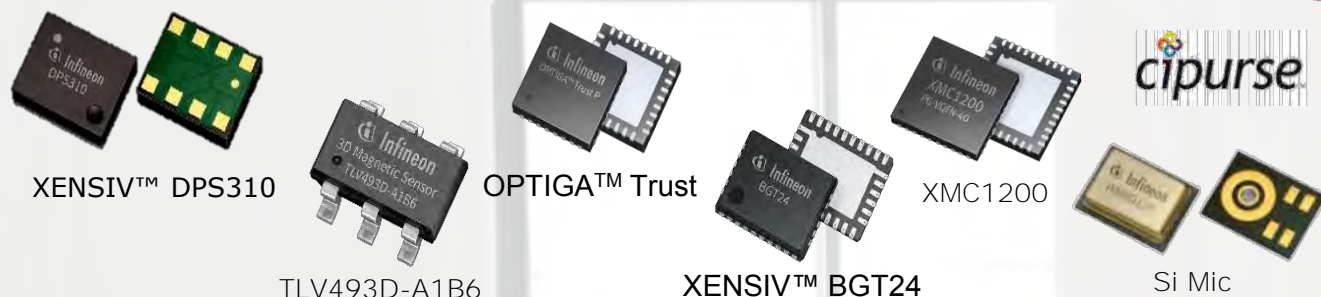




# Home Security & Safety



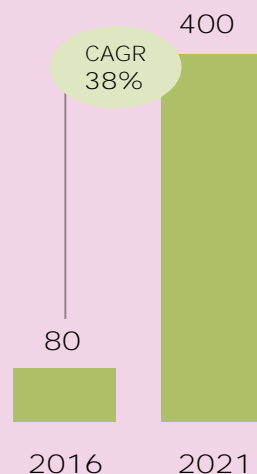
## Enabling Safer Homes without Physical Boundaries

- › Intelligent (e.g. Voice) & remote monitoring enabled by **XENSIV™ SiMic**
- › Secure motion sensing & smart intrusion / presence detection with **XENSIV™ radar sensors**, pressure sensor and magnetic sensor.
- › **Secure transmission of data by OPTIGA™ family of products** for remote management and mutual authentication.
- › High performance real-time control with XMC4xxx

## IFX Solutions to enable Use-case

- › Magnetic & Pressure sensors, Radar 24GHz / 60GHz for motion and intrusion detection.
- › SiMic for voice recognition.
- › 3D image Sensors (ToF) for facial recognition in IP camera.
- › **OPTIGA™ Family** as hardware Trust Anchor for data privacy and confidentiality.
- › **CiPurse™** as open standard smart technology for access control
- › XMC4xxx as a high performance MCU

## Security systems (mil units)



Units shipment for contact sensors, smoke detection sensors, motion sensors, flood detection sensors, smart locks, and security control cameras. Source: ABI







# Agenda

- 1 Smart Home Markets & Trends : *Why Smart Home ?*
- 2 Gearing with Infineon Solutions : *What & Where can we combine ?*
- 3 Smart Home Security is the key concern: *What & How Security ?*
- 4 Summary : *We need your Drive Today !*

# Security for connected devices

Security is the #1 concern when implementing IoT solutions\*

## Device

Differentiate products with anti-counterfeiting and Intellectual Property (e.g. software) protection



## System and service

- › Protect new services/ features e.g. confidentiality, privacy, secure remote update
- › Prevent system downtime caused by fraud and manipulation
- › Enable new business models e.g. pay per use, subscription services



\* Source: Forrester Consulting and Cisco 03/2015



# Main security concerns for our customers



Identity Protection  
against Fake Devices



Protection against  
Eavesdropping

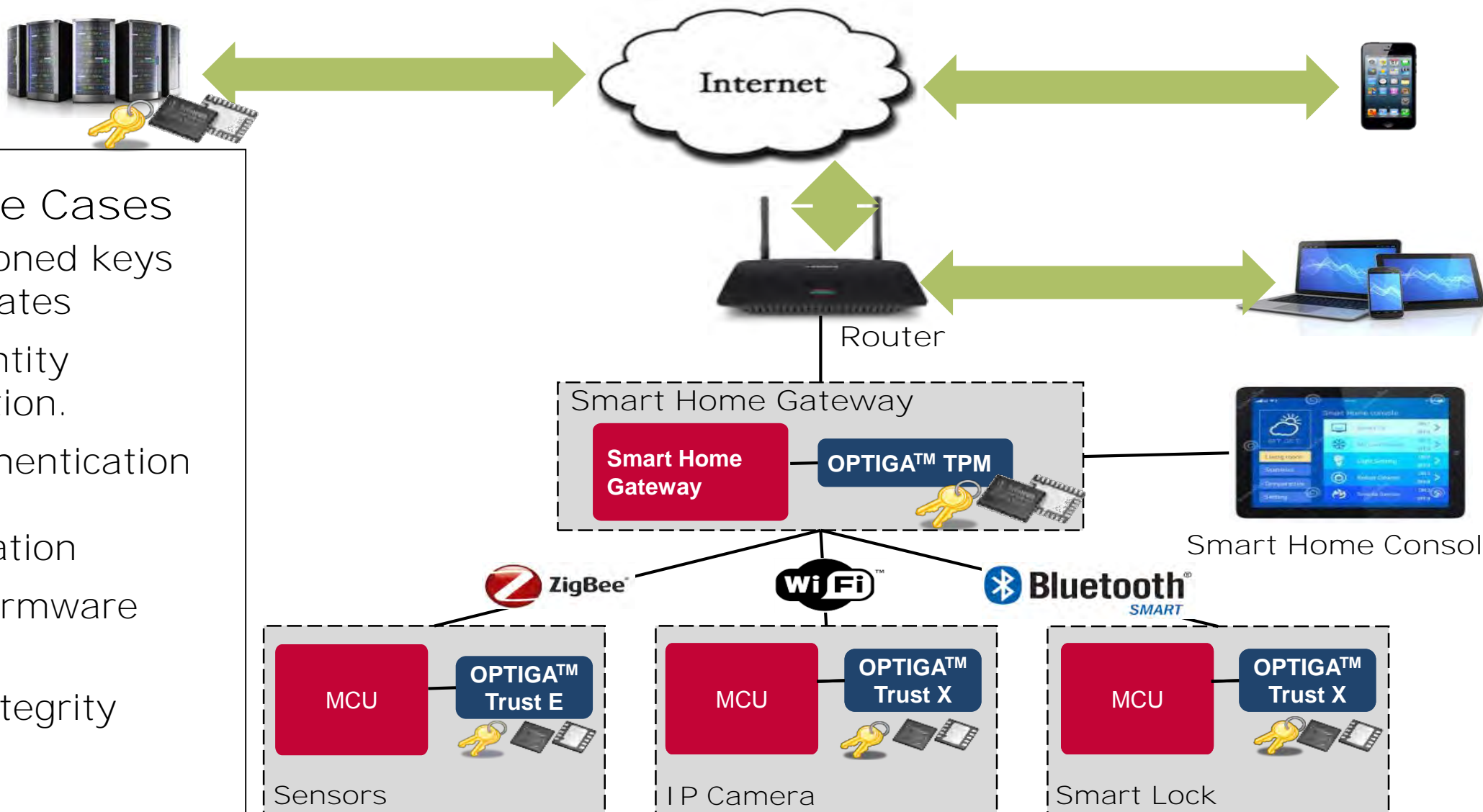


Protection against the  
Manipulation of the  
Data



Protection against  
Update of Firmware

# Smart Home Architecture



## Security Use Cases

- › Pre-provisioned keys and certificates
- › Device Identity Authentication.
- › Mutual Authentication and Secure Communication
- › Software Firmware Updates
- › Platform Integrity

# Agenda

- 1 Smart Home Markets & Trends : *Why Smart Home ?*
- 2 Gearing with Infineon Solutions : *What & Where can we combine ?*
- 3 Smart Home Cross Division Application Pilot: *What & How ?*
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# Call for action

**Let's** Grow Deeper and Create Success together... Promoting and supporting our smart home PP to a wider market



## Team UP for Best result!!





Part of your life. Part of tomorrow.

