

The Wearable Identity System

A Detailed Look

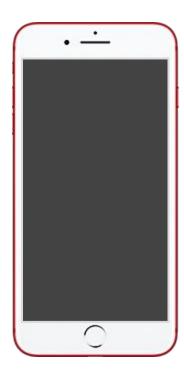
Objectives •

- 1. Look in more detail at the patented Wearable Identity System.
- 2. Walk through some typical scenarios that the system enables.
- 3. Better understand what is going on "under the hood".



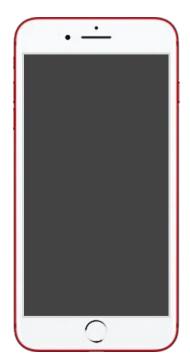
The "Actors"

a mobile device



The "Actors"

- a mobile device
- a wearable device

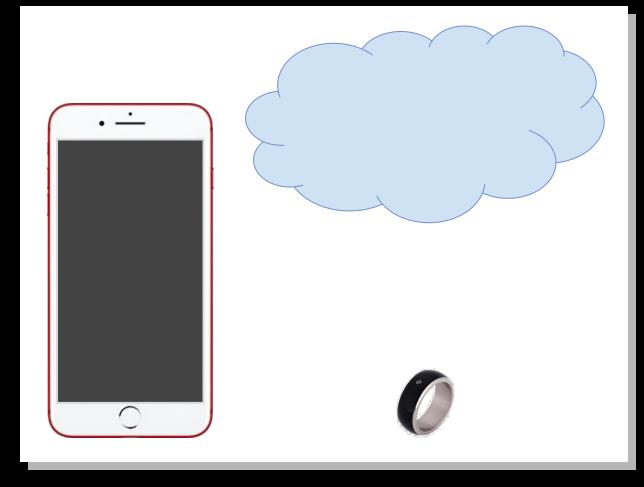






The "Actors"

- a mobile device
- a wearable device
- the cloud



A Play in Four Acts

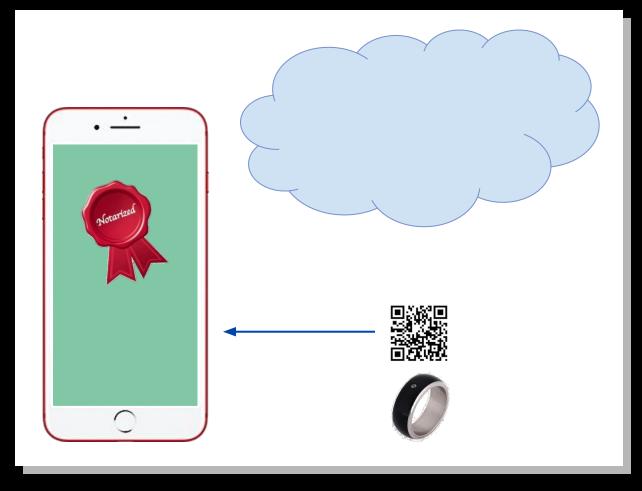
Let's walk through what is happening on these devices for the following scenarios...

- pairing the mobile and wearable devices
- unlocking the mobile device
- notarizing a financial transaction
- refreshing the notary key



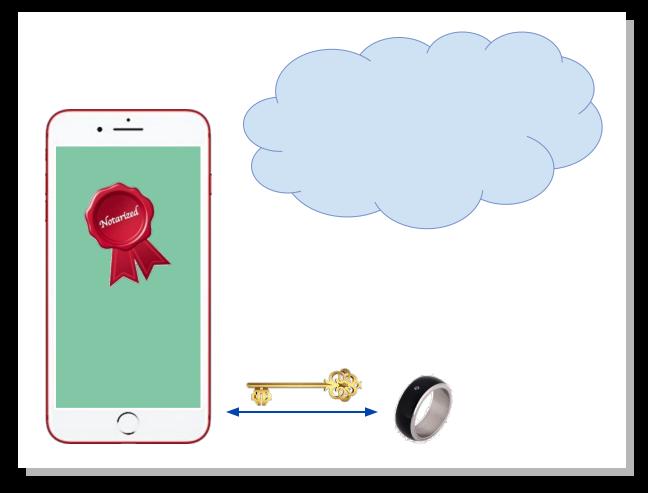
Pairing the Devices

Scan the wearable's QR code



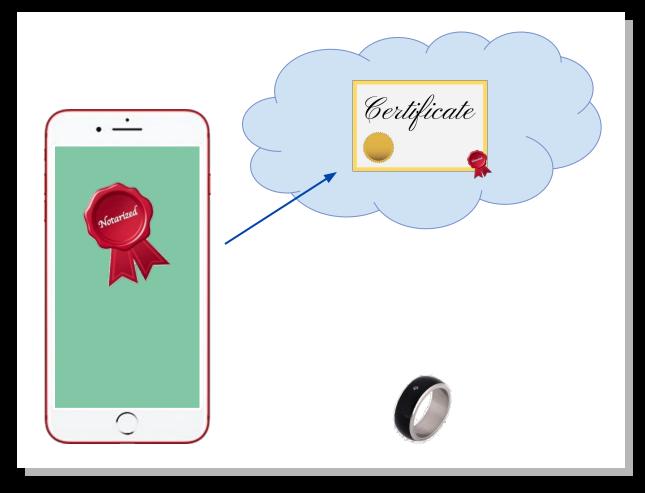
Pairing the Devices

- Scan the wearable's QR code
- Generate a private notary key



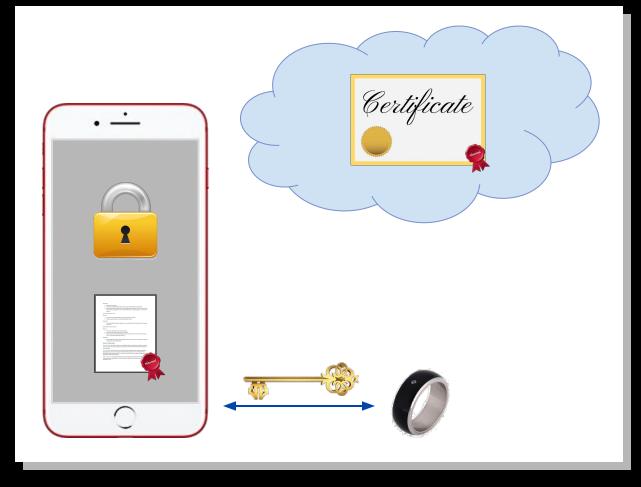
Pairing the Devices

- Scan the wearable's QR code
- 2. Generate a private notary key
- 3. Publish the corresponding public certificate



Unlocking a Device

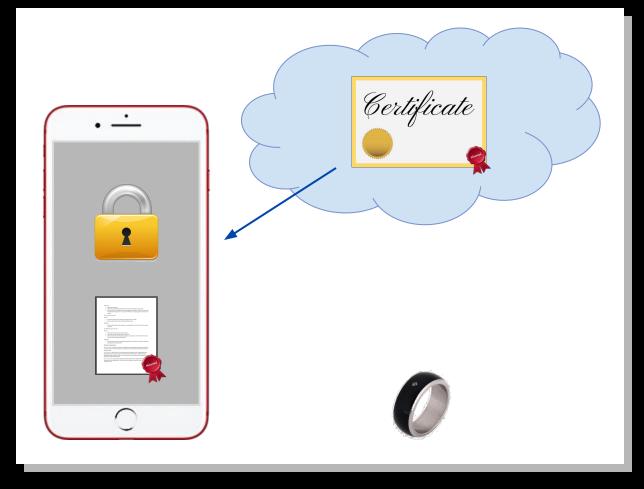
1. Notarize a login request





Unlocking a Device

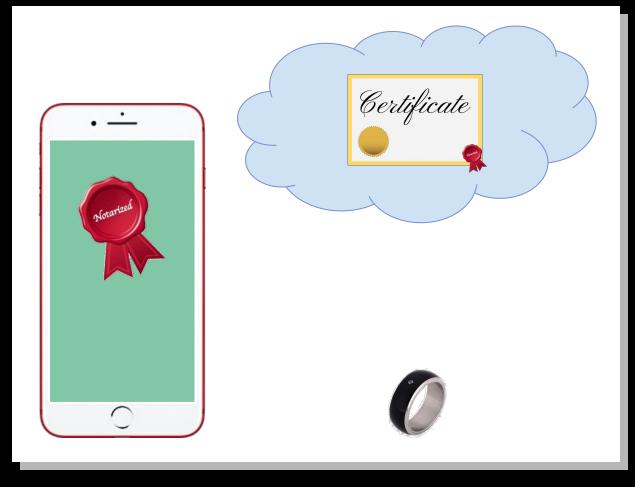
- 1. Notarize a login request
- 2. Validate the notary seal





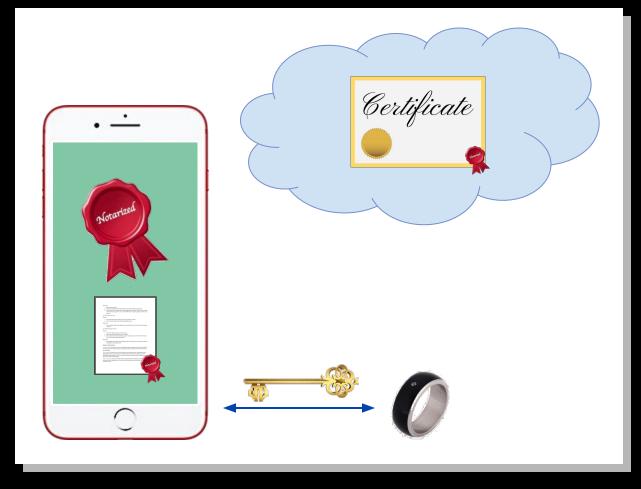
Unlocking a Device

- 1. Notarize a login request
- 2. Validate the notary seal
- 3. Unlock the mobile device



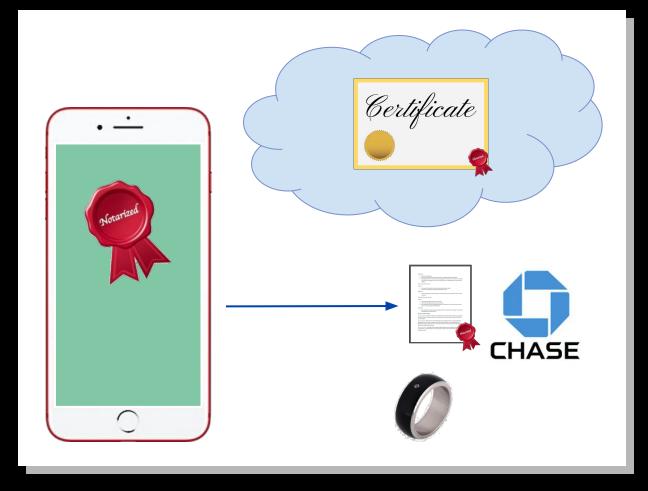


1. Notarize a financial transaction



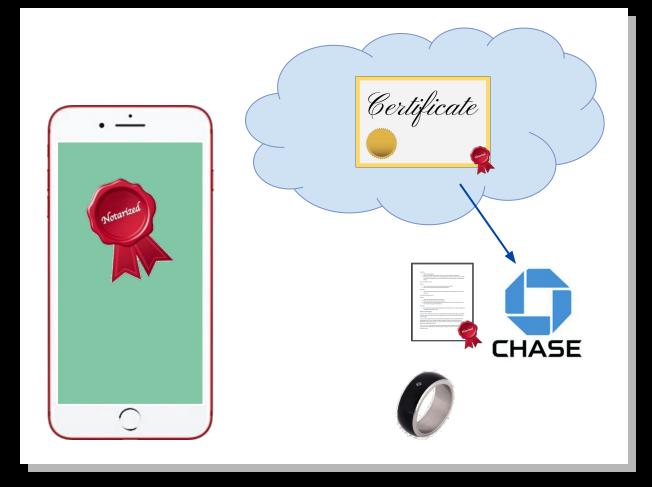


- 1. Notarize a financial transaction
- 2. Send the transaction to the bank



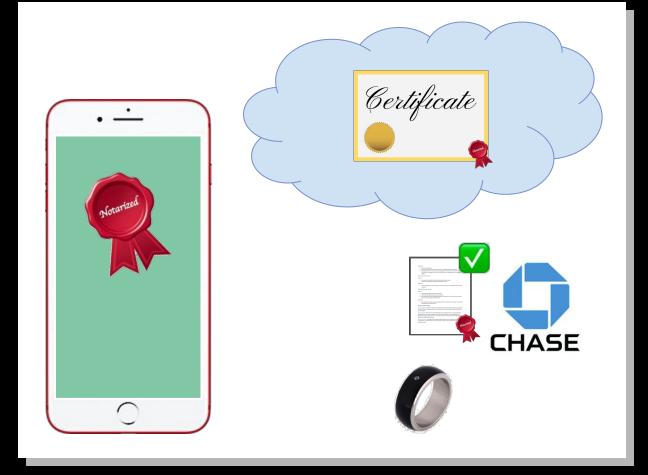


- 1. Notarize a financial transaction
- 2. Send the transaction to the bank
- 3. Validate the notary seal





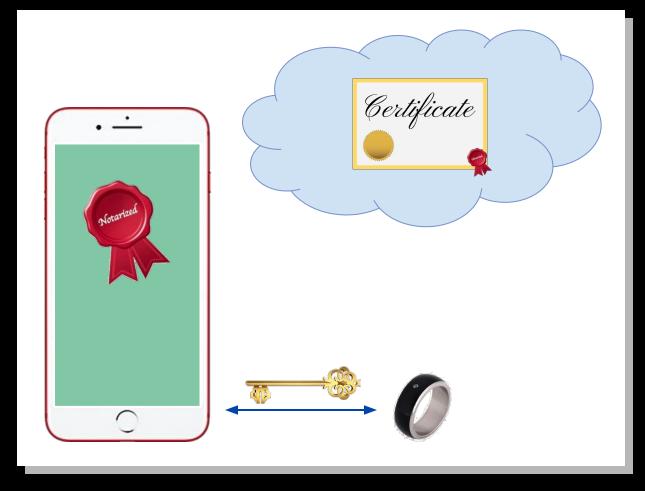
- 1. Notarize a financial transaction
- 2. Send the transaction to the bank
- 3. Validate the notary seal
- 4. Approve the transaction





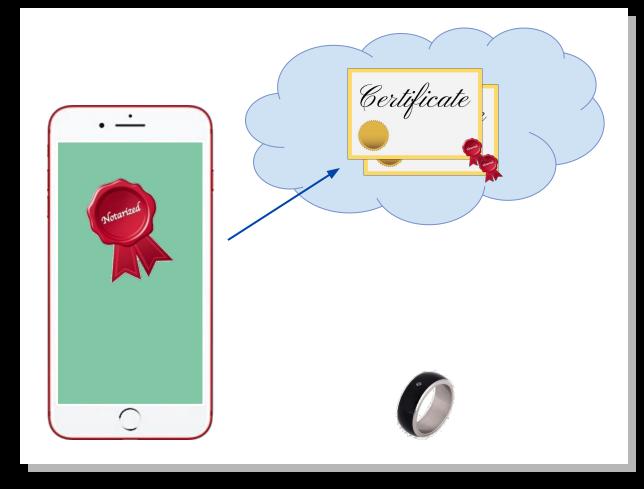
Refresh Notary Key

 Generate a new private notary key

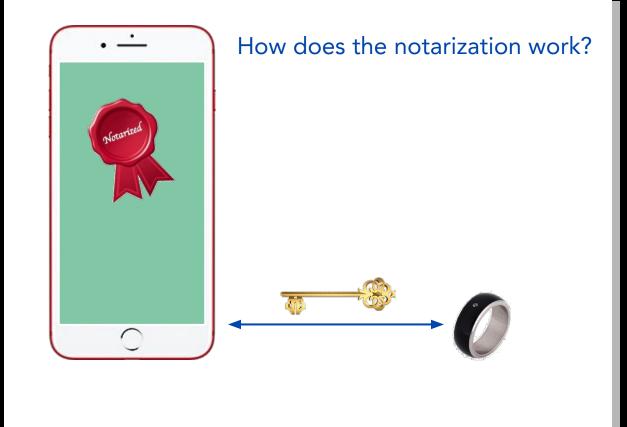


Refresh Notary Key

- 1. Generate a new private notary key
- 2. Publish the new public certificate



• US Patent 9,853,813





mobile key

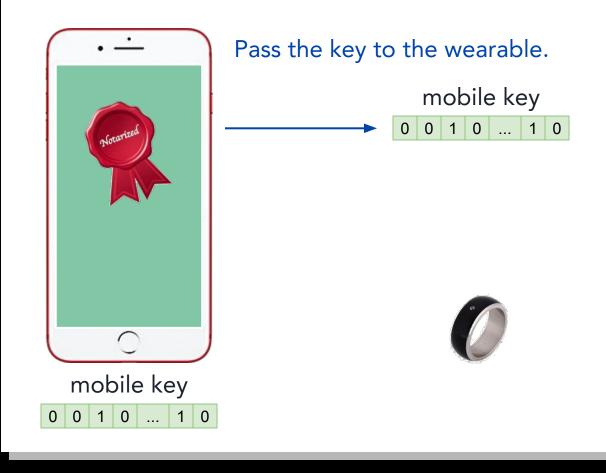


Generate a random mobile key.





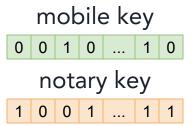
mobile key



- mobile key
- notary key



Generate a private notary key.



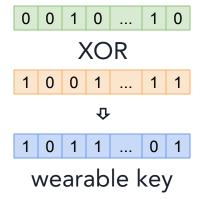




- mobile key
- notary key
- wearable key



Derive the wearable key.







- mobile key
- wearable key

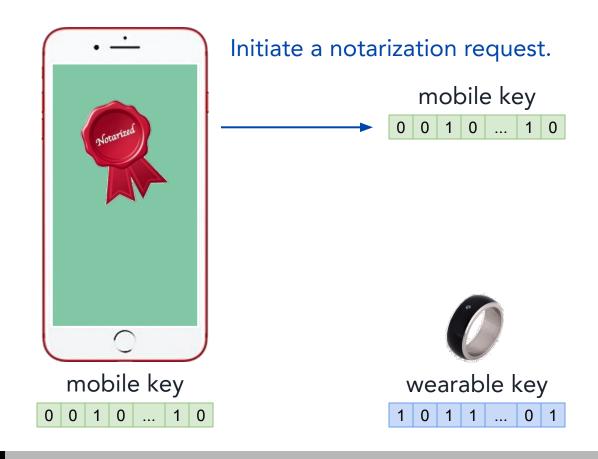


Save only the wearable key.





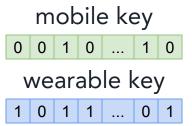
mobile key



- mobile key
- wearable key



Load the saved wearable key.



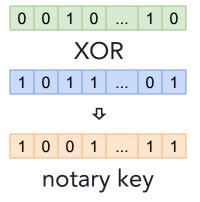




- mobile key
- wearable key
- notary key



Derive the private notary key.



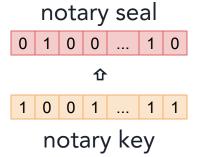




- mobile key
- wearable key
- notary key
- notary seal



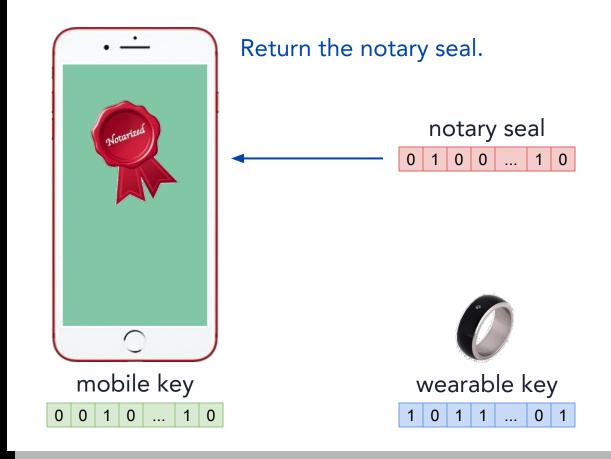
Generate the public notary seal.







- mobile key
- wearable key
- notary key
- notary seal



- mobile key
- wearable key



Ready for the next request.





In Summary •

The patented Wearable Identity System provides a simple and secure way to prove your identity using your mobile device by digitally notarizing any document enabling the:

- automatic unlocking of your computer or mobile device
- execution of fraud-proof financial transactions with merchants or banks



More Information •

patent: https://patents.google.com/patent/US9853813B2

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