



SCION for the Swiss Finance Sector – The SSFN Story

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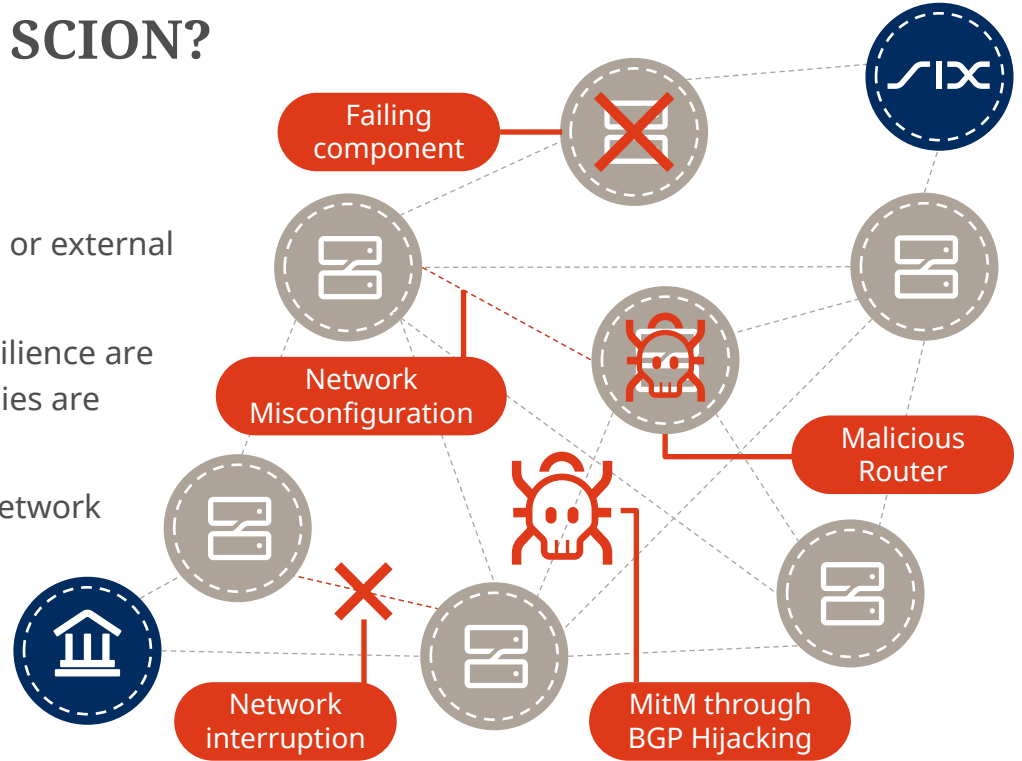
Banking Services – The **Heartbeat** of Swiss Payments

Operating Switzerland's Critical Payments Infrastructure



Why Was SIX Interested in SCION?

- Networks are vulnerable to outages
- Interruptions caused by malfunctions, attacks or external influences
- Requirements for availability, security and resilience are constantly increasing, but available technologies are insufficient
- Approaching End-of-Life of existing (secure) network
- Multi-provider connectivity for national and international (customer) locations needed
- Introduction of instant payments increases the required resilience of connections between banks and SIX
- **SCION offers a new approach to address these deficits**



SCION: Resilient Multi-Operator Network Technology



Trusted networks for reduced attack surface

Clear network governance with common trust domains with agreed trust policies and admission requirements.



Path security against hijackings

Paths cryptographically secured at each hop.
Paths and users not visible in public internet.



Geofencing for compliance & sovereignty

Users with choice over which path(s) to send data across the network, based on optimal characteristics or other parameters (e.g., geofencing, latency, ...).



Multi-path / multi-operator for performance and uptime

Simultaneous use of multiple paths and operators.
Path switching in sub-second, increasing resilience and performance.
Cross border enabled.

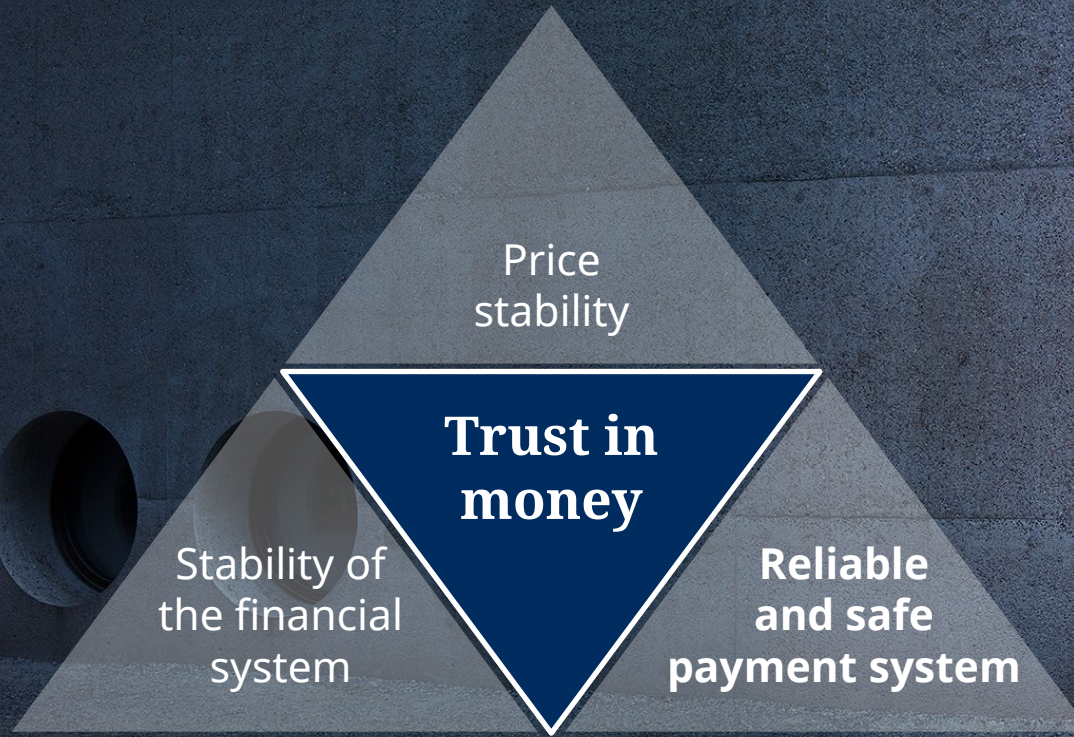
Lead by SIX, a Project to Establish SSFN Was Initiated in 2019

- **SIX** (project lead)
- **Swiss National Bank SNB**
(manager SIC)
- **Anapaya** (commercial SCION technology)
- **Sunrise, Swisscom & SWITCH**
(partners for **connectivity**)

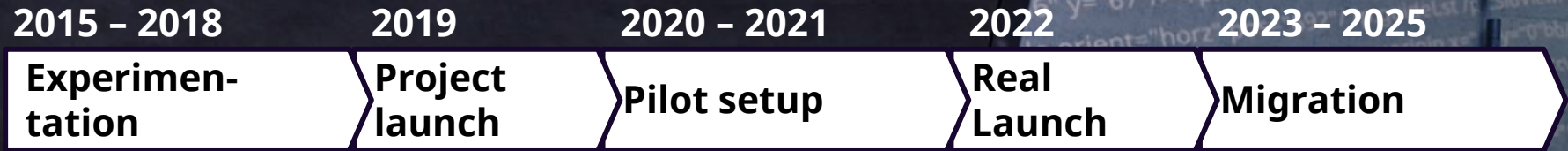
In addition, three banks actively participated in the **pilot**.



Partnering With the Swiss National Bank – Key Elements of Their Mandate



“Christopher, can I have 20% of your time until the end of the year?”



• I thought we would be done by now...

• SNB approves go-live in SIC-production/ phase-out legacy FIPNet initiated

From SCION as a Technology to an Industrial-Grade SSFN Network



Governance

Established roles and responsibilities, admission criteria, legal groundwork etc.



Technology

Architecture & design, pilot operation, certificate issuance and management, IP addressing, DNS structure, etc.



SSFN Ecosystem

Establishing a SCION community with participants from a wide range of industries.



Processes

Definition of the entire process catalog (members, IT, BCM, etc).



Security Checks

Various external security checks, various test cycles.



All content in public domain for “recycling” to launch similar networks

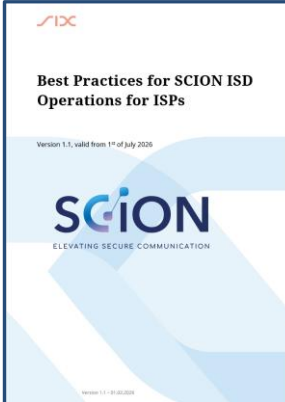
SSFN foundations under public license



The cover of the 'SSFN Regulations' document features the SIX logo at the top left. The main title is 'SSFN – Building a secure communication network for the financial community'. Below this, it specifies 'SSFN Regulations' and 'Version 1.1, valid from 01.06.2026'. The SCION logo is prominently displayed in the center, with the tagline 'ELEVATING SECURE COMMUNICATION' underneath. At the bottom left, the version number 'Version 1.1 - 01.06.2026' is visible.

SSFN Regulations

Defining ISD specifications and governance, roles, responsibilities of all SSFN participants and admission criteria, etc.



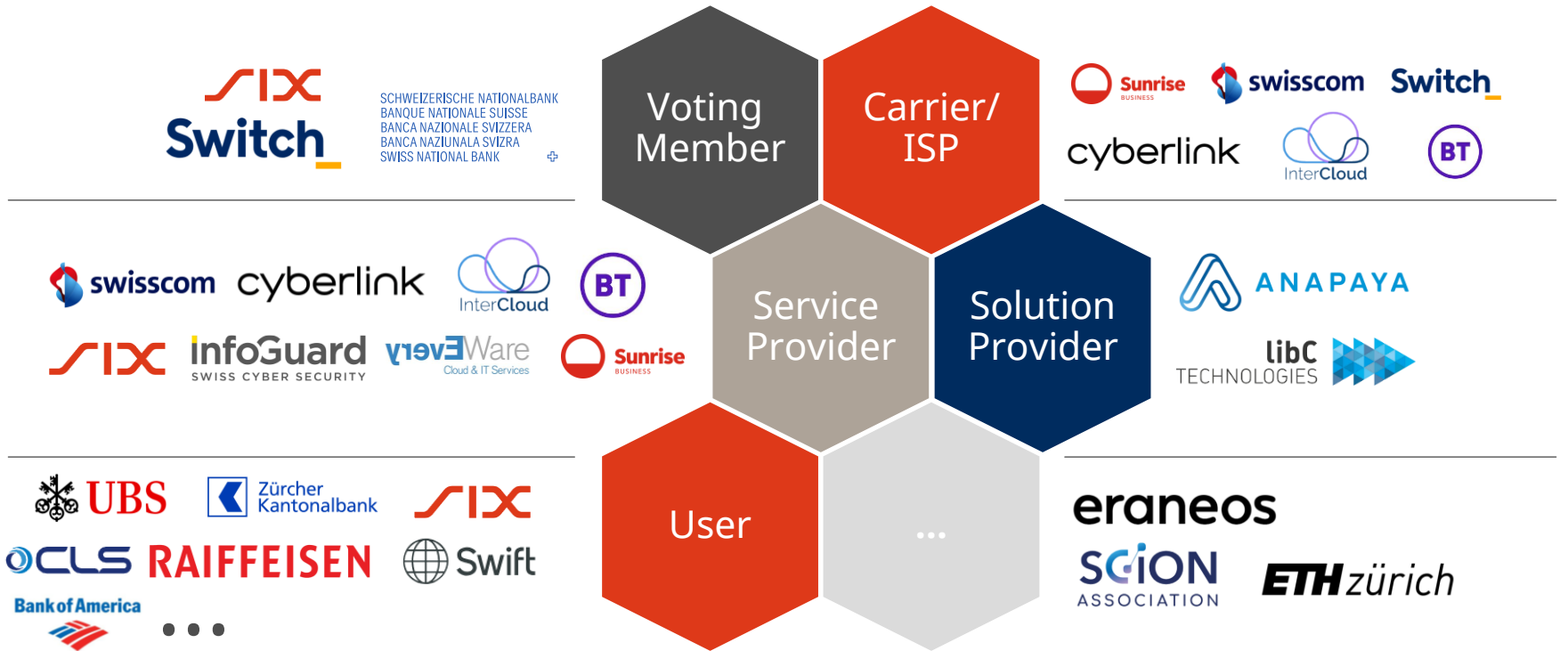
The cover of the 'Best Practices for SCION ISD Operations for ISPs' document features the SIX logo at the top left. The main title is 'Best Practices for SCION ISD Operations for ISPs'. Below this, it specifies 'Version 1.1, valid from 1st of July 2026'. The SCION logo is prominently displayed in the center, with the tagline 'ELEVATING SECURE COMMUNICATION' underneath. At the bottom left, the version number 'Version 1.1 - 01.07.2026' is visible.

Best Practices for SCION ISD Operations for ISPs

Establishing cooperation among ISPs, managing cryptographic assets, and setting standards for performance oversight, incident response, and change control

- **Established rules and regulations** were adjusted to address the requirements of a critical financial infrastructure.
- The **key documents** will be released in H2/2026 **under public license** (Creative Commons Attribution 4.0 International)

SSFN Ecosystem With Multiple Roles (Examples)



SSFN key facts

- Zero seconds downtime since launch of SSFN
- 5.1 m payments with CHF 220 bn payment volume processed per day (RTGS and Instant Payments), and many other services
- 90+ banks / financial institutions / service providers using SSFN
- 250+ banks / financial institutions using SSFN for SIC directly or via service bureau
- Proven switchover robustness without session restart, especially relevant for Instant Payments processing
- *Economics -> c.f. upcoming white paper*

SSFN-inspired SCION Networks Today

SSFN adaptations



EDUCATION

SCION education, research & academic network

Connecting campuses with path-aware high performance SCION connectivity



FINANCE: SSFN

Secure Swiss Finance Network

National inter-bank network



HEALTHCARE

HIN Trust Space

Interconnecting Swiss hospitals and 50K+ doctors.



UTILITIES: SSUN

Secure Swiss Utility Network

El. producers & utilities
IoT (smart meters, photo voltaic, ...)
OT security operation centers



PAYMENTS: SEPN

Secure EFTPOS Network

Network for cashless payments connecting merchants, acquirers, POS systems.



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