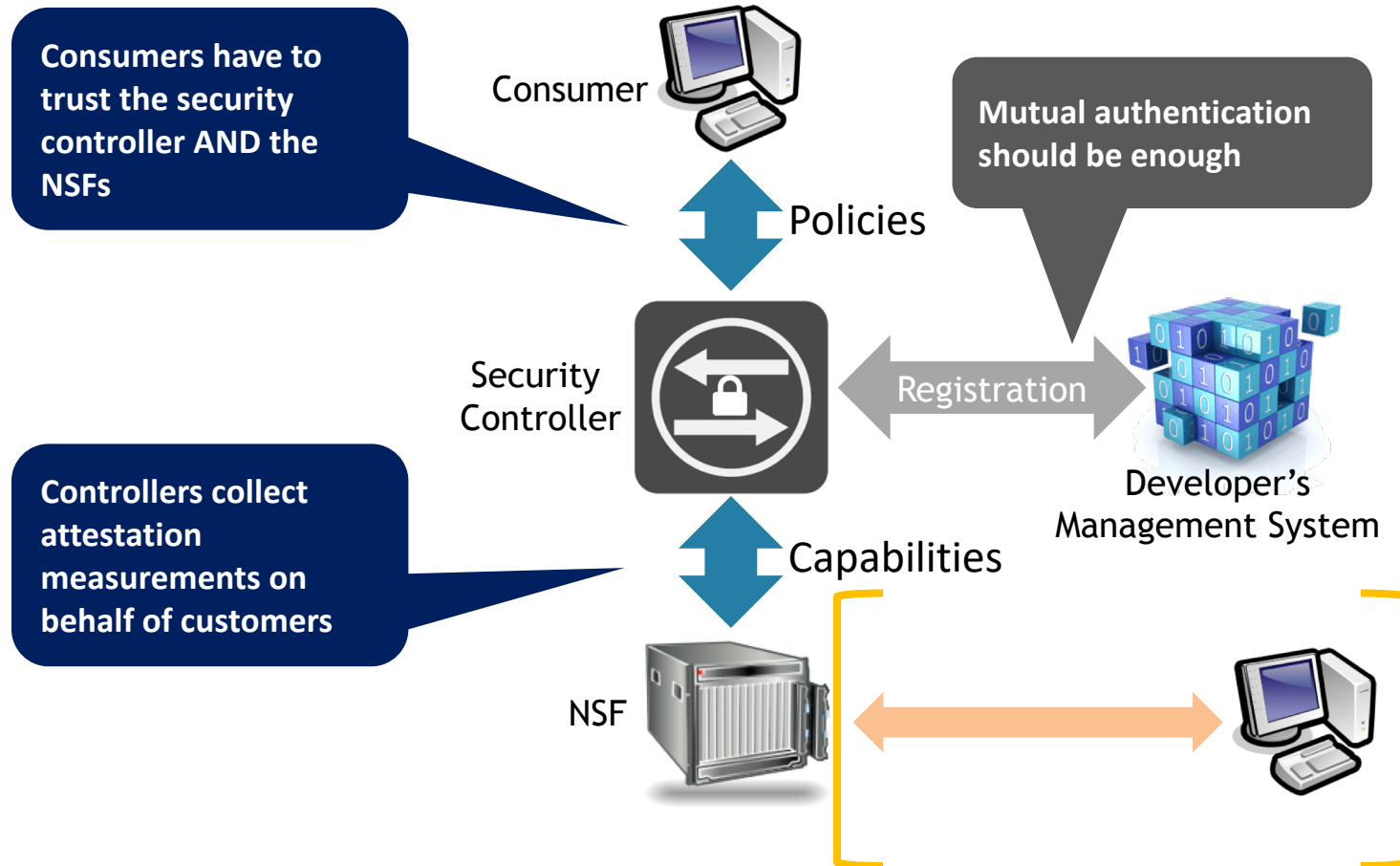# draft-pastor-i2nsf-nsf-remote-attestation

Diego R. López
I2NSF @ IETF 102, July 2018

Attestation in I2NSF

Consumers have to trust the security controller AND the NSFs

Consumer

Policies

Mutual authentication should be enough

Security Controller

Registration

Developer's Management System

Controllers collect attestation measurements on behalf of customers

Capabilities

NSF

What's New in -04

- A discussion on network topology attestation
  - Important in dynamic environments: NFV, SDN, SFC…
  - Essential for certain levels of assurance
- Two methods discussed
  - A TPM-based SDN verifier
    - Requires TPM at the controller and the forwarding elements
  - A proof-of-transit SFC verifier
    - Crypto proof of packets going through specific functions
    - OAM packets (or sampling)
    - draft-ietf-sfc-proof-of-transit

How to Proceed

- This draft is not about NFV or a general attestation flow
- It is focused on I2NSF matters
  - The need for a trusted channel between Client(s) and Security Controller
  - The Security Controller as measurement collector
- And therefore it belongs to I2NSF
  - Unless the group does not believe so
- Yes, this is a call for adoption
  - Or at least an assessment on how to proceed