Ultimate Security for the Secure

Extreme Networks supports Anapaya's mission in building the SCiON-based Internet for the Swiss finance industry and has created the first SCiON-enabled switches for the Swiss finance industry.

SCiON combines the security and reliability of private networks with the flexibility of the internet. It is an international ecosystem of telecom, network, co-location, and cloud service providers that collaborate to create a new B2B-oriented internet. A SCiON-based network connects users, partners, and customers to their apps and resources in a more efficient, controllable, and secure way.

The Extreme Networks Solution

- Extreme Networks offers its advanced, easy-to-deploy and highly secure hardware switches as SCiON gateways for Secure Swiss Finance Network (SSFN) participants and enables them to access the network without the inconvenience of complex server-based implementation.
- Includes Extreme's Integrated Application Hosting to meet network edge computing requirements
- Enables seamless Ethernet Fabric integration through end-to-end automation

Highlights

Anapaya

- Anapaya Systems AG is a Swiss company whose goal is to build an international ecosystem providing SCiON-based services for a more reliable, secure, and stable networking experience.

SCiON

- Control over the routes thedata travels.
- Any-to-any architecture
- Immunity to routing and protection from DDoS attacks
- Requirement-based path selection and optimization based on policies, performance, cost, and quality
- Rapid failover to guarantee business continuity

Benefits

- Keeps data within defined jurisdictions.
- Retains data sovereignty
- Complies with legal regulations regarding data transfer across international borders
- Establishes trusted paths between global data centres
- Uses multiple paths for improved business continuity
- Improves communication within connected ecosystems

The Business Challenge

Data is one of the most important resources used, yet so many enterprises have little to no control over where it goes and who has access to it. Once data is sent from one location to another, it can be routed through paths that are inefficient at best and insecure at worst.

Today, data is more vulnerable than ever before, and with DDoS and routing attacks growing in number every day, it's no longer acceptable to leave data uncontrolled and unprotected.

However, the real danger is when sensitive data is transmitted. Business-to-business exchanges are highly vulnerable due to the volume of data shared, its sensitivity, and the impact a leak could have on the business.

For this reason, banking, healthcare and other critical industries need to find a better way to connect and handle their data. There are a few solutions that organizations, which deal with sensitive data on a regular basis, can consider.

The most crucial aspect to evaluate is how solutions make forwarding decisions, i.e., how they are programmed to forward data. Generally, routers attempt to transmit data along the shortest or cheapest path. Several technologies determine these paths called routing protocols.

Routing protocols have advantages and disadvantages based on various purposes and environments such as the internet, private wide area networks (WANs), and local area networks (LANs). There are two established protocols — namely BGP and MPLS — that have severe, negative issues. These issues are addressed by a new protocol, SCiON.

Anapaya Ensures Real Control Over How Data Travels

Spun off from a 10-year research project at ETH Zurich, Anapaya developed SCiON, the technology that powers the Secure Swiss Finance Network (SSFN). Anapaya has brought it to the market through its own global network and partnering service providers.

SCiON is a secure Internet architecture with high security and scalability. It has overcome the limitations of the current BGP-based Internet by providing full control, security, availability, and performance.

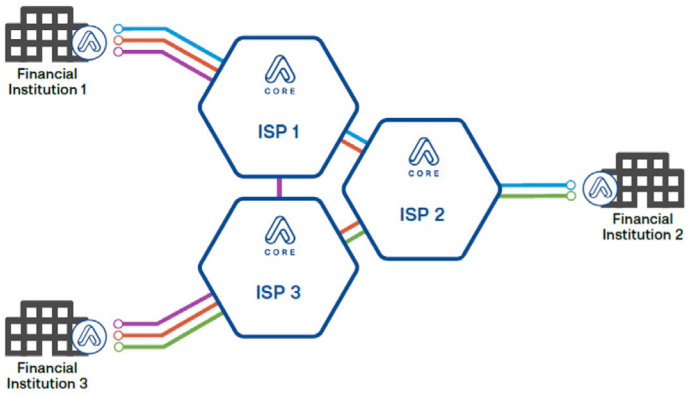
Today, SCiON is the most secure and reliable open inter-domain routing protocol used to provide data control to data emitters. By its very nature, SCiON offers three unique properties critical for business communication: flexibility, security and reliability.

SCiON works by Isolating traffic in so called Isolation Domains (ISDs). These combine the advantages of private and public networks and present an innovative breakthrough for businesses and their IT infrastructure. It offers a decentralized any-to-any architecture, extreme reliability, protection against network-level threats, and clearly defined governance and trust anchors.

What is the SCiON-Internet?

The SCiON-Internet is an international ecosystem of internet, telecom and cloud service providers that collaborate to create a new B2B-oriented internet. It enables businesses to connect their users, partners and customers to their applications and resources, wherever they are hosted (data center or cloud) in a path-aware, more available, performant and secure way.

By accessing and using the SCiON-Internet organizations increase their business continuity, and global performance. They can reliably access and use the network with virtually no risk of noticeable connection drops or security threats.



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To benefit from the SCiON-Internet's properties, end-customers install Anapaya EDGE – powered by the Extreme Networks Solution - on their premises to connect to the nearest SCiON-connectivity provider.

Anapaya EDGE: The Gateway to the SCiON-Internet

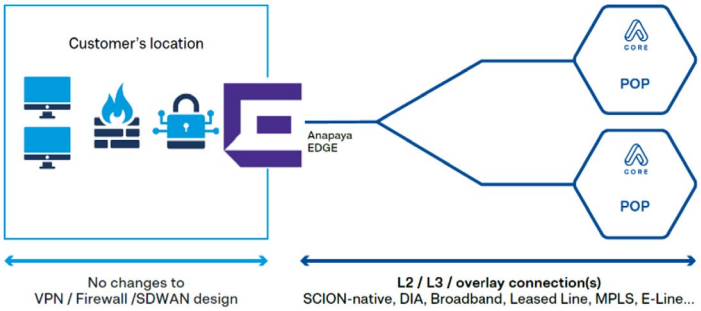
Anapaya EDGE is the gateway to the SCiON-Internet. It gives businesses the ability to connect their users, partners and customers to their apps and resources in a more available, efficient, and secure way than previously imaginable.

Available as a virtual or physical appliance and designed to be easy to integrate with existing infrastructure, Anapaya EDGE allows organisations to select the most appropriate paths across the SCiON network, depending on their business policies.

Extreme Networks Solution Approach

The Extreme Networks SCiON EDGE solution is provided on an easy fixed form factor switch implementation. Customers can run the solution on hardware switches without the hassle of a complex server-based implementation.

SCiON software securely runs in the Extreme Integrated Application Hosting technology.



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Extreme's Integrated Application Hosting leverages an innovative combination of operating software and hardware features to provide extended services – such as SCiON - without impacting switching or network performance.

This flexible and open solution enables organizations to run a Guest VM on the system. Organizations can then use the Guest VM to deploy their choice of Extreme-provided or third-party applications or tools for real-time visibility, or to meet specific business or operational needs across the network.

Extreme networks

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