

**Internet of Things**

**Apple HomeKit**

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- Apple HomeKit
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## Apple HomeKit

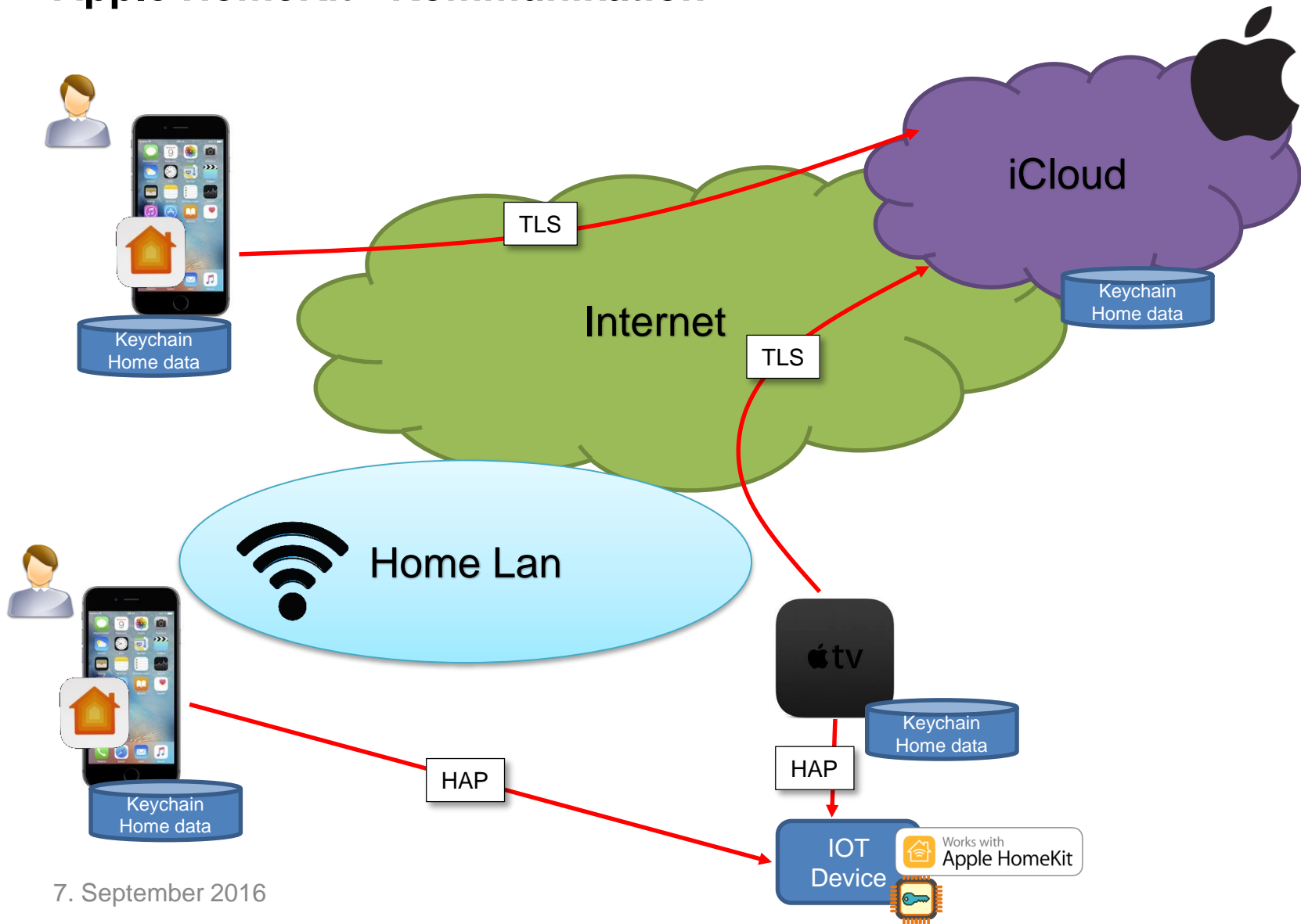
- Home Automation Framework von Apple
- Datenbank in iOS enthält Informationen über das Haus, Räume, Szenen und IOT-Devices:
  - Licht-Steuerungen
  - Thermostaten
  - Schlösser
  - Storen
  - ....
- Nur MFI zertifizierte Hardware und Firmware sind zugelassen



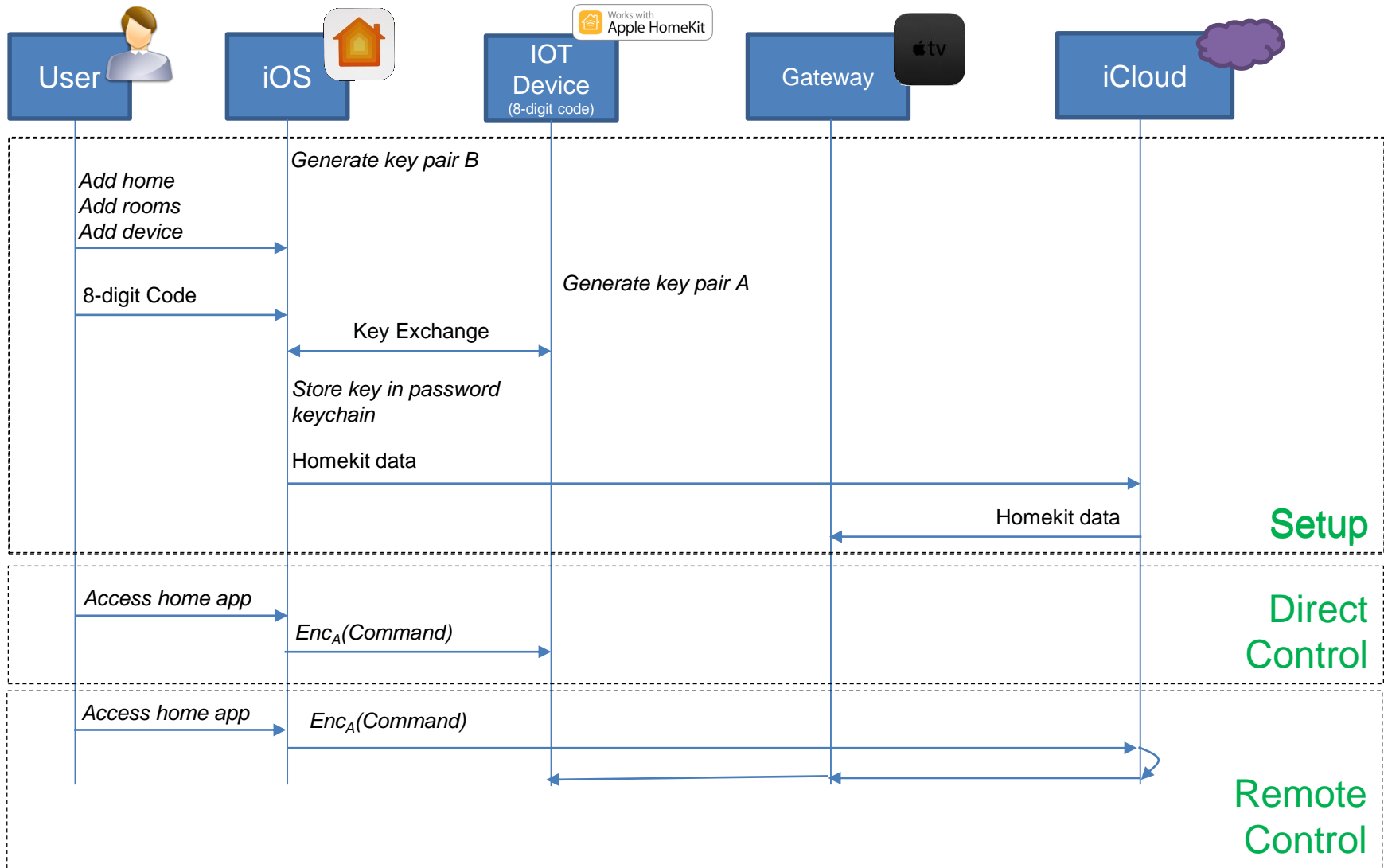
### History

- iOS 8 (2014):
  - + Home-Daten
  - + Steuerung via Siri
  - + Remote Control via iCloud und Apple TV
  - + Third-Party-Apps zur Steuerung
- iOS 9 (2015):
  - + Remote Control via iCloud direkt auf Fremd-Geräte
  - + Third-Party-Apps zur Steuerung
- iOS 10 (2016):
  - + Home App von Apple zur Steuerung
  - + Remote Control via iCloud und iPad

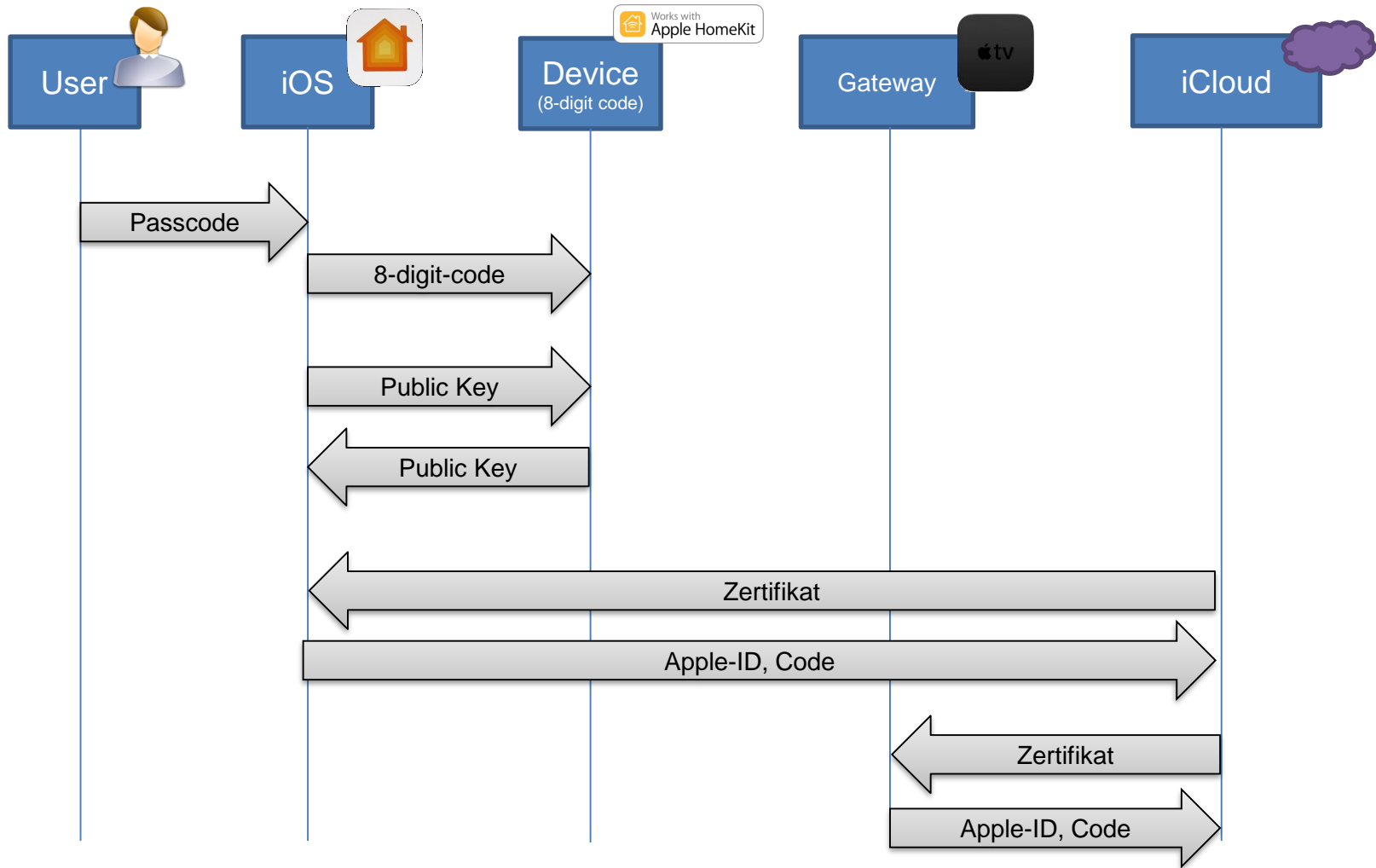
# Apple HomeKit - Kommunikation



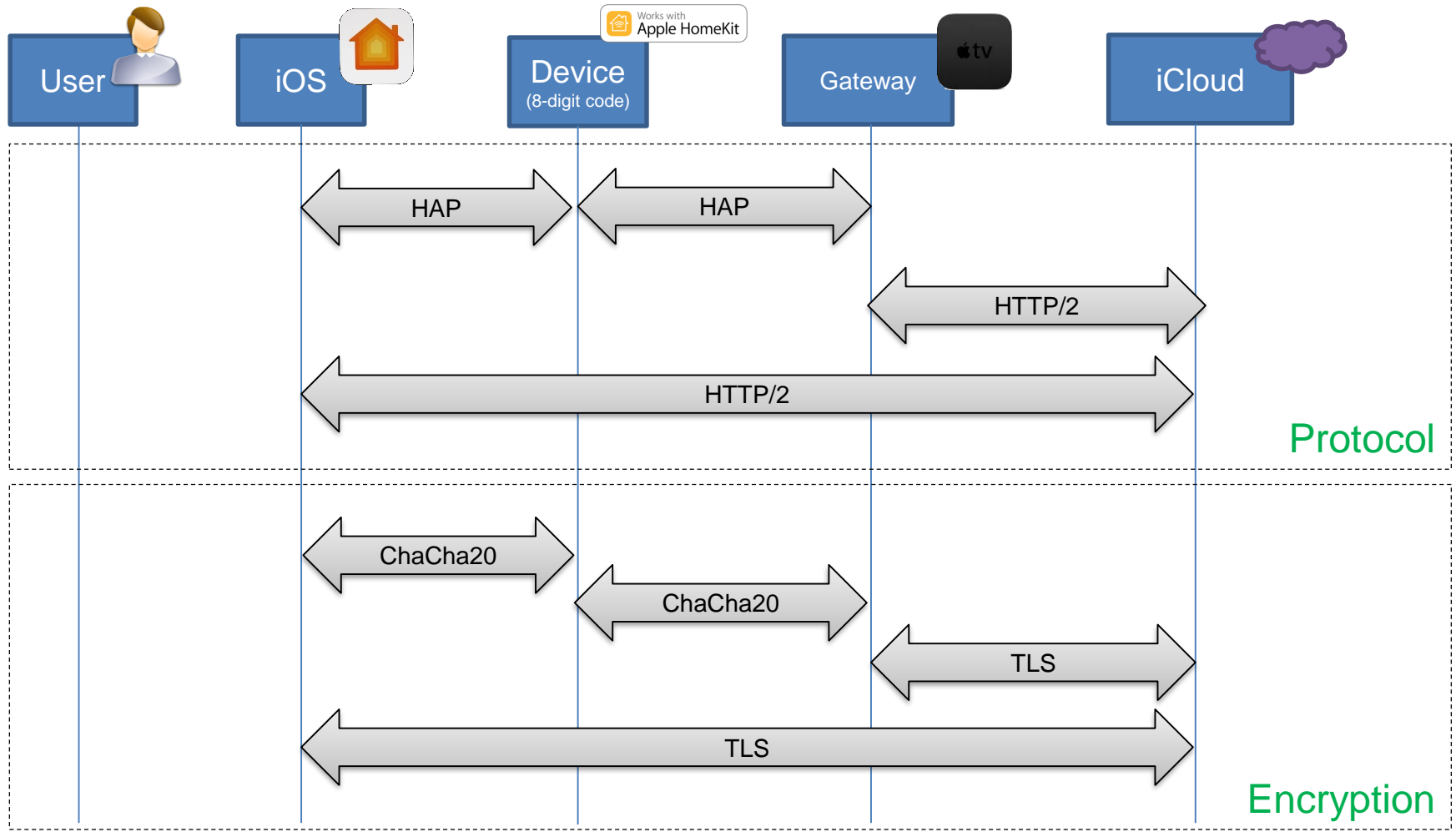
# Apple HomeKit: Device integration and control



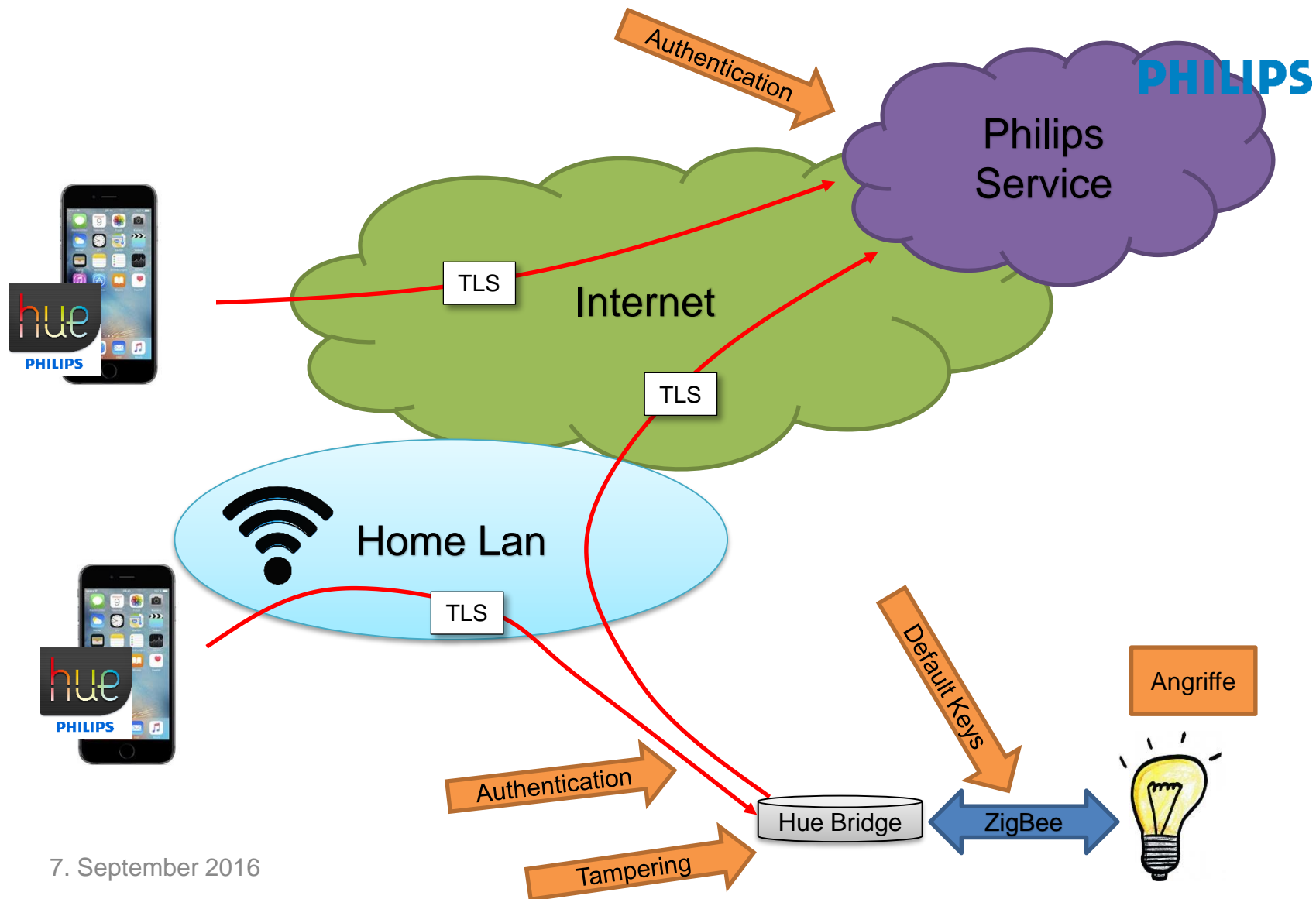
# Apple HomeKit: Authentication



# Apple HomeKit: Protocols and Encryption

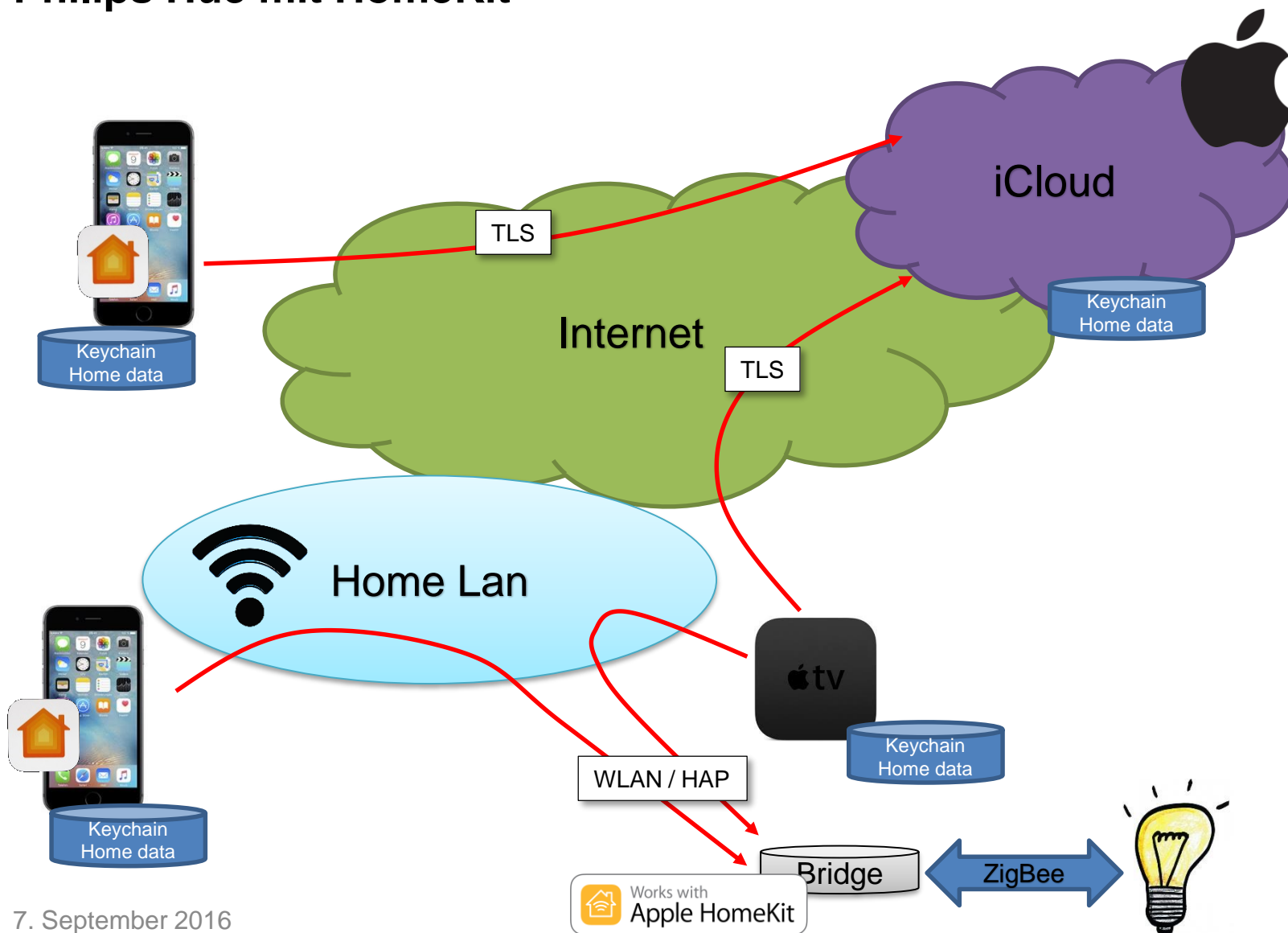


# Philips Hue

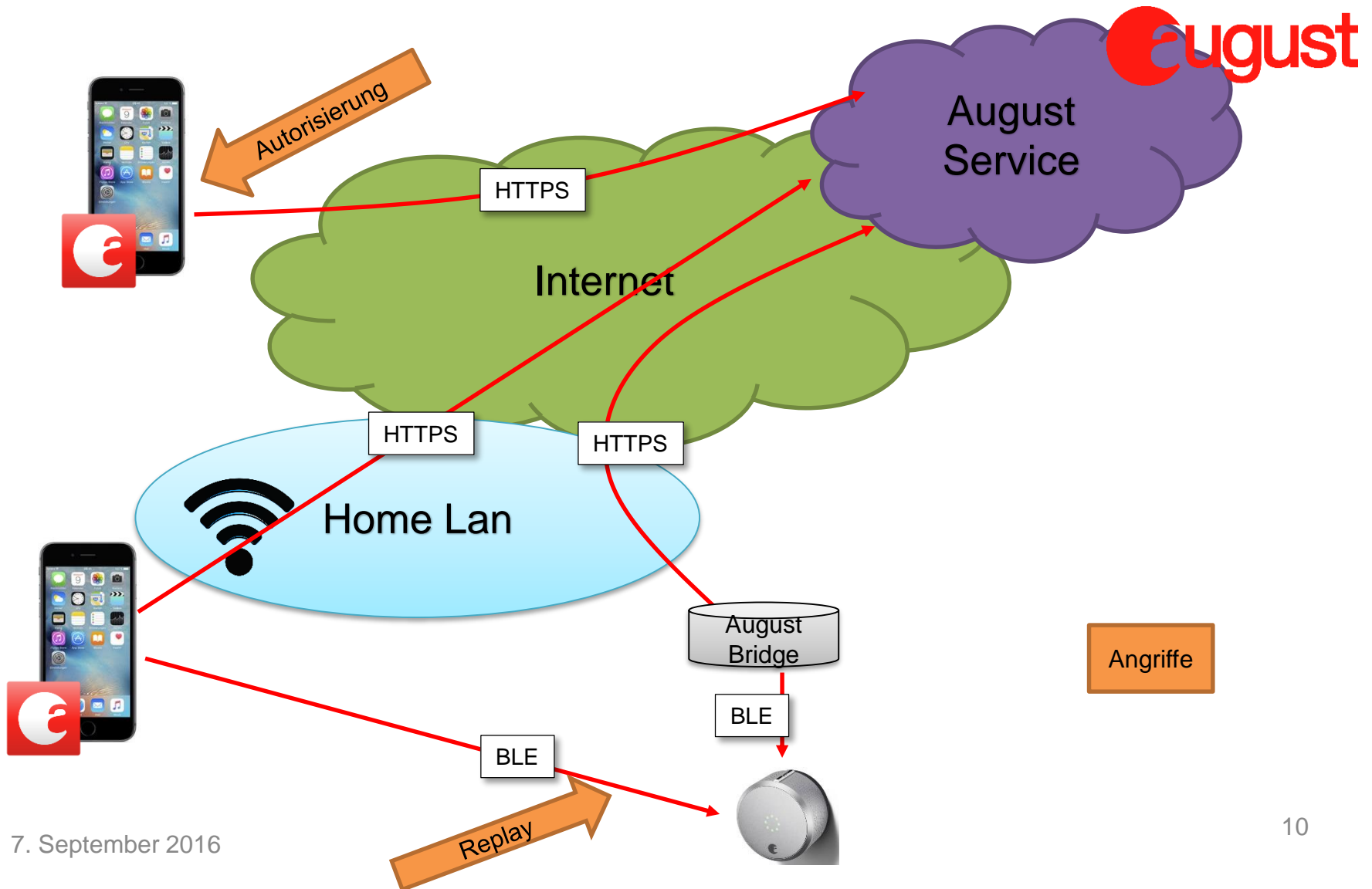




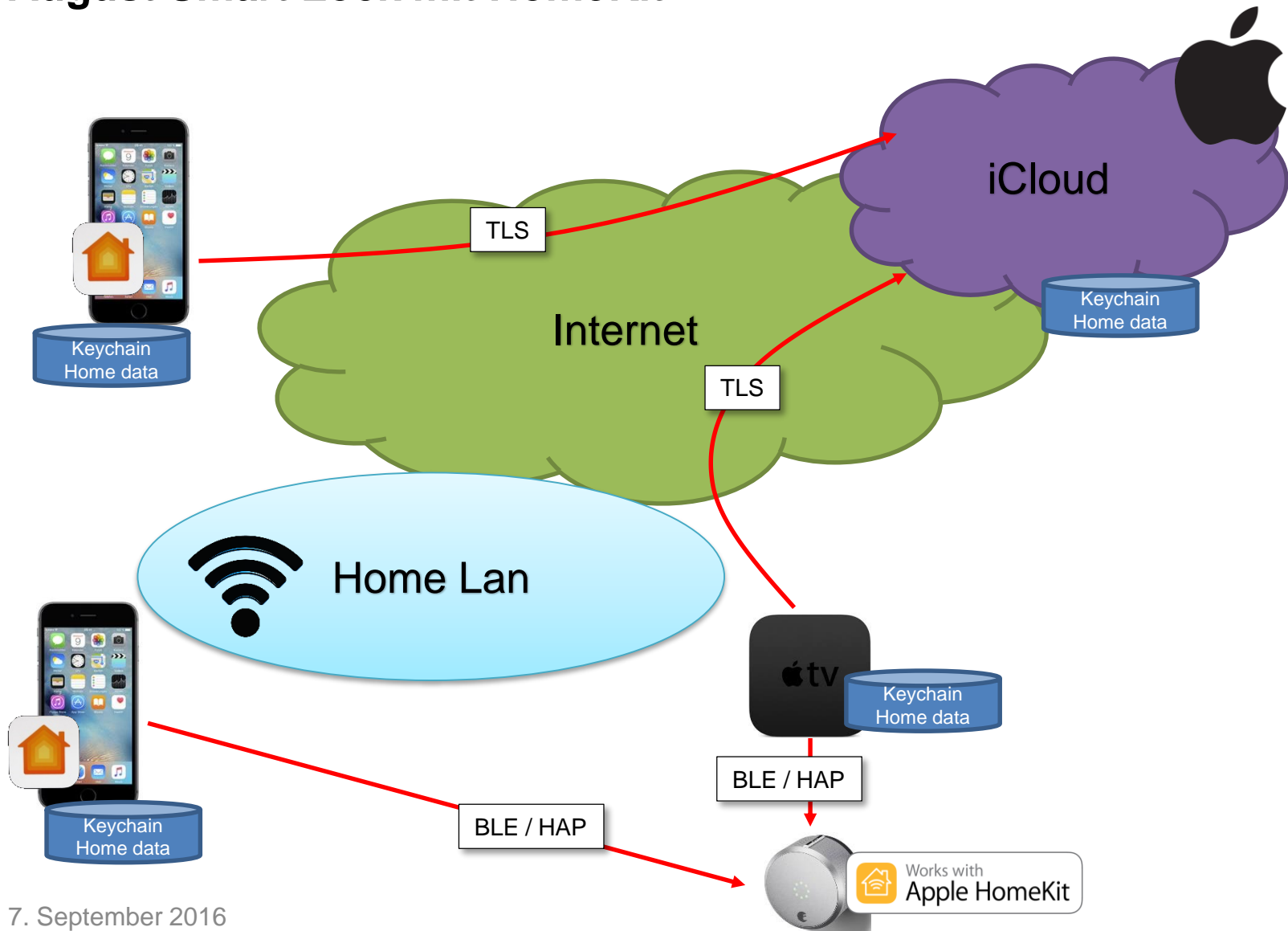
# Philips Hue mit HomeKit



# August Smart Lock



# August Smart Lock mit HomeKit



## Weitere Infos

- **Apple Home Kit**
  - iOS Security - [https://www.apple.com/de/business/docs/iOS\\_Security\\_Guide.pdf](https://www.apple.com/de/business/docs/iOS_Security_Guide.pdf)
  - Apple Home Kit - <https://developer.apple.com/homekit/>
- **Philips Hue**
  - Hacking Lightbulbs - <http://www.dhanjani.com/>
  - ZigBee Hacked - <http://fortune.com/2015/08/07/zigbee-hacked/>
- **August Smart-Lock**
  - Security of Bluetooth Locks - <http://www.theverge.com/circuitbreaker/2016/8/9/12414014/smart-lock-security-flaws-internet-of-things>

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