, or log files. Since the Xpress Platform is robust and software-based, it can be used on industry standard Linux servers to capture and distribute data in physical, virtual, and cloud networks for enterprise and service providers.

A second benefit of the Xpress Platform is that the architecture allows you to simultaneously read, write and store data at high speeds up to 200 Gbps in a single instance (1U), or higher data networks if networked. Per instance storage is up to 1.2 Petabytes with compression. If higher data rates or capacity is needed, the solution can be rack and stacked to scale upwards. All of this capacity comes with no data loss.

After you have captured the right types and amount of data, another fundamental challenge is to process and refine that data. Your security and monitoring tools don't need to see every piece of data on the network, just

the relevant pieces. Depending on where the data came from, you often have some, if not a significant amount of, duplicate data. Built-in de-duplication and data filtering tools allow you to optimize the data.

Load balancing capabilities, along with the simultaneous distribution to multiple tools, further enables you to optimize the output to your tools. This commonly results in the reduction of the amount of tools you need, creating significant cost savings and lowering your TCO. The load balancing feature creates n+1 survivability by allowing data to rebalance across a remaining set of tools should one or more of those tools fail out of service.

Buffering capabilities within the Xpress Platform and its solutions allow you to control traffic rates to all analysis applications and still see all of the data you need to, especially when it comes to security risks. Another benefit of buffering is that you can potentially reduce analysis tool licensing costs. You now don't have to license to the peak data rate, you can license to a lower rate and use the buffering capability from Axellio to efficiently manage traffic growth to further lower your TCO.

Lastly, get immediate access to any pre- and post-event packet data with the built-in DVR capability to increase your monitoring and security analysis accuracy. The DVR capability allows you to look at a subset of just the data want, and not the whole stream. In addition, data ingestion has been decoupled from the distribution function which allows for the distribution of data to multiple tools at the same, or different, times. Multiple simultaneous input and output streams are supported. The high-capacity data storage allows you to store all of the pre-event, event, and post-event data that you need to accurately find hidden security threats. The play and replay capability allow you to zero in on indicators of compromise (IoC) as part of your forensic investigation. In addition, you can test security fixes in your lab against configurations to verify security fix efficacy before deploying the solution in a live network.

## Overcoming Architectural Issues with Network Visibility

The Xpress Platform is software-based and scales from heavy user enterprise networks to industrial-grade service provider networks to military-grade networks. The platform includes all of the core data management features that you would expect so that data can be properly managed. This includes data deduplication, data filtering, data buffering, and load balancing.

Contact Axellio and we can show you how to create unparalleled network visibility and optimize your security and monitoring solutions.

Learn more at: [www.axellio.com](http://www.axellio.com)

Axellio delivers scalable, simultaneous, always-on recording and distribution at over 200 Gbps with no data loss.

For more information, contact us at: [www.axellio.com/contact-us/](http://www.axellio.com/contact-us/)