



HSM Box Refresh

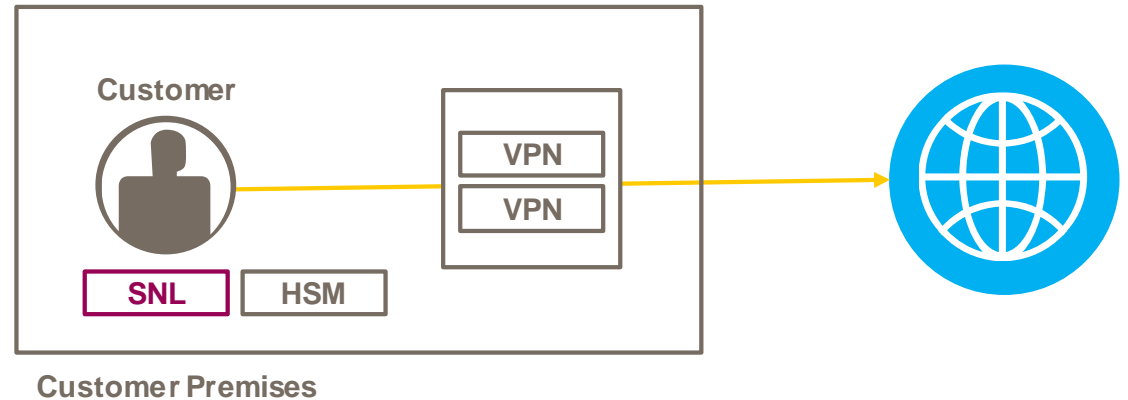
Coming Soon

Ivania Martinez
Product Manager – Security Footprint, APIIC

2021

HSMs @ SWIFT

Hardware Security Modules (HSMs) play a critical role in the SWIFT security architecture. They store customer's PKI certificates used for authentication and encryption of data sent and received over SWIFT.



Types of HSM boxes

Current

Luna IS6



- › High Availability 3-4 way clusters
- › Remote Management
- › Large Capacity:
up to 2500 PKI certificates, 200+ TPS

Future

Luna SA7



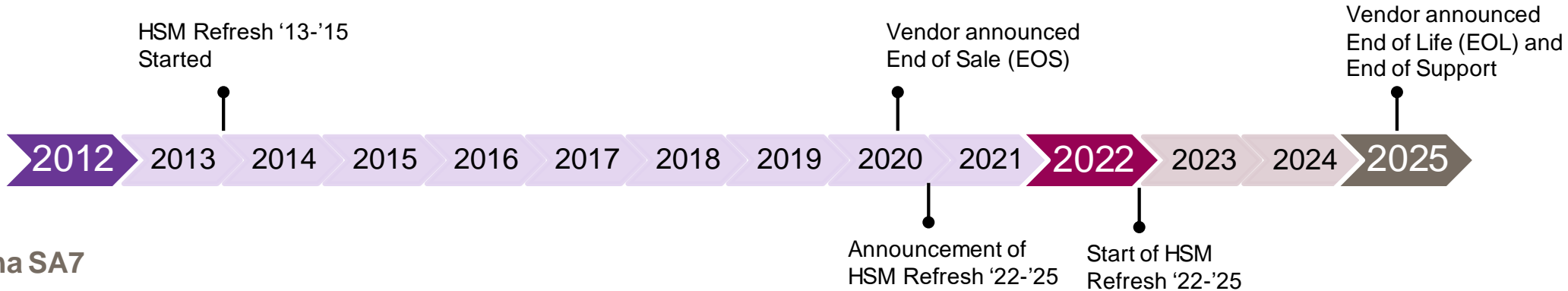
- › Password based 2FA
- › High Availability 3-4 way clusters (WIP)
- › Simplified pricing model: Standard and Premium
- › Increased capacity:
Standard: 500 certs, Premium: 3000 certs



Why refresh HSM boxes?

Current HSM boxes are aging and must be refreshed to address **end-of-life**, contractual items and to ensure safe and continuous operations.

HSM Luna IS6



HSM Luna SA7



New HSM Box Requirements – Address Pain points and better customer experience

❑ From Customized version to Commercial-Off-The-Shelf (COTS)

- › Better support and quality software/hardware in addition to other benefits
- › Regular security updates to address vulnerabilities
- › Benefits customers as similar technology used across SWIFT and non-SWIFT envs

❑ In addition to meeting the functional requirements, address following pain points

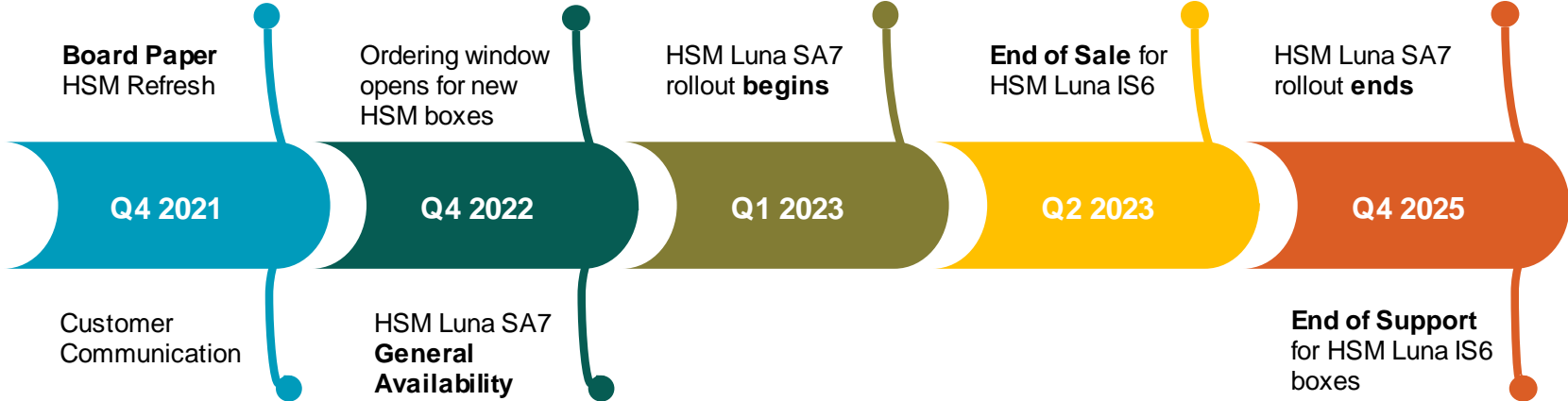
- › PED (PIN Entry Device) and associated keys make it harder to manage the HSMs remotely – helps in remotely managing (software upgrades, certificate management etc) HSMs
- › Power Supply cords supplied for some countries do not meet Data Centre specifications
- › Importing/Customs clearing is painful in some countries



❑ Migration to the new HSM box needs to be seamless – no manual certificate migration



HSM Rollout - Tentative Timeline



Key Takeaways

- 1. The HSM Refresh will begin in 2023, and rollout HSM Luna SA7 over the course of 2 years to replace the current HSM box.**
- 2. The new HSM box hardware will retain the core functionality and solve customer pain points.**
- 3. Detailed communication on rollout, pricing, incentives will go out in January 2022.**

