

SCION-Fabric and Anapaya software

What is SCION?

SCION is the most secure and reliable open inter-domain routing protocol designed from inception to provide control to the senders of information. By its very nature, SCION offers three unique properties critical for business communication in the form of control, reliability and security.

SCION is control

SCION is designed to provide path-control, failure isolation, and explicit trust information for end-to-end communication.

It offers end-users strong control over their traffic, providing meaningful and enforceable trust, and enabling high path-awareness.



Policy-based path selection

Select how your information is transmitted based on policies you select. They optimise for location, speed, cost, and quality.



Geo-fencing

Set-up pathing rules to avoid certain jurisdictions or regions to boost security and reliability.

SCION is reliability

The SCION protocol enables multi-path communication, which is essential for high availability, rapid failover in case of network failures, reserved global bandwidth, dynamic traffic optimisation, and resilience to attacks.



Multi pathing

The SCION protocol gives you all the pathing options available and there is always a networking solution, and never down-time.



Fast fail-over

With access to multiple paths, the SCION protocol enables users to switch paths in sub-seconds in the case of a pathing failure.

SCION is security

The SCION architecture provides strong resilience and security properties as an intrinsic consequence of its design preventing many attacks by design.



Routing attack immunity

Select how your information is transmitted based on policies you select. They optimise for location, speed, cost and quality.



DDoS protection

By its very nature, SCION is immune to a large array of routing attacks (e.g. prefix hijacking).

What is the SCION-Fabric?

The **SCION-Fabric is an international ecosystem** of internet, telecom and cloud service providers that collaborate to create a **new B2B-oriented internet**, enabling businesses to connect their users, partners and customers to their applications and resources, wherever they are hosted (datacenter or cloud) using the SCIONway: **a path-aware, more available, performant and secure way.**

Accessing and **using the SCION-Fabric helps organisations** increase their **business continuity**, their **global performance**, and reliably access and use the network with virtually **no risk of noticeable connection drops or security problems.**

To participate in the SCION-Fabric, **Service Providers** are required to deploy **Anapaya CORE and inter-connect** with other participants in colocations, IXP or via a SCION-transit provider.

Anapaya helps Service Providers to maximize their interconnections and reach.

To benefit from the SCION-Fabric's properties, **End-Customers** install **Anapaya EDGE on their premises and connect** to the nearest SCION-connectivity provider.

The EDGE may be provided by the Service Provider as part of its service, or by Anapaya Systems.



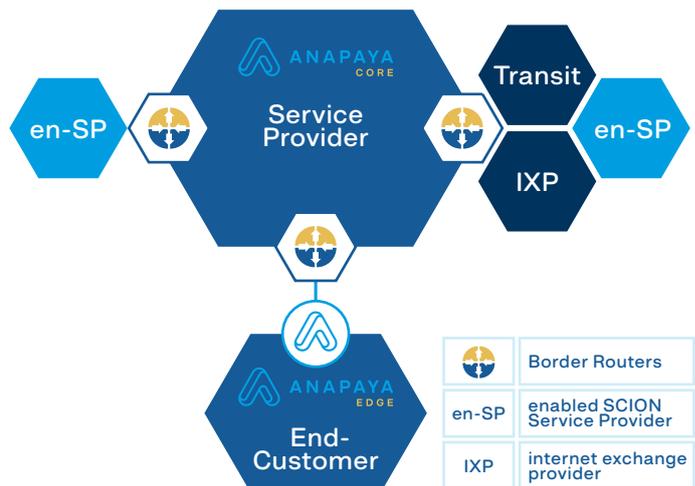
Anapaya CORE: enabling Service Providers to join the Fabric

Service Providers: enable your network with Anapaya CORE and take your connectivity to the next level. Offer your clients the best in networking reliability and security, for example to augment your underlay's properties for clients deploying SDWAN.

Anapaya CORE is your key to the SCION-Fabric. It supercharges your network using the world class SCION infrastructure and converts your business network into a world class service with industrial grade components.

Anapaya CORE software is required to be installed by service providers in order to access the SCION-Fabric. Anapaya CORE is built around border routers serving as the data-plane and control services operating on the control-plane. Where possible, it reuses any existing internal network assets.

The control services are installed on your physical or virtual data center while the border routers are installed at specific interconnection points with other SCION-enabled providers.

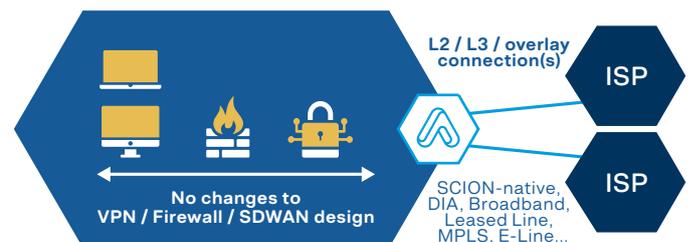


Once Anapaya CORE is installed within a service provider, any clients can access and use the SCION-Fabric via Anapaya EDGE, the end-user gateway to access the SCION-Fabric.

Anapaya EDGE: the gateway to the Fabric

The **Anapaya EDGE** is the gateway to the SCION-Fabric. 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, the EDGE allows organisations to select the most appropriate paths across the Fabric, depending on their business policies.



Anapaya CONNECT: benefit from SCION in other parts of the world

Anapaya operates its own SCION-native backbone, part of the SCION-Fabric. Anapaya CONNECT is the SCION-Transit product offered to interconnect Service Providers and End-Customers in Europe and Asia (extensions planned for 2020).

To communicate with other participants to the Fabric, you just need to connect to the nearest POP via a private or Internet port and chose the bandwidth level of SCION-connectivity you want to commit on!



Anapaya's pricing model

Anapaya CORE (for Service Providers) and EDGE (for Service Providers and End-Customers) software is available through a 3-year subscription model, including the right-to-use the software, its maintenance and the standard support. With proration and coterminus in case of upgrade of the throughput, the model is very flexible and gives you the opportunity to pay as you grow. Optionally, Anapaya can also provide the hardware and professional services, from the installation of a component to the full design and management of global architectures.

Anapaya CONNECT monthly charges are calculated based on two main parts: the ports (where you enter the SCION-Fabric) and the transit level you commit on. Today, we offer local, regional or global transit, from 100Mbit/s to 10Gbit/s.

Interested? Contact us at JoinTheFabric@anapaya.net!