

SmartTouch

On-card gesture recognition technology

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October 30th, 2014



SECURE CONNECTIONS
FOR A SMARTER WORLD

The Challenge



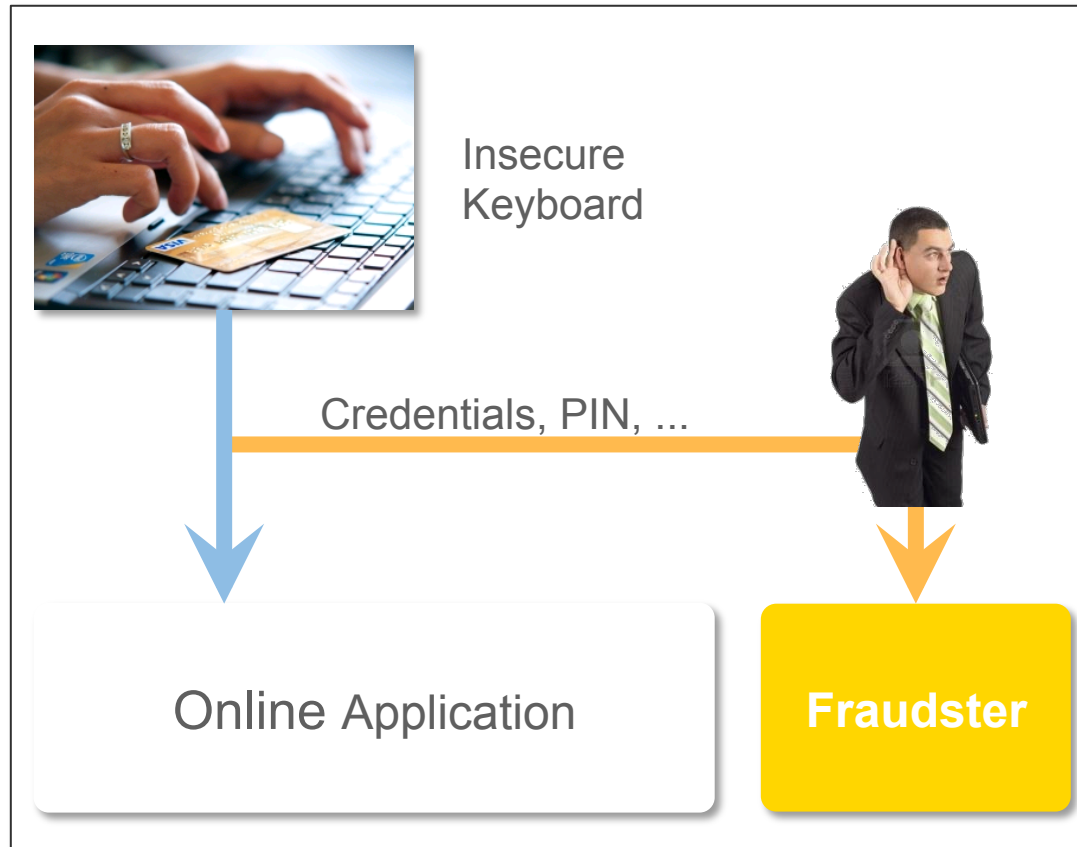
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Electronic ID cards allow performing online transactions

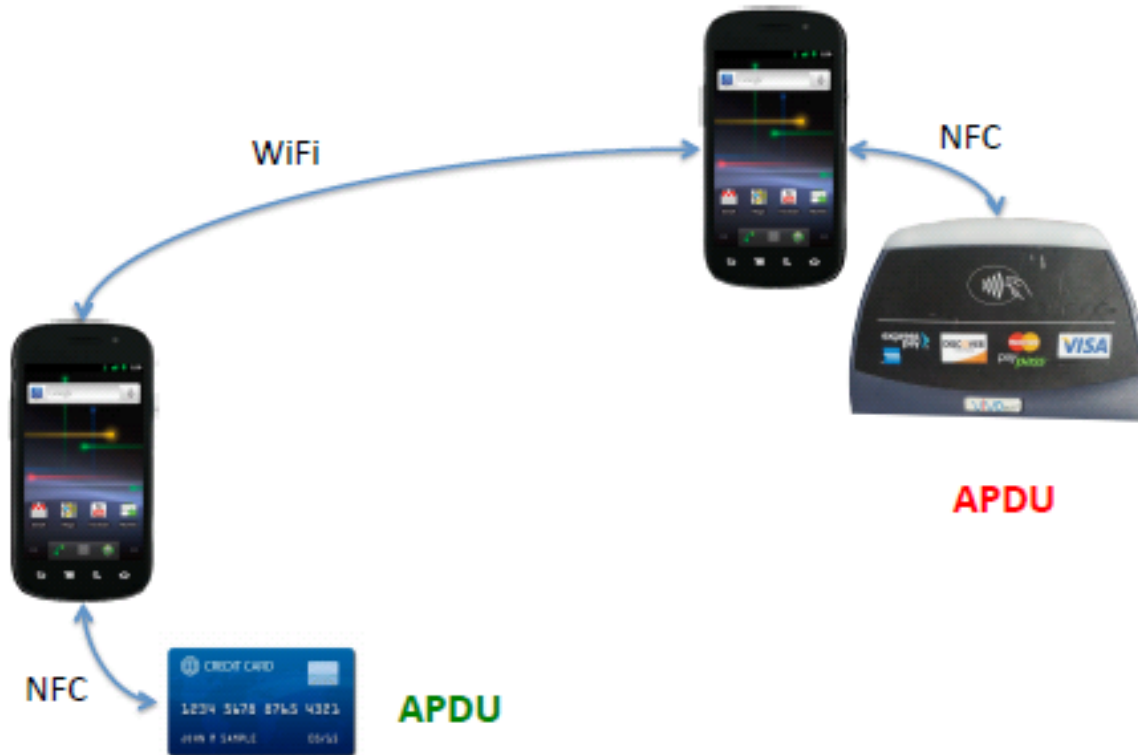


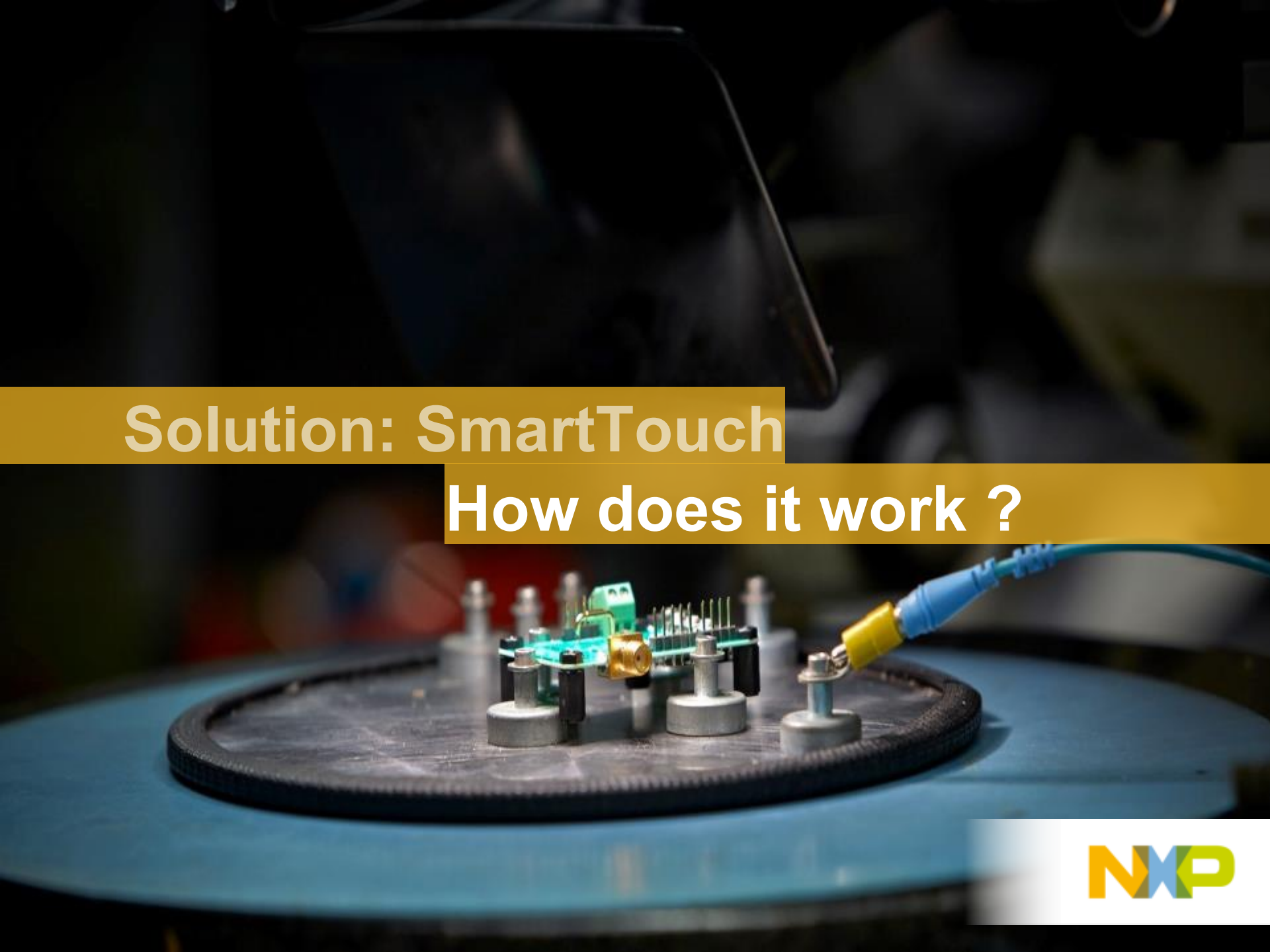
**The card needs
to be present !**

Strong online authentication without skimming



Leverage the NFC infrastructure without allowing them to become a threat





Solution: SmartTouch

How does it work ?

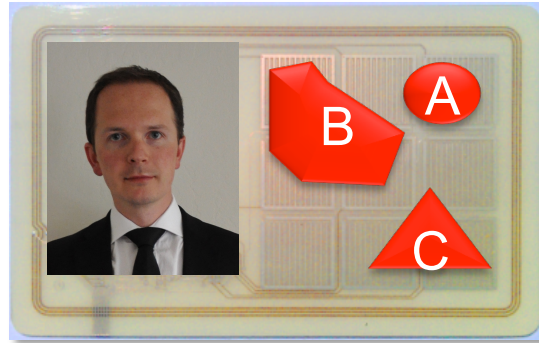
Standard contactless ID card with an inlay-like touch pad embedded in the inner layers



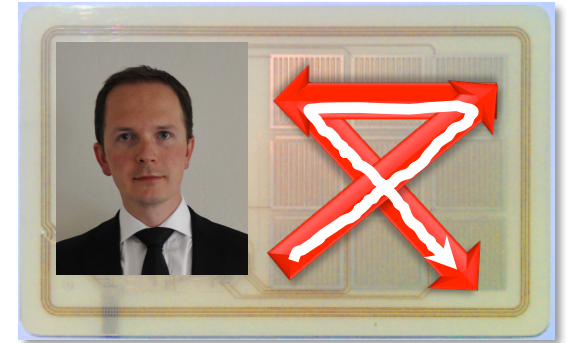
Arbitrary touch pad configurations by software



Single Buttons



Arbitrary Shaped Buttons



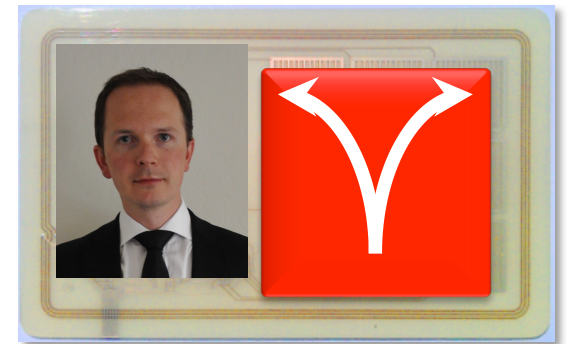
Arbitrary Confirmation Gesture



Key Pad



Gesture Pad / Keyboard

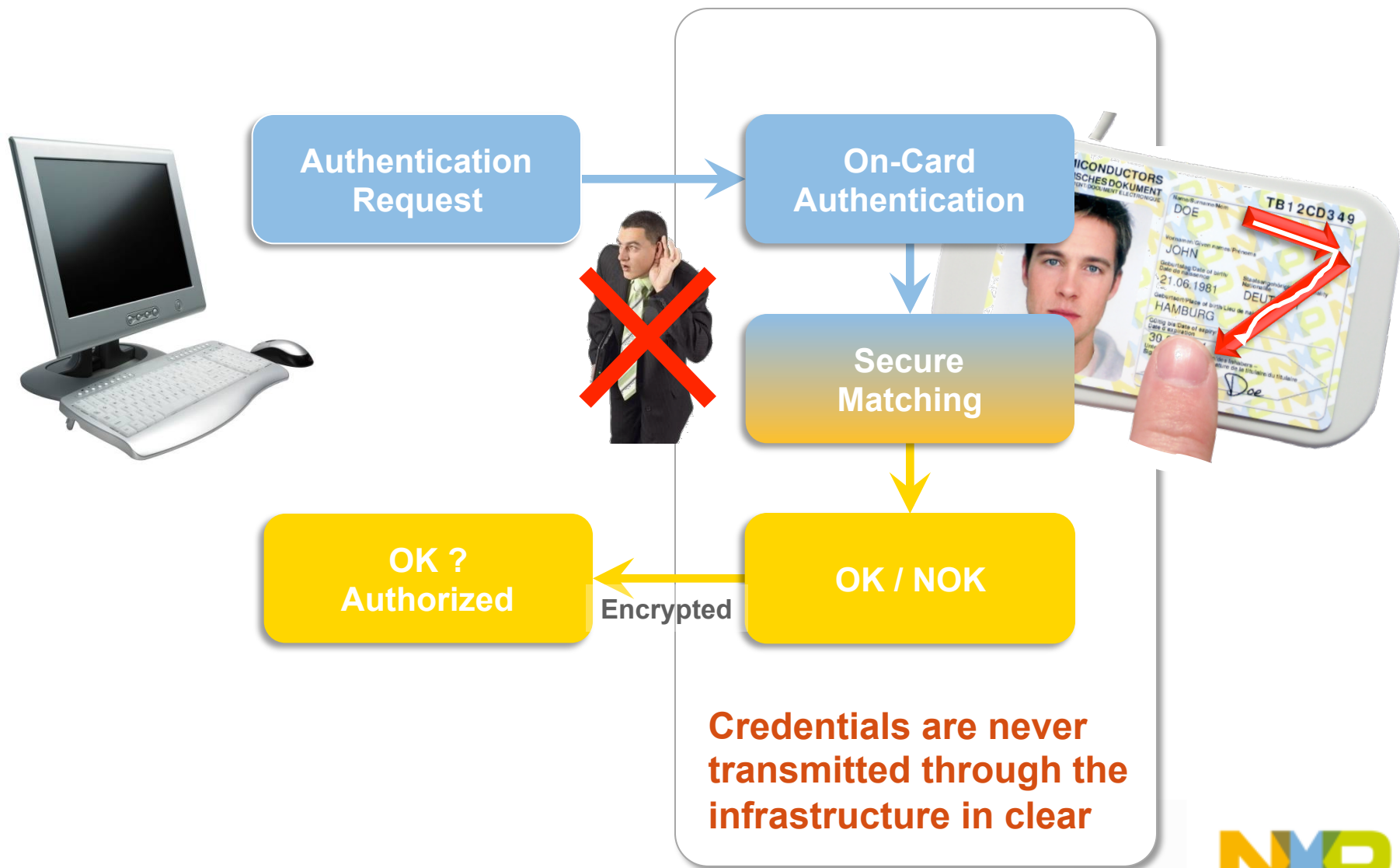


Mouse Pad

The applications learns handwriting dynamics



Smart Authentication principle

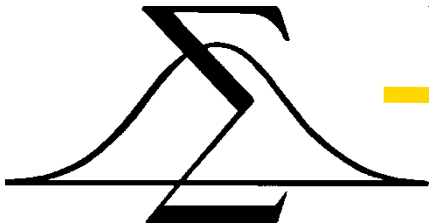


Multifactor Authentication utilizing Handwriting

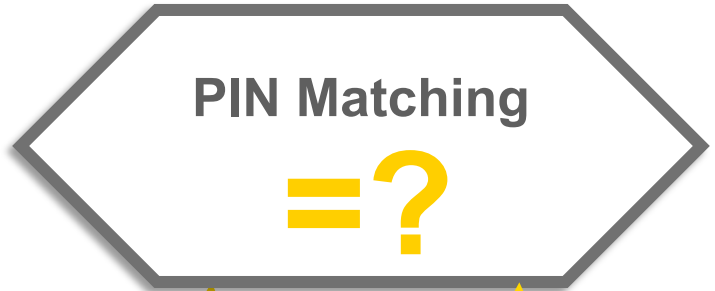
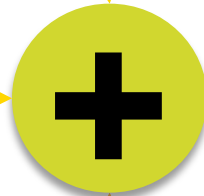
Something You Know PIN

1234

Something You Have SmartTouch Card



Something You Are
Individual
Writing
Dynamics



1234



Reference
Characters

Example: Transaction Confirmation on Smartphone

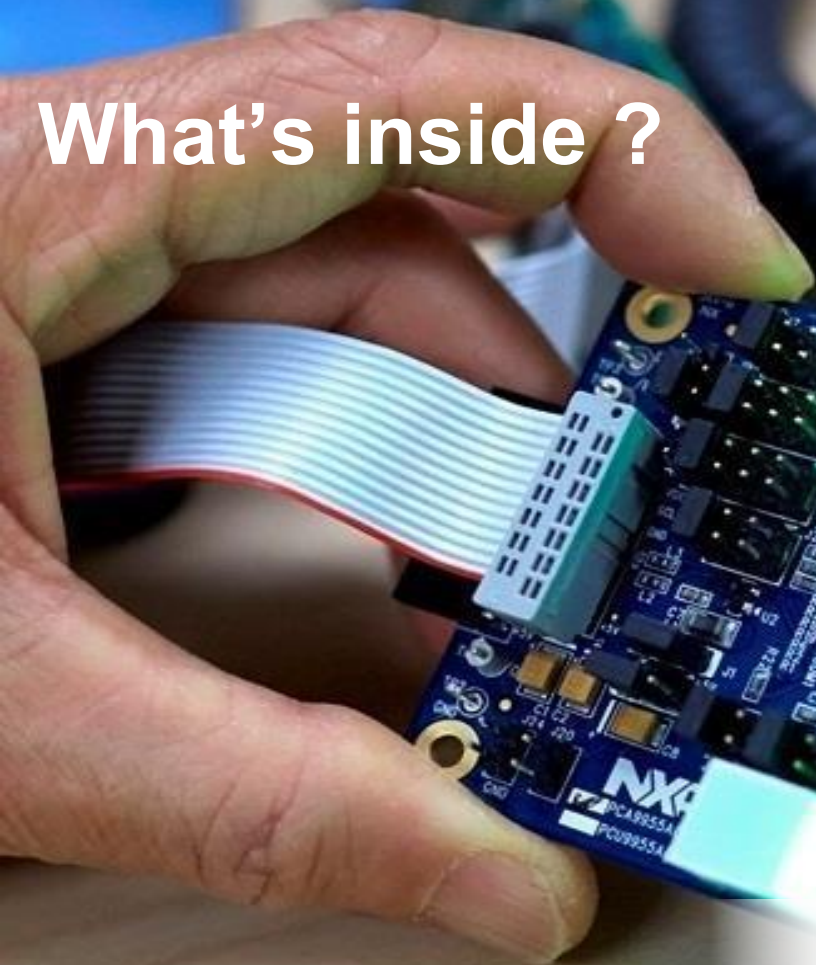


NFC Mode

Samsung Galaxy Nexus

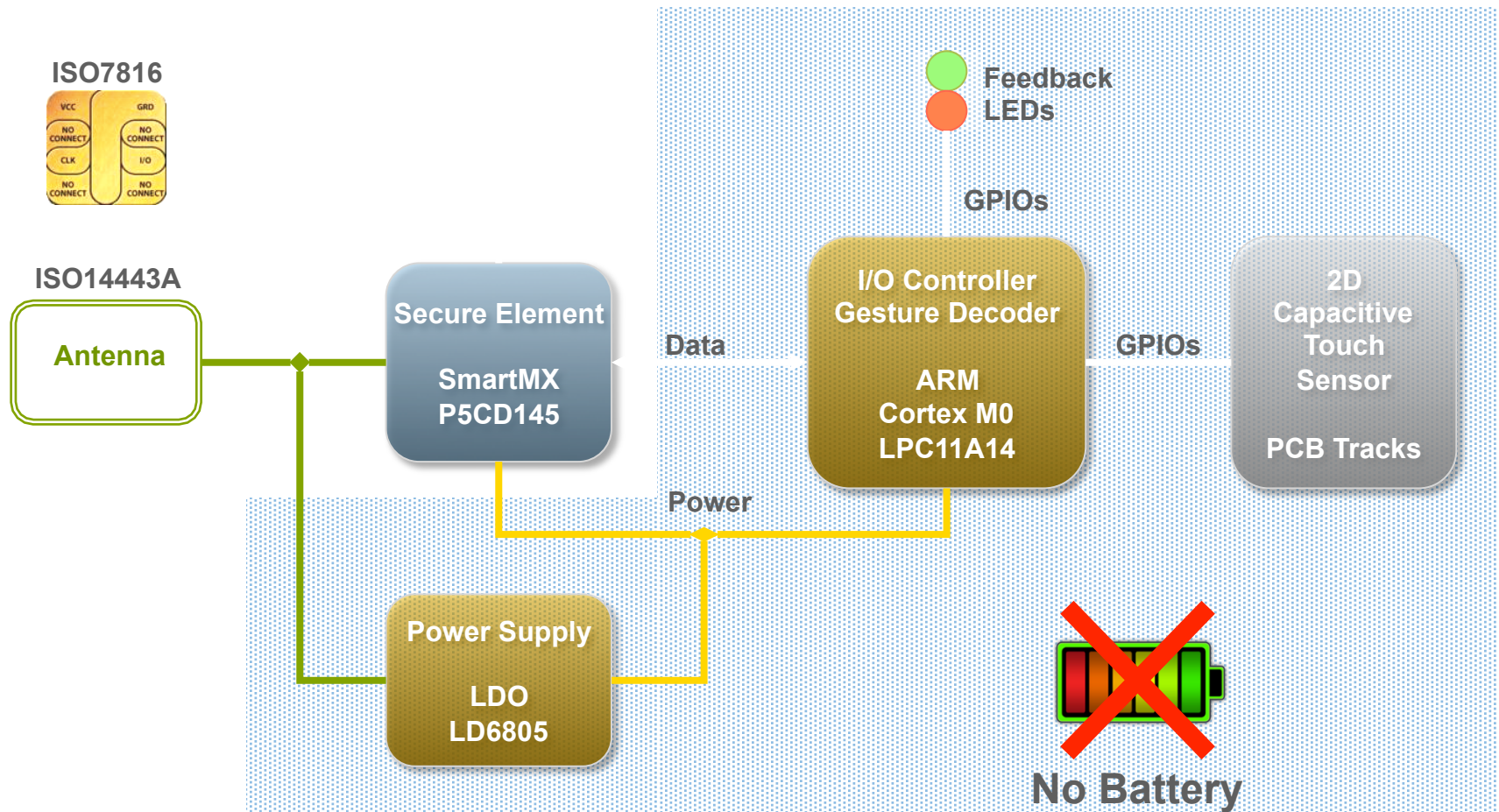
Authorize data transfer
by individual confirmation
gesture (Android style)

What's inside ?



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A few additional components



Full compatibility with traditional contactless smartcard technology

- All the additional components integrated in the same smartcard module
- Touchpad compatible with today's inlay technologies
- No external power supply needed



Thank You !



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