

insight to !nspiration

# Samsung SDS Nexsign

## Solution Overview



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SAMSUNG SDS

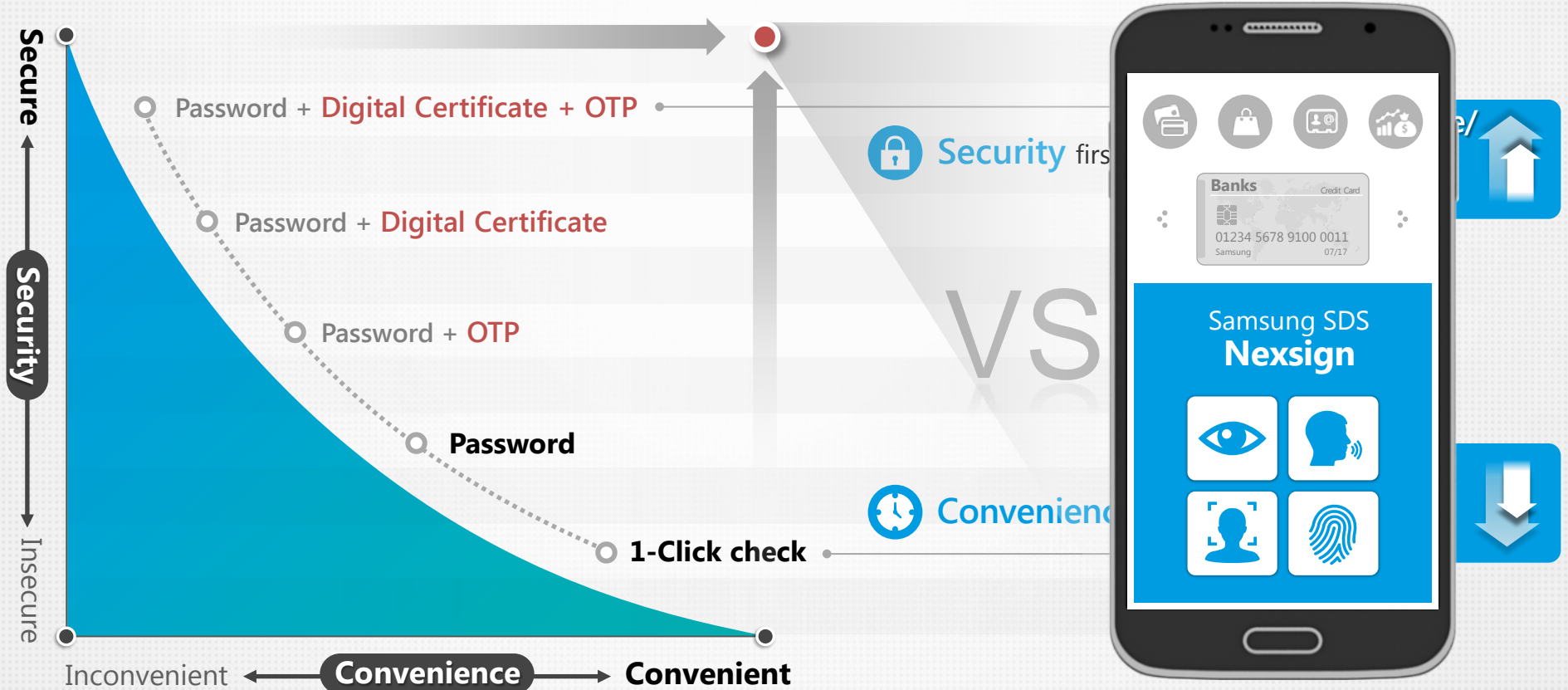


# Fast IDentity Online(FIDO)

“ Birth of a new authentication service ”

## Fast IDentity Online(FIDO)

a PKI-based authentication solution using biometrics and secure storage to enable easy and secure user authentication on smart devices.



# Fast IDentity Online(FIDO)

Biometrics recognition is easy to use and provides strong security

Face Recognition



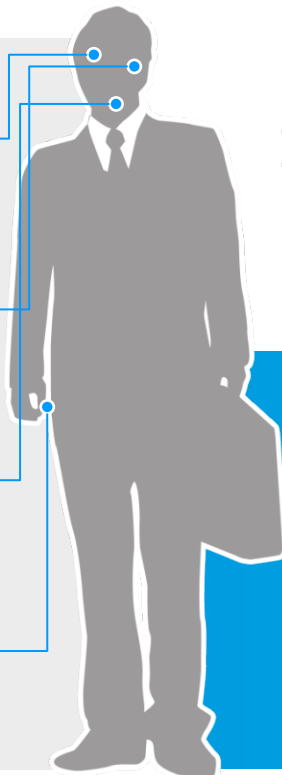
Iris Recognition



Voice Recognition



Fingerprint Recognition



Innovative method for user authentication based on **unique unchangeable** biological traits



Greater Convenience



Tighter Security

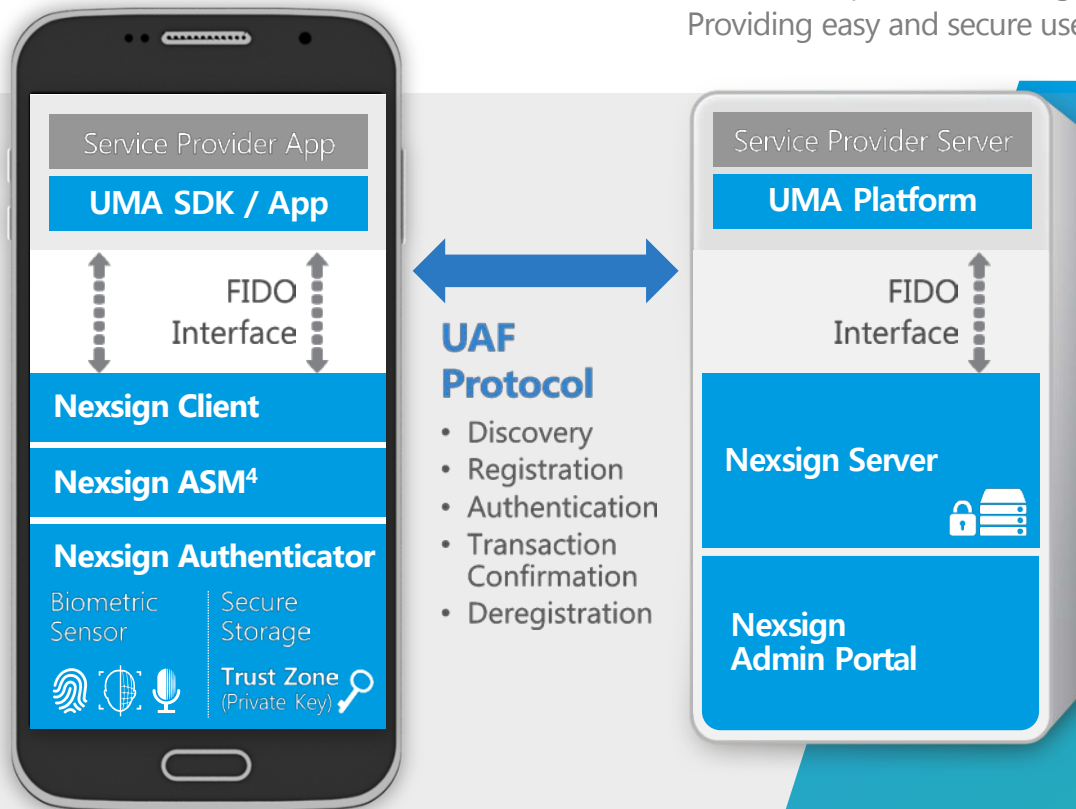




# Samsung SDS Nexsign

## “ Samsung SDS Nexsign Solution ”

FIDO develop base on strengths and customer's requirement ,  
Providing easy and secure user authentication, Personalized experience.



## Key Features

- 1 Compatible, secure and safe solution certified by international standards and CC(Common Criteria)
- 2 Provide the best security environment based on biometrics, PKI and TEE
- 3 Simple and universal user authentication using multiple biometrics and authentication factors
- 4 Customized user authentication experience based on UMA using standard API

<sup>1</sup> PKI: Public Key Infrastructure, Complex authentication system using public key encryption methods

<sup>2</sup> TEE: Trusted Execution Environment, an isolated environment that runs in parallel with the mobile OS, providing security for the rich environment.

<sup>3</sup> UAF: Universal Authentication Framework, which is an international standard authentication process approved by FIDO 1.0.

<sup>4</sup> ASM: Authenticator Specific Module: software interface, which gives a standard way for the authentication device and authentication information

## Cross-industry References

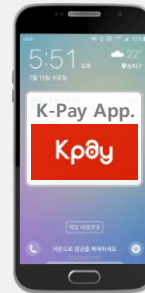
Samsung SDS is the first company in Korea to commercially launch a Nexsign-based payment service, which is being applied to the Samsung Group's intranet system since July 2015.

### Samsung Pay ▶▶▶▶▶



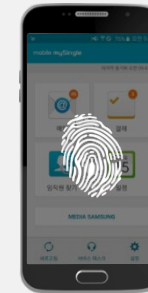
- ✓ Samsung Pay services launched in partnership with Korea's top public key authentication service provider (Korea Information Certificate Authority) (Beta testing in July 2015, official launch in August 2015)

### KPay ▶▶▶▶▶



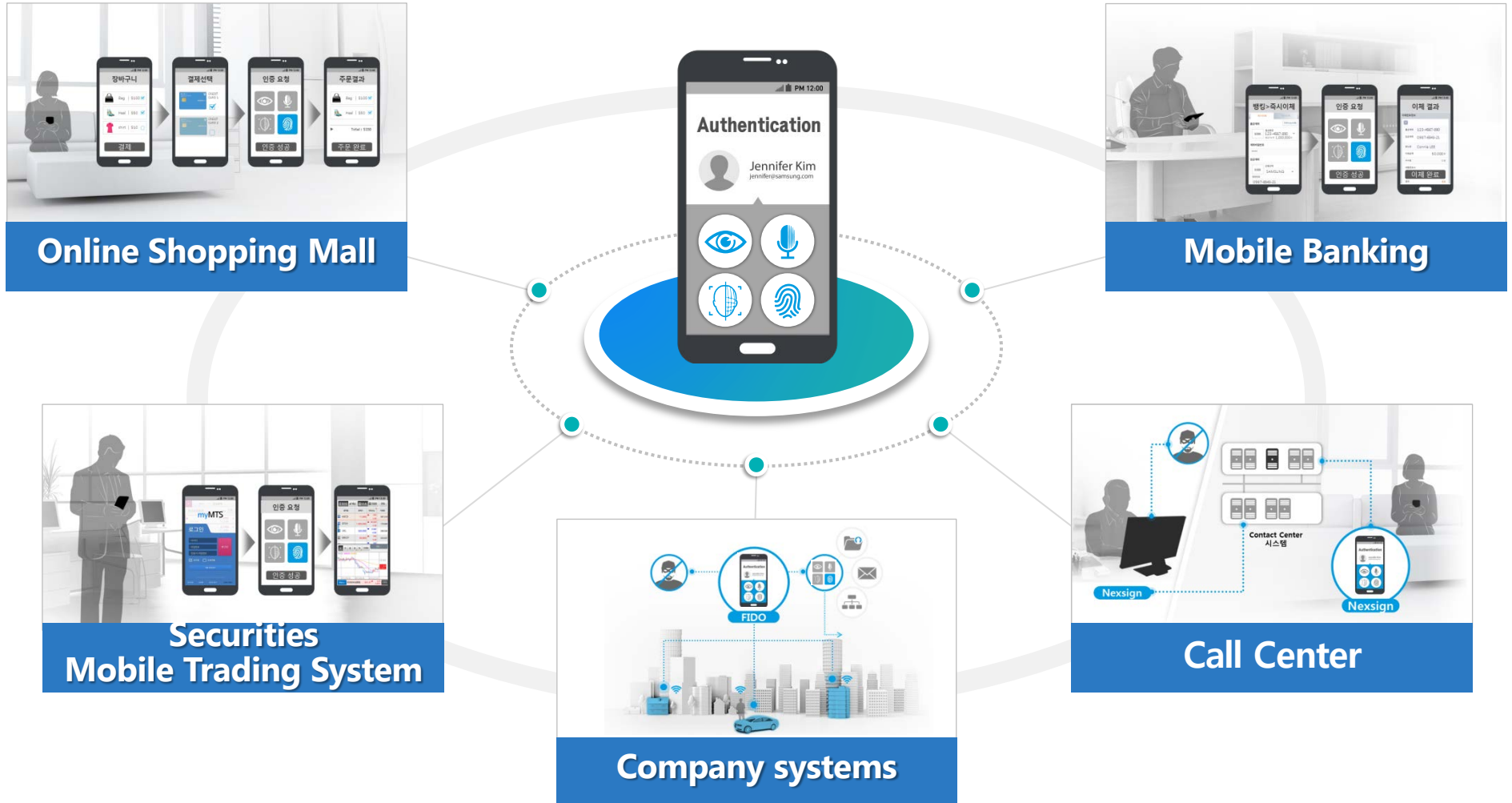
- ✓ Partnership with Korea's top payment gateway provider (KG Group) (March 2015)
  - ✓ Nexsign-based payment Service launched Kpay Application (Official launch in October 2015)
- ※ PG service provider : a third party processing credit card or mobile payment transactions between a shopper and a merchant

### Samsung's Intranet



- ✓ Nexsign authentication service applied to the Samsung Group's Square Portal for unlocking screens or payment transactions (July 2015)

# Use Case

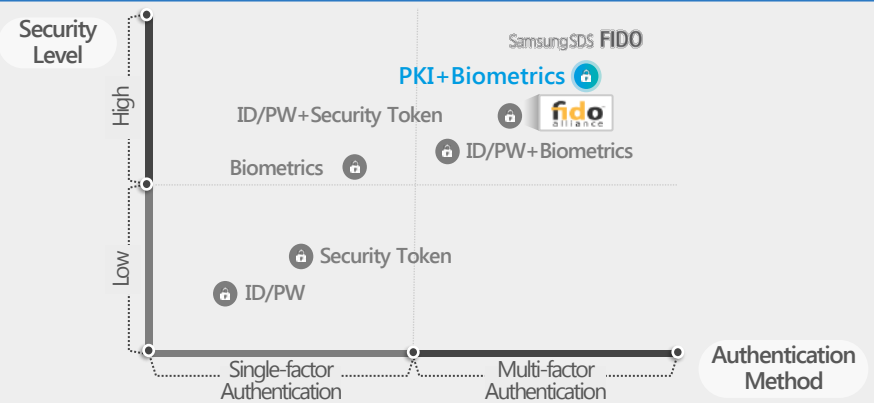


# Key Features

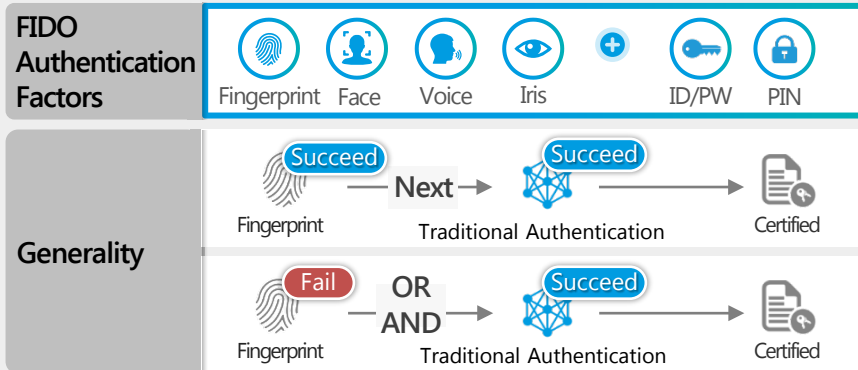
## 1 Secure and interoperable FIDO certified authentication solution



## 2 Highest, multi-factored security level

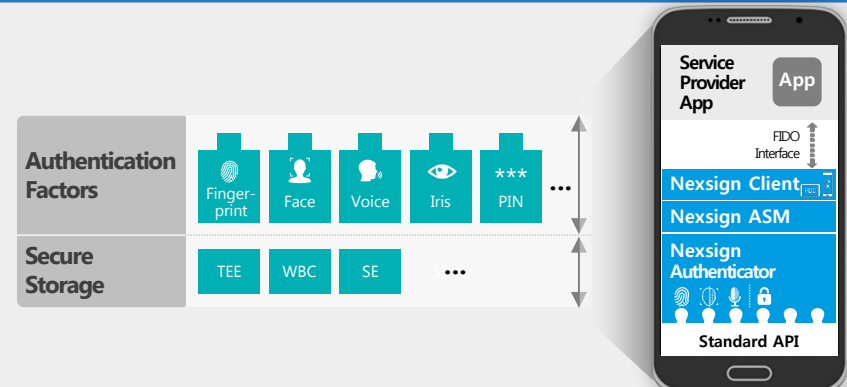


## 3 Multifactor Authentication



※ iris recognition will be introduced later (planned)

## 4 Customized user authentication using standard API



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