

# The Wearable Identity System<sup>TM</sup>

A Detailed Look

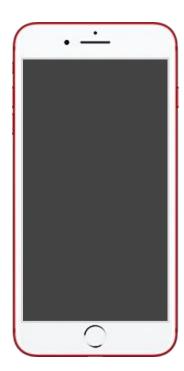
# Objectives •

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



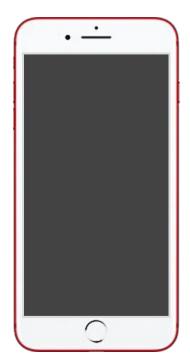
## The "Actors"

a mobile device



## The "Actors"

- a mobile device
- a wearable device

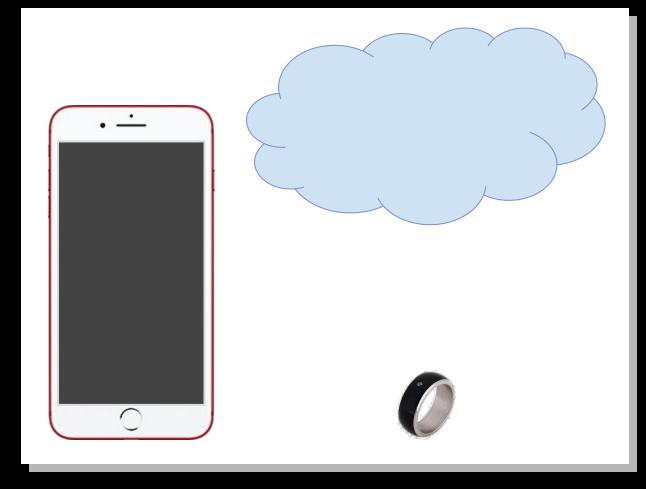






## The "Actors"

- a mobile device
- a wearable device
- the cloud



# A Play in Four Acts

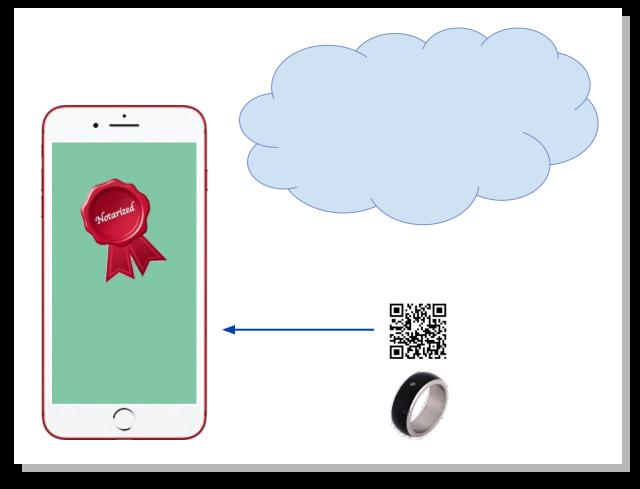
Let's walk through what is happening on these devices for the following scenarios...

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



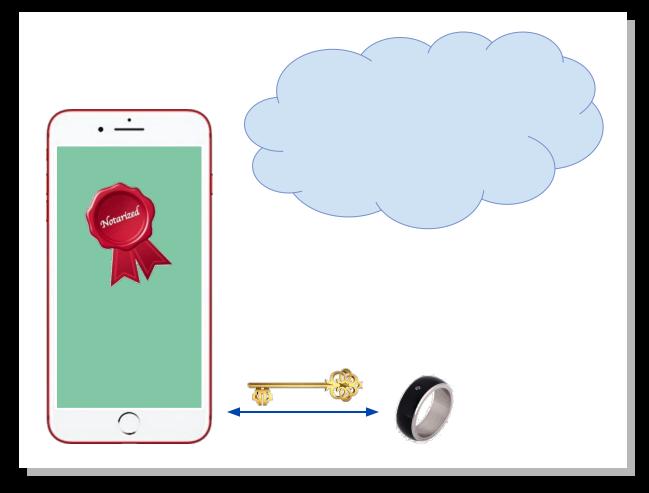
# Pairing the Devices

Scan the wearable's QR code



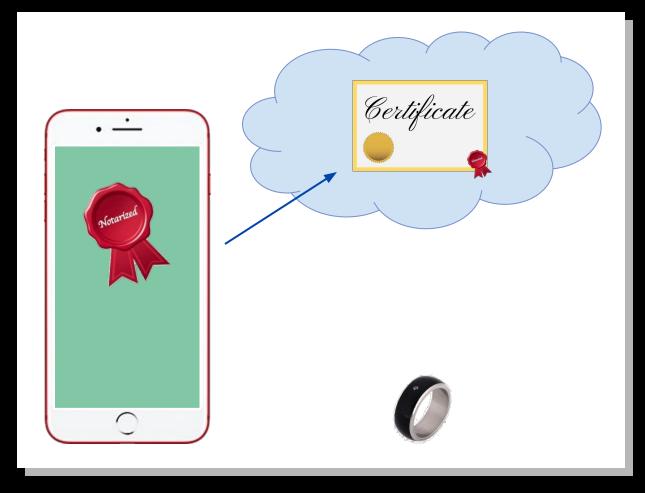
## Pairing the Devices

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



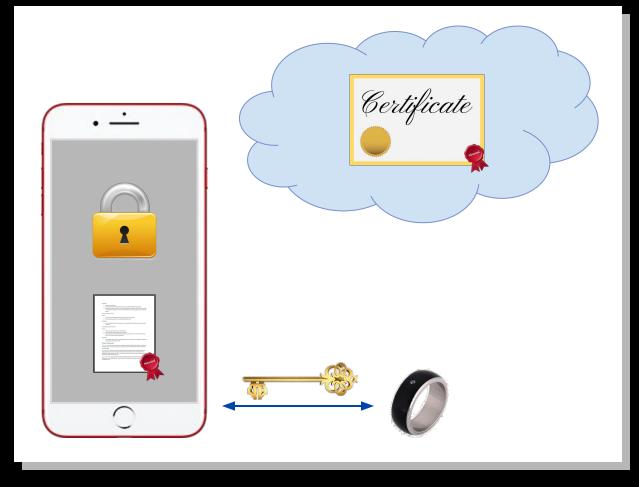
## Pairing the Devices

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



# Unlocking a Device

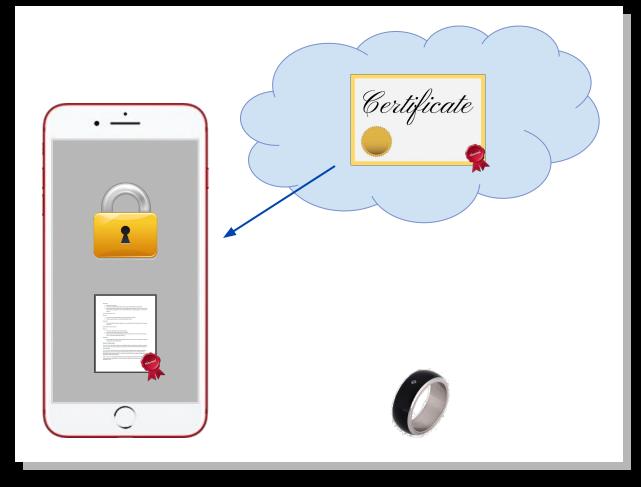
1. Notarize a login request





## Unlocking a Device

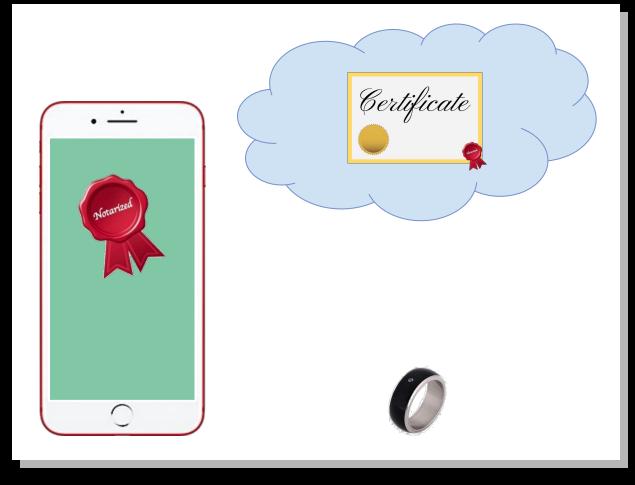
- 1. Notarize a login request
- 2. Validate the notary seal



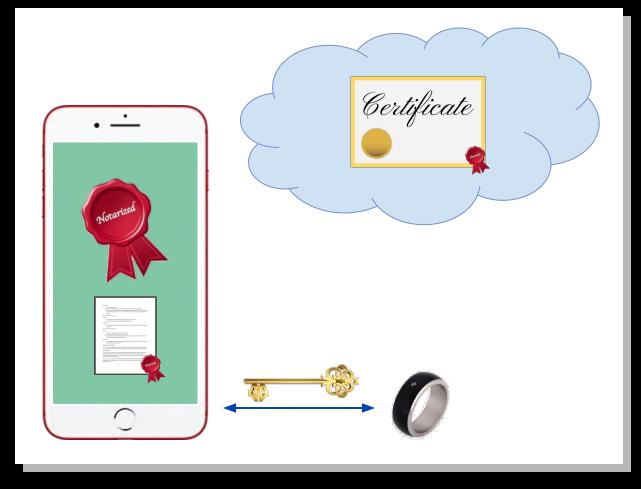


## Unlocking a Device

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

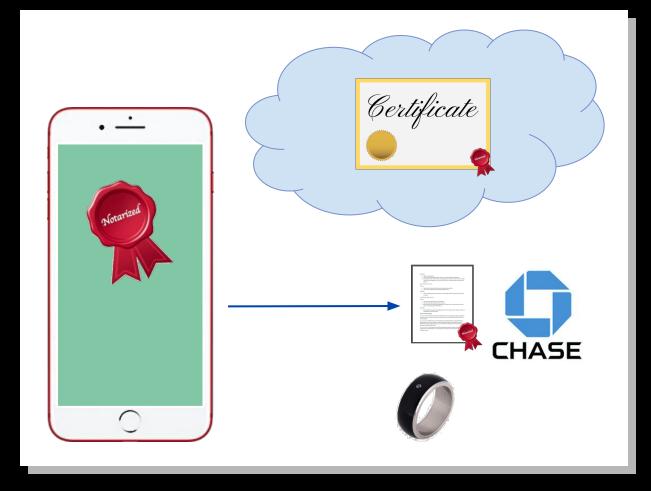


Notarize a financial transaction



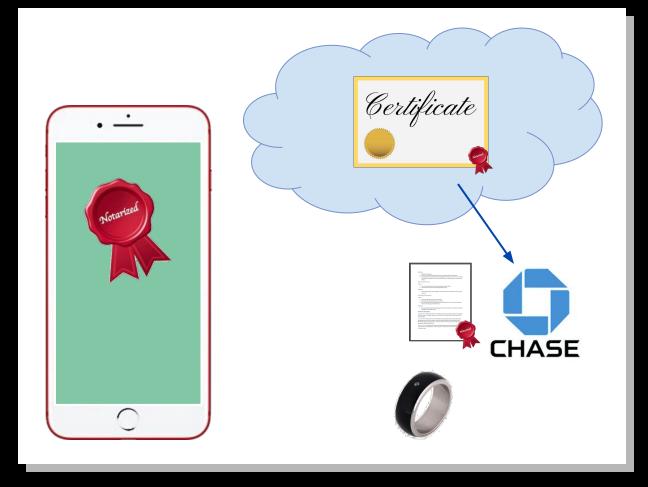


- 1. Notarize a financial transaction
- 2. Send the transaction to the bank



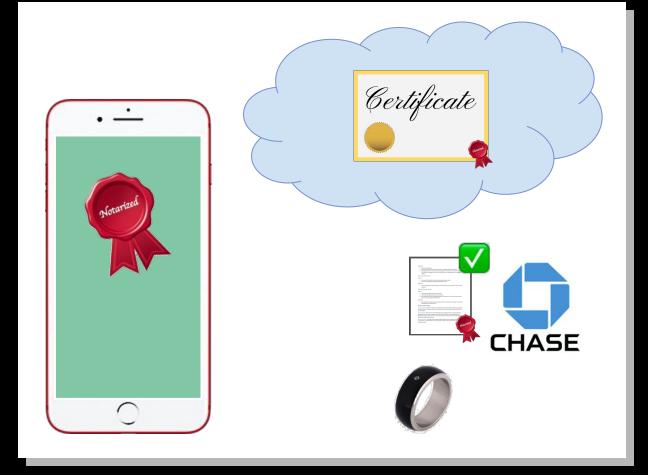


- 1. Notarize a financial transaction
- Send the transaction to the bank
- 3. Validate the notary seal





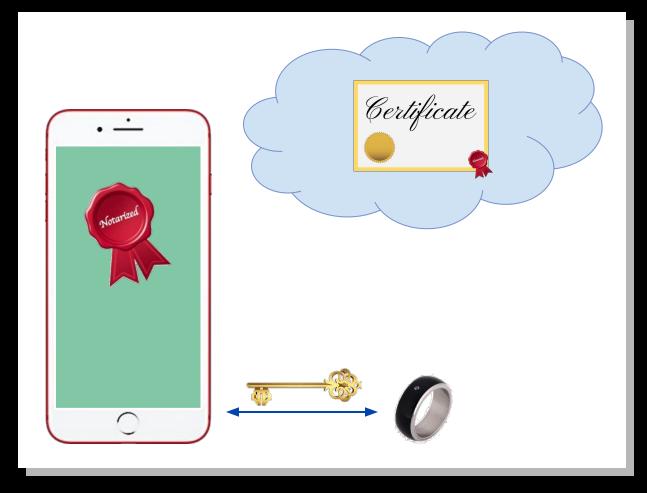
- 1. Notarize a financial transaction
- 2. Send the transaction to the bank
- 3. Validate the notary seal
- 4. Approve the transaction





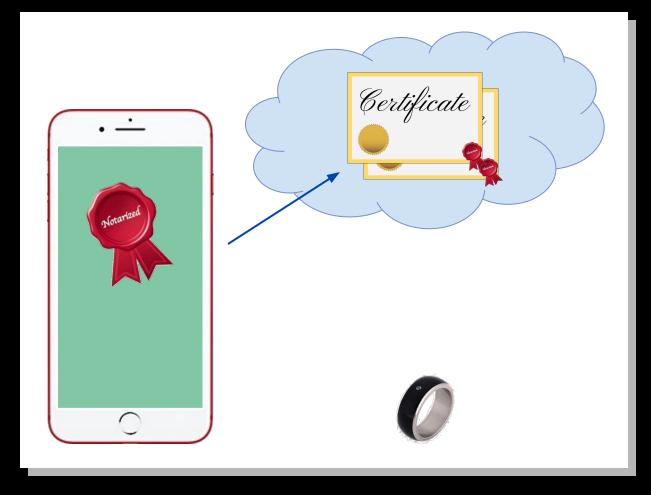
# Refresh Notary Key

 Generate a new private notary key

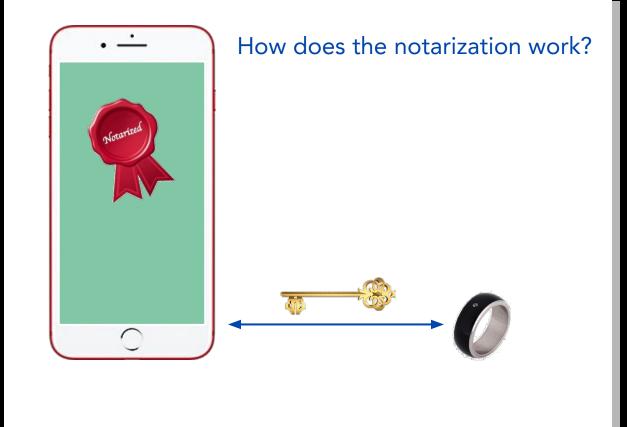


## Refresh Notary Key

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



• US Patent 9,853,813





mobile key

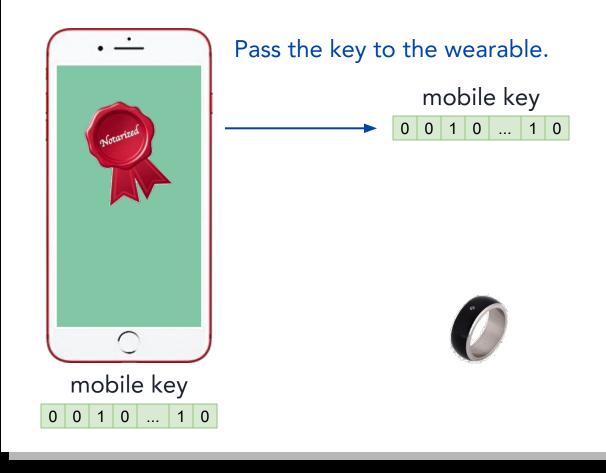


Generate a random mobile key.





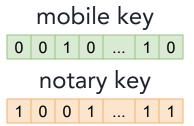
mobile key



- mobile key
- notary key



Generate a private notary key.



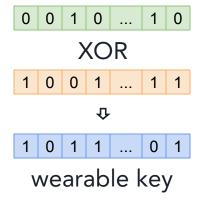




- mobile key
- notary key
- wearable key



Derive the wearable key.







- mobile key
- wearable key

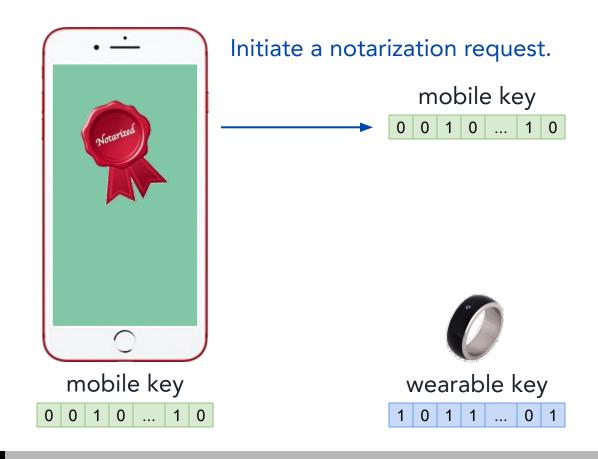


Save only the wearable key.





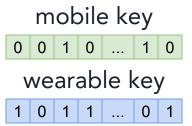
mobile key



- mobile key
- wearable key



Load the saved wearable key.



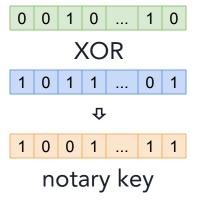




- mobile key
- wearable key
- notary key



Derive the private notary key.



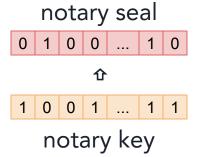




- mobile key
- wearable key
- notary key
- notary seal



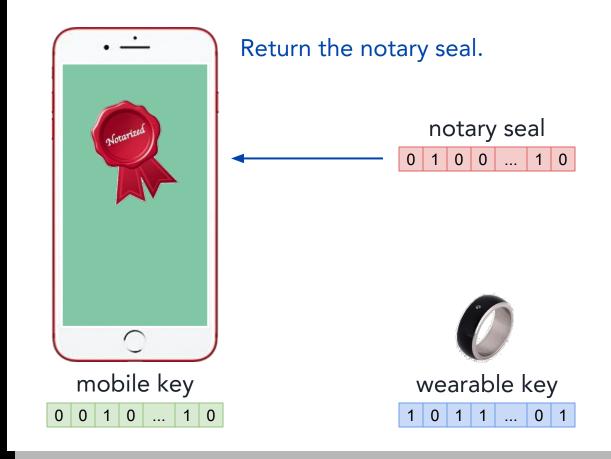
Generate the public notary seal.







- mobile key
- wearable key
- n<del>otary ke</del>y
- 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: <a href="https://patents.google.com/patent/US9853813">https://patents.google.com/patent/US9853813</a>

website: <a href="https://craterdog.com">https://craterdog.com</a>

eMail: <u>craterdog@gmail.com</u>

