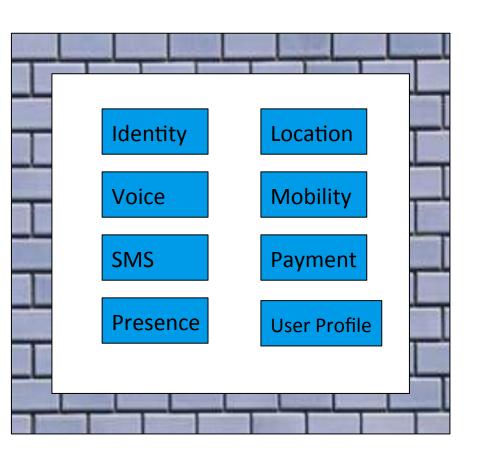
# Federated Cross-Layer Access draft-wei-abfab-fcla-00

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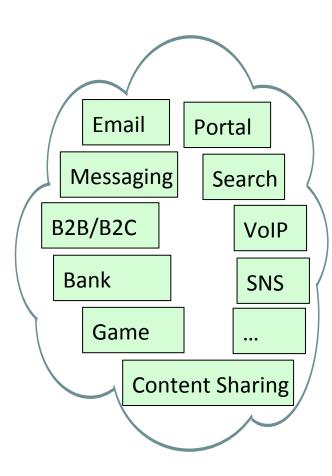
## Motivation

- Telecom operator
  - Have tens of millions of users
  - Provide trusted identity and higher security
  - Provide relative few services
- Service Provider
  - Have limited amount of users
  - Can not assure the security of user identity
  - Provide plenty of services
- User
  - prefer to register fewer accounts in case they remember too many passwords

#### Telecom - "Wall Garden" /Trusted

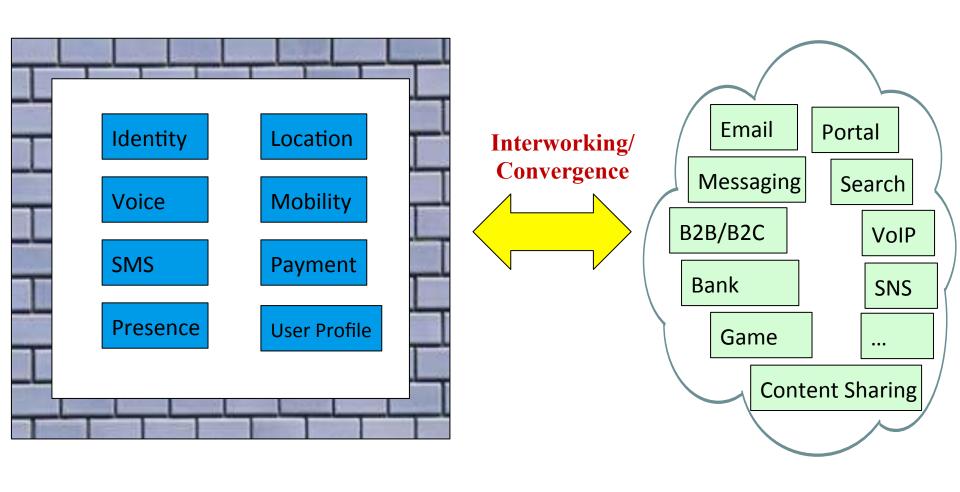


#### <u>Internet – Open/Un-trusted</u>



#### **Telecom – "Wall Garden" / Trusted**

#### <u>Internet – Open/Un-trusted</u>



## Related Work

#### GSMA-IDM

 Address operators' requirements for emerging mobile application (e.g. Single Sign-on, mobile payments)

### Liberty Alliance TelecoSig

 Investigate digital identity grown in both telecom and Internet, propose some use cases and solutions

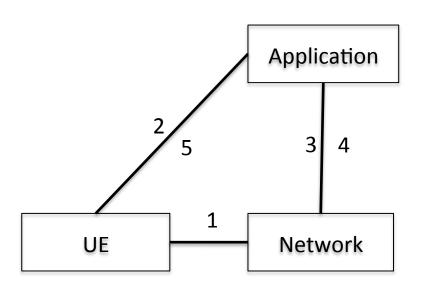
#### IETF abfab

 Develop Use cases, architecture and mechanisms for non-Web federated access

## Idea

- Federated cross-layer access
  - Telecom operator acts as Identity provider (IdP) and Federated with non-Web applications
  - Combine network stratum access and application stratum access

## **Use Case**



- 1. When UE attach the Network, mutual authentication is performed.
- 2. UE visits non-Web Application, e.g Messaging service, VoIP service, or Email service.
- 3. The Application contacts Network to validate the authentication result in the network stratum.
- 4. Network responds to Application with authentication result.
- 5. UE is authorized to access the Application.

## Benefits

User Service Provider Telecom Operator

#### Telecom Operator

- not just providing pipeline for communication, but also providing trusted Identity, mobile payment, security, and sharing user profile.
- become a part of service value chain.

#### Service provider

 focus on core business and reuse capabilities provided by telecom operators without worrying about sources of users.

#### User

seamless service experiences and improve security and privacy.

## Next Step

- Adopt this use case?
- Adopt it as WG draft ?