

Importance of IoT in Service Provider Gateways



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- **Chris and Joep - live talking heads for Intro**

Is IoT Relative and should I participate?

- **75% of buyers in US have a smart gadget at home**
Source – Digitized House
- **By 2023, the Smart Home industry automation in US homes will exceed 50%**
Source – Wonder
- **The smart homes market was valued at USD 79.13 billion in 2020, and it is expected to reach USD 313.95 billion by 2026 and register a CAGR of 25.3% over the forecast period (2021 - 2026).**
Source – Mordor Intelligence
- **47% of US millennials use smart home products today**
Source – Alarms.org

Traditional Service Provider services = “Triple-Play”



Television



**High-Speed Internet
plus Home Wi-Fi**



Home Phone

IoT / Smart Home is the Fourth Play



- Security
- Lifestyle
- Multi-family buildings
- Wellness
- Energy management
- Data gathering

IoT Controller Evolution

- **Dedicated Hubs / Border routers** –
 - Original Controller Option.
- **Smart Speakers** –
 - Example of multi-purposing a gateway
- **Wi-Fi Extender w/ IoT** –
 - New trend. Convenient location to host IoT radio.
- **Wi-Fi Gateway/Router w/ IoT** –
 - Growing trend. Obvious place to initiate IoT control/network.



PiP Placeholder
Window
(Remove Before Distribution)

- **Place holder for Testimonial video from Comcast**

Business Model Aspects

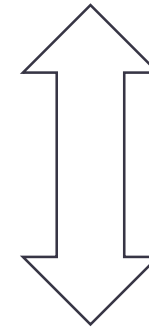
- CAPEX
- OPEX
- Churn rate
- ARPU
- “Table stakes”



Business Strategy

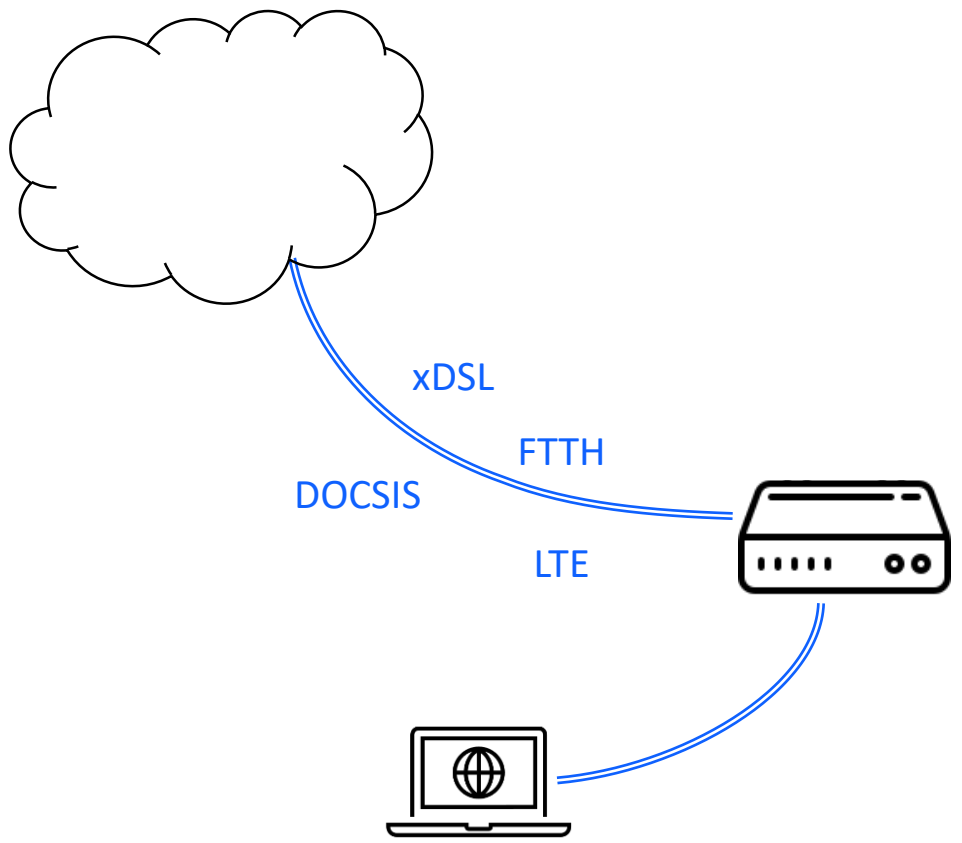
- **Internet Access To the Home**
- **Internet Access In the Home To the Device**
- **Connected Home Experience**

Passive

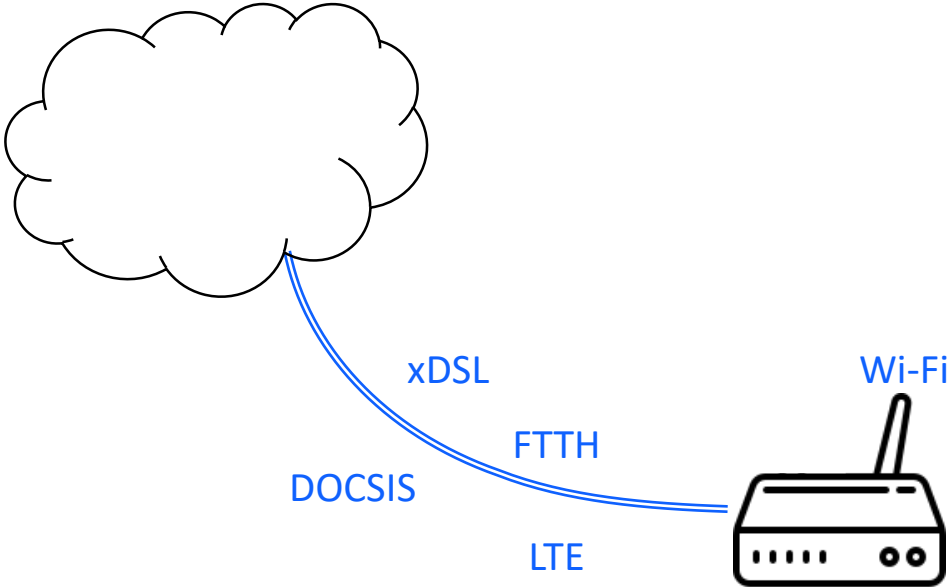


Proactive

In the Beginning: Wired Internet Access Only

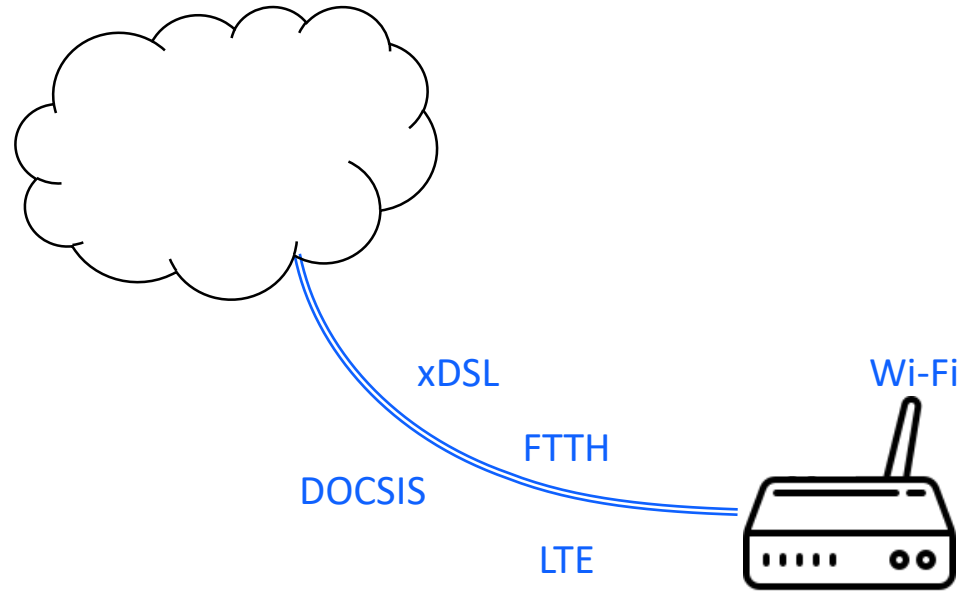


Service Providers start to offer Wi-Fi



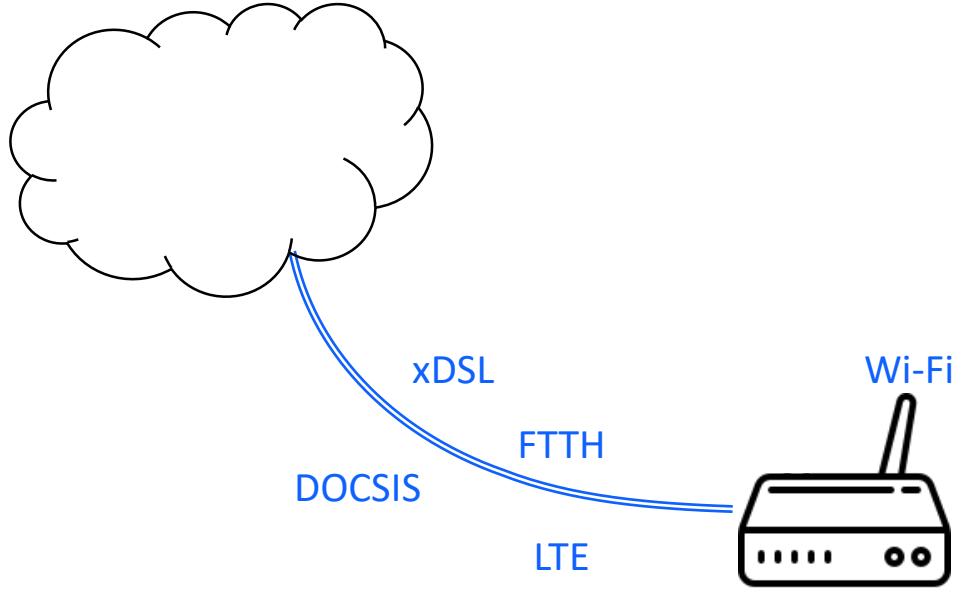
Capex	Opex	Churn	ARPU
↗			

Poor Wi-Fi Backfires



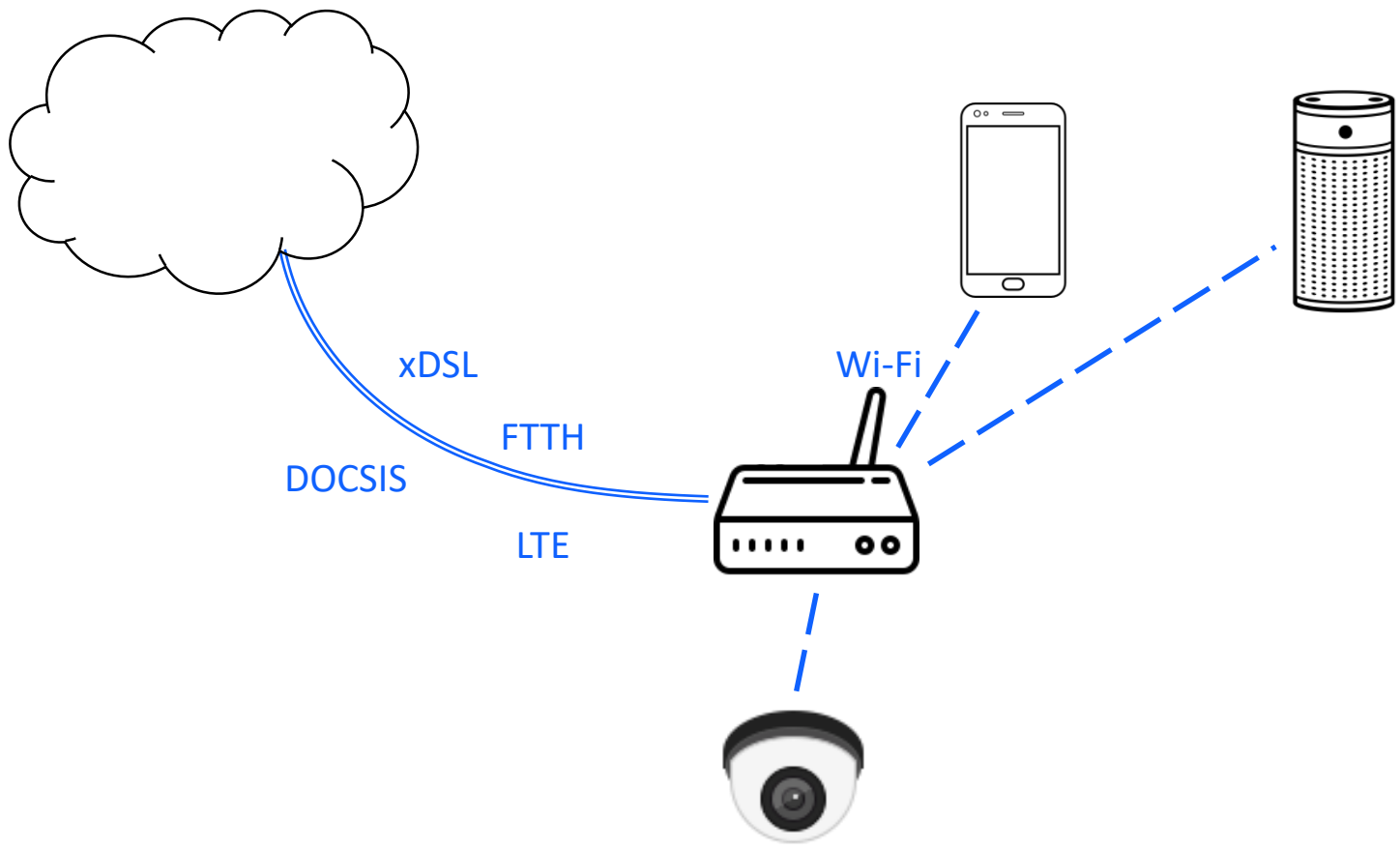
Capex	Opex	Churn	ARPU
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Good Wi-Fi Becomes a Minimum Offering

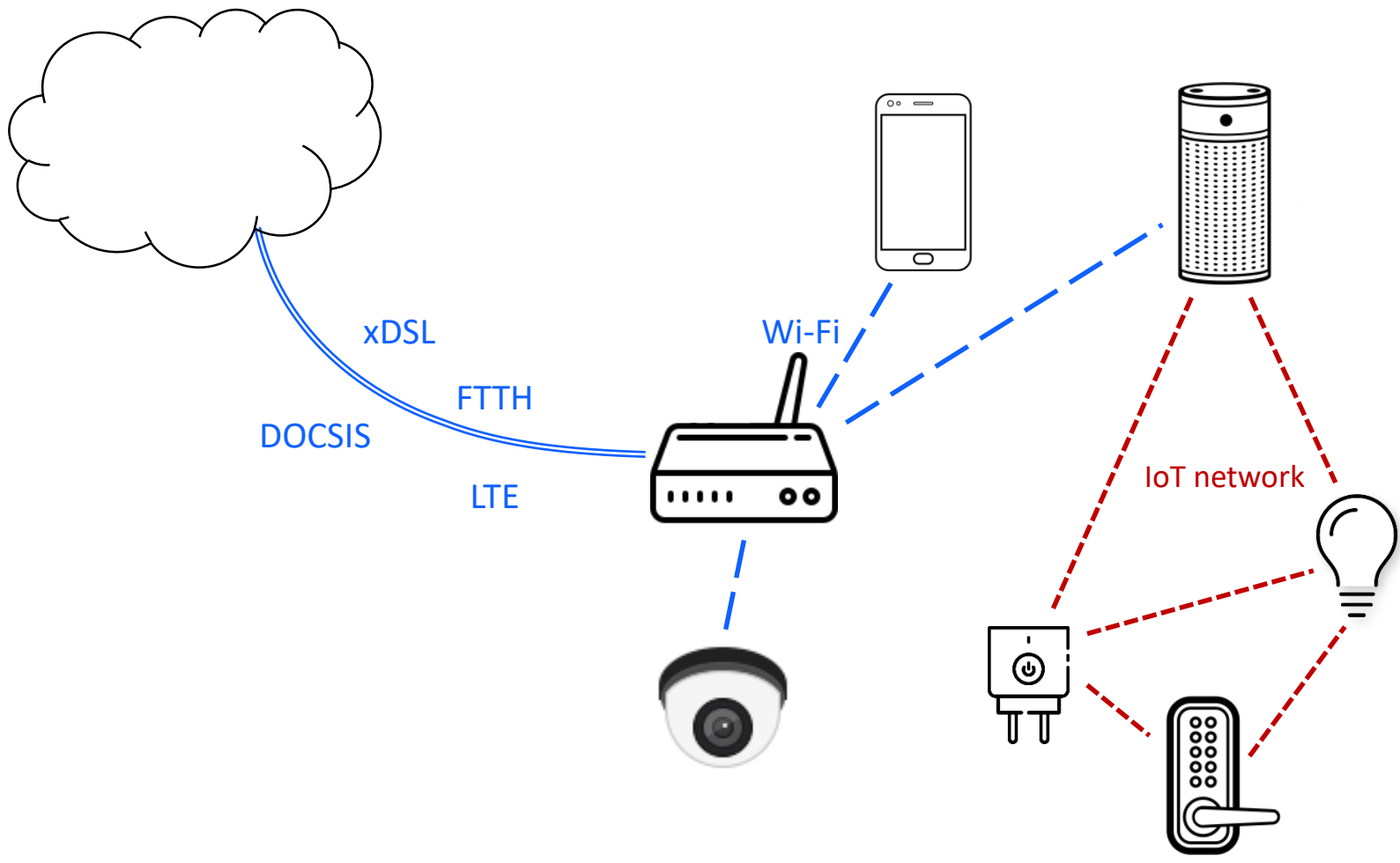


Capex	Opex	Churn	ARPU
↗↗	=	=	↗

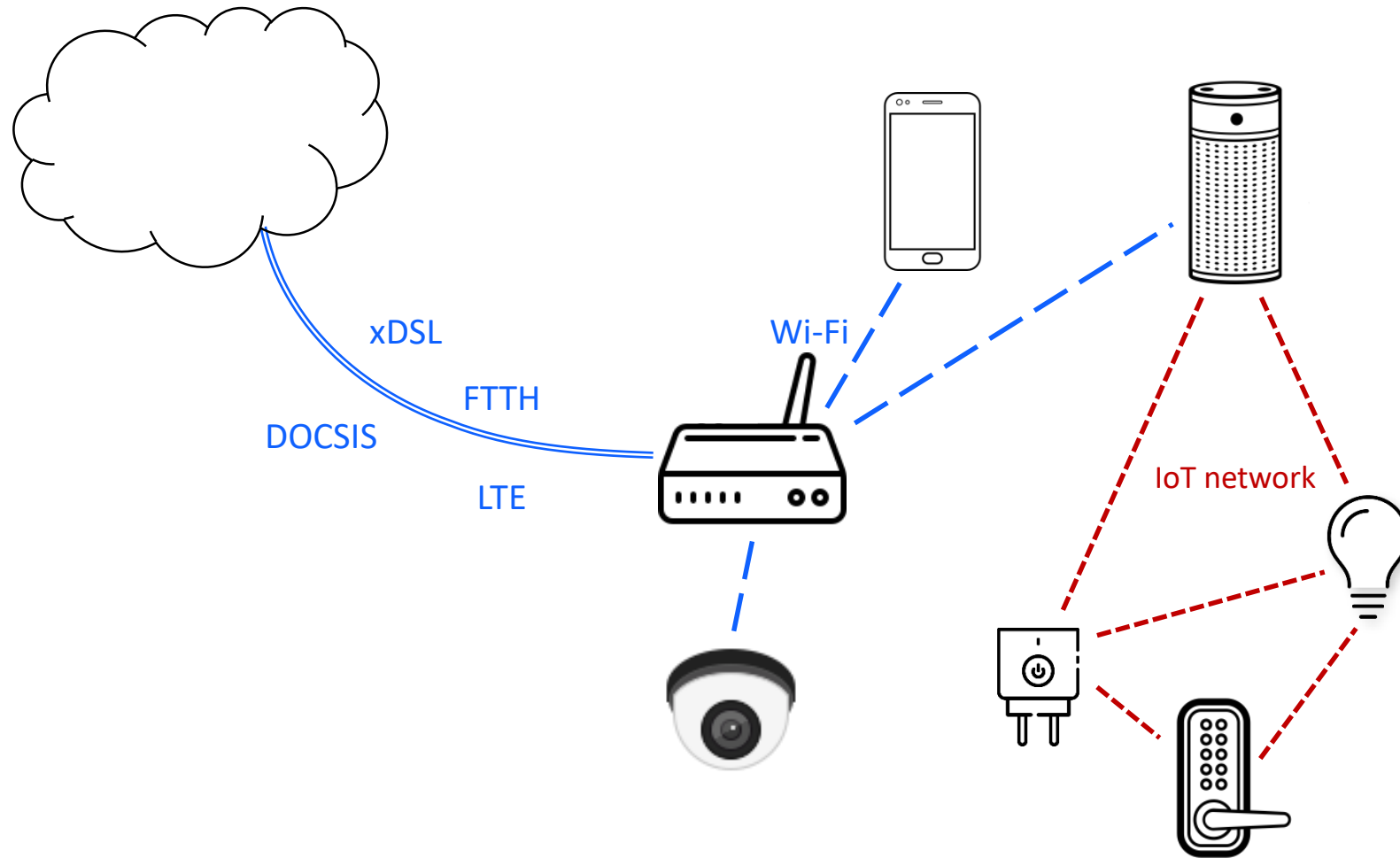
Wi-Fi Networks Grow Bigger



Smart Speakers Build own IoT Networks

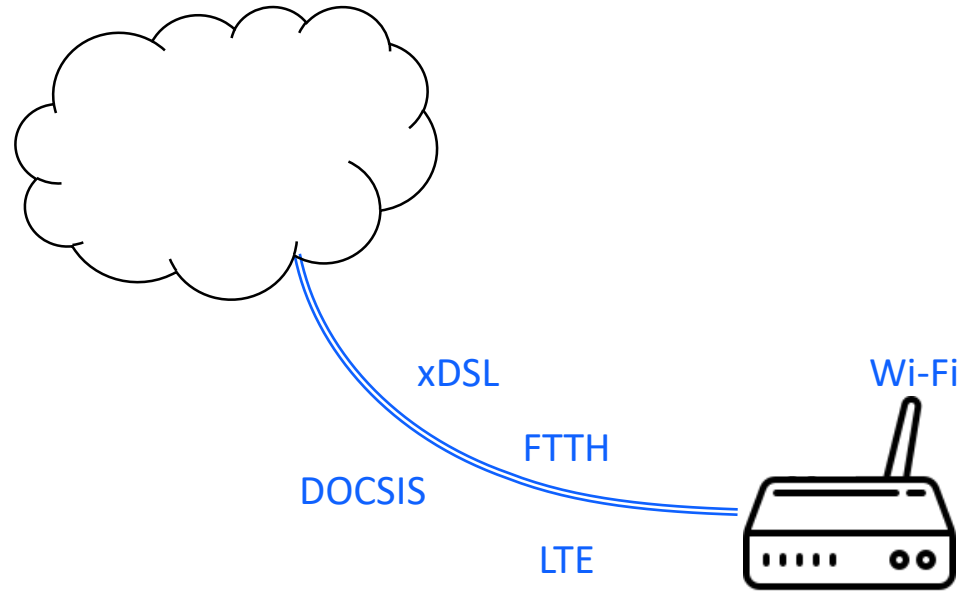


The Result of a Passive Approach to IoT



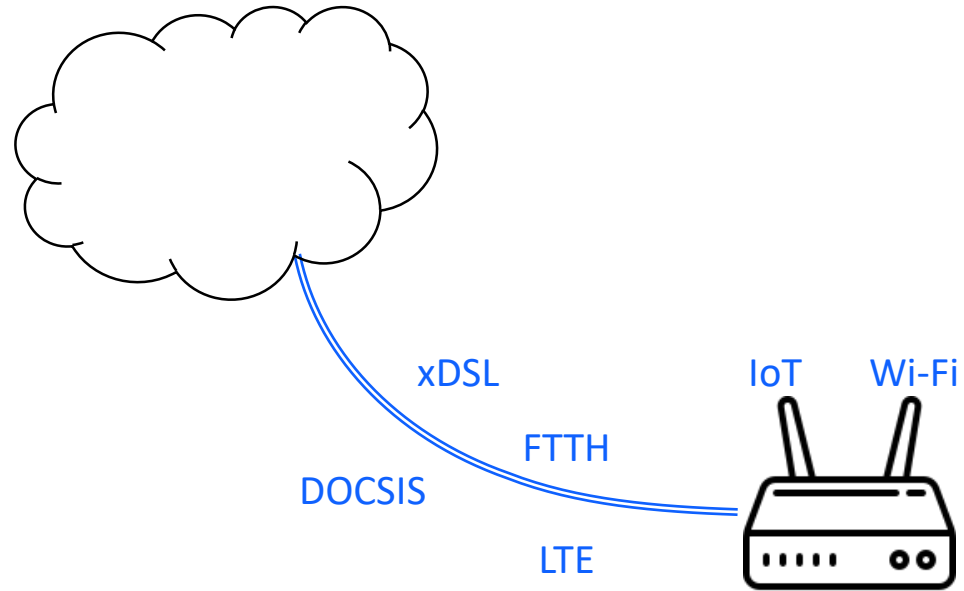
Capex	Opex	Churn	ARPU
↗↗	↗	↗	↘

Good Wi-Fi is a Minimum Offering (Proactive Scenario)



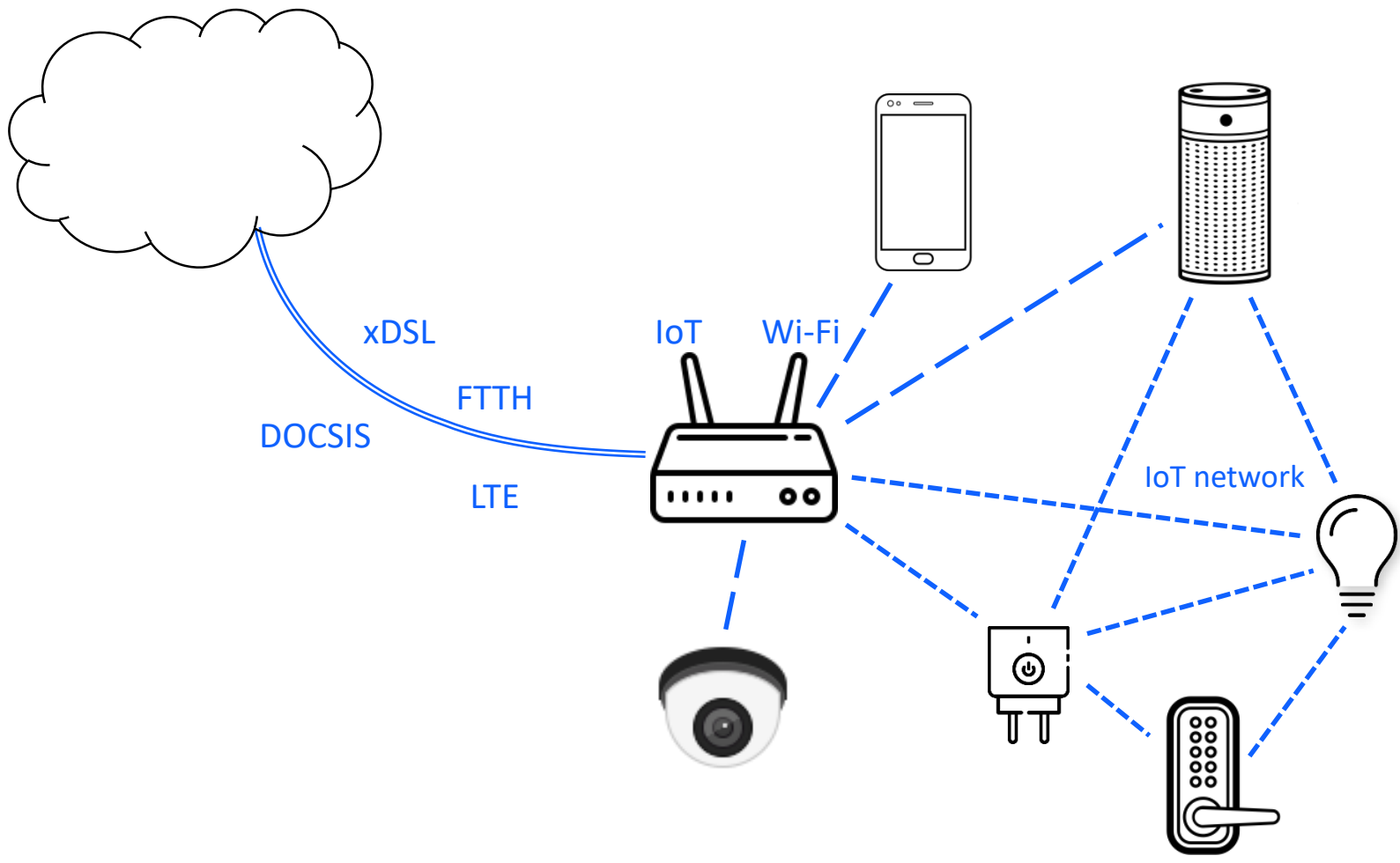
Capex	Opex	Churn	ARPU
↗ ↘			

Good Wi-Fi and IoT Considered Minimum Offering



Capex	Opex	Churn	ARPU
↗↗			

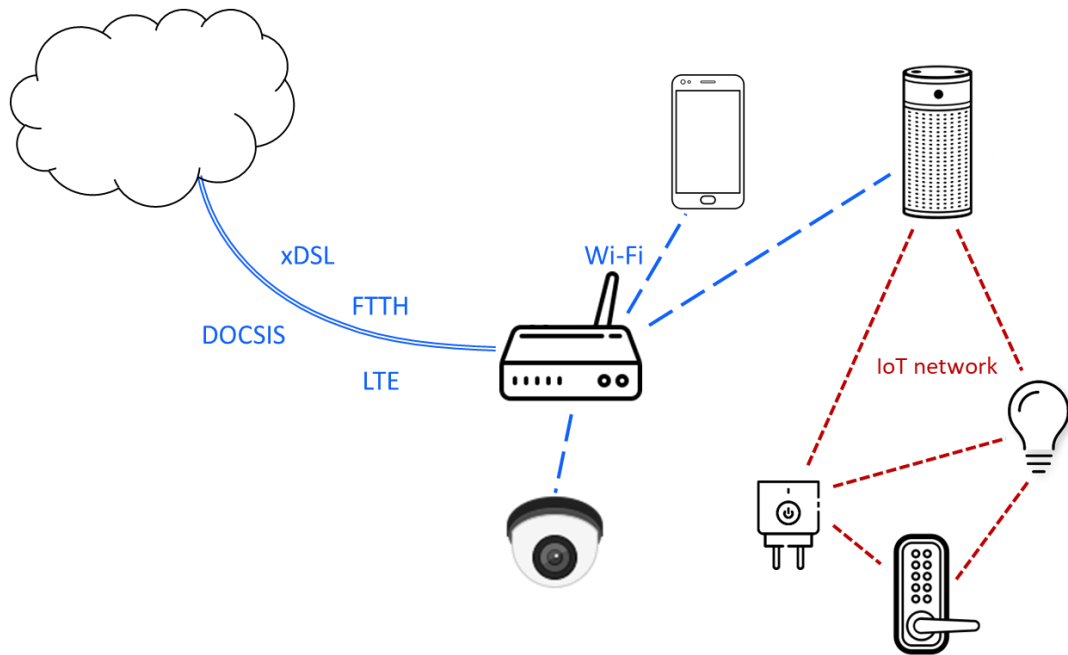
Service Provider Offers Smart Home Services



Capex	Opex	Churn	ARPU
↗↗	=	↘	↗↗

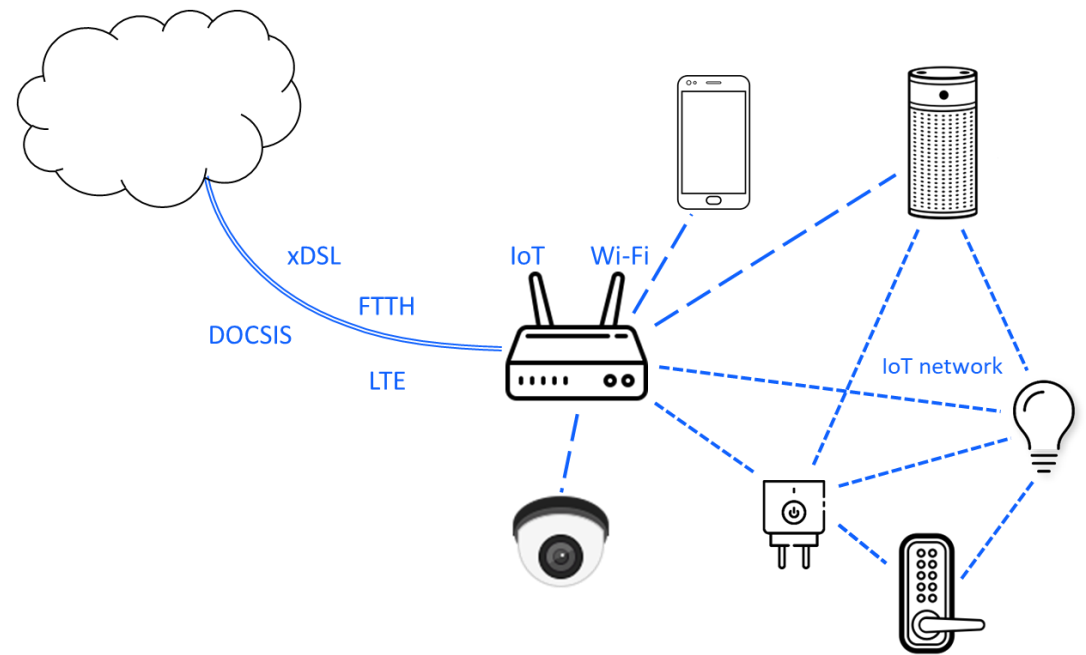
Passive versus Proactive Approach to IoT

Passive



Capex	Opex	Churn	ARPU
↗↗	↗	↗	↘

ProActive



Capex	Opex	Churn	ARPU
↗↗	=	↘	↗↗

Gateway Architectural Considerations

- Protocol:
- Multi-protocol options:
- What does app partner use?



Does Thread / Matter change landscape for the Wi-Fi gateway?

- **Matter devices use Wi-Fi or Thread**
- **With Wi-Fi and Thread in the gateway - can manage both networks**
- **No dependence on 3rd party border routers**
- **Prevent interference between Wi-Fi and Thread via Packet Traffic Arbitration**
- **Option to use Thread radio for Zigbee simultaneously**



Bridging Protocols

- **Challenge:**

Multiple IoT protocols/devices in single home.



- **Solution:**

Gateway "bridge" can link multiprotocol networks.
(ZW/ZB/BLE/WiFi/Matter etc...)



Gateway Equipment examples

- **Askey**: Wifi gateway with ZW / ZB
- **Technicolor**: Gateway + Wifi extender with ZW and ZB / Matter
- **Commscope**: Wifi Gateway with ZW and ZB / Matter
- **Sercomm**: Wifi Gateway with ZW / ZB
- **Arcadyan**: Wifi Ext with ZW / ZB
- **Sagemcom**: Gateway with ZW / ZB

ODM Testimonials / Examples

- Placeholder for Technicolor video testimonial – 2 minute video

Q & A – Live Video of Moderators

Thank You:

- **For independent meetings / consultation:**

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