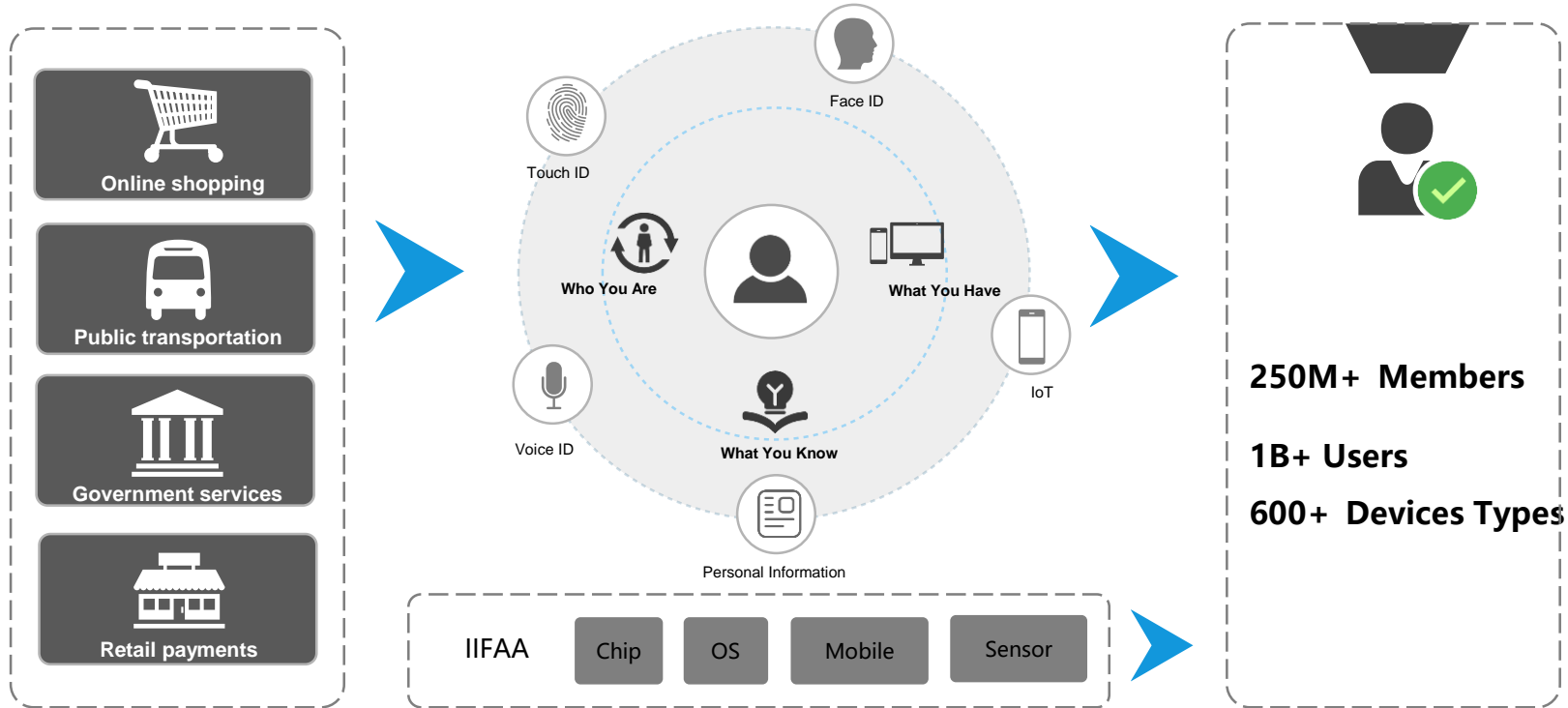


# Digital ID usage-International Internet Finance Authentication Alliance (IIFAA)



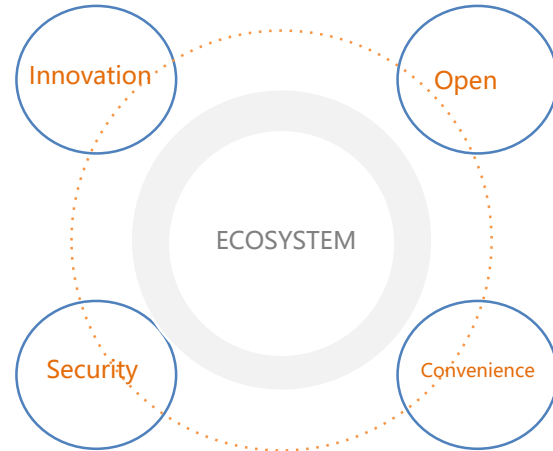
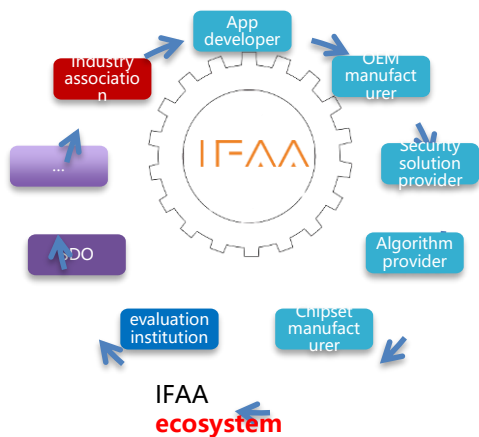
Wenting Chang

# Introduction of Digital identity

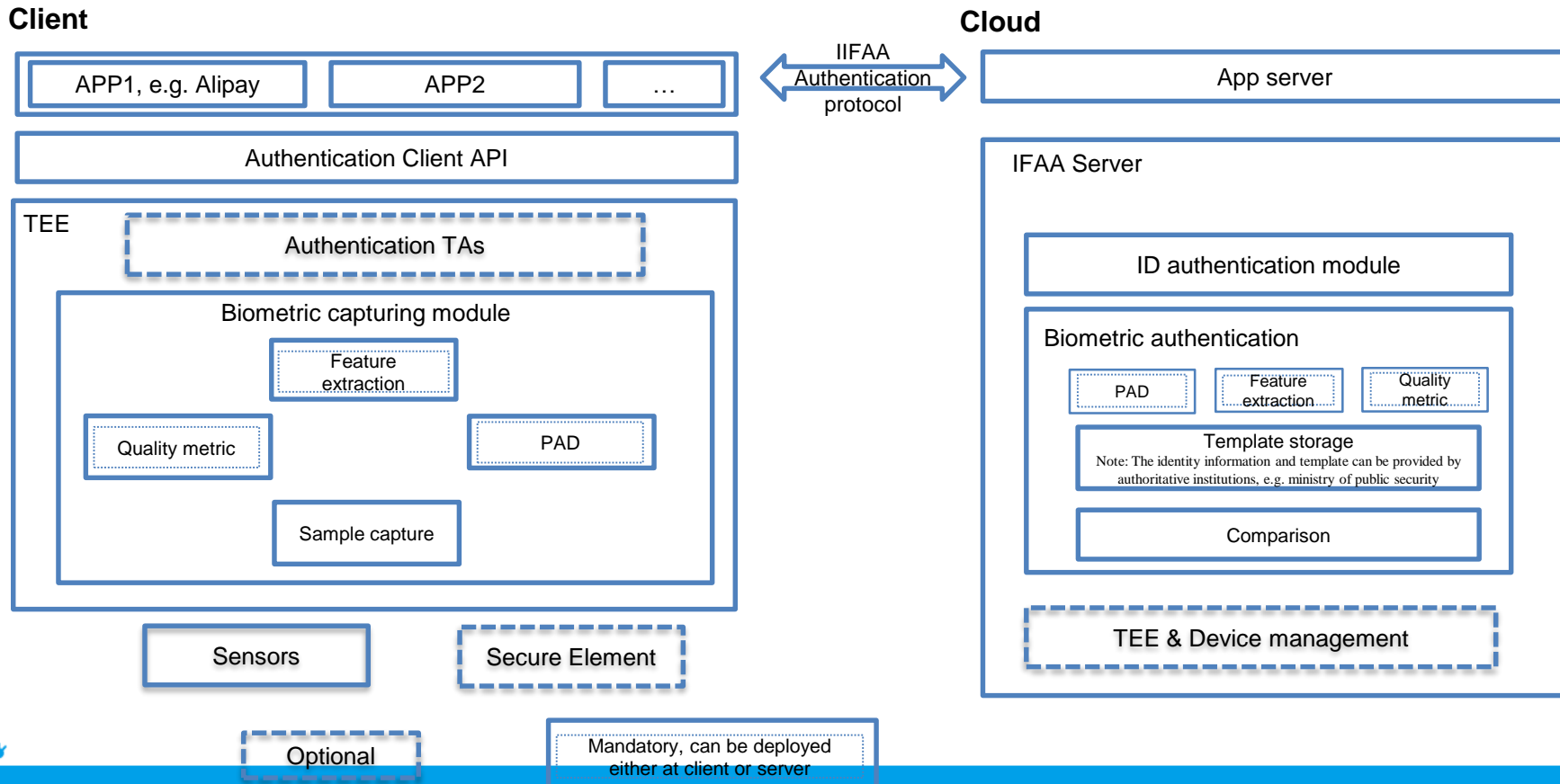


# IIFAA Introduction

- Objective: In order to satisfy the development of industry chain and meet the requirements of financial security, Ant Financial Services Group and industry chain partners established International Internet Financial identity Alliance (IIFAA) in June 2015. IIFAA provides a **neutral**, **convenient** and **secure** authentication methods to support the rapid development of Internet Finance, digital ID authentication inclusive. (<http://ifaa.org.cn>)

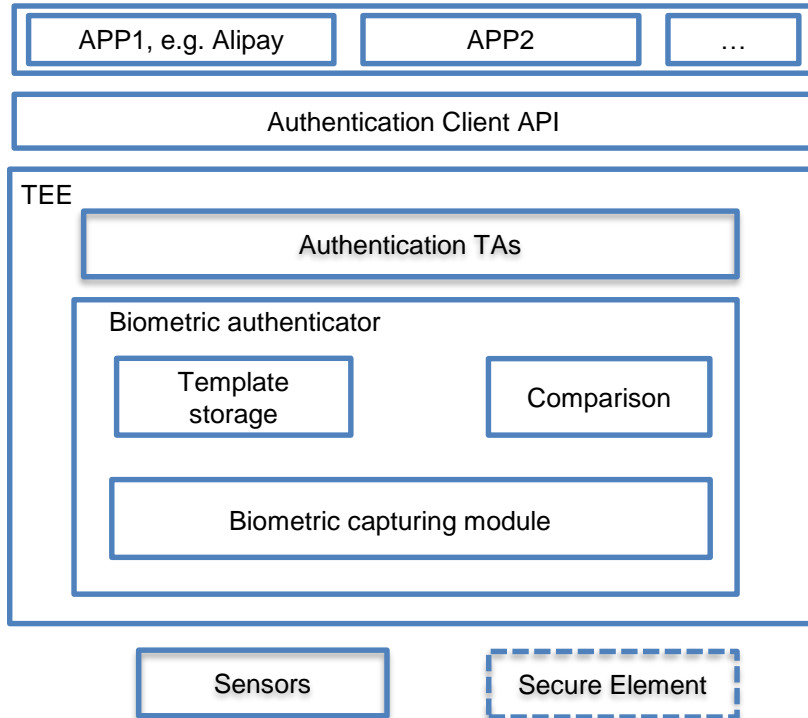


# System architecture – Remote biometric authentication & ID authentication

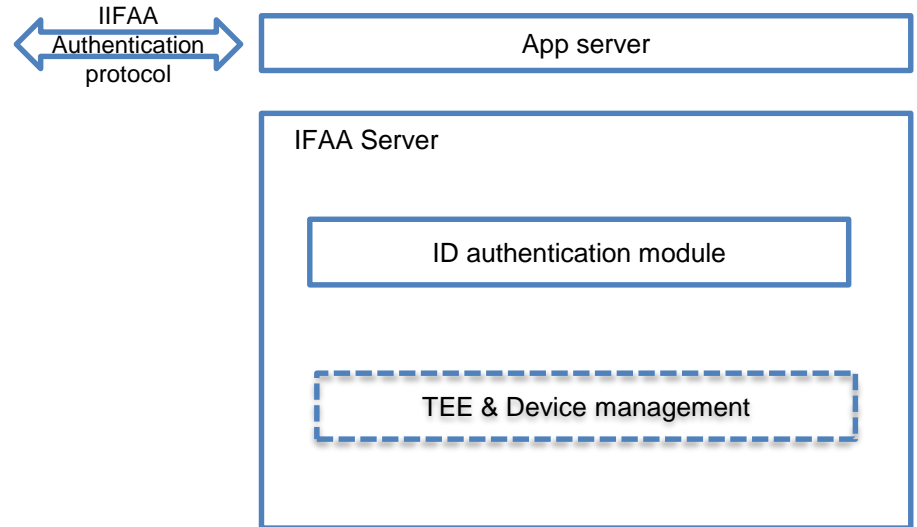


# System architecture – Local biometric authentication & remote ID authentication

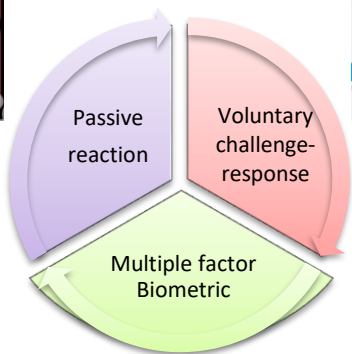
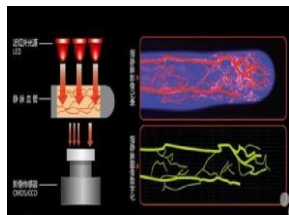
Client



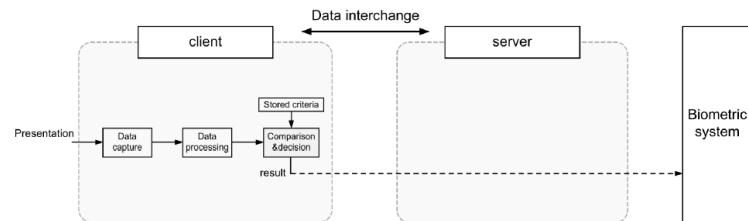
Cloud



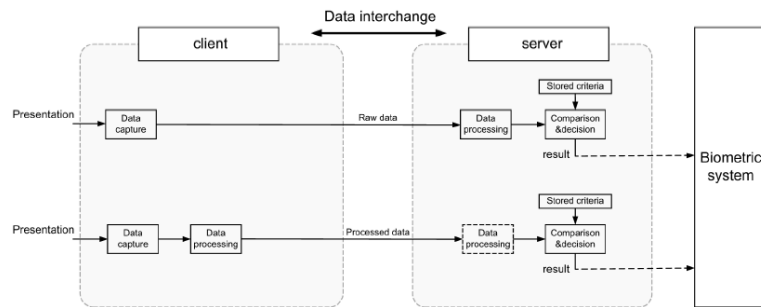
# Liveness detection



## Local Mode

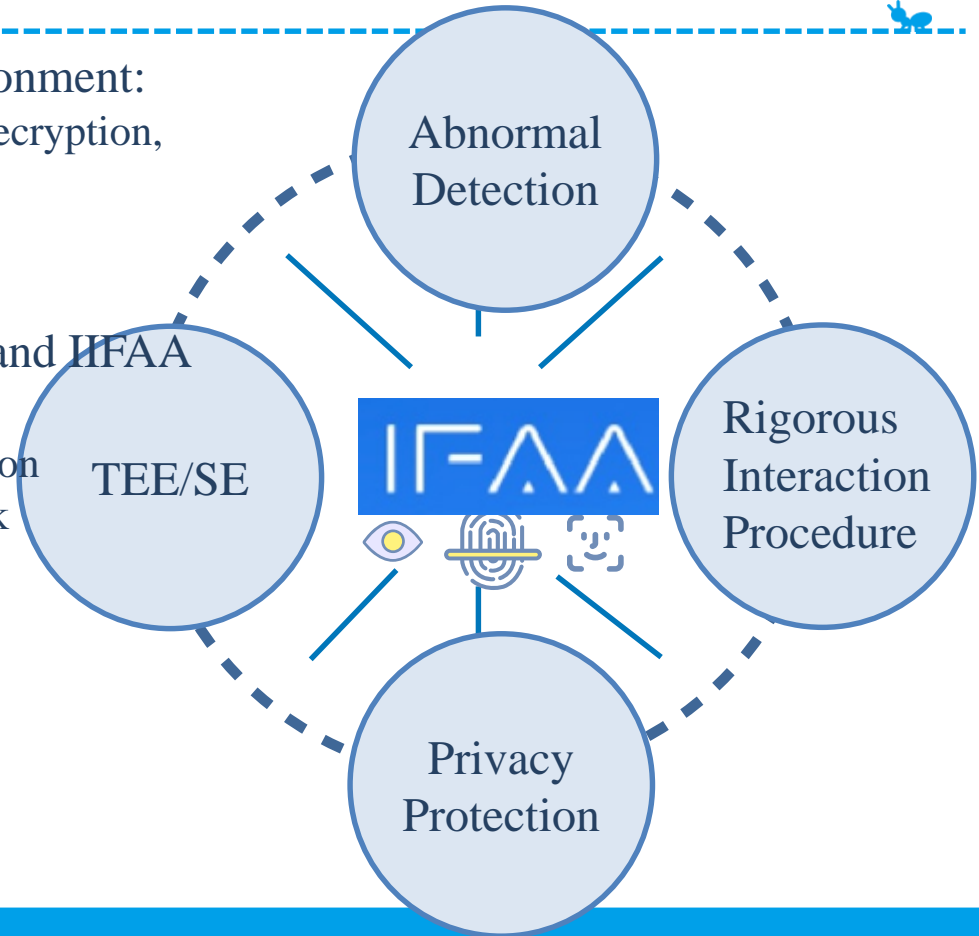


## Remote Mode



# Security

- TEE/SE provide secure execution environment:
  - Biometric authenticator, Encryption, Decryption, Signature
  - TEE, SE
- Security channel between IIFAA client and IIFAA server:
  - Confidentiality, integrity, non-repudiation
  - Timestamp/nonce to avoid replay attack



# Usage in curb CORVID-19

Identity validation in daily punch clock  
and health code illustration



Red

Yellow

Green

Unmanned retail machine to enable  
untouchable shopping



Digital ID for IoT, e.g. car keys





**Thanks!**

