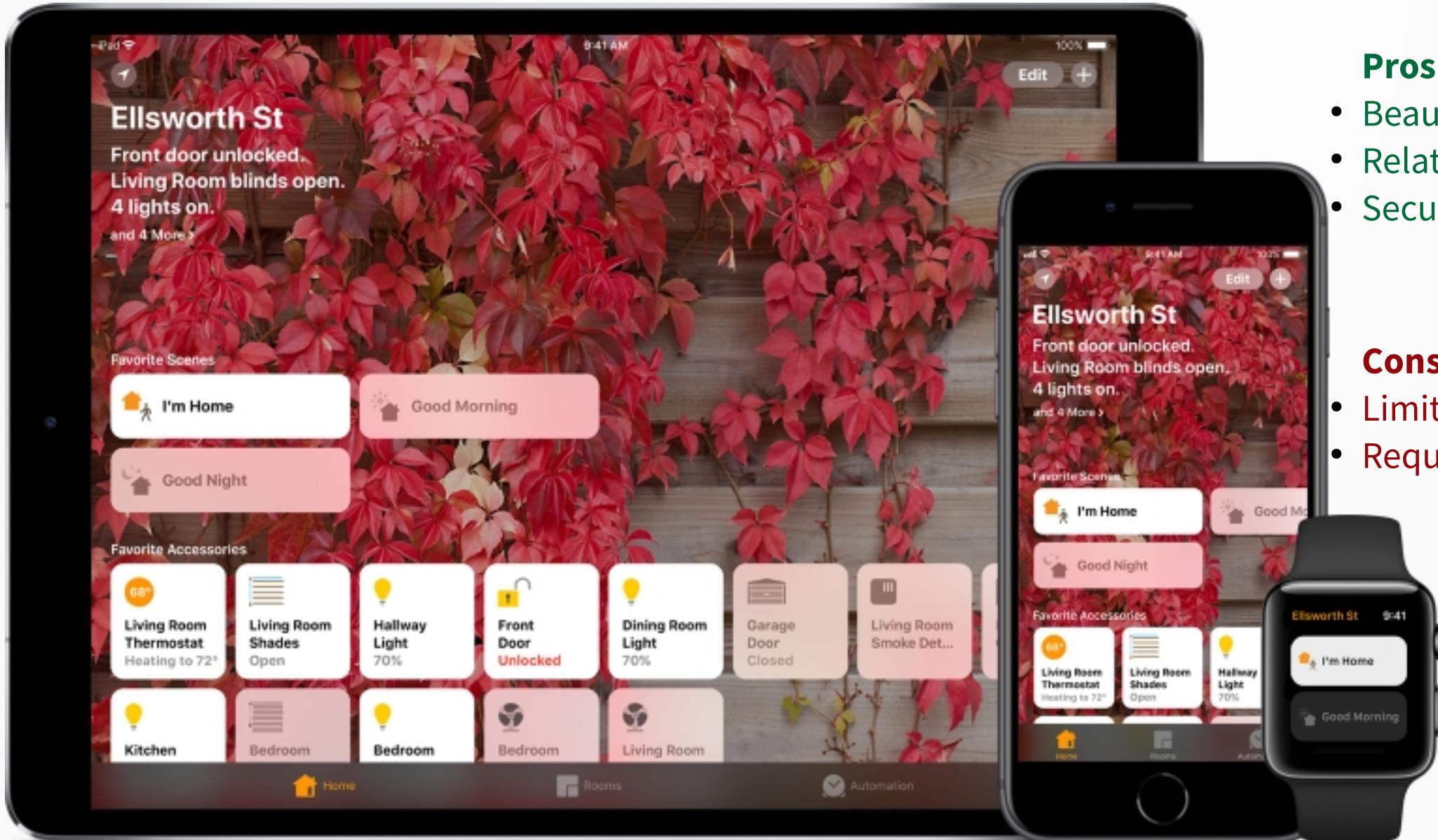


The Digital Home

A Home Automation Solution Proposal.

The Home app (Apple HomeKit)



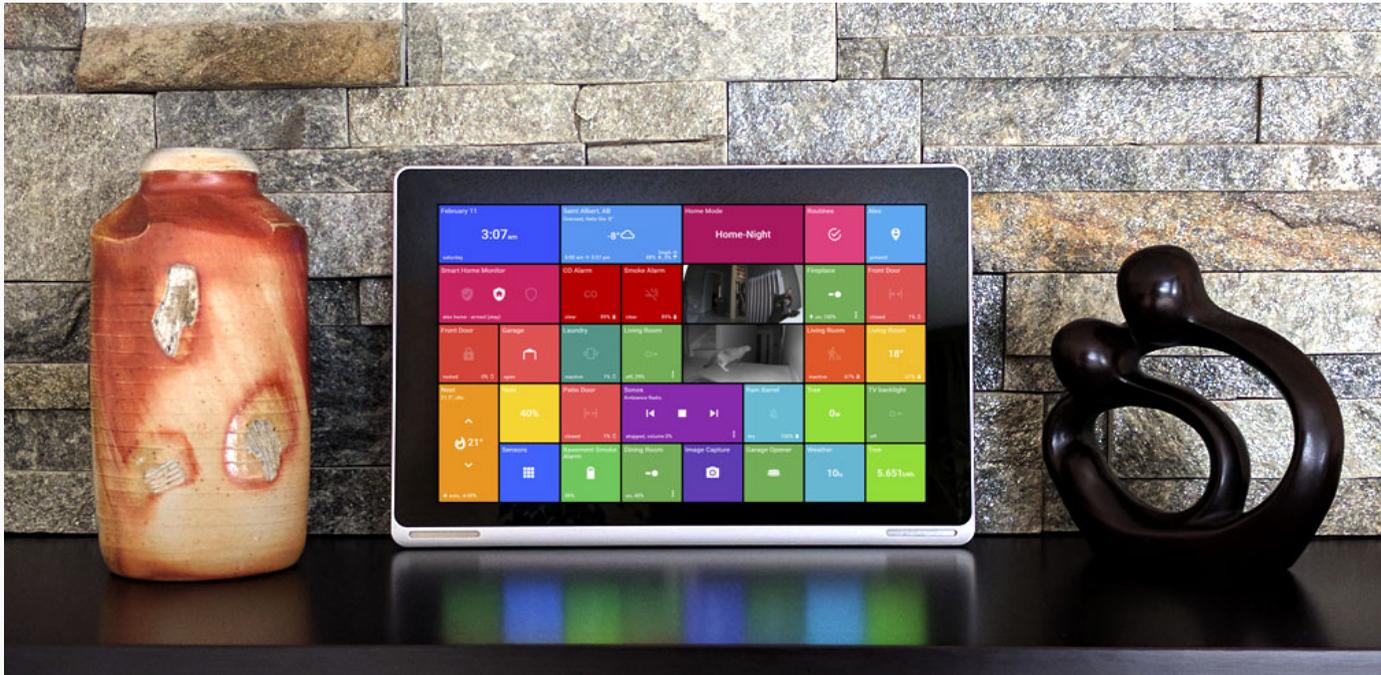
Pros

- Beautiful Design
- Relatively reliable
- Secure

Cons

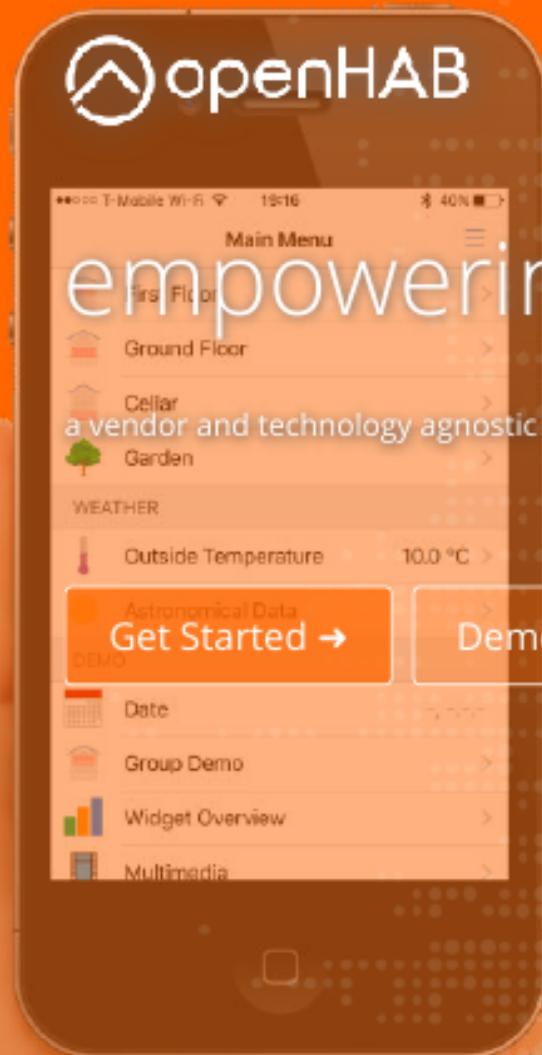
- Limited device selection
- Requires iOS devices

ActionTiles (Samsung SmartThings)



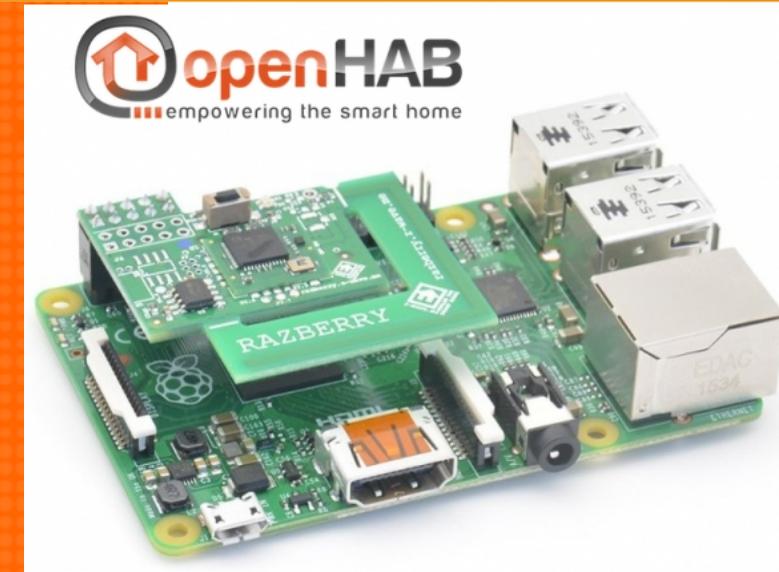
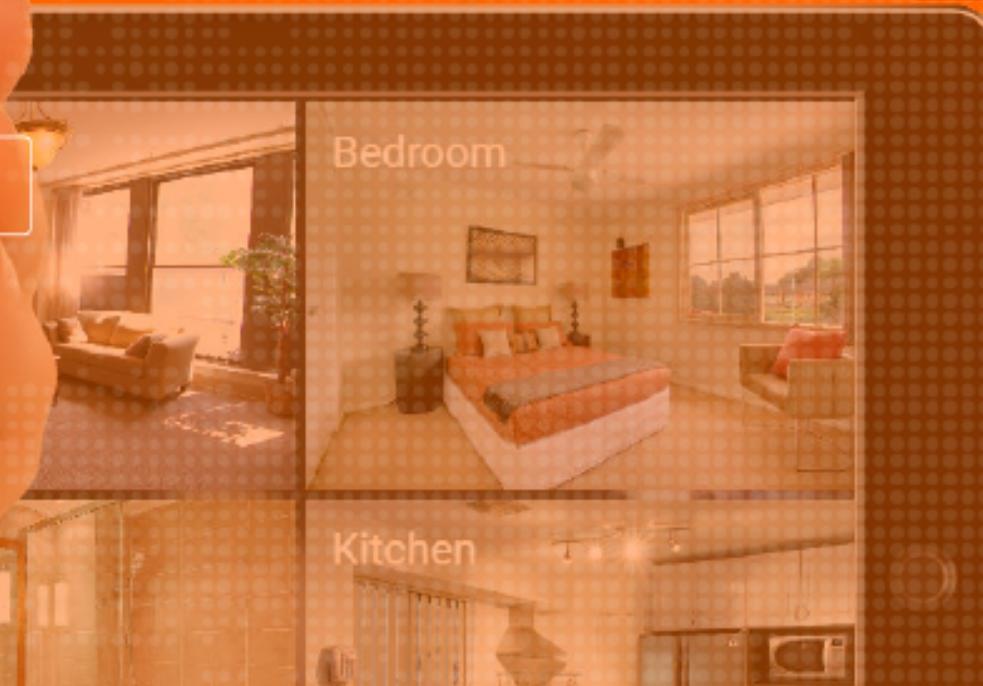
Terry Home Mode Home terry home - disarmed		Smart Home Monitor 	
San Francisco, CA Mostly Cloudy, feels like 64° 64° 7:34 am ☀ 6:11 pm 59% ☁ 60% ↑ 3mph 🌬		Deuce Lamp off	Stairs on, 80%
Garden Hill LEDs off	Back Under on, 40%	Helios Bench 0W	Helios Bench 25.08kWh
Helios Bench off	Lock Back Door locked 63% 🔋	Lock Front Door locked 71% 🔋	Office Standing Lamp off, 40%
Den Doorway Motion 66° 89% 🔋	Theatre Motion SmartSense active 100% 🔋	Den Doorway Motion inactive 89% 🔋	Laundry Room Motion inactive 89% 🔋

OpenHAB (Open source)



empowering the smart home

a vendor and technology agnostic open source automation software for your home



Pros

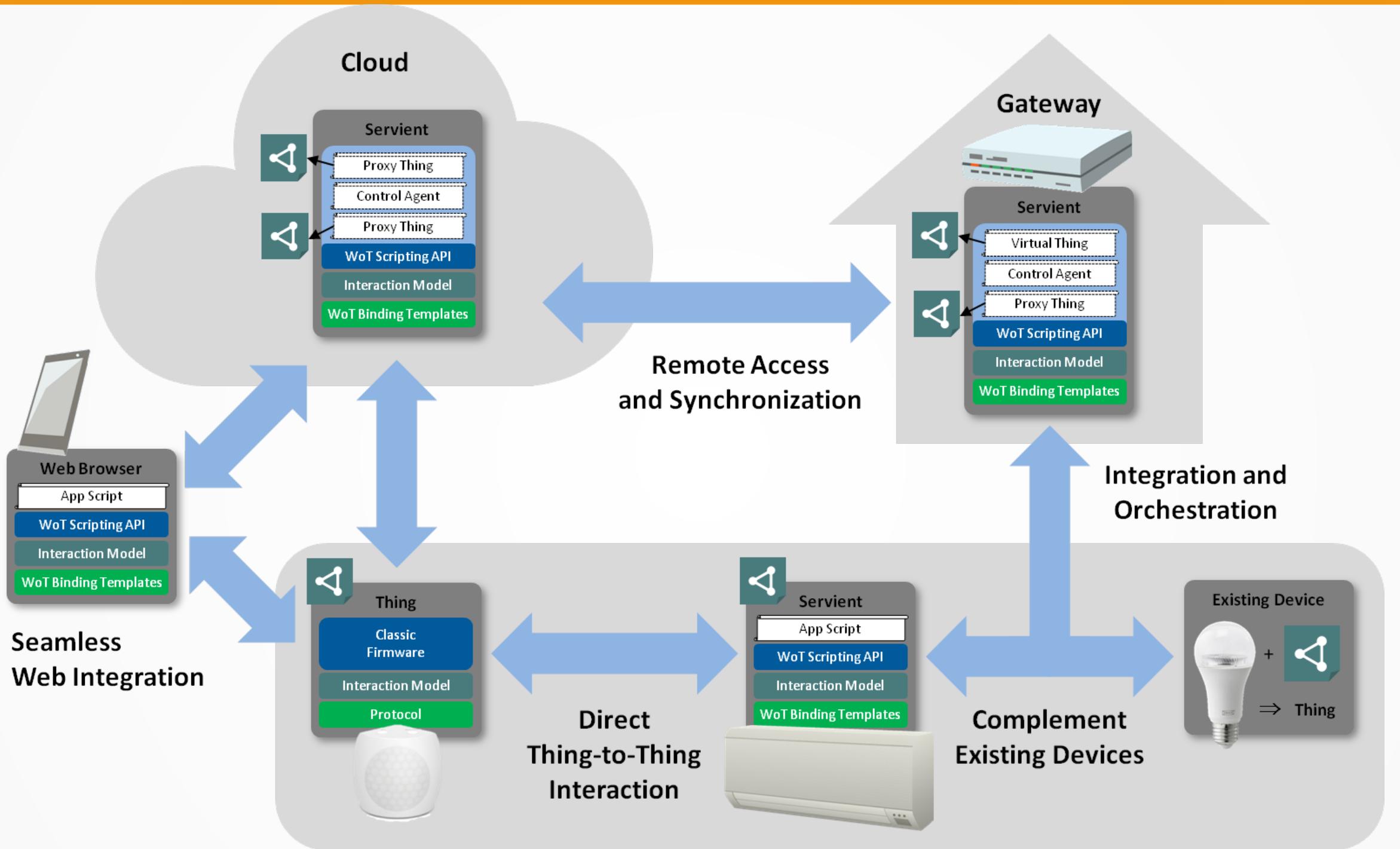
- Supports most devices.
- Runs on many APIs.

Cons

- Requires some hacking skills

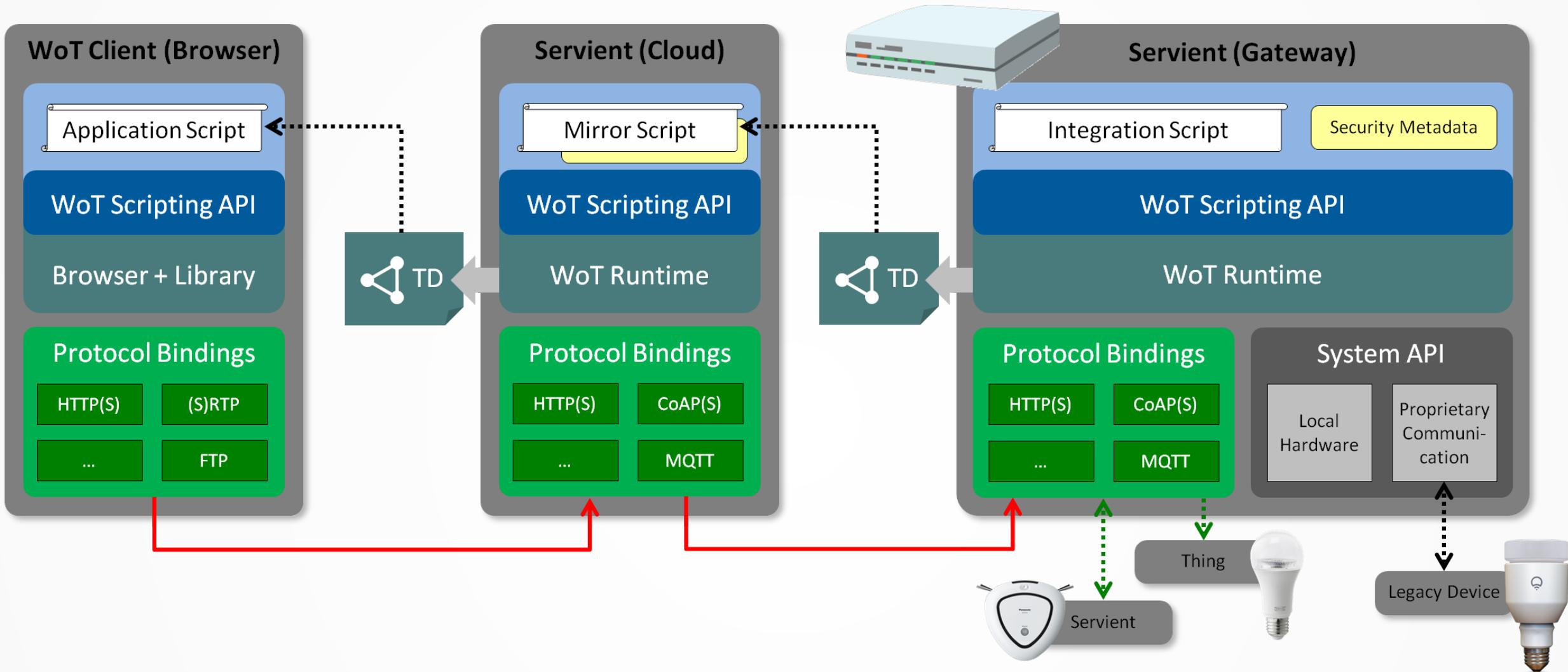
Web of Things (WoT) Architecture

The W3C Web of Things (WoT) is intended to enable interoperability across IoT Platforms and application domains.



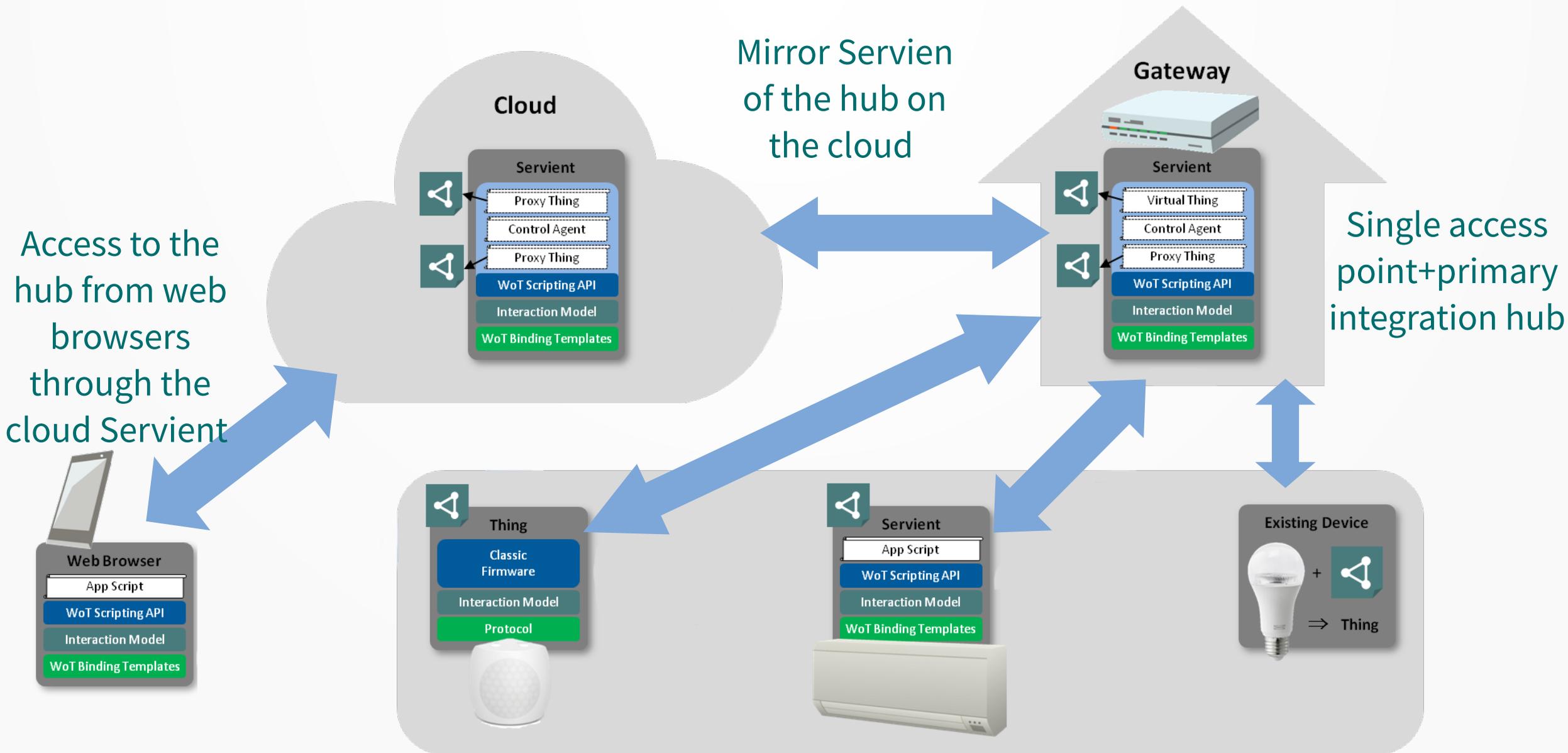
Abstract Architecture of W3C WoT

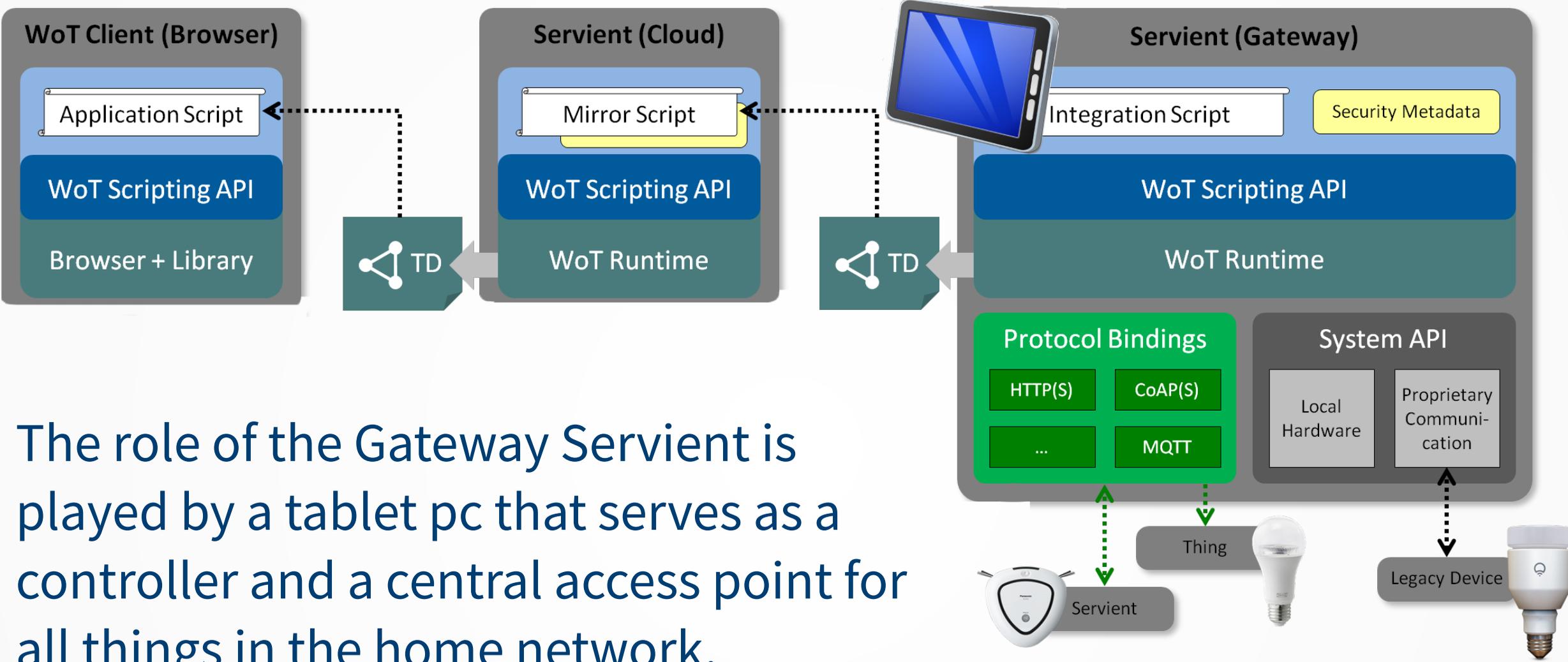
Servient on Cloud Server and Gateway



The Thing Description of the Servient on the cloud server can be just a mirror of that on the gateway, since it will generally just pass interactions directly through.

Proposed (WoT) Architecture





The role of the Gateway Servient is played by a tablet pc that serves as a controller and a central access point for all things in the home network.

User Interface Design Principles

- Same look on multiple platforms
- Minimal design
- Static Home button
- High contrast colors
- Control features in the back pages



Apartment, MreketalStr. 48, (Home)

Good Morning

Good Night

Welcome Back

...

Movie Night

Studying Time

...



Occupancy (3in)



Lights (7on)



Doors (1 locked)



Outlets (4on)



Wi-Fi (3online)



A.C. (off)



Heater (on)



TV (off)



Desktop (on)



Laptop (off)



Mobiles (3in)



Calendar (5.7.18)



Consumption (30w)



Windows(1open)



Find Things

...