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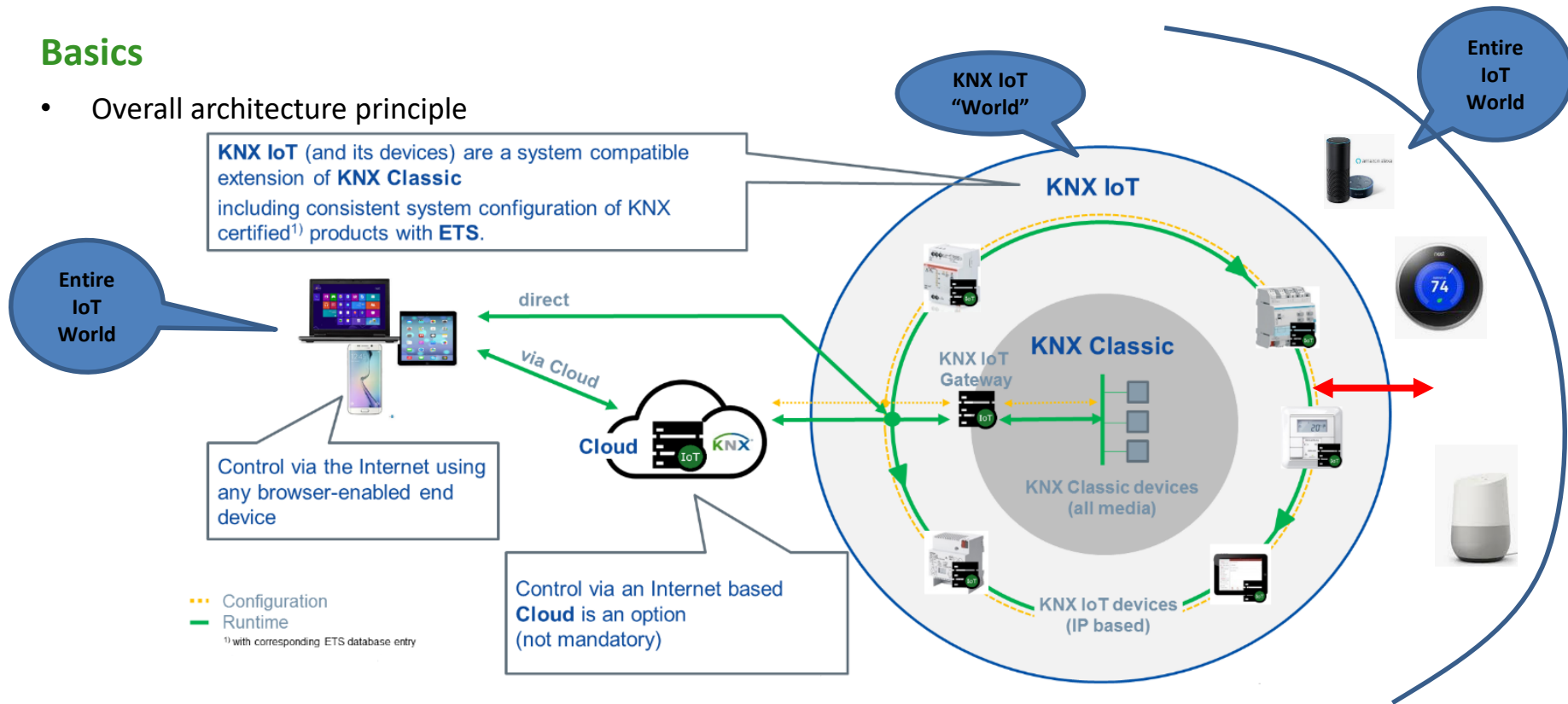
## KNX - IoT



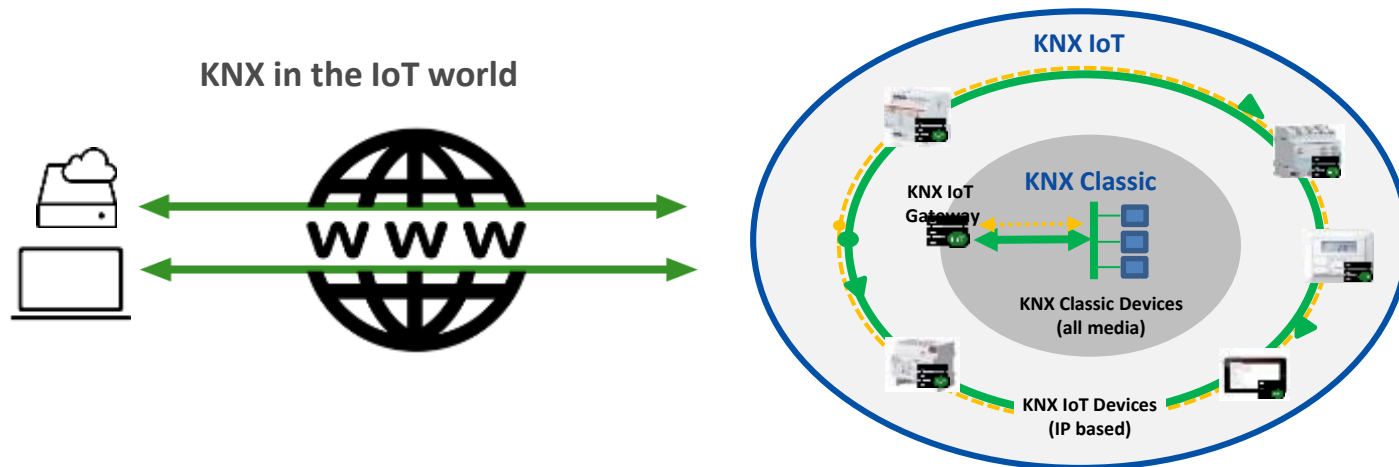
# KNX IoT Principles

## Basics

- Overall architecture principle



## KNX IoT more details

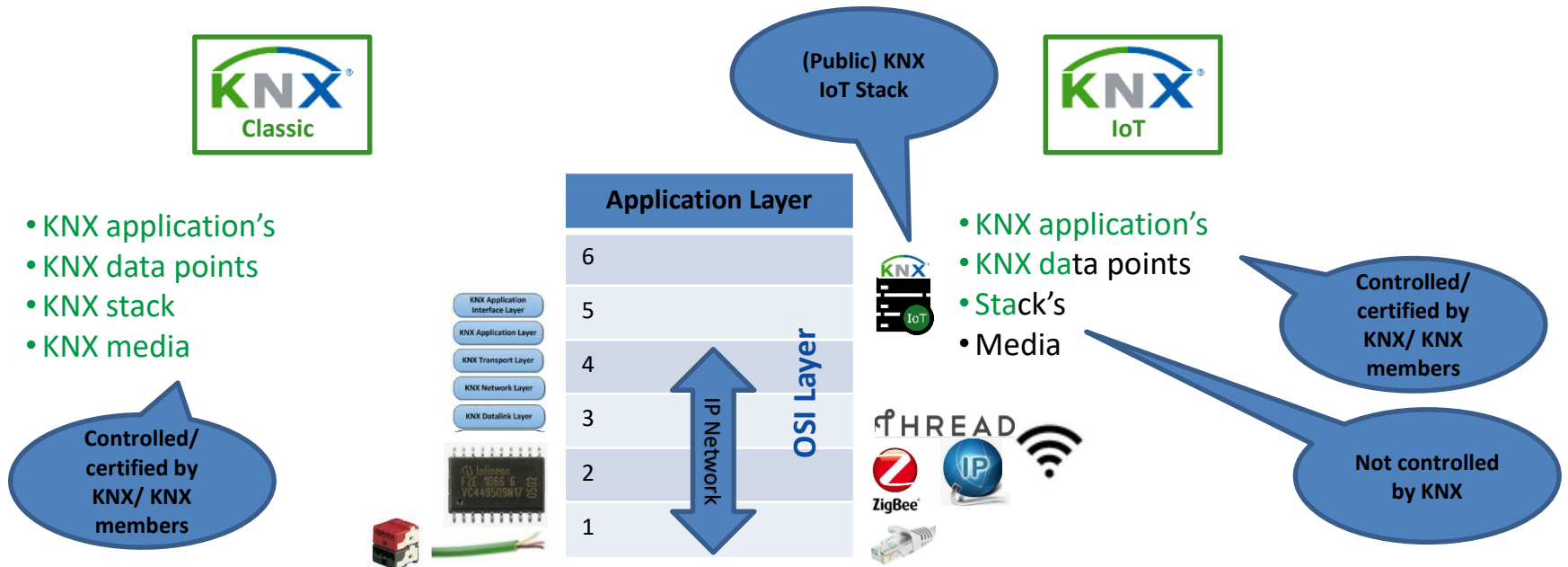


- KNX IP devices no longer have to sit behind a KNX IP Gateway and be based on KNX TP/RF to be part of an IP network
- KNX IoT devices fully “sit” on IP and communicate on IP
- KNX IoT devices talk the IP protocol that is not defined by KNX (including security mechanisms) however semantic, proven/certified interoperability and tool access remain main assets of KNX.
- TP and RF and all KNX specific media are complemented by new IP based network solutions like e.g. Ethernet, WiFi and Thread (wireless)

# KNX IoT Principles

## System #1

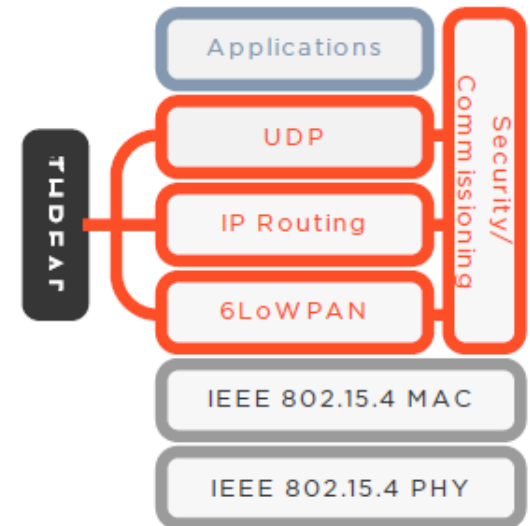
- Important principles we will keep also in KNX IoT → interoperability, backward compatibility, ETS.



# THREAD GROUP | What is Thread?

A low power, secure and Internet-based mesh networking technology for IoT products.

- Built on proven, widely available and supported technologies
  - Uses IPv6 (6LoWPAN)
  - Runs on existing 802.15.4 silicon from multiple providers
- Legacy-free design with updated architecture
  - Designed with a new security architecture to make it simple and secure to add and remove products
  - Supports 250+ products per network
  - Designed for very low power operation





## Thread RF

# THREAD GROUP | Who Is Thread?

The Thread Group is:

- Thread Group is a technology alliance focused
- Thread Group is focused on making Thread the foundation for the internet of things in homes and commercial buildings.
- The Thread Group provides a rigorous certification program to ensure device interoperability and a positive user experience.
- Thread is backed by industry-leading companies including Arm, Nest Labs, Nordic Semiconductors, NXP Semiconductors, OSRAM, Qualcomm, Schneider Electric, Siemens, Silicon Labs, Somfy and Yale Security.

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- Independent, vendor-neutral and open to all — any entity can join
- Organizational membership only — one membership, one vote

# Thanks.

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