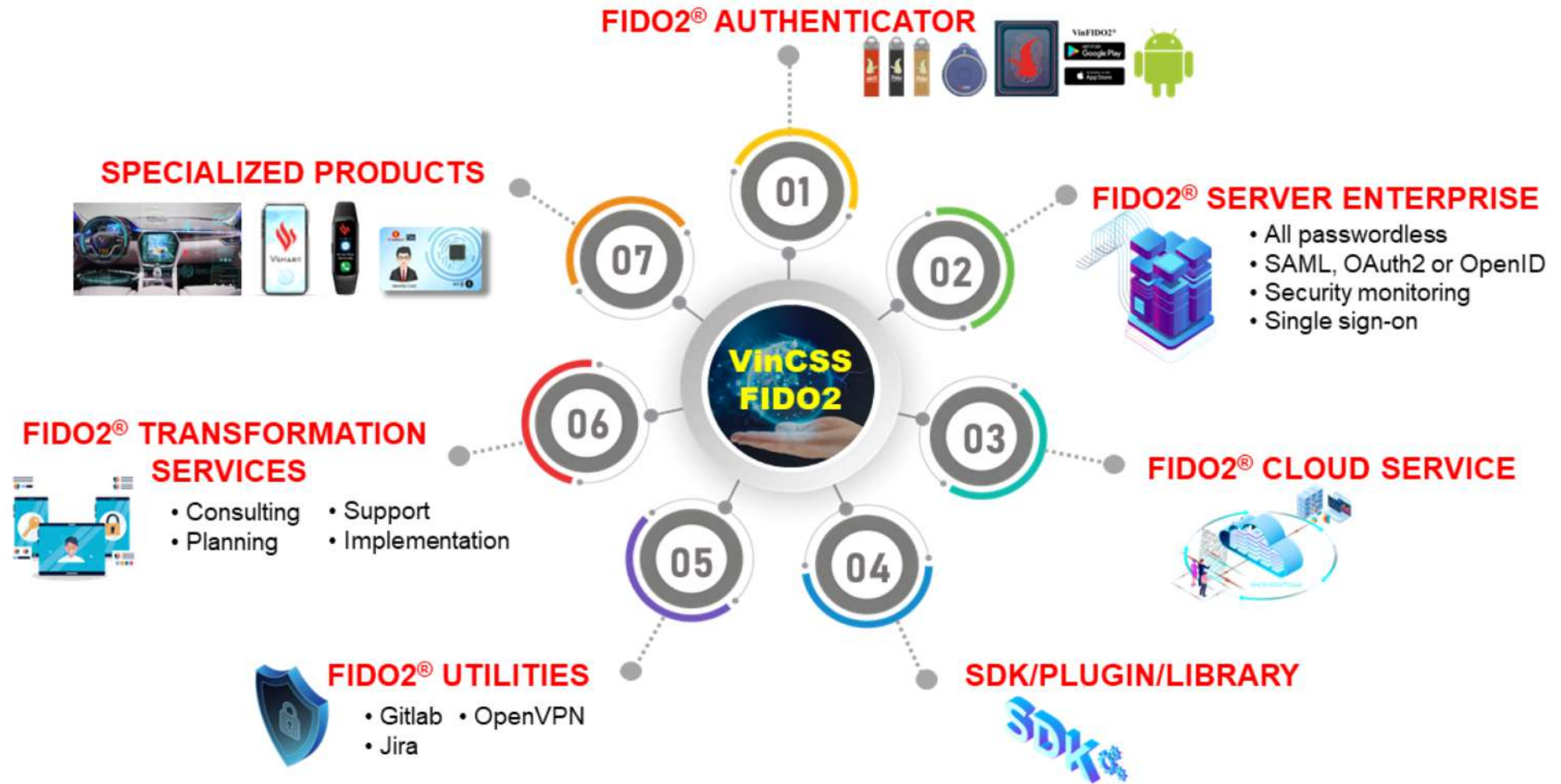




VinCSS FIDO2[®] Ecosystem

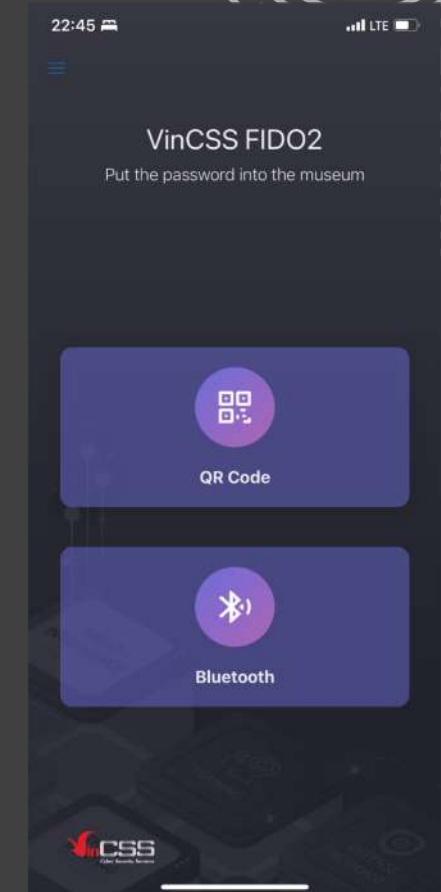




VinCSS FIDO2® Touch



VinCSS FIDO2® Fingerprint



VinCSS FIDO2 Application

VinCSS has successfully researched and developed the VinCSS FIDO2[®] Server Enterprise platform to ensure safety, using FIDO2 protocols to provide strong authentication capabilities.



The system provides a centralized console for authentication key management.



The application can integrate passwordless authentication with the VinCSS FIDO2[®] Server Enterprise platform through the most popular authentication integration standards today including OAuth2, OpenID Connect and SAML2.





Enhance security

Thoroughly address the security weaknesses of password authentication: Phishing, Keylogger, Password sniffing



Increase user experience

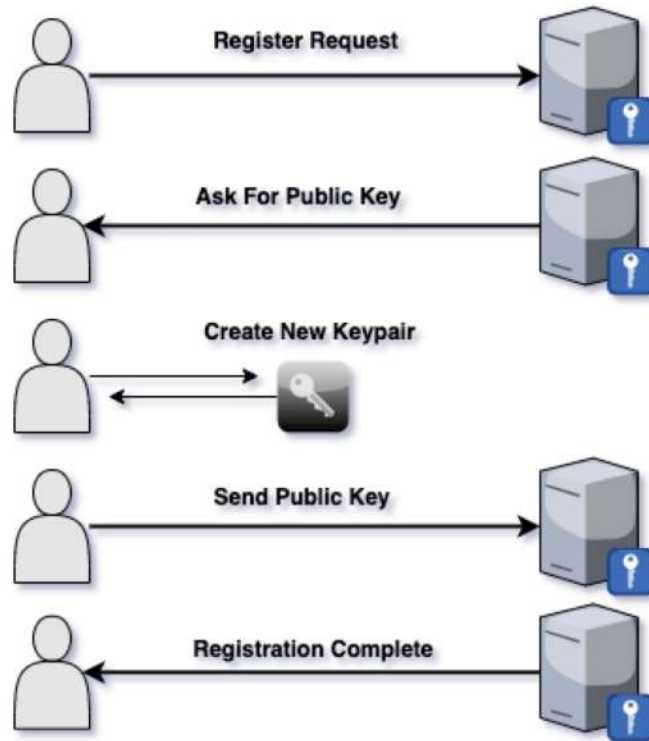
- Easy login
- No need to remember the password.



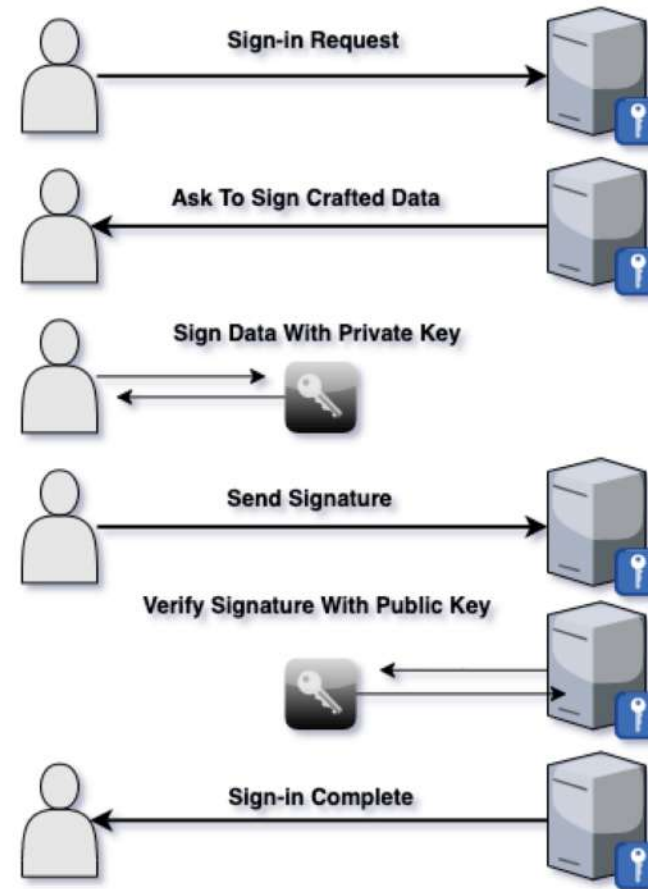
Meet international standards

- NIST
- FIPS
- GDPR
- ...

FIDO2® – Web Authentication (WebAuthn)



Register Flow



Login Flow



ENTERPRISE



**FINANCIAL SERVICES
& PAYMENTS**



**TELECOM
& MOBILE**



GOVERNMENT



**HEALTH CARE
& INSURANCE**



Benefits of VinCSS FIDO2® Server Enterprise



Customization as per the needs of each customer



Access multiple apps with **a single login (SSO)**



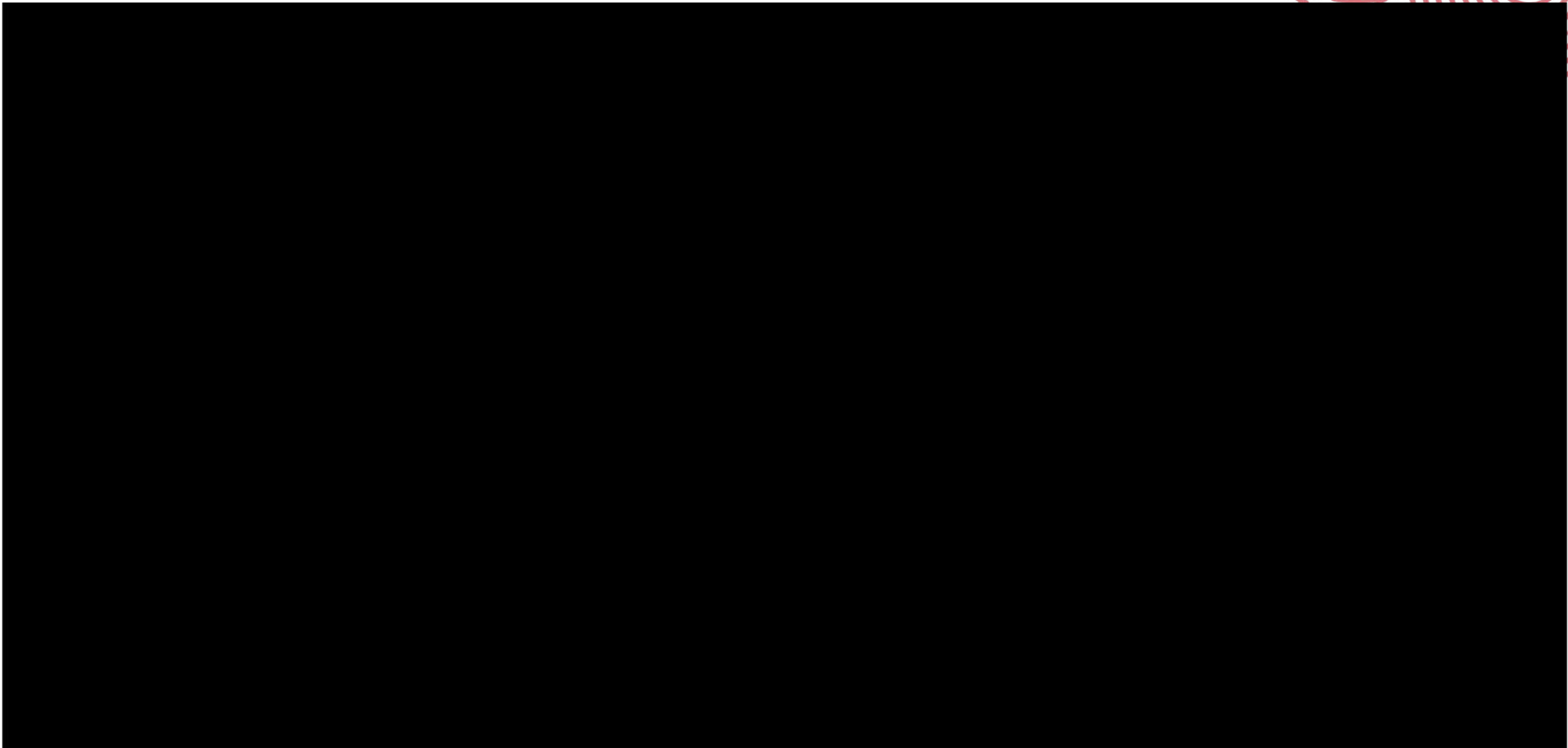
Absolutely secure FIDO2 passwordless authentication

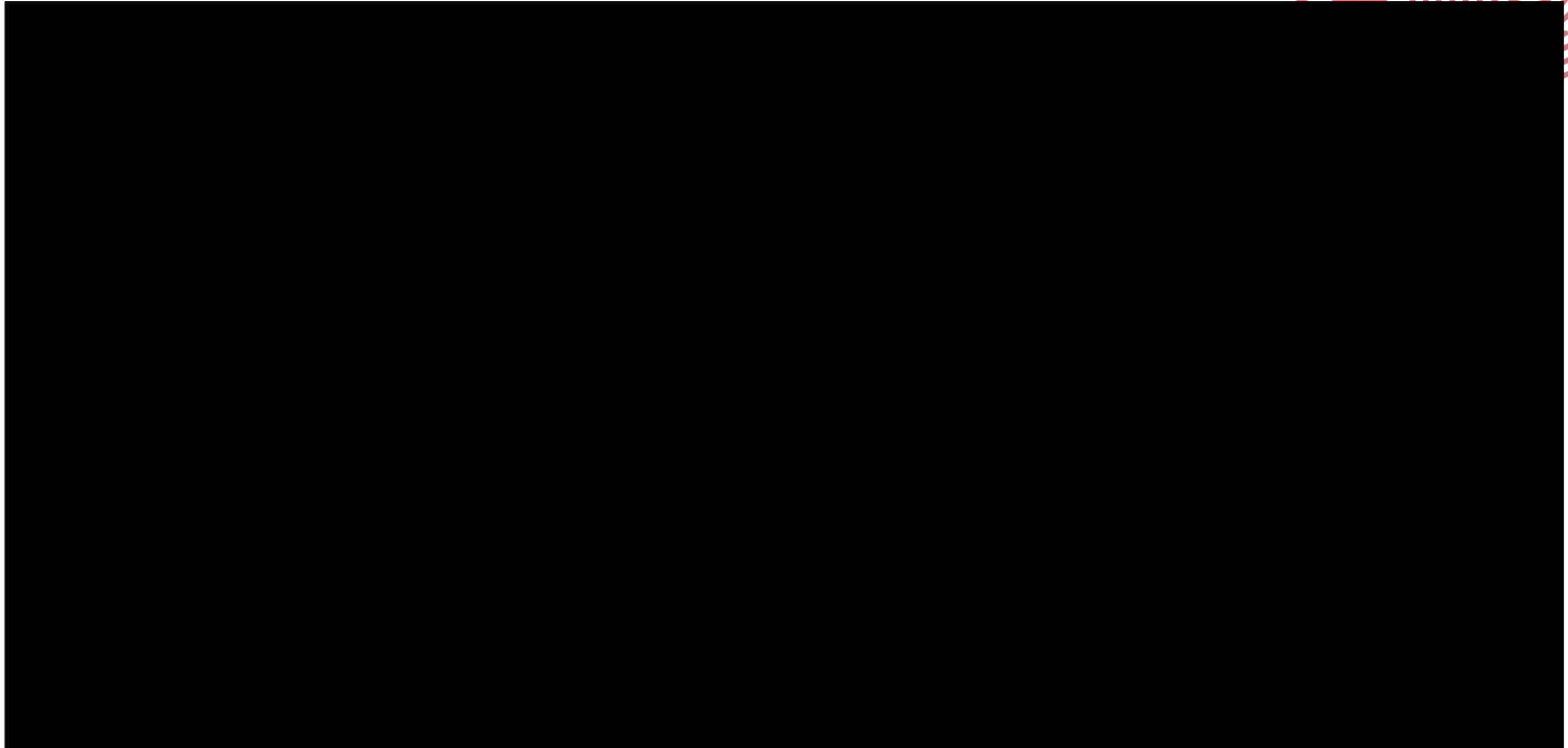


Supervise **activities log** and **anomaly login detection** warning

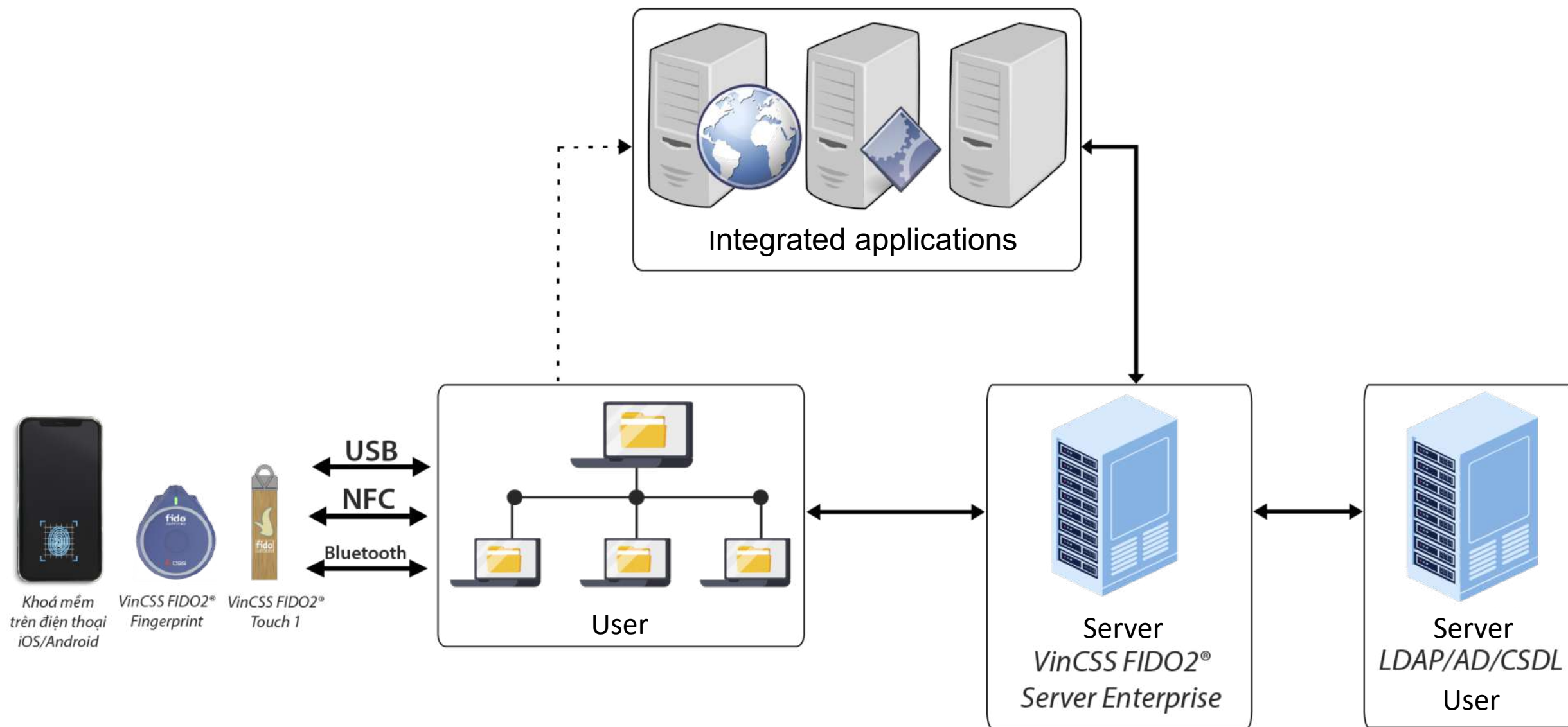


Supports **multiple methods** of sending alerts (Email, IM...)

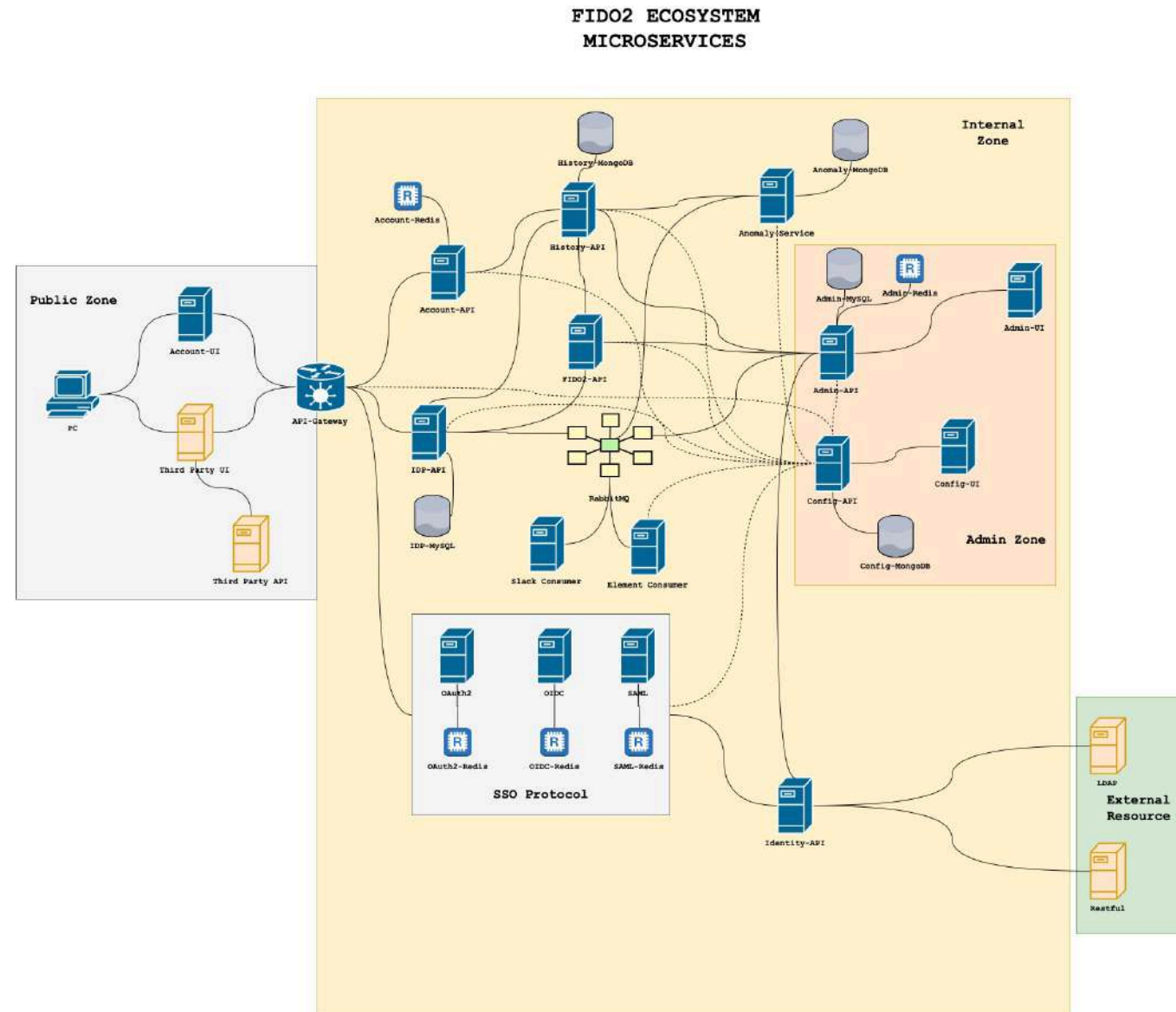




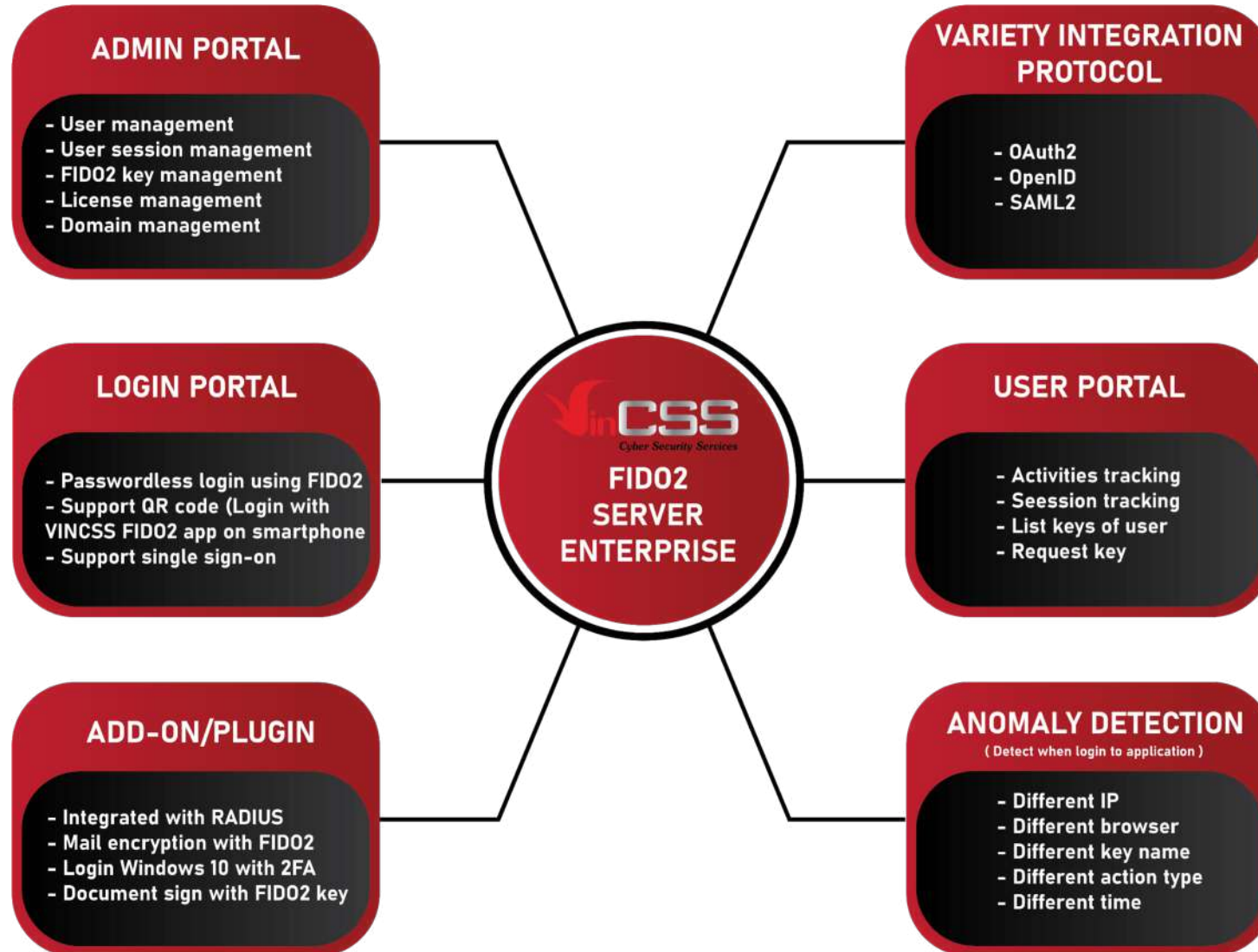
VinCSS FIDO2® Server Enterprise – Deployment architecture

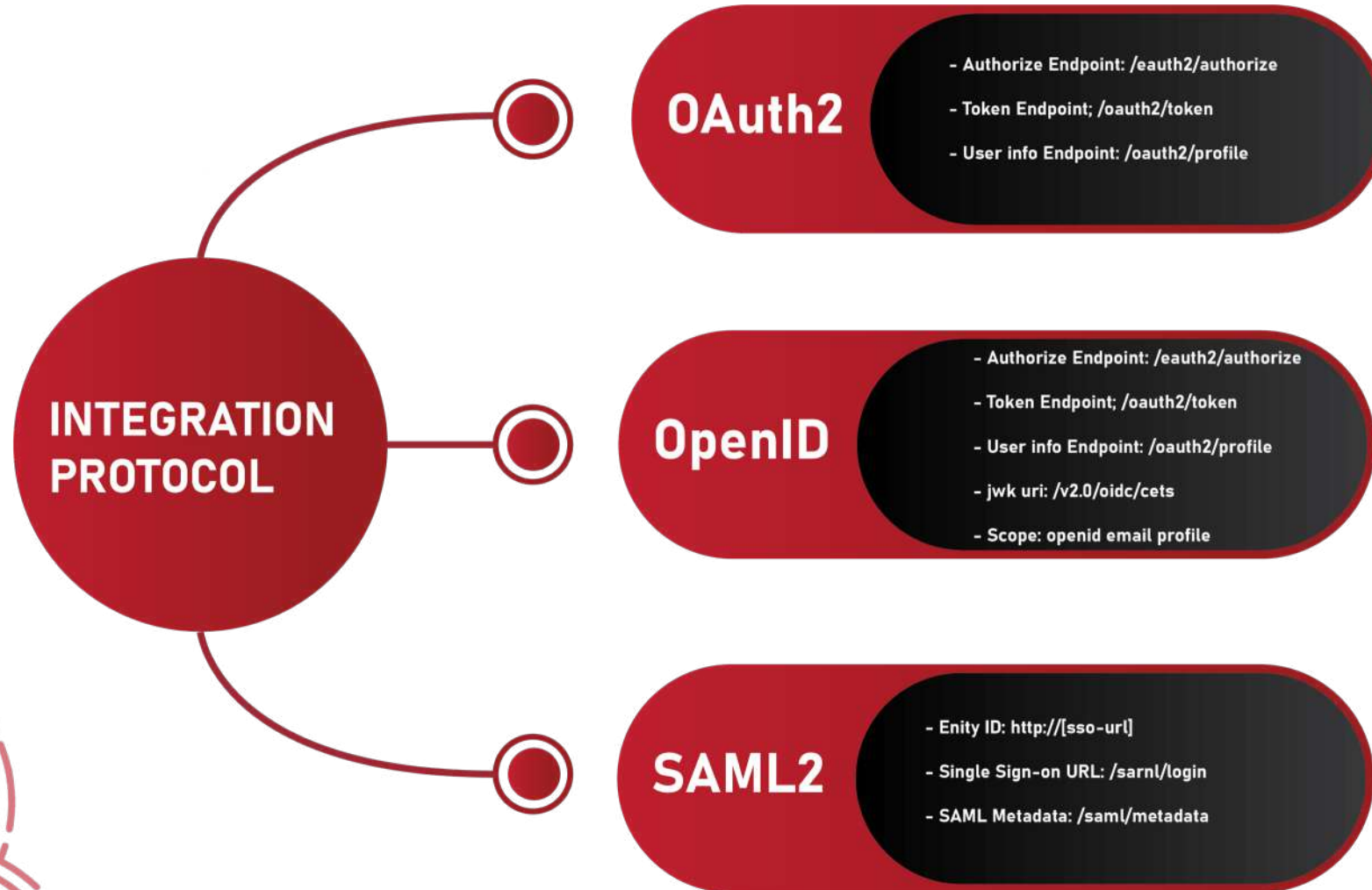


VinCSS FIDO2® Server Enterprise – System architecture



VinCSS FIDO2® Server Enterprise – System Functions





OAUTH2

Register App

Application Name *

test

Something users will recognize and trust. 4 / 50

App Description *

test

This is displayed to all users of your application. 4 / 255

Homepage URL *

https://test.com

The full URL to your application homepage.

OAUTH

OPENID

SAML

☒ Enable OAuth2 Protocol

Authorization callback URL *

https://test.com

Your application's callback URL.

☒ Enforced PKCE

CANCEL

REGISTER

OpenID Connect

Register App

Application Name *

test1

Something users will recognize and trust. 5 / 50

App Description *

test1

This is displayed to all users of your application. 5 / 255

Homepage URL *

https://test1.com

The full URL to your application homepage.

OAUTH

OPENID

SAML

☒ Enable OIDC Protocol

Authorization callback URL *

https://test1.com

Your application's callback URL.

☒ Enforced PKCE

CANCEL

REGISTER

SAML2

Register App

Application Name *

test2

Something users will recognize and trust. 5 / 50

App Description *

test2

This is displayed to all users of your application. 5 / 255

Homepage URL *

https://test2.com

The full URL to your application homepage.

OAUTH

OPENID

SAML

☒ Enable SAML Protocol

Issuer URL *

Issuer URL

Metadata URL *

Metadata URL

Service provider mode

Service provider mode

Metadata

Metadata

CANCEL

REGISTER

This app requires approval
Do you want to request for approval?

Reason

Request Cancel

 Sign Document

Supported files: PDF, DOCX, XLSX, PPTX

Choose File Product process-signed-by-VinCSS-FIDO2.pptx

Sign file Verify a signed file

Verify Success!
Signed by: [redacted]
Signed date: 2021-11-26 9:15:19

Requests: PENDING APPROVED DECLINED/CANCELED/INVALID

Created At ↓	User	Request	AppName	Reason	Need approval	Action
2021-11-26 6:34:01	[redacted]	IP: [redacted] User Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/96.0.4664.55 Safari/537.36	App test approval	Test	Minimum total 2 approvals	APPROVE DENY
2021-11-12 14:07:52	[redacted]	IP: [redacted] User Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/95.0.4638.69 Safari/537.36	App test approval	test	Minimum total 2 approvals	APPROVE DENY



10:15 LTE

< Xác nhận giao dịch

Vì của tôi
Số dư (VND)
.....

XÁC NHẬN THÔNG TIN

Số điện thoại
.....

Chủ Ví nhận tiền
.....

Số tiền (VND) 100.000

Phí giao dịch (VND) Miễn phí

Nội dung
..... chuyển tiền

Tổng tiền (VND) 100.000

Xác nhận

10:15 LTE

< Xác nhận giao dịch

Nhập mã PIN

Quý khách vui lòng nhập mã PIN để xác nhận giao dịch

.....

Tính năng thanh toán sẽ bị khóa nếu Quý khách nhập sai mã PIN 5 lần liên tiếp.

10:15 LTE

Xác thực giao dịch

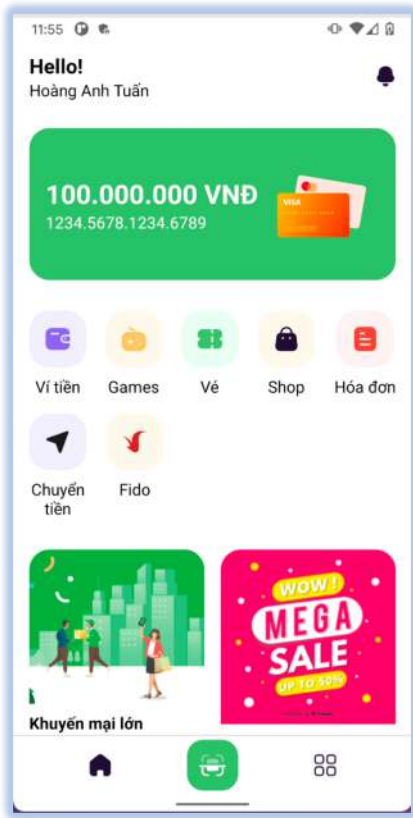
Mã xác thực giao dịch bằng Soft OTP của Quý khách được hiển thị dưới đây. Vui lòng ấn xác nhận để tiếp tục giao dịch

Hiệu lực của mã OTP: 28 giây

.....

Xác nhận

1



2



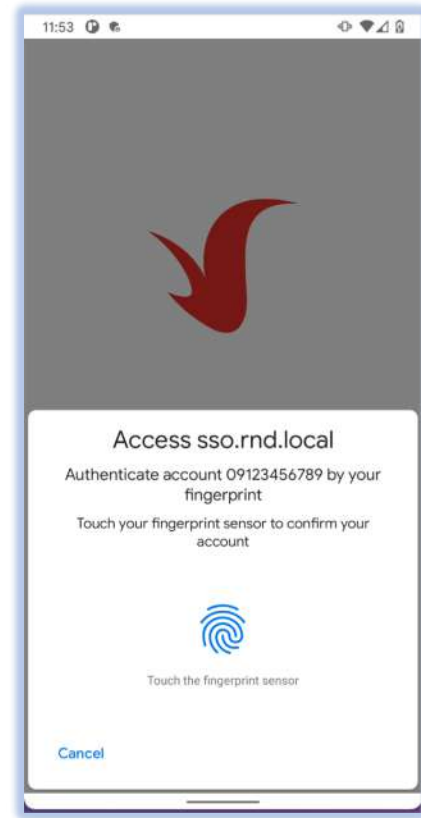
3



4



5



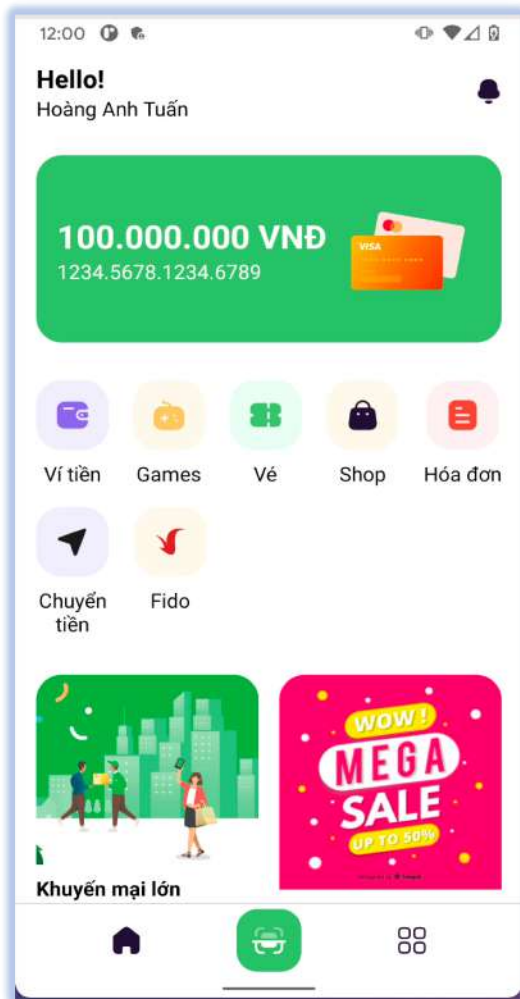
Mobile Apps – Demo register for FIDO® key



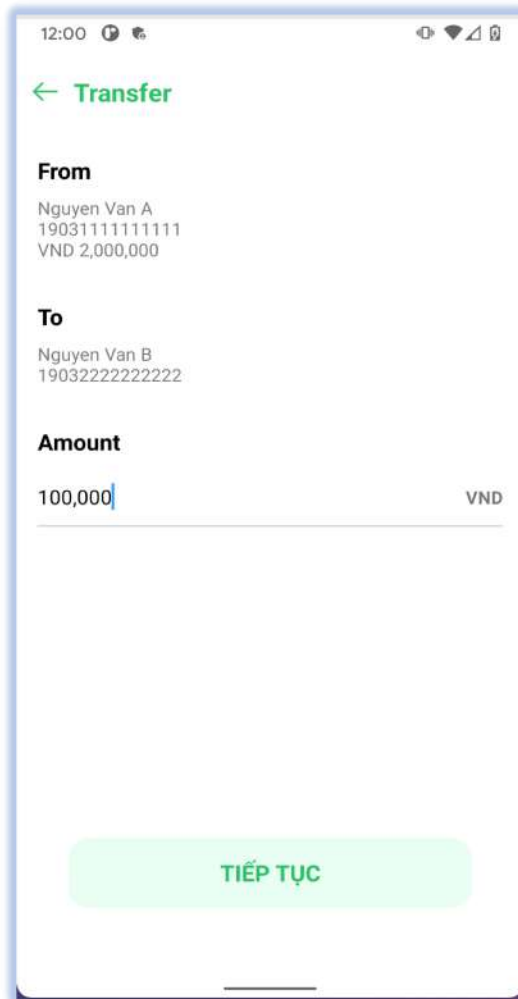
Register FIDO2 softkey



Register FIDO2 Fingerprint key



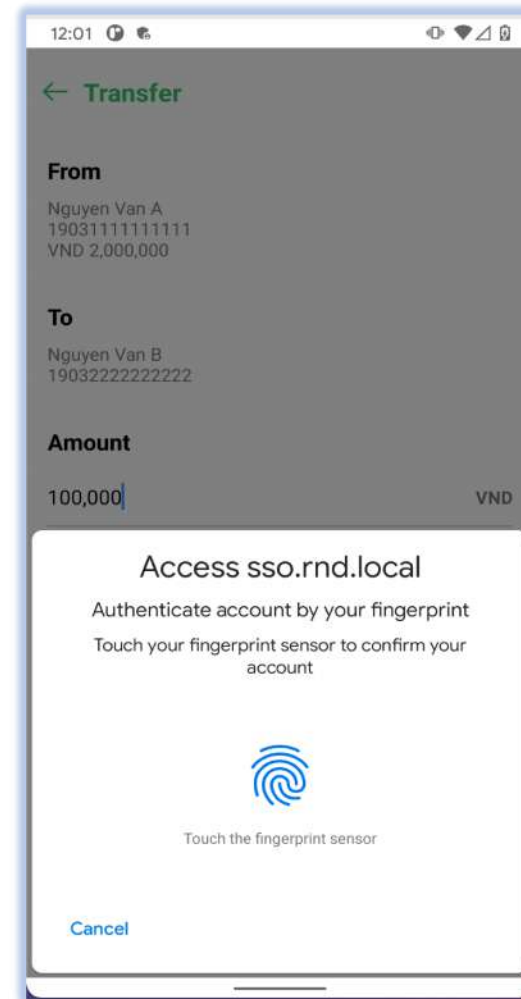
1



2

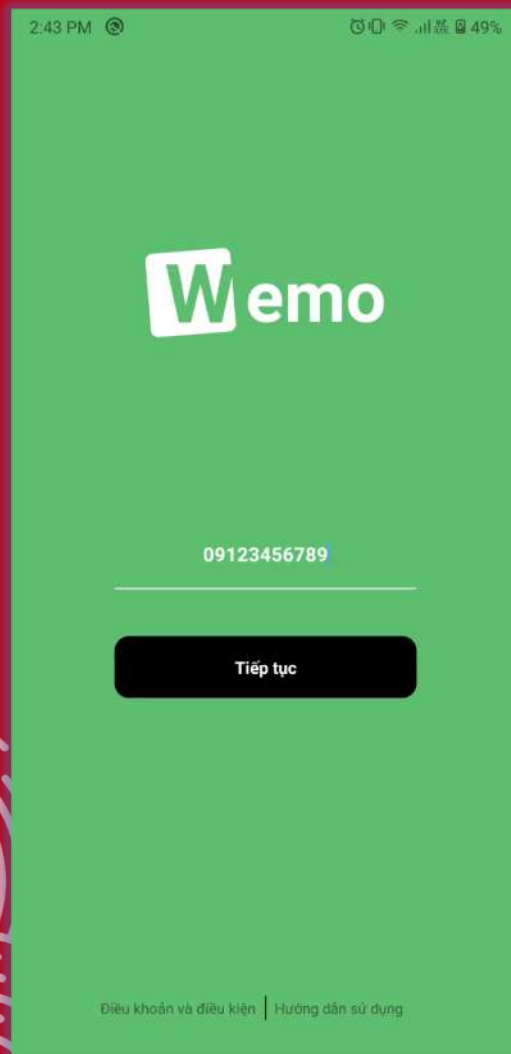


3

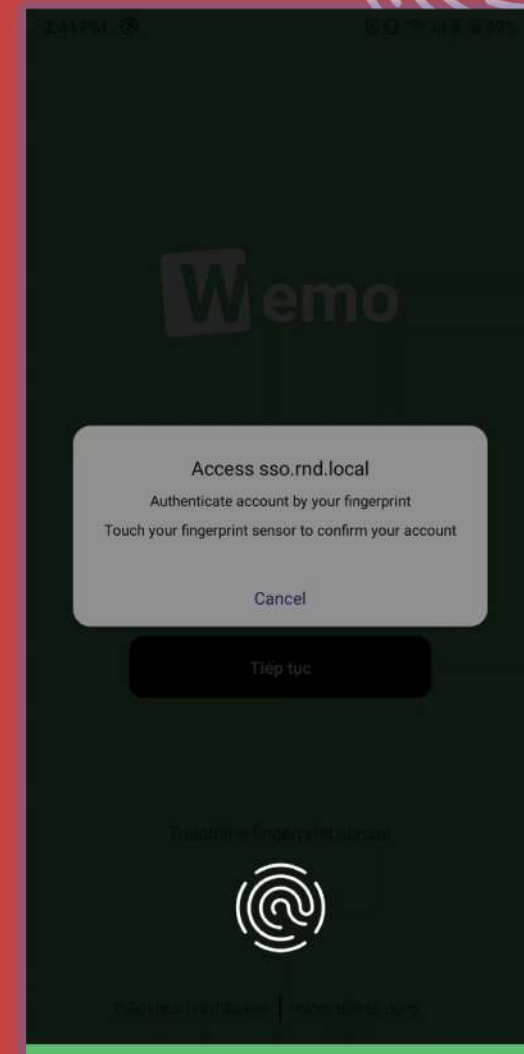


4

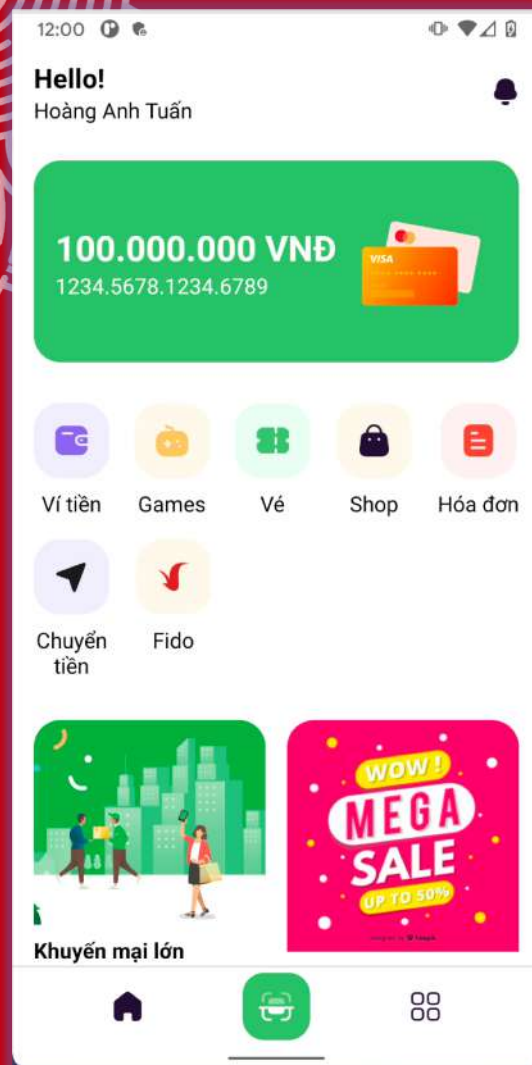
1



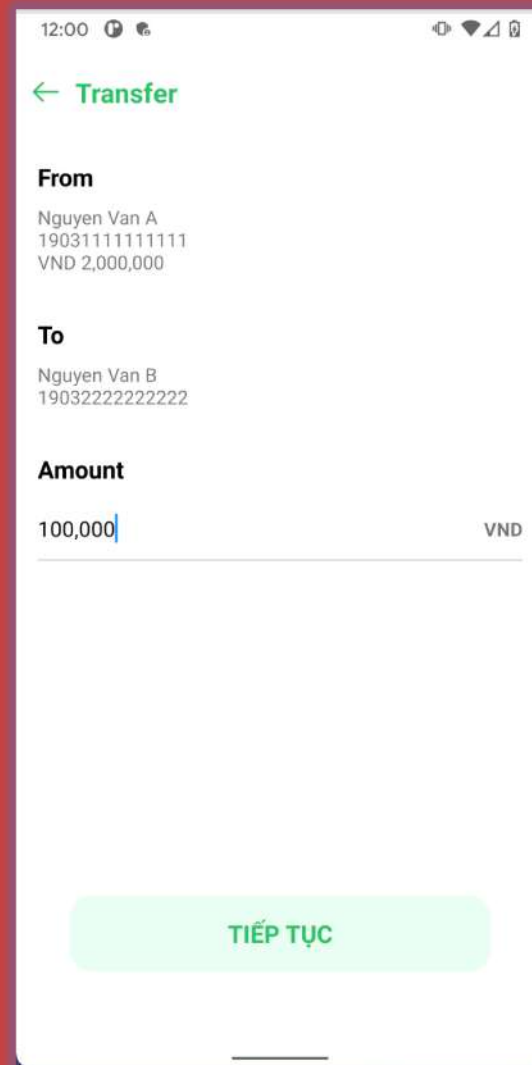
2



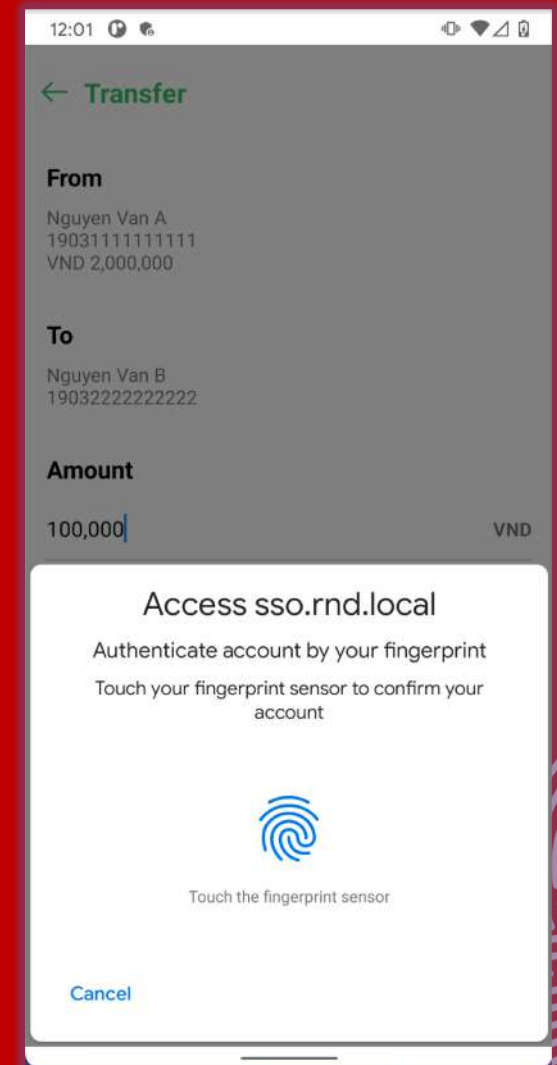
1



2



3



Mobile Apps – Demo trade on FIDO2®

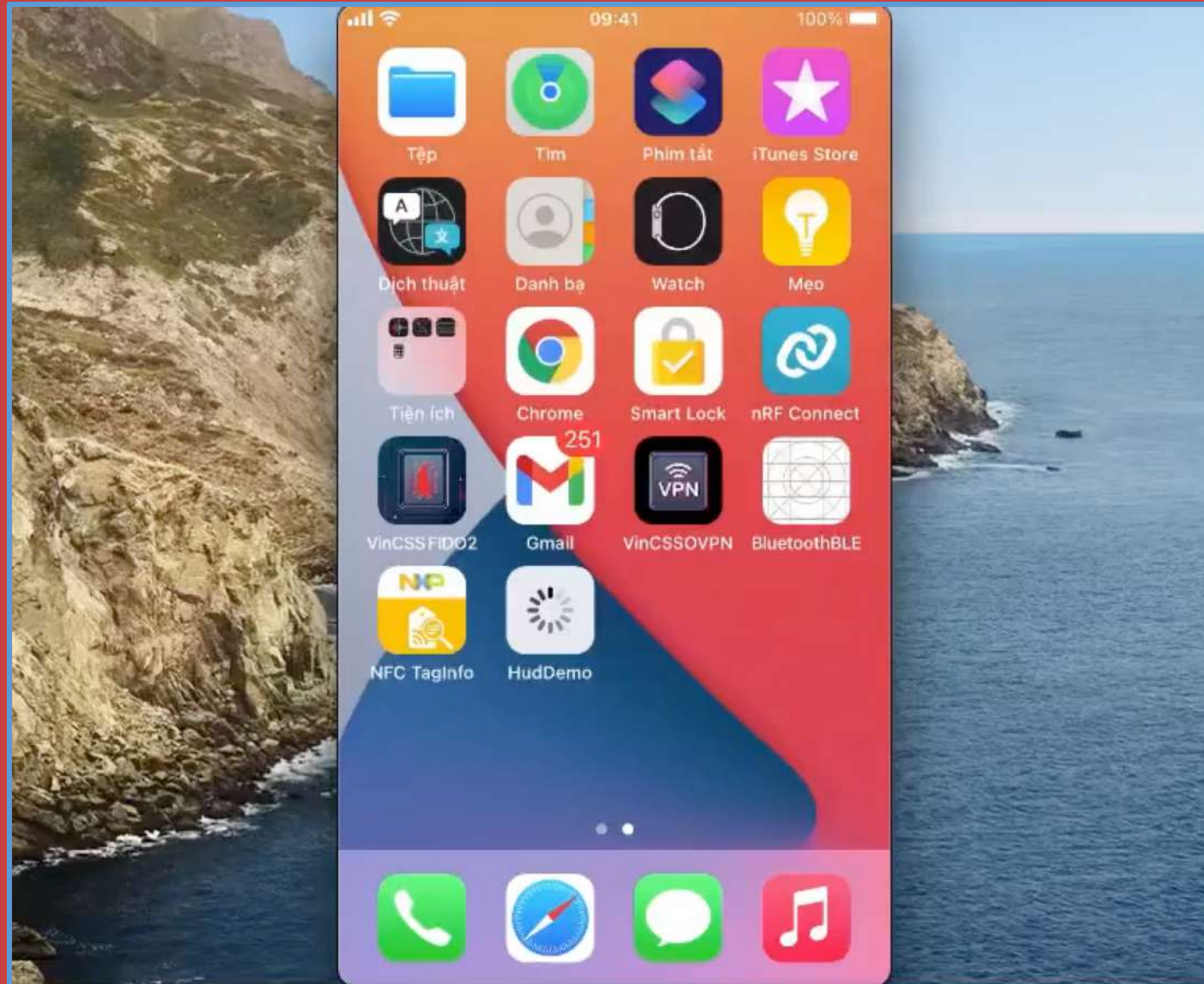


Trade by FIDO2® softkey



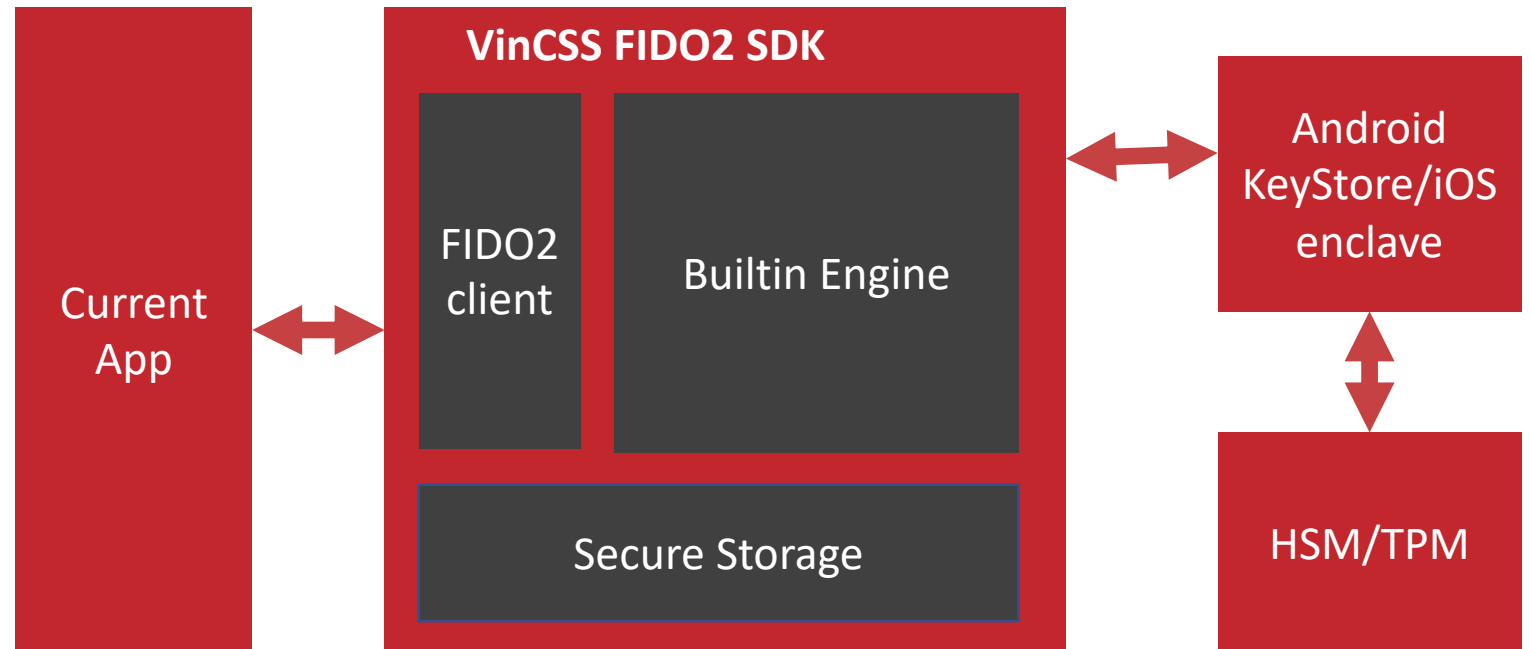
Trade by FIDO2® Fingerprint key

Mobile Apps – The application has integrated FIDO2®

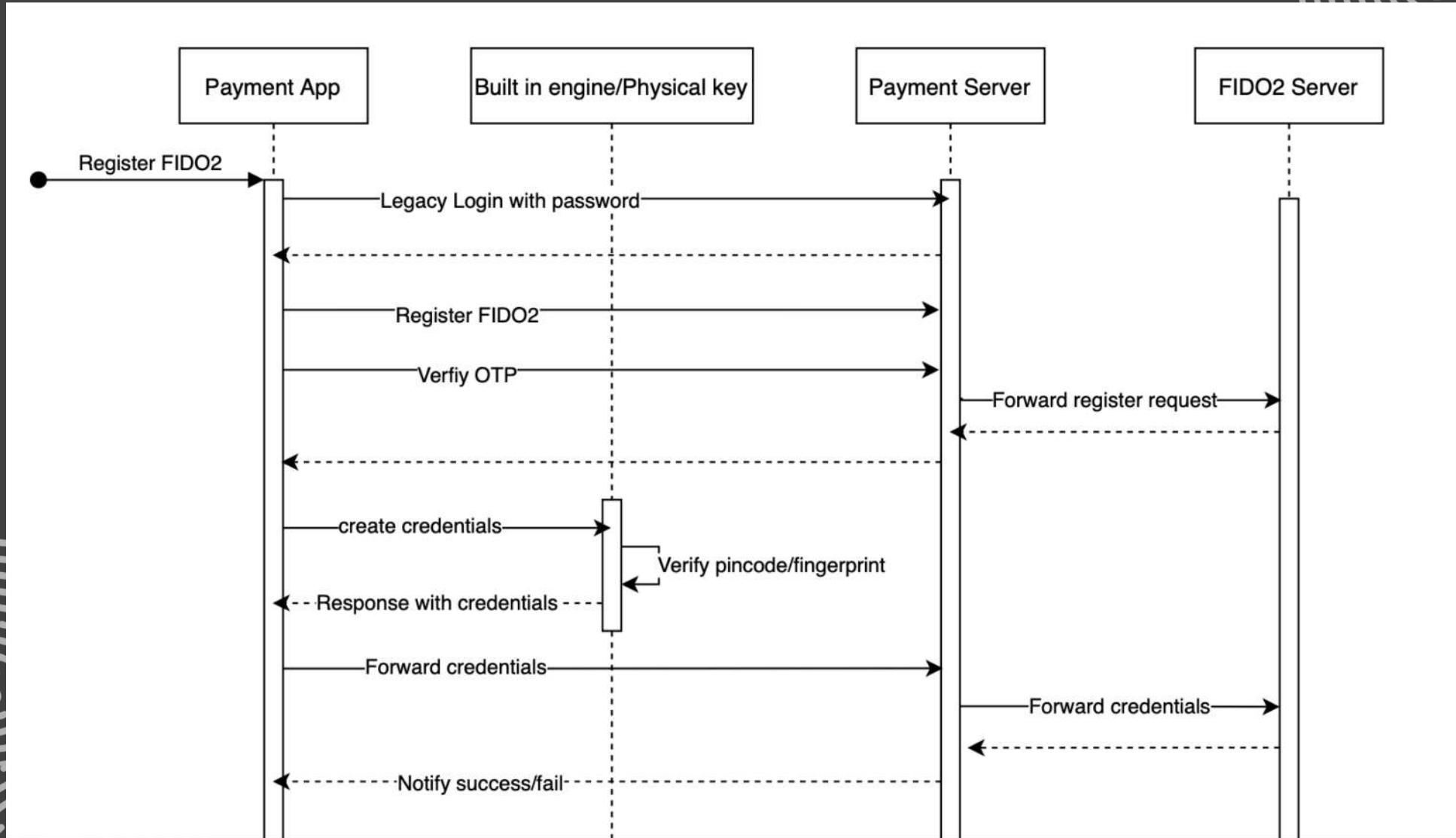


- Keys/encryption keys pairs will be stored through the Android KeyStore/iOS enclave.
- Other data (username, counter, alias..) is stored encrypted in SecureStorage.
- The FIDO2 client module communicates with the Built-in engine or with an external physical key via USB/NFC/BLE

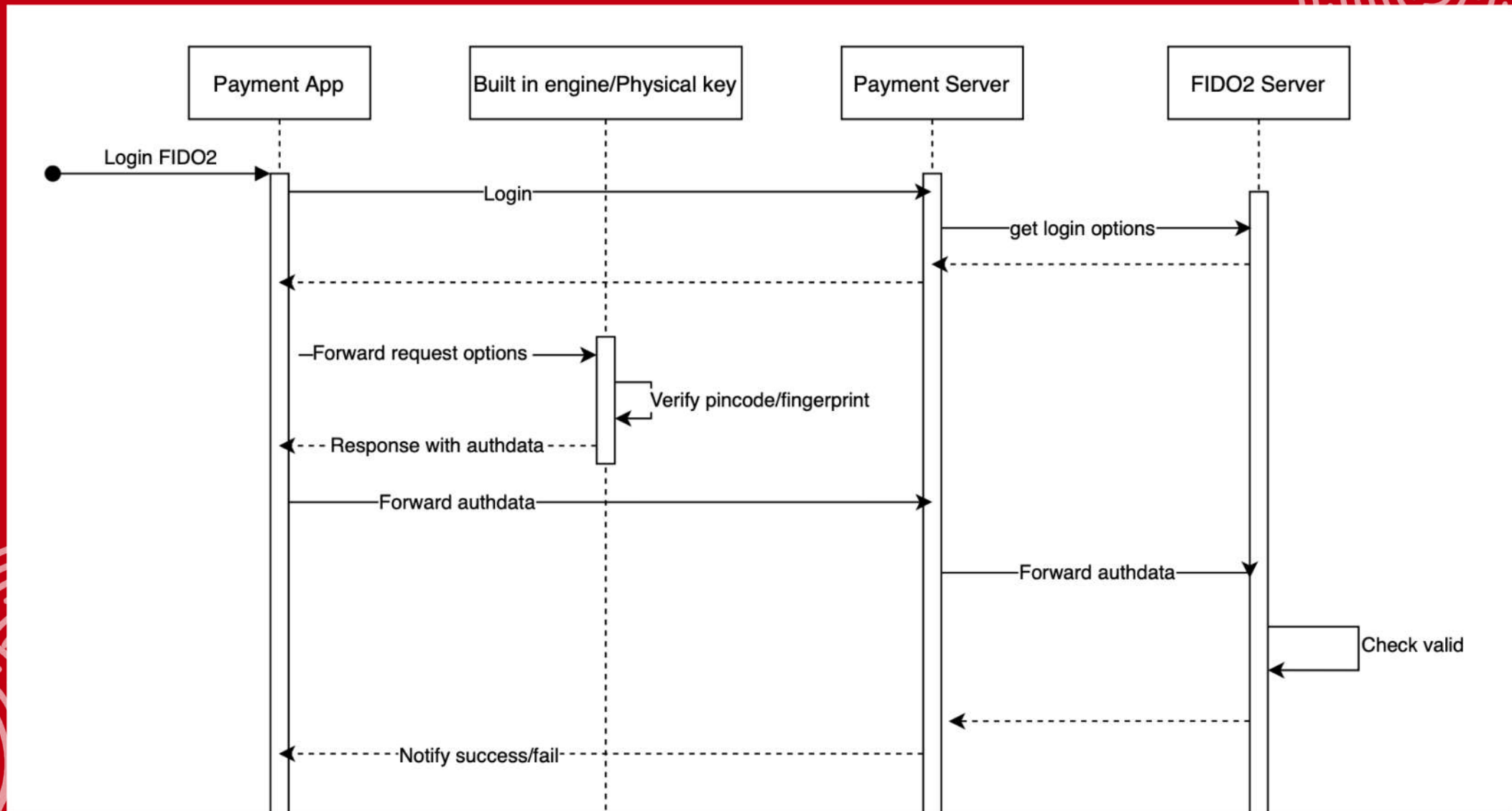
Android/iOS



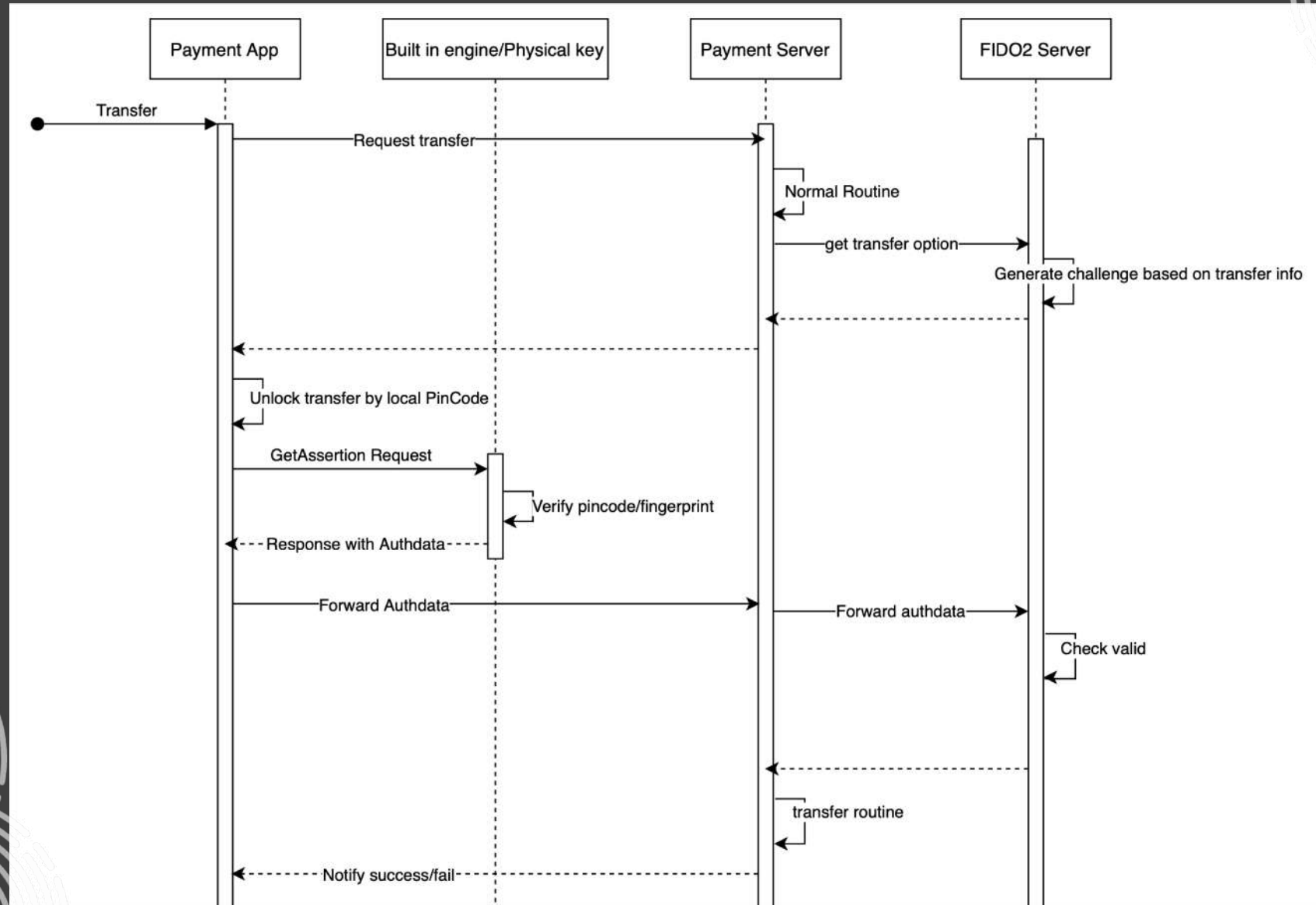
FIDO2® for Mobile Apps - Integrated model



FIDO2[®] for Mobile Apps - Integrated model



FIDO2® for Mobile Apps - Integrated model



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Thank you