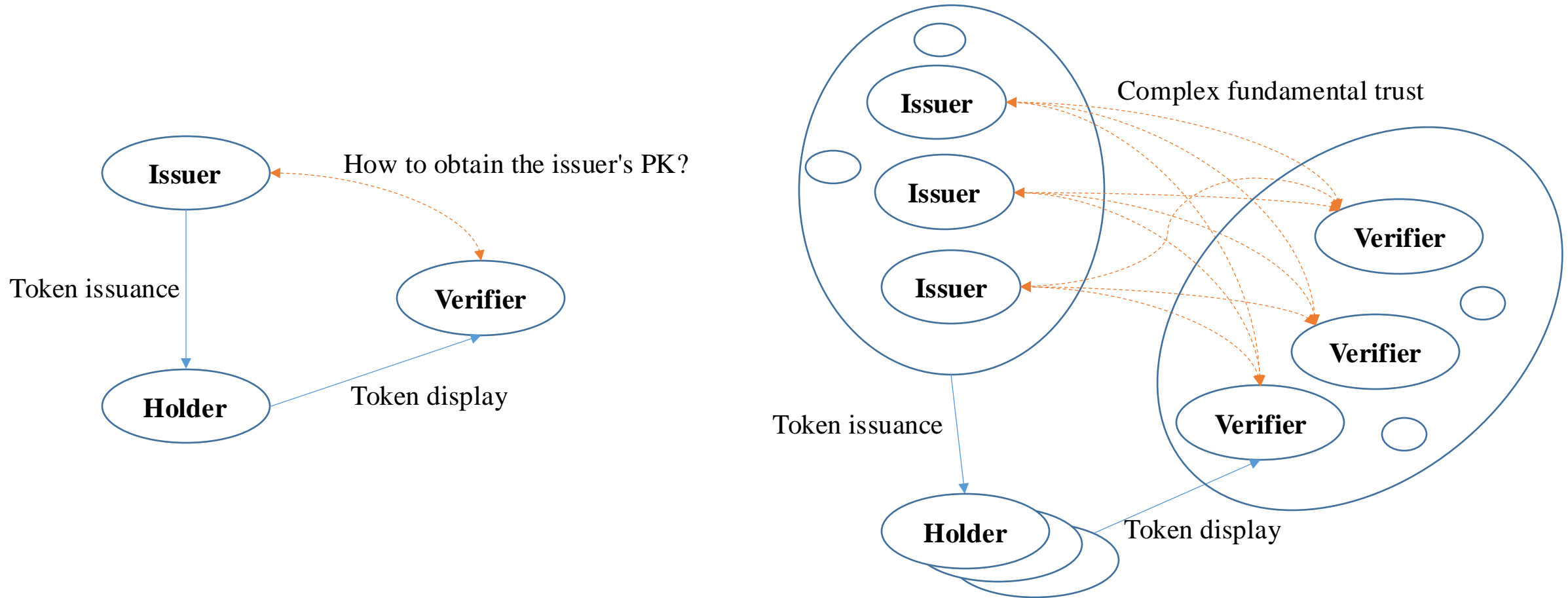


# A Public Key Service Provider for Verification in Multiple Issuers and Verifiers

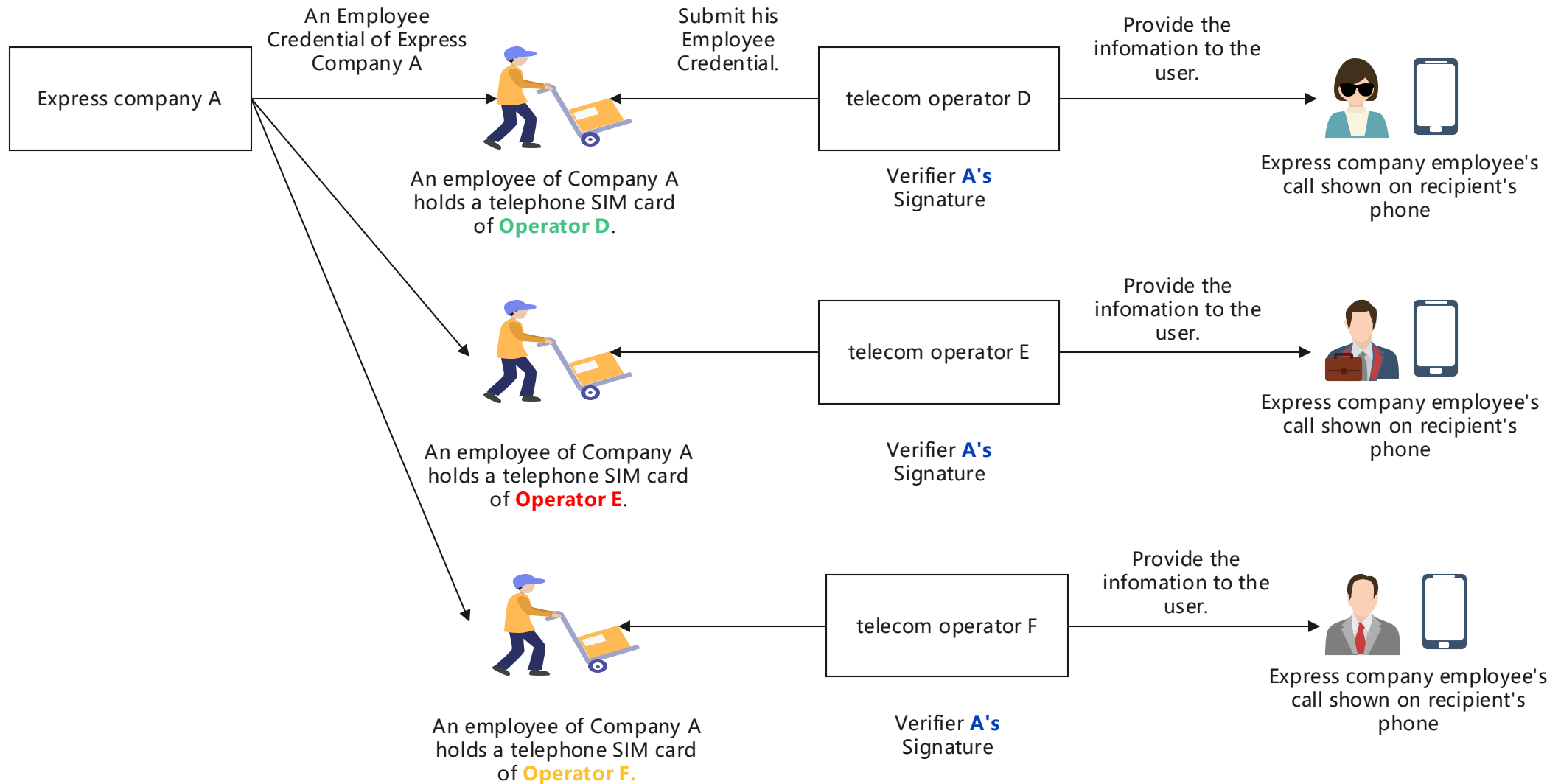
<https://datatracker.ietf.org/doc/draft-wang-spice-public-key-service-provider/>

Donghui Wang

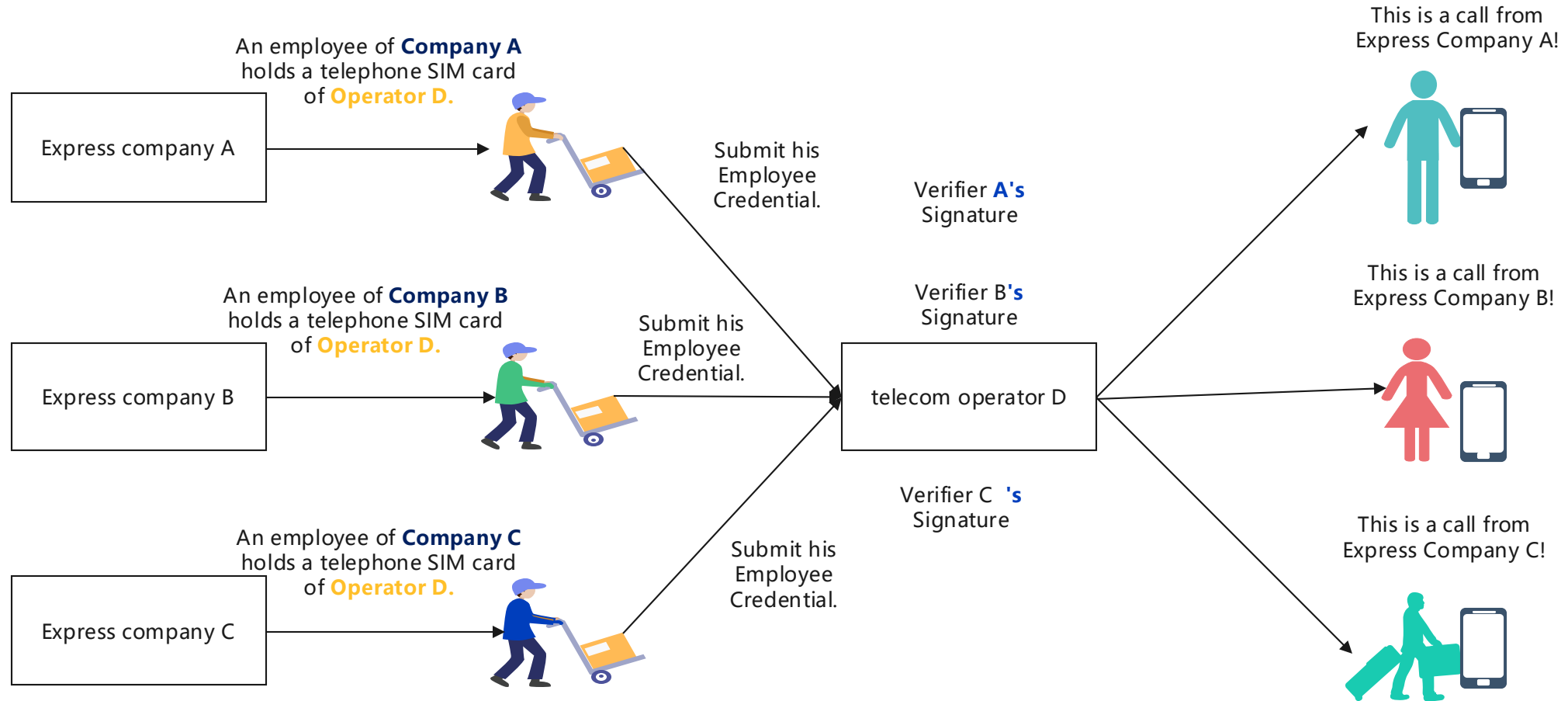
# Why Public Key Service Provider?



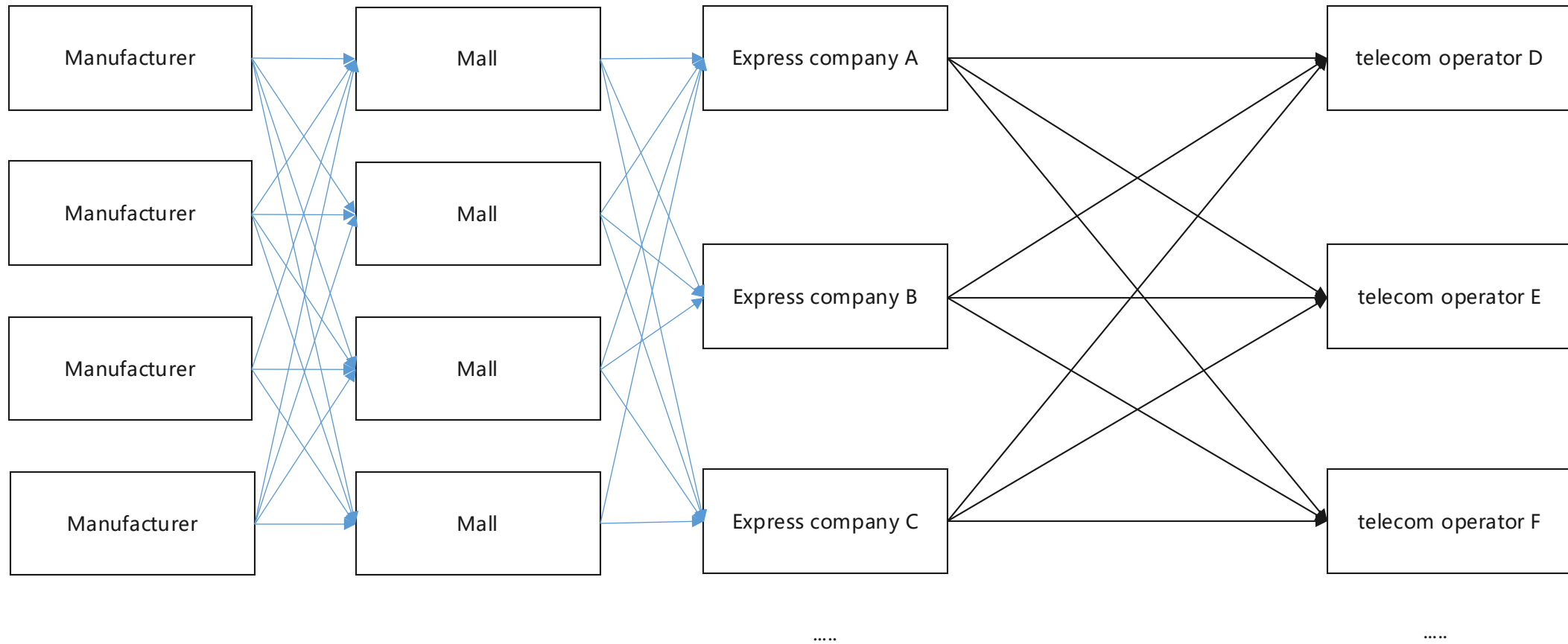
# An example...



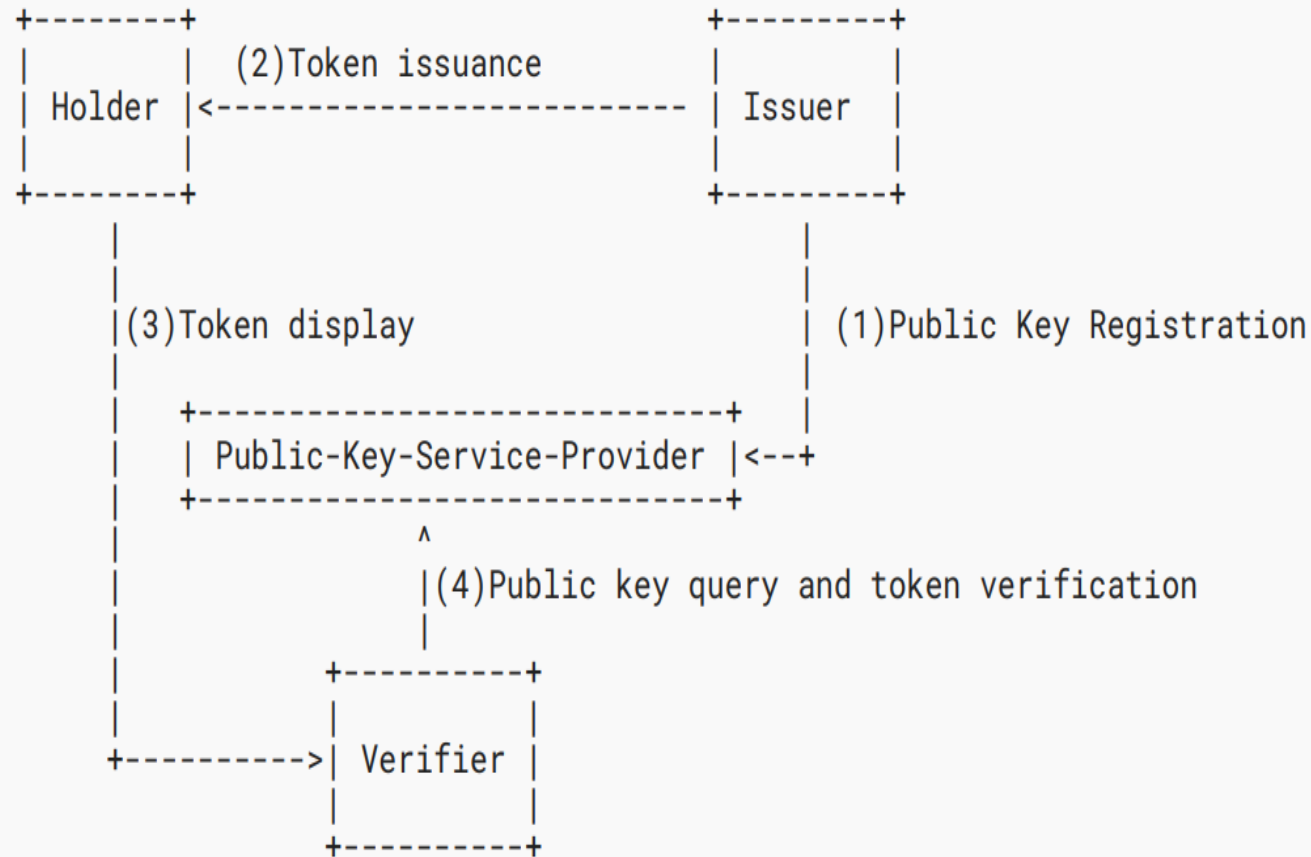
# An example...



# What's more?



# System architecture of a Public-Key-Service-Provider



## Public Key Registration

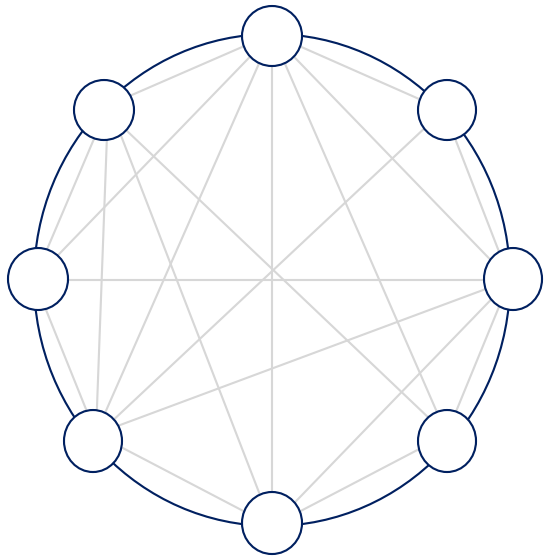
1. The Issuer submits the public key to the PKSP.
2. The PKSP verifies the public key .
3. The issuer gets a response from the PKSP.
4. The registration is completed.

## Token verification

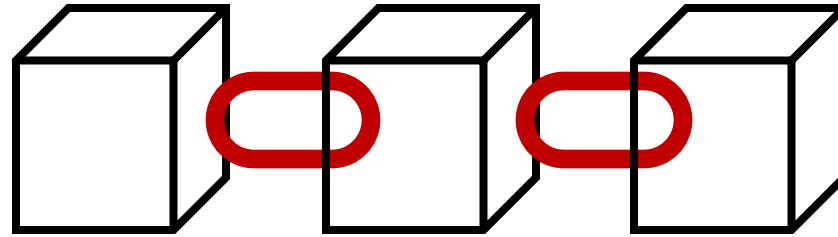
1. Token verification The holder sends the token to the Verifier.
2. The verifier requests the Public Key from the PKSP.
3. The PKSP processes the request and returns the public key.
4. The Verifier uses the public key to verify the token signature.

# Public-Key-Service-Provider

## PKSP



Multi-party consensus based



Immutable and fault-tolerant storage



programmatically-defined  
and automated-executing

# Future work

- PKSP service detailed design
- PKSP ledger detailed design



Any comments and discussions are welcomed

Thank you

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