Biometric Authentication from DOCOMO

May 26, 2015

Seiji Maruyama

Senior Vice President, Managing Director of Product Department
• Biometric Authentication in 2015 Summer Lineup

• Adoption of FIDO Specification and Joining the FIDO Alliance

• DOCOMO’s Vision of Biometric Authentication
Biometric Authentication in 2015 Summer Lineup
New Devices with Biometric Authentication

Iris recognition: one model

*Arrows NX F-04G*
(On sale from May 28)

Fingerprint authentication: three models

*Galaxy S6 edge SC-04G*
(On sale now)

*Galaxy S6 SC-05G*
(On sale now)

*AQUOS ZETA SH-03G*
(On sale from May 28)
Online Authentication for DOCOMO Services

Online authentication using biometric information:
Authentication for docomo ID and carrier billing payments
Commercial Services from Tomorrow (May 27)

Screen-shot Examples:

docomo ID Authentication  
Carrier Billing Payments

Services are currently available via browser. Availability via applications to be introduced sequentially.

Initial Services

Services compatible with biometric authentication to be expanded sequentially.
Adoption of FIDO Specification and Joining the FIDO Alliance
Adoption of FIDO 1.0 Specification

- FIDO 1.0 is the protocol specification for password-less secure online authentication defined by the FIDO Alliance

Why adopt FIDO 1.0?

- Easy, fast online authentication using biometric data
- Secure protocol that utilizes public key cryptography
- Open-standard specification for practical interoperability in the future
FIDO Enables Online Authentication by Utilizing Biometric Data in a Secure Manner

– Biometric Data and Secret Key stored in Secure Area –

encrypted Authentication Data (Token)

Scope of FIDO 1.0 Specification

Public Key Cryptography

Secure Protocol

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FIDO Allows Multiple Types of Authenticators Equipped with Different Biometric Devices
– Open Standards for Future Interoperability –

Galaxy S6 edge
Fingerprint (Touch-type)

Galaxy S6

AQUOS ZETA
Fingerprint (Slide-type)

Arrows NX
Iris recognition

Standards

DOCOMO Services Server

Company A’s Server

Company B’s Server

Company C’s Server

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FIDO 1.0 Certified™ Devices

- 4 Biometric Authenticators (Passed FIDO-certified interoperability test on April 29)
DOCOMO Joins the FIDO Alliance

• By commercially launching FIDO devices and services, DOCOMO has achieved the following "world’s firsts" :
  – Commercial deployment by a mobile network operator
  – Support for both Iris and Fingerprint sensors
  – Launch of multiple FIDO-certified devices from multiple OEMs

DOCOMO will be contributing toward future FIDO specs and enhancing the FIDO ecosystem through collaboration with FIDO
DOCOMO’s Vision of Biometric Authentication
Next Step

• Sequentially expand range of FIDO-enabled biometric authenticator devices
• Expand DOCOMO service platforms and services compatible with biometric authentication
  
  — For some existing services using 4-digit network passwords, add biometric authentication
    • Enable use of biometric authentication for reward points
And Beyond ...

- Deploy other types of biometric technologies, in addition to iris:
  - FIDO enables biometric authentication methods other than fingerprint and iris recognition
- Online authentication connecting to wider variety of devices
- Biometric authentication for DOCOMO partners and third-party services
  - FIDO offers many opportunities for interoperability
Creating a World without Passwords

“The new of today, the norm of tomorrow.”

• Through collaboration with the FIDO Alliance, DOCOMO will further deliver “Your Security. More Simple.”