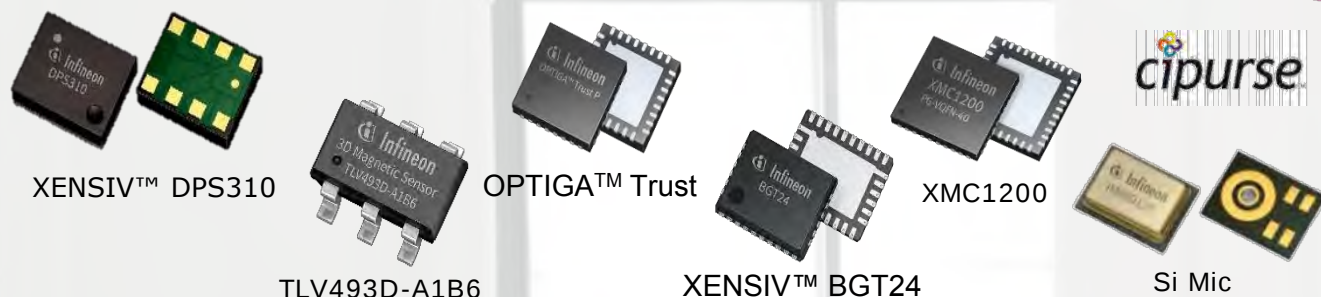




Home Security & Safety



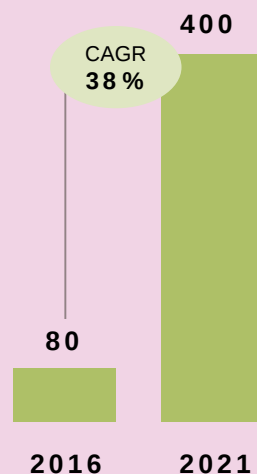
Enabling Safer Homes without Physical Boundaries

- › 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**

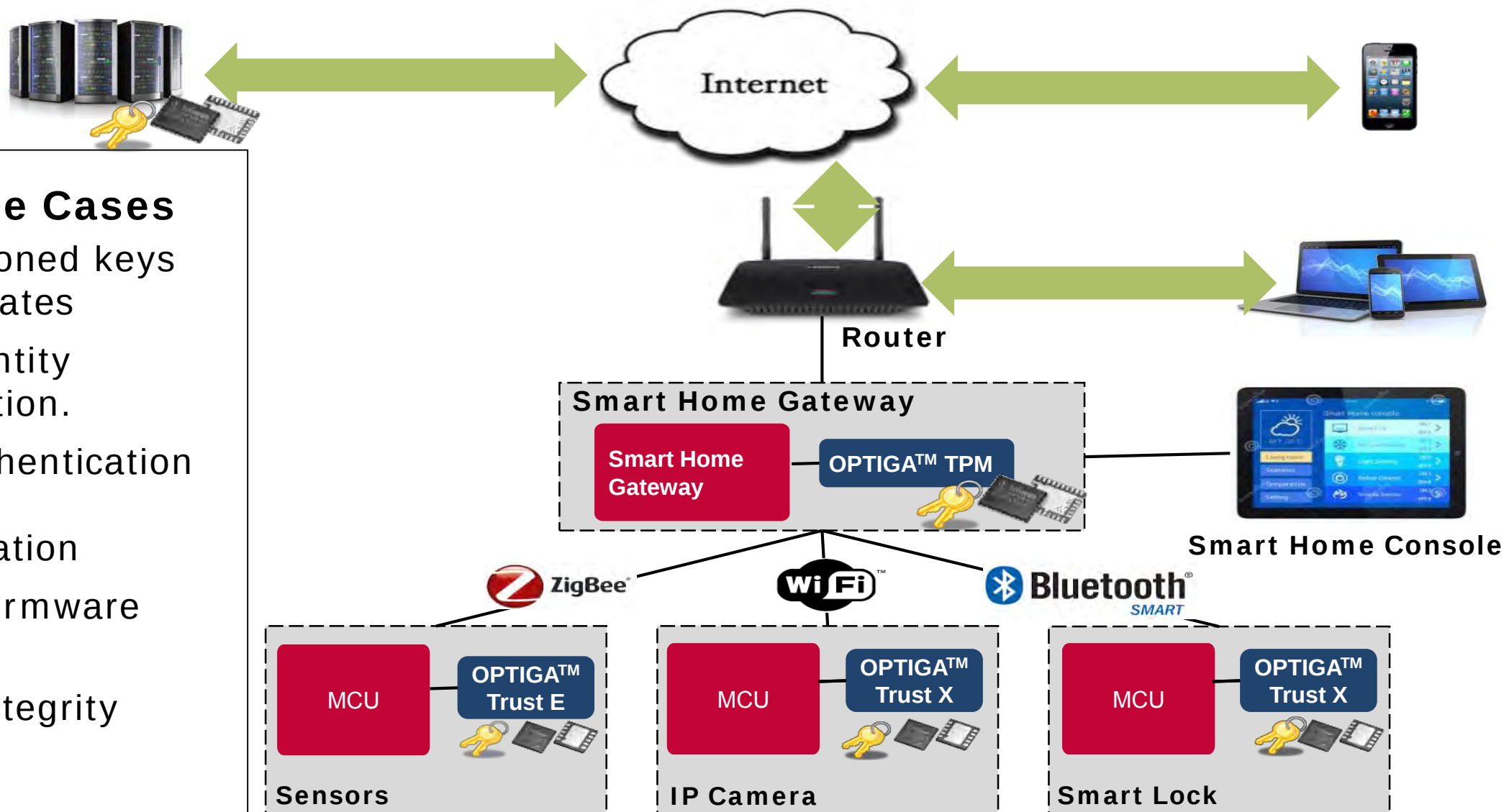


Protection against
Update of Firmware

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 ?*
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- 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

A photograph of a family of four in a modern kitchen. A man in a light blue shirt is shaping dough on a baking tray. A woman in a striped shirt is smiling and holding a small piece of dough. A young girl with a pink flower in her hair is watching. A young boy with glasses is also looking on. The kitchen has white cabinets, a stainless steel sink, and a wooden countertop. A pink rolling pin and other baking ingredients are visible on the counter.

Team UP for Best result!!



Part of your life. Part of tomorrow.

