

++

what does it take to steal \$81M?

Oliver Simonnet

Swiss Cyber Storm – 2018

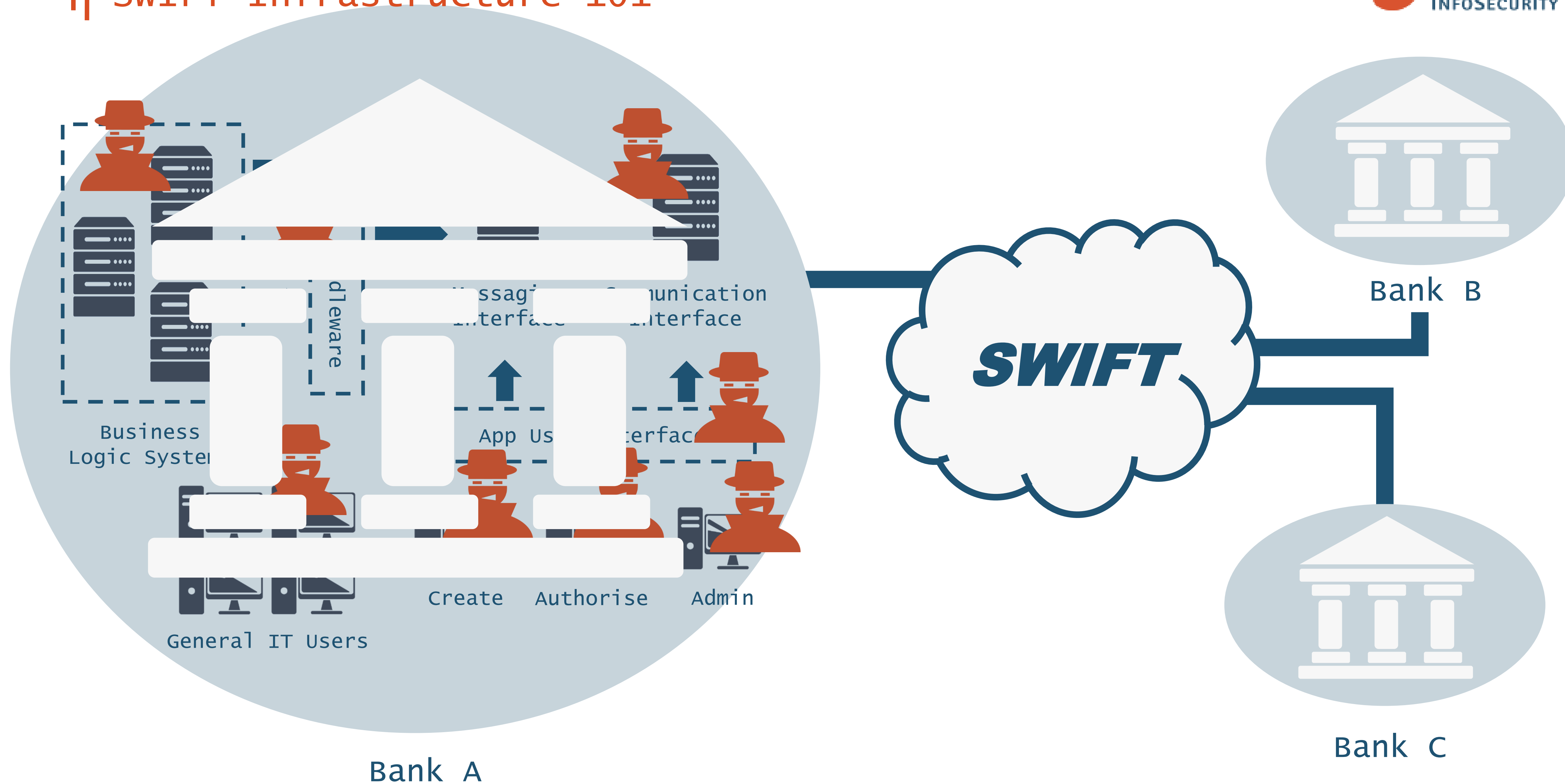


what are we going to talk about?

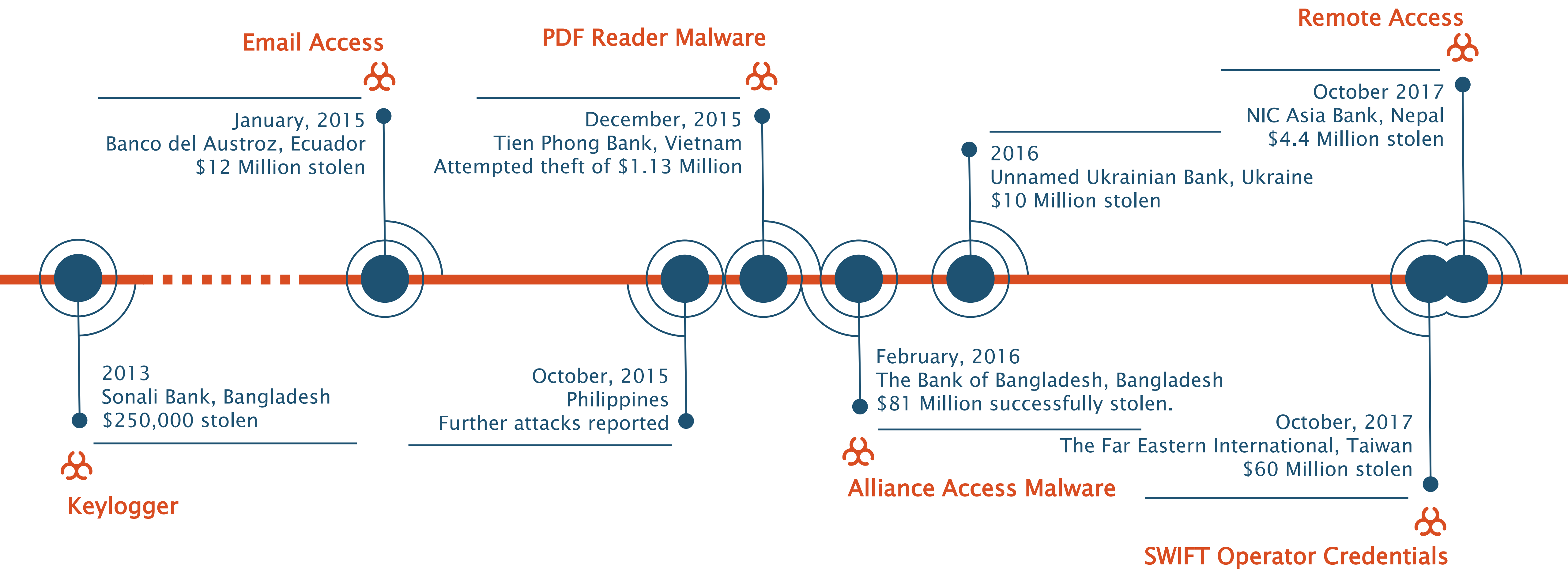
- + SWIFT from an attackers perspective
- + Attacker TTPs
- + why it's so easy!
- + Oh, I mean, why it's so hard!
- + In that case, why you should even care?
- + what's being done about it?



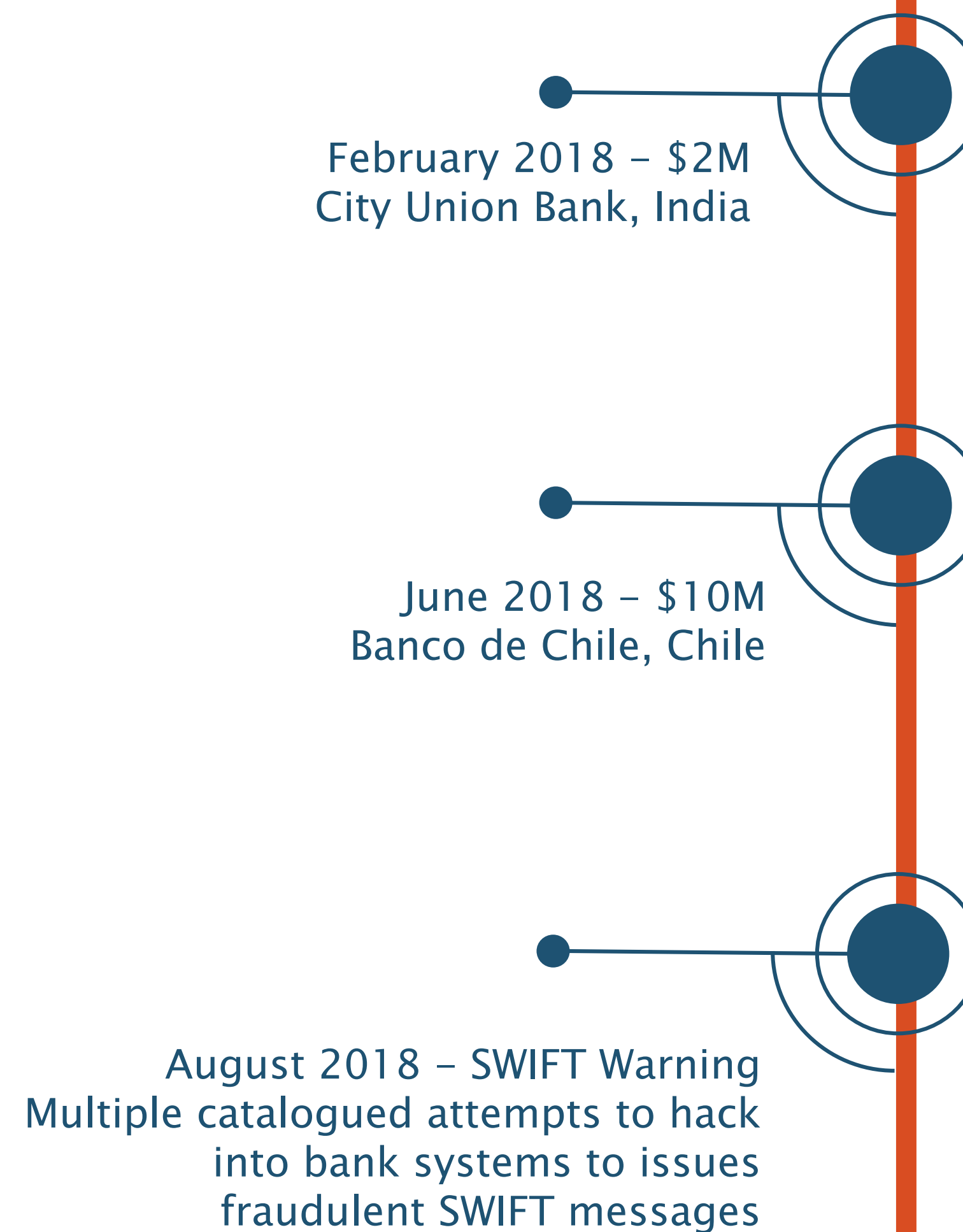
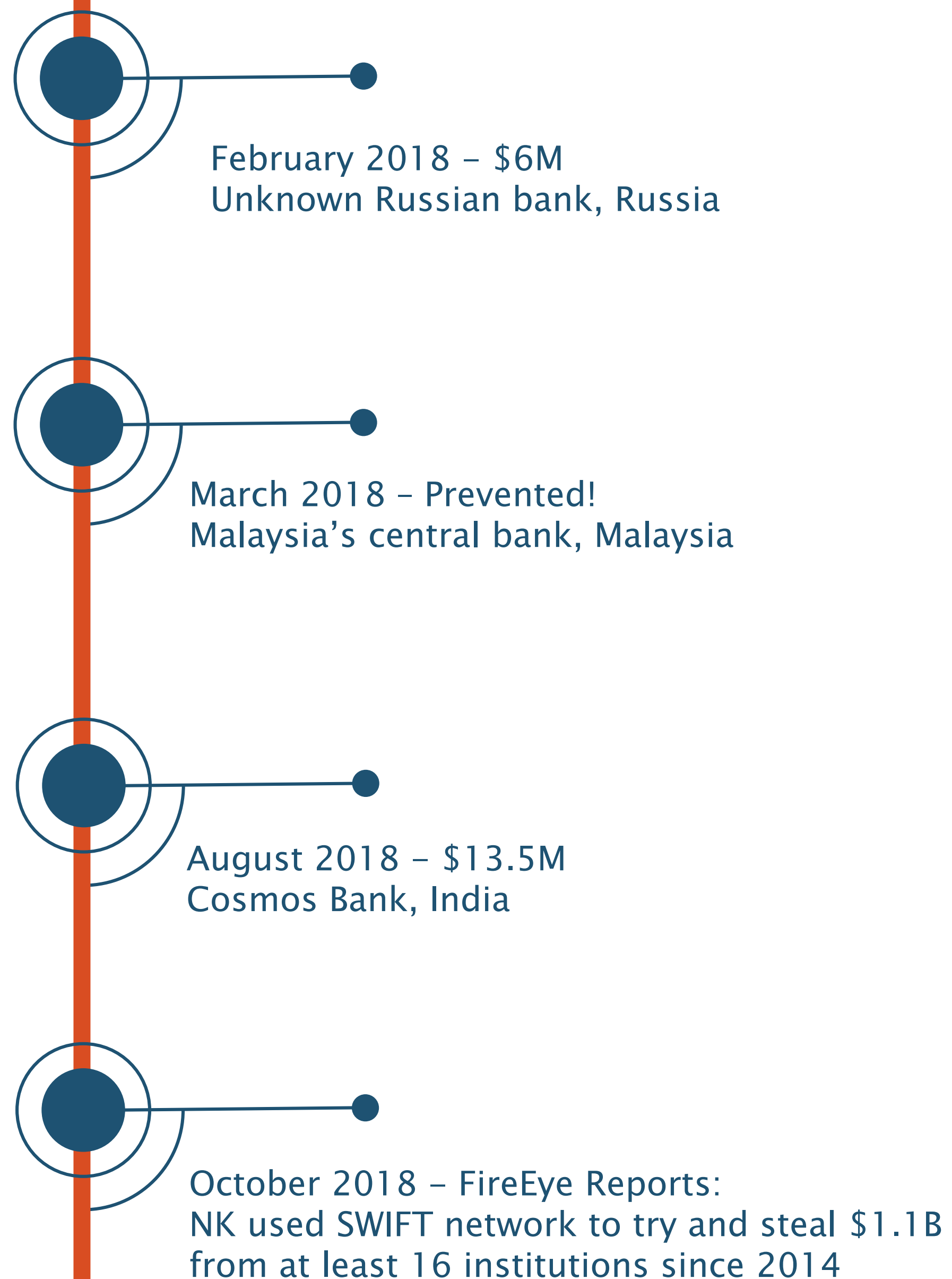
SWIFT Infrastructure 101



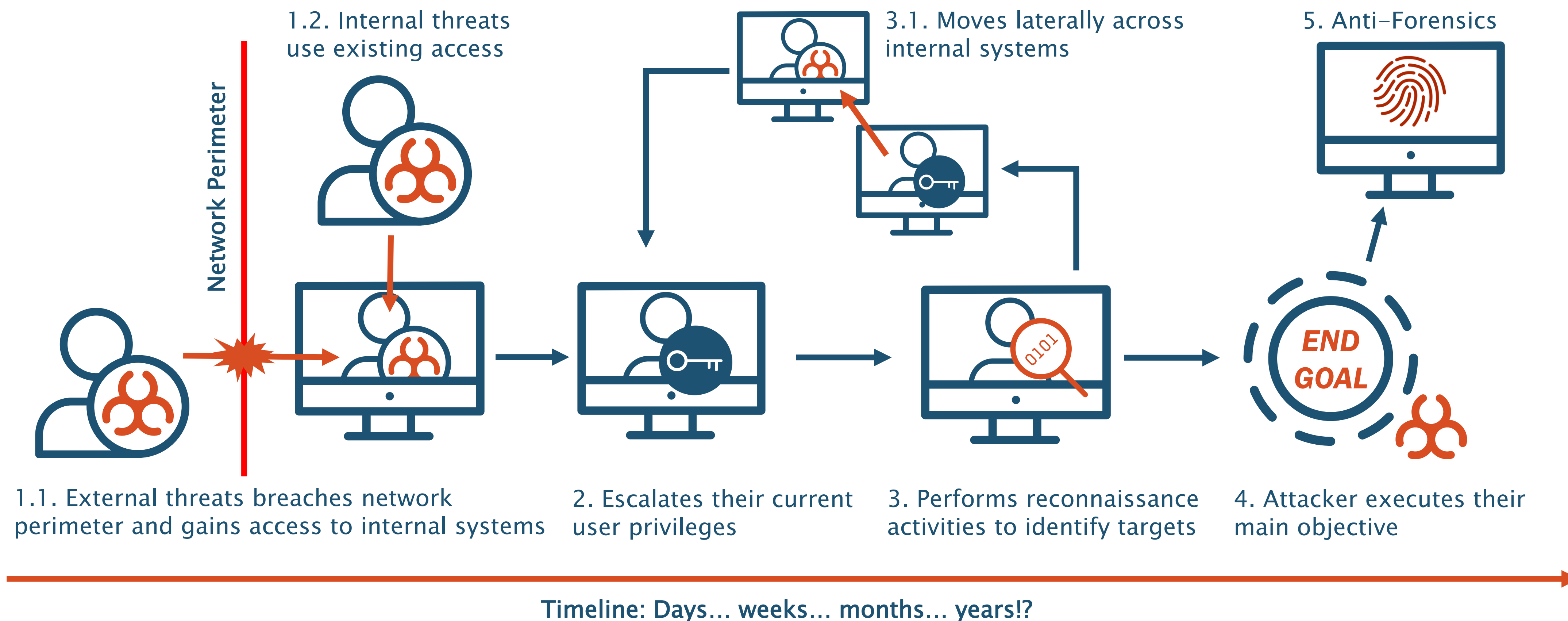
SWIFT Related Attacks (2013 – 2017)



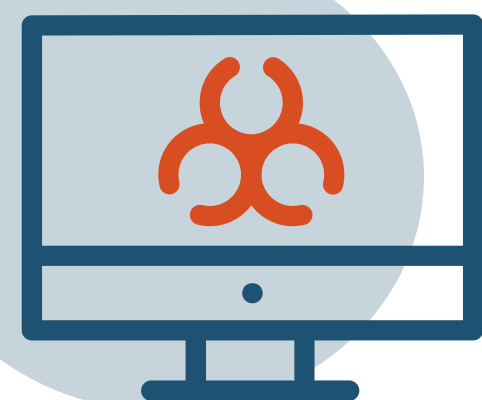
2018



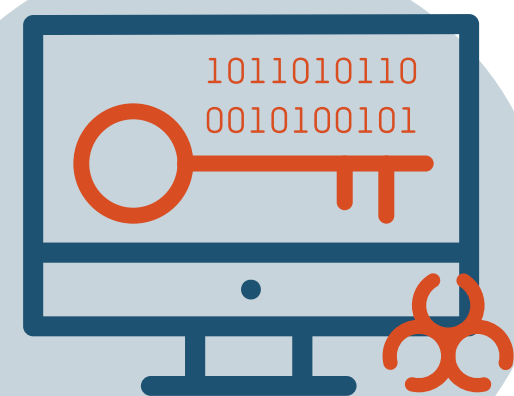
Attacker TTPs



Attacker TTPs



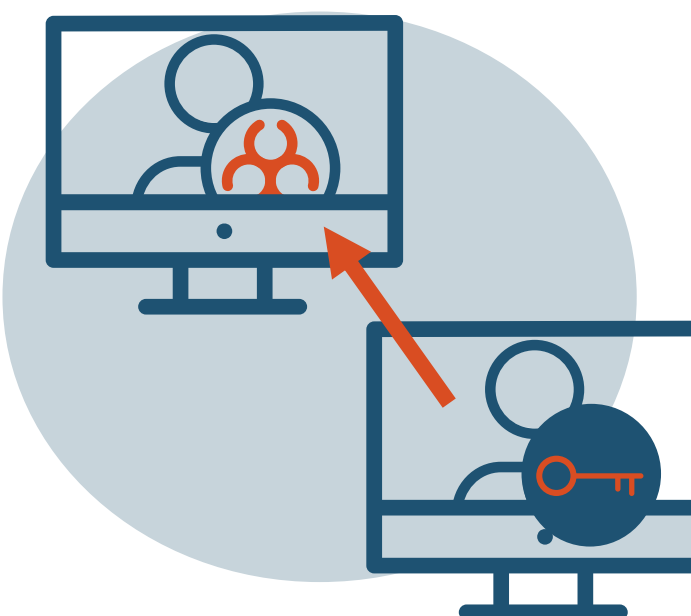
Malware



Credential
Compromise



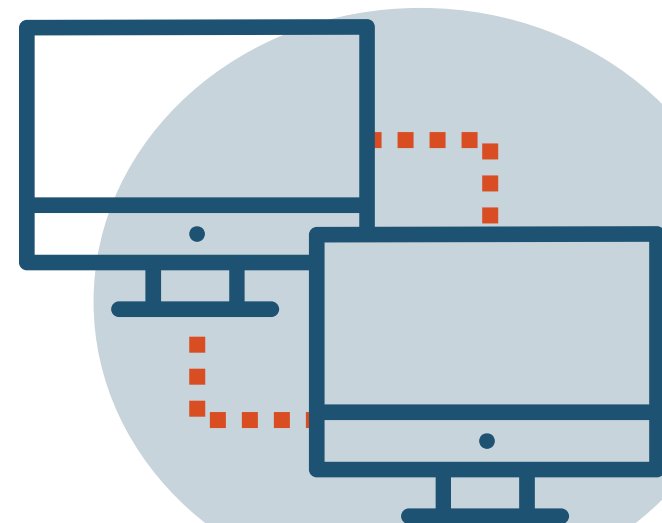
Phishing



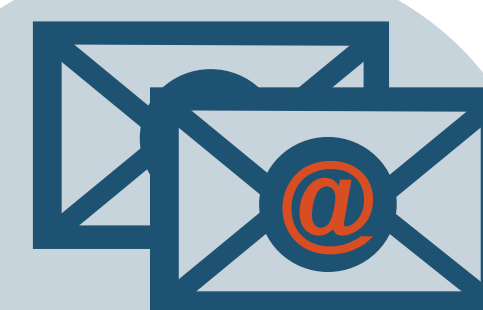
Lateral Movement



Possible Insider
Threat



Remote Access

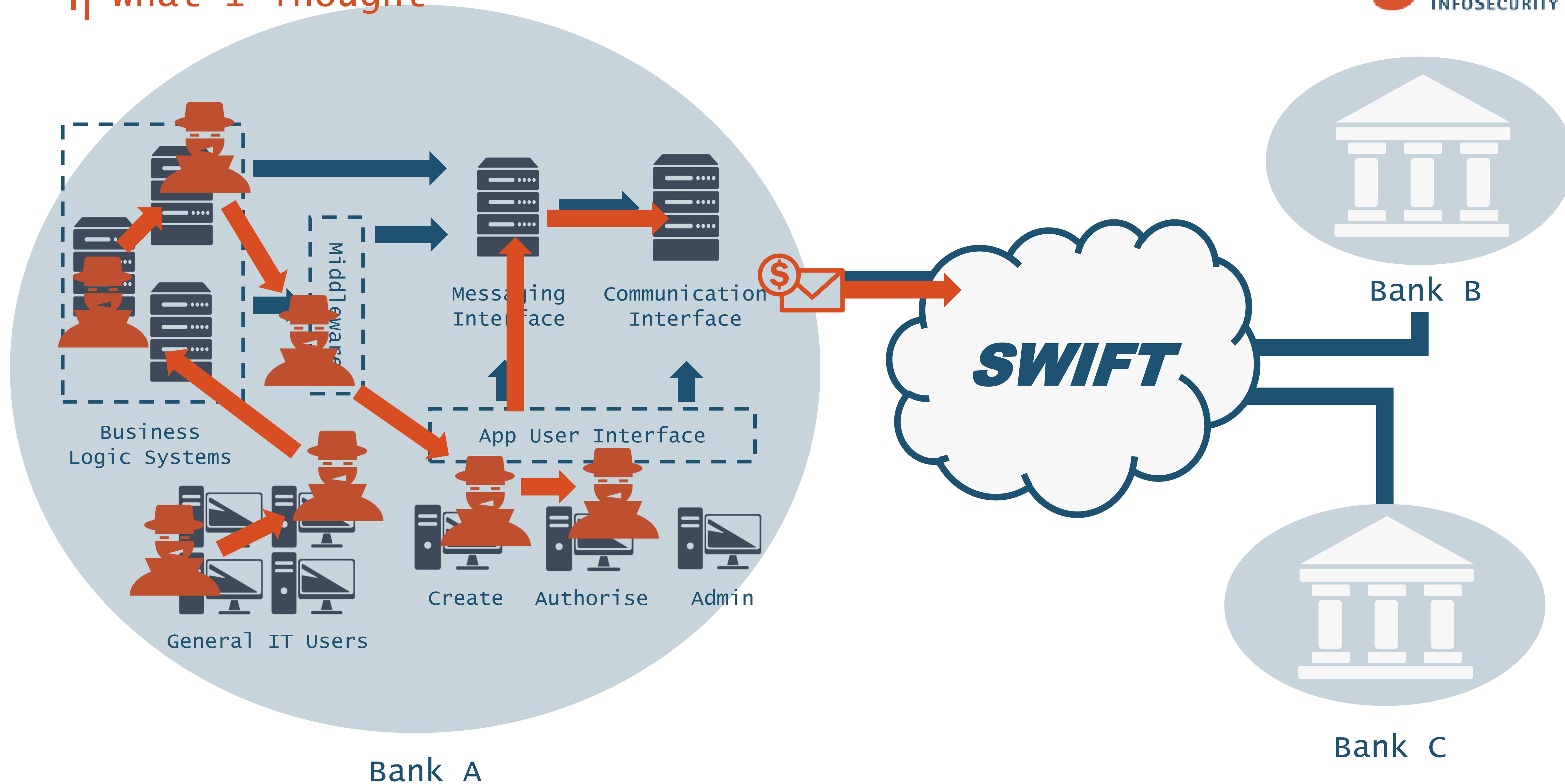


Email Access

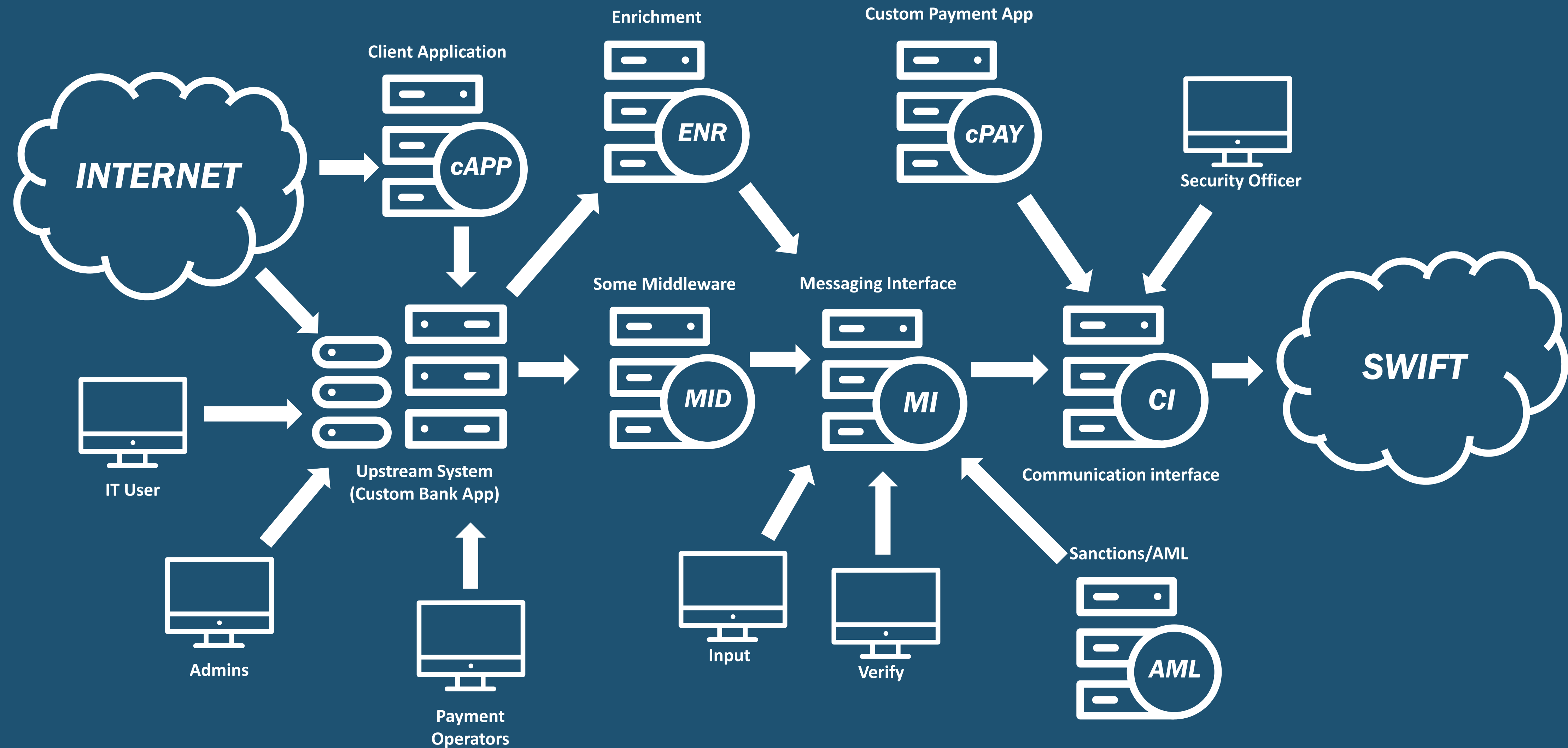


Unknown

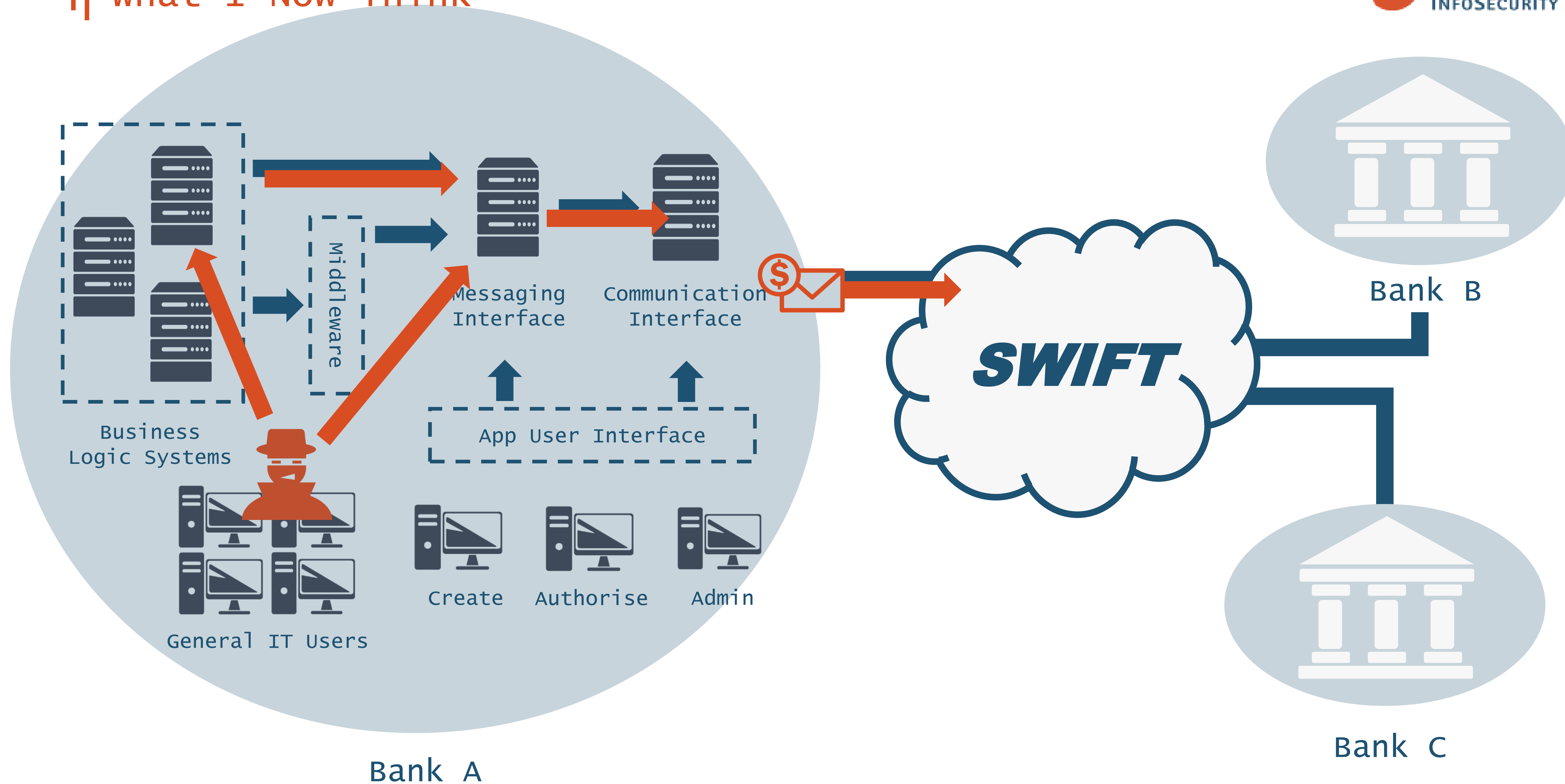
what I Thought



What I Discovered



what I Now Think



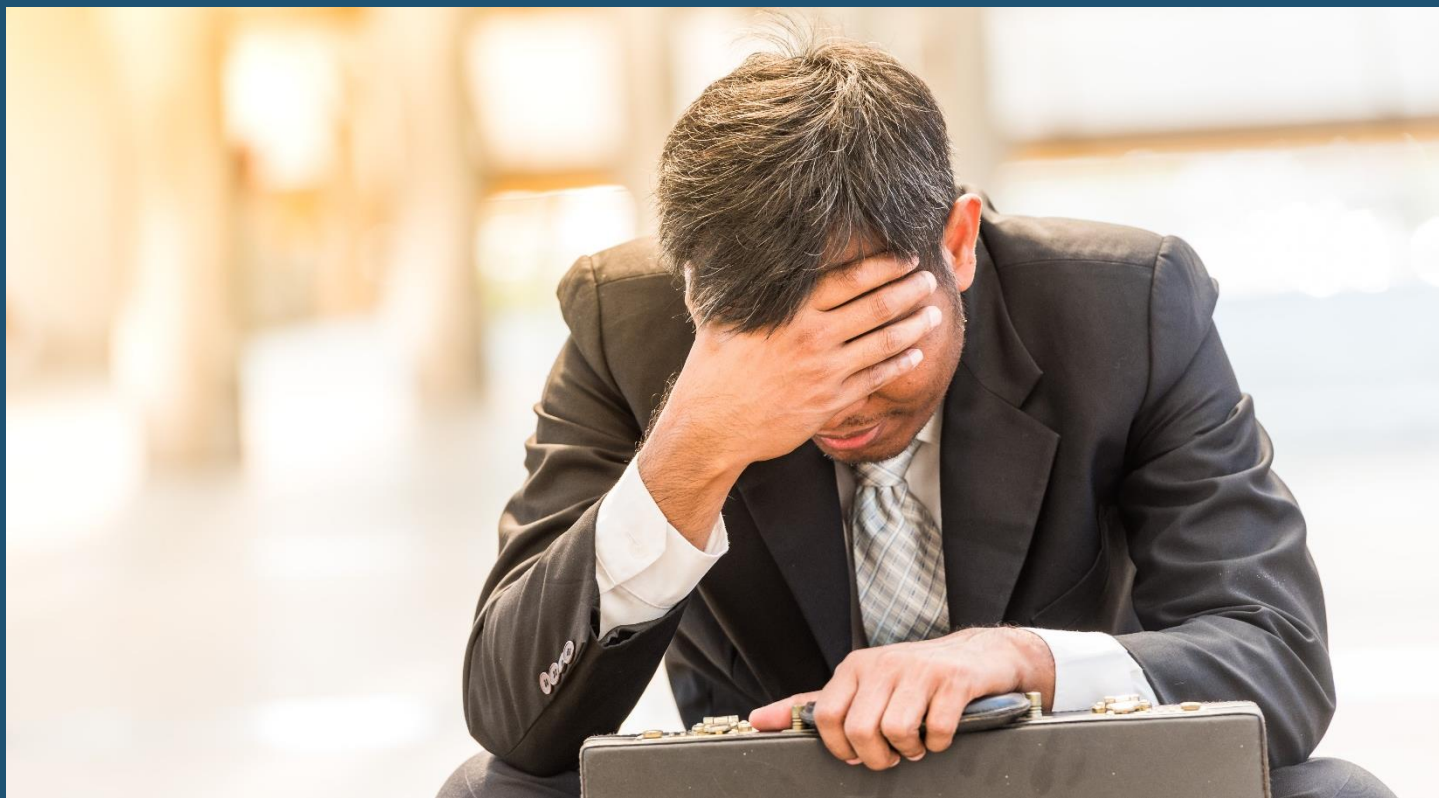
So...

OK, if it's so easy then why...







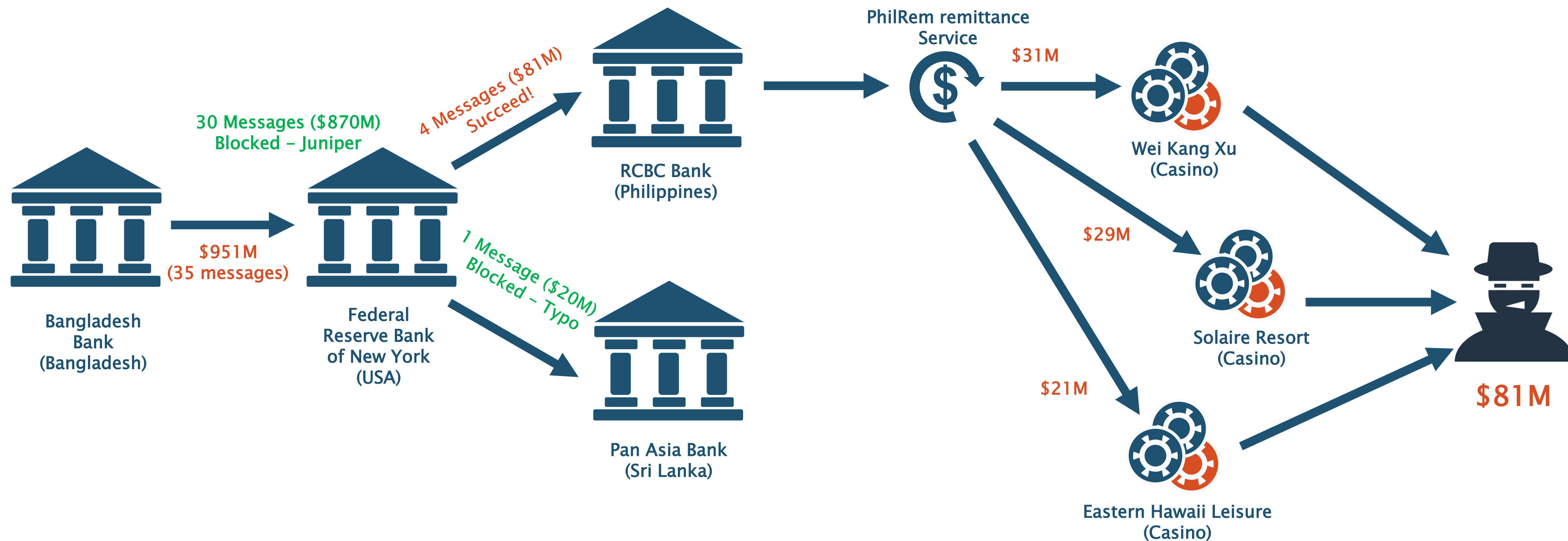


Well...



BCB Heist – Funds Journey

++



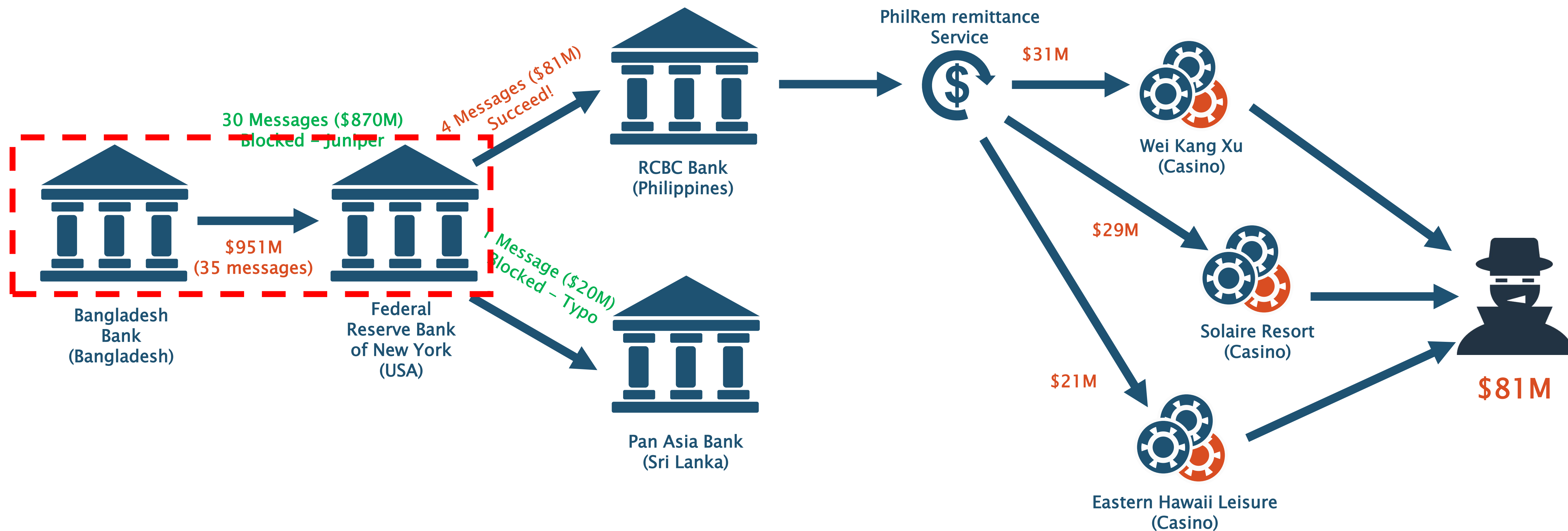
Eeeerrmmm....

Well in that case, why should we even care?



BCB Heist – Funds Journey

++

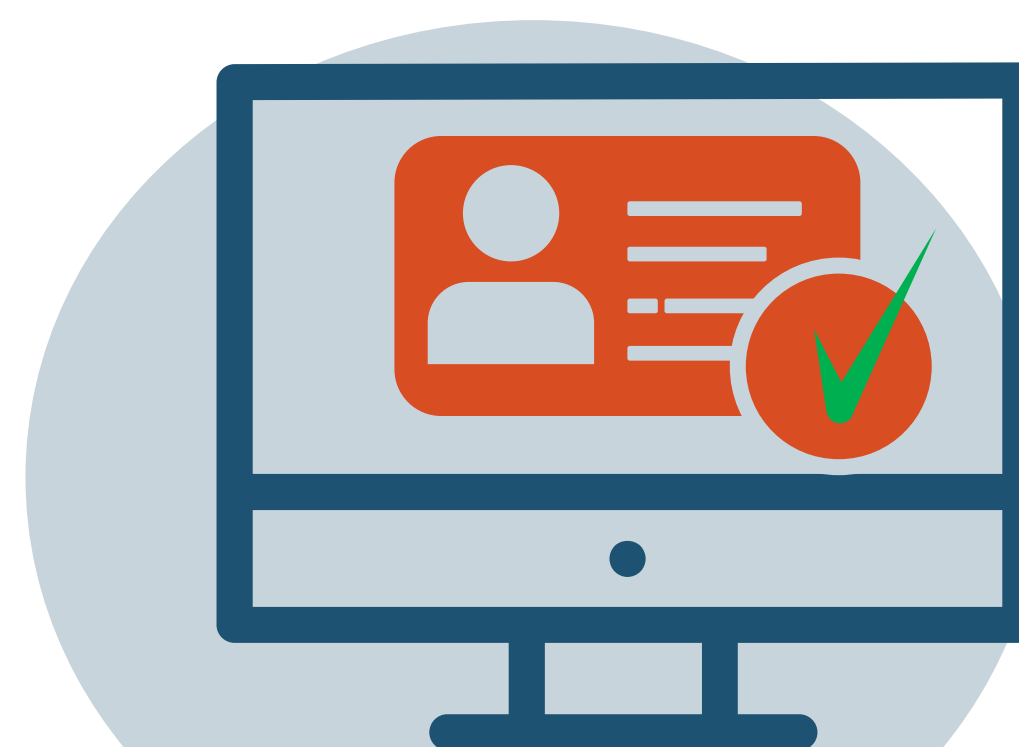


31st March 2017

- + SWIFT Customer Security Programme (CSP)
- + Set of 27 mandatory/advisory controls
- + Self-attestation via online portal by 1st January 2018
- + Compliant by 1st January 2019



Secure Your
Environment

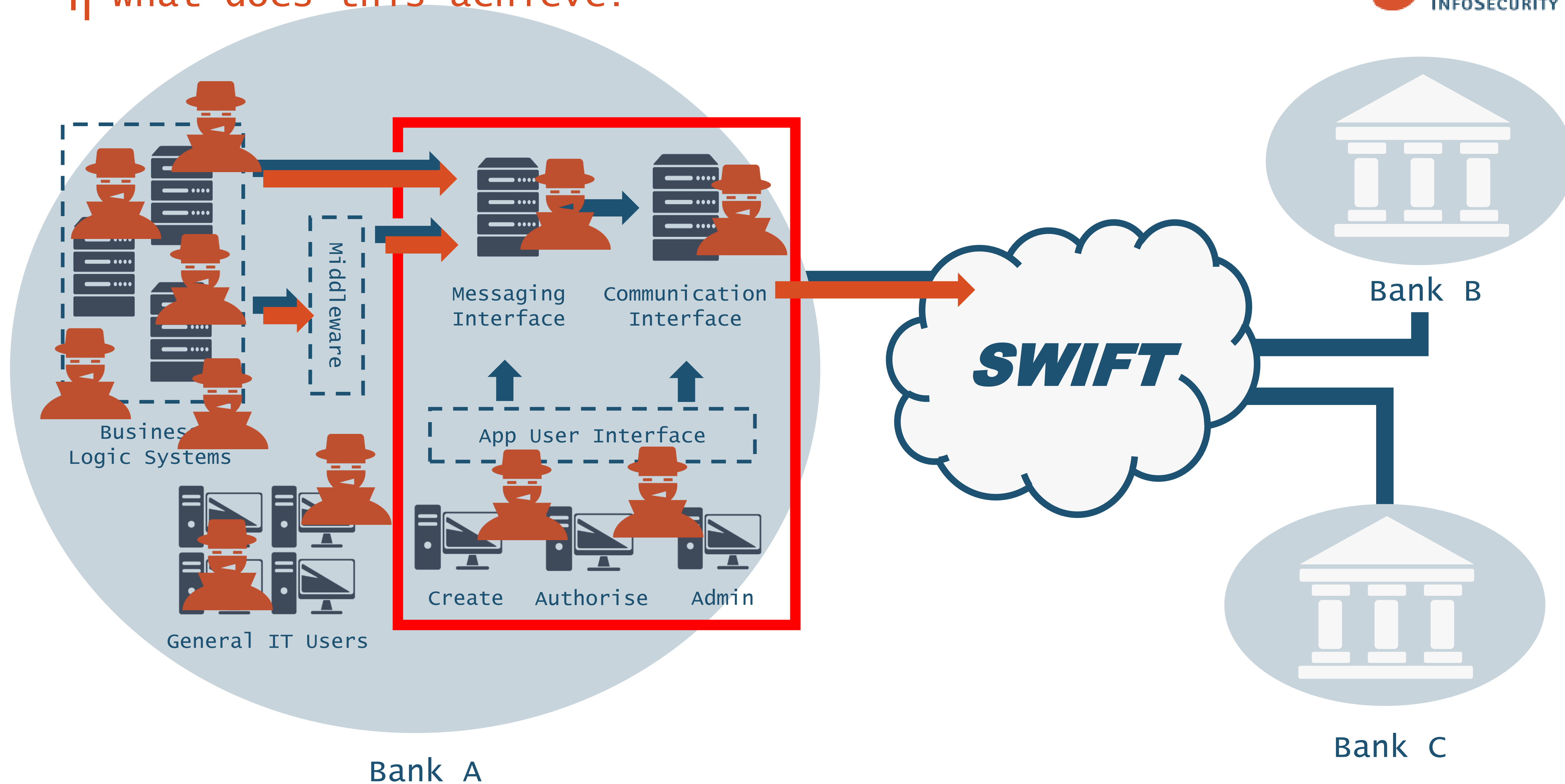


Know and Limit
Access

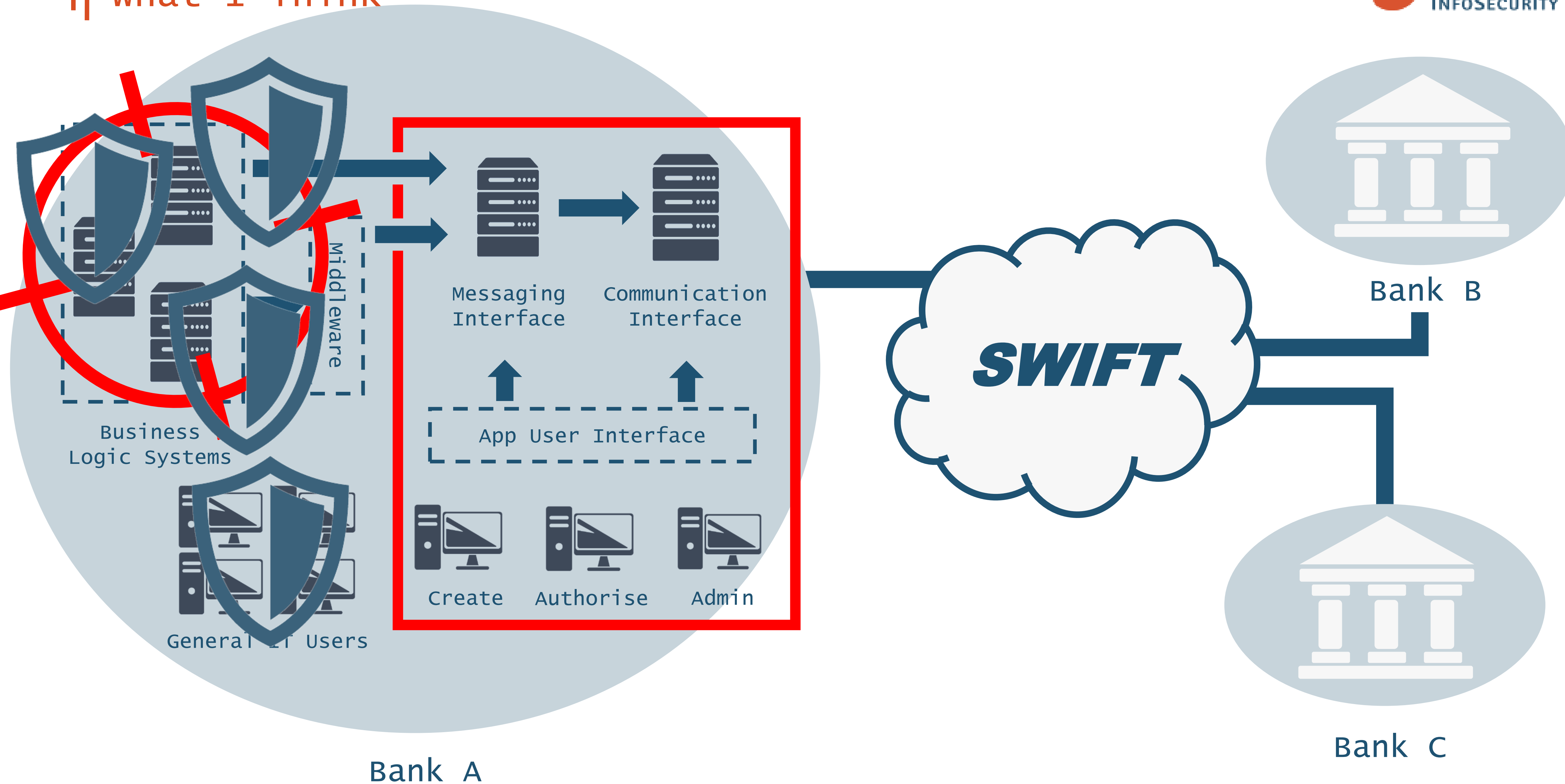


Detect and
Respond

—|| what does this achieve?



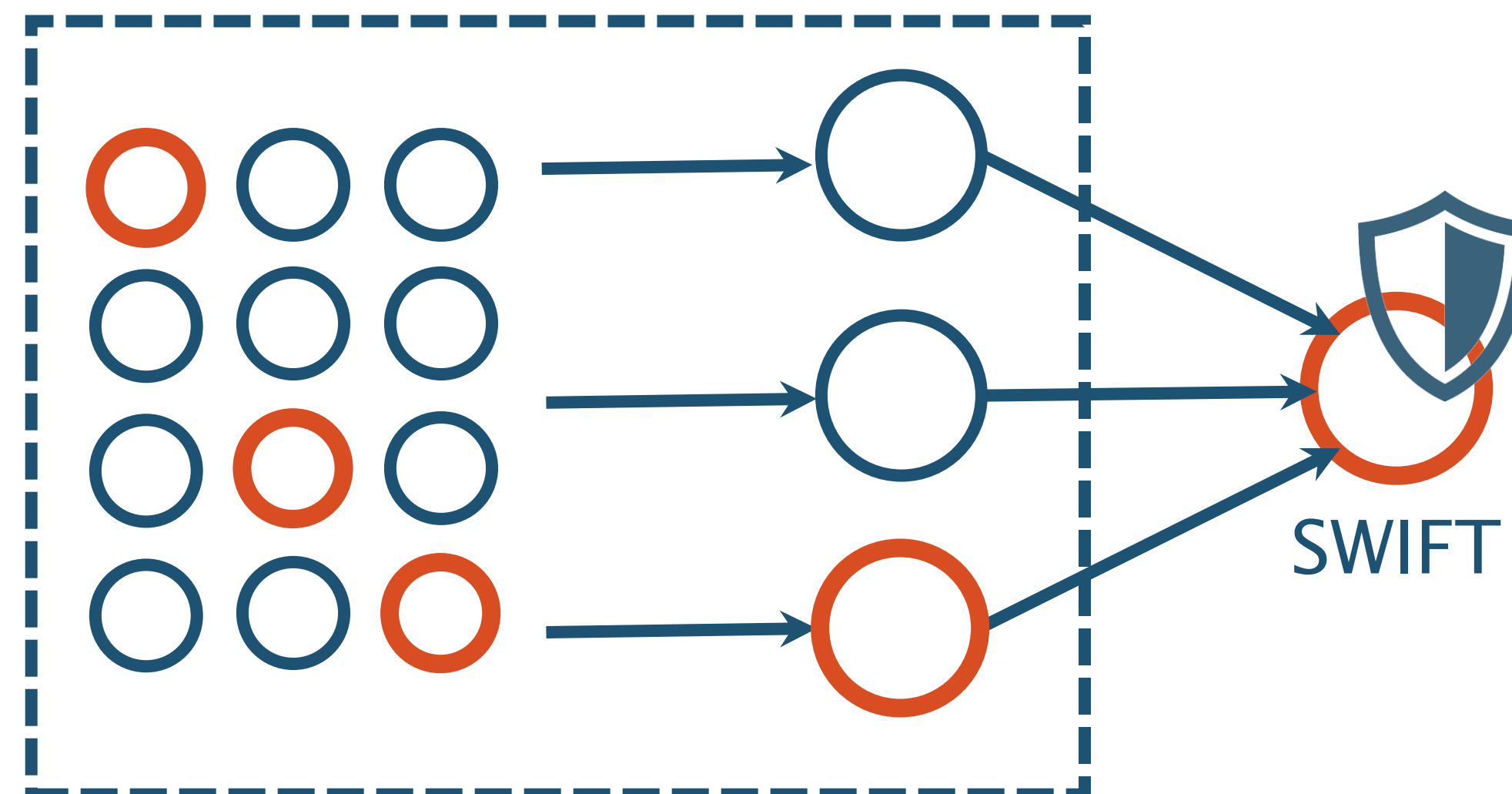
what I Think



— In Conclusion

++

As we further segregate, isolate and protect SWIFT systems and users, attackers will evolve.

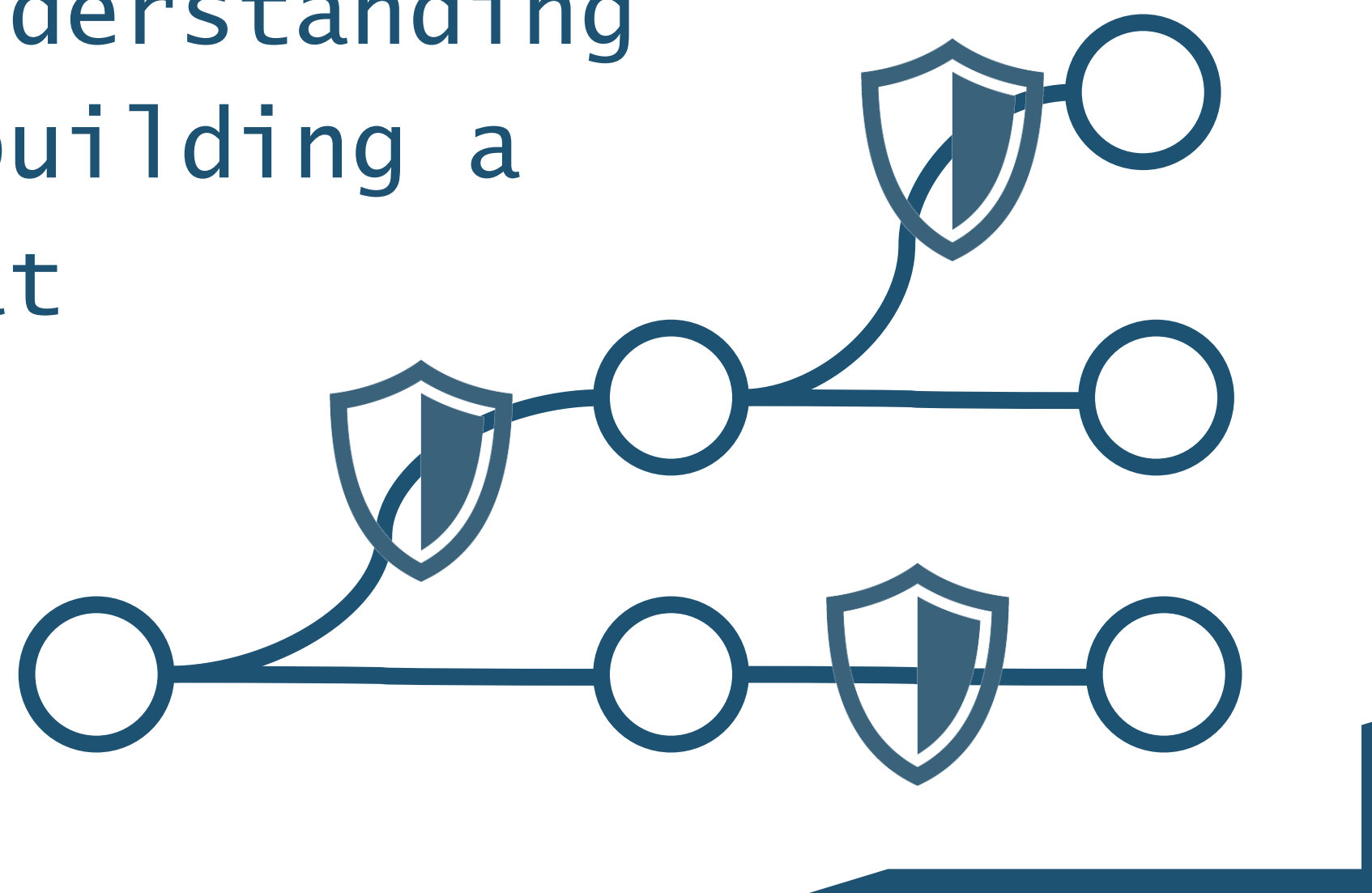


Are upstream systems secure?

— In Conclusion

++

Defending payment infrastructure
like SWIFT means understanding
the attackers and building a
defences around that
understanding

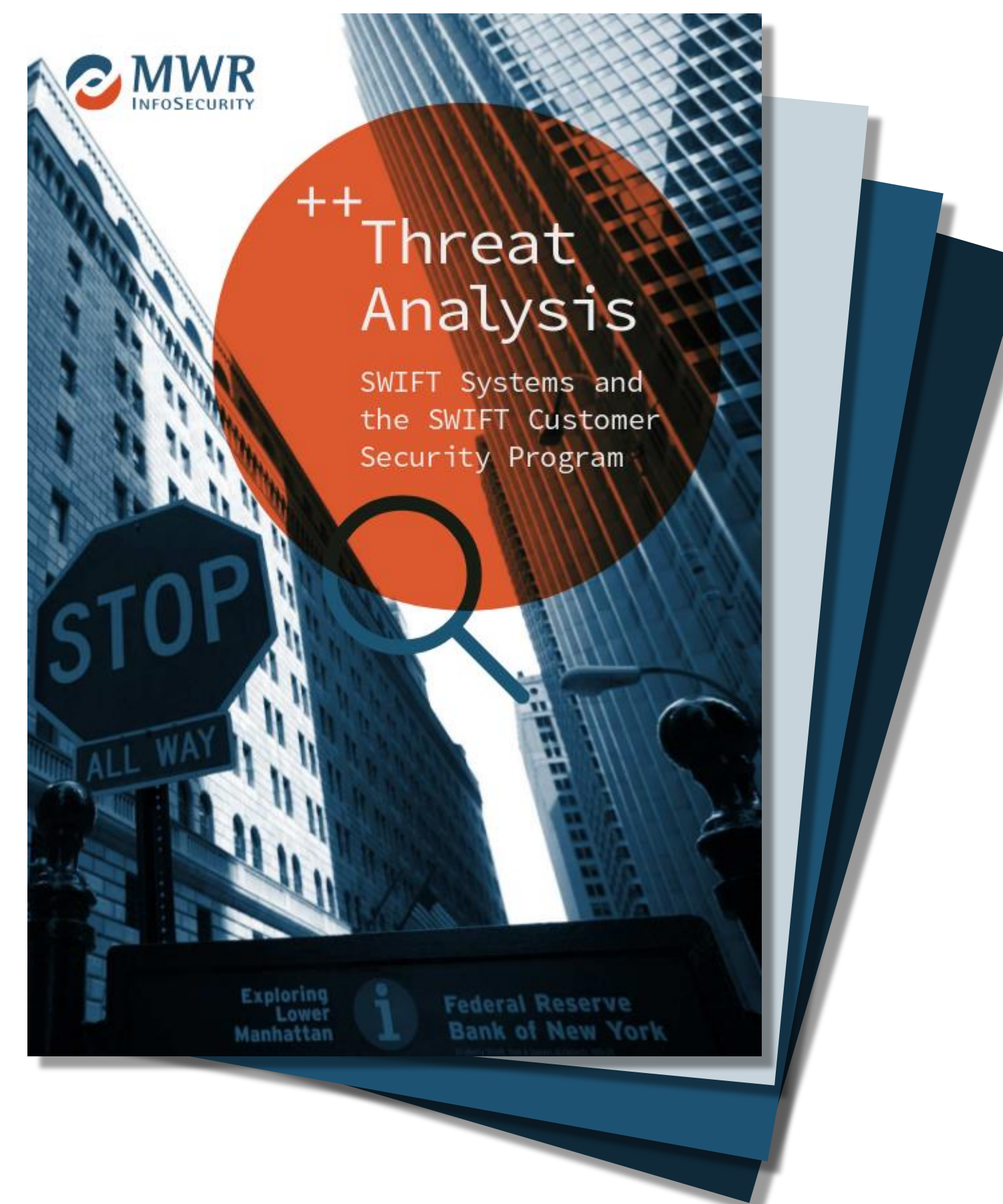


—| Thank you

++

MWR SWIFT Resources

- + Threat Analysis: SWIFT Systems and the CSP
<https://www.mwrinfosecurity.com/assets/swift-whitepaper/mwr-swift-payment-systems-v2.pdf>
- + Defending SWIFT payment systems from attack
<https://www.mwrinfosecurity.com/our-thinking/defending-swift-payment-systems-from-attack/>



Questions?

