

Application Developers Roundtable



Moderator



Wojtek Makowski

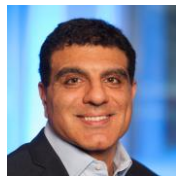
Orange
Vice President
CPE Ecosystem



Gilberto Mayor
Beegol



George Trif
Bitdefender
Director, Software
Engineering - B2B2C



Bob El-Hawary
Cognitive Systems
EVP Global Sales



Magnus Almquist
Cyber adAPT
Vice President Business
Development & Sales



Knut Joar Strømmen
Domos
Senior Developer



Joe Valencia
Origin Wireless AI
Chief Product Officer



Yaron Benita
SAM Seamless Network
VP of R&D

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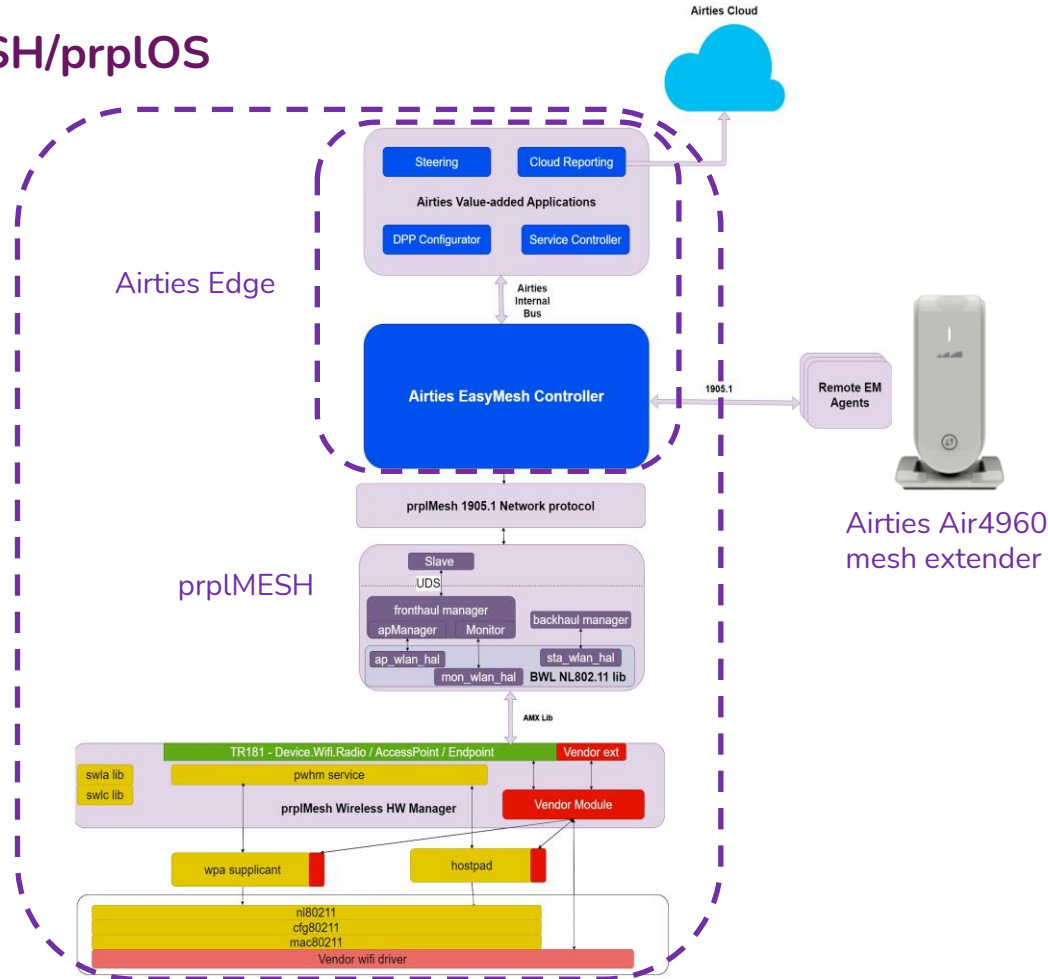


Airties Edge on prplMESH/prplOS

Airties Edge running on prplMESH EasyMesh™ agent (Turriss Omnia GW), onboarding an external EasyMesh™ agent (Airties Air4960 extender)



Turriss Omnia GW
prplOS



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Advanced Home Automation: MATTER on prpl

Objective

To demonstrate expanded **Home Automation** on **prplOS** using **HL-API's** based on **MATTER**.

Demo components / Setup / scenarios

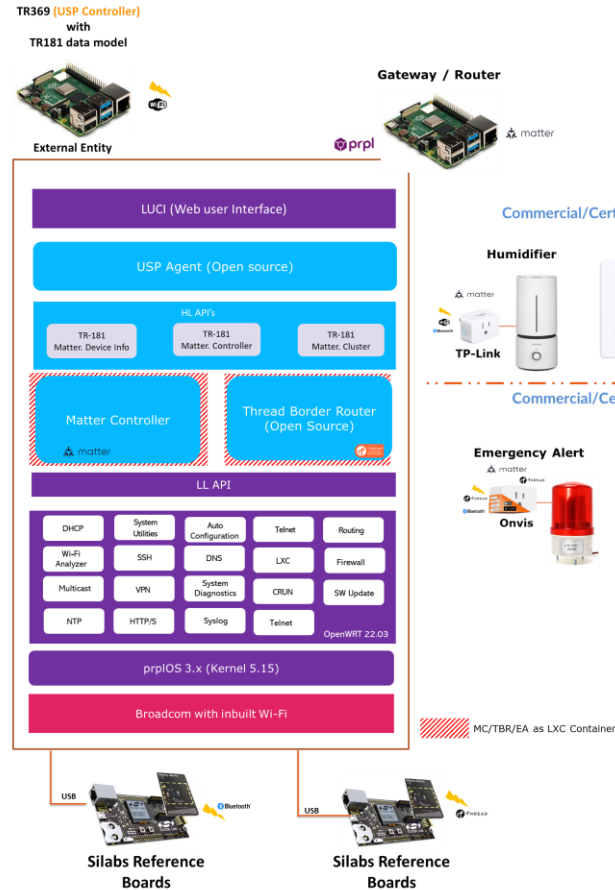
Core components integrated on prpl:

- **MATTER** as a Middleware framework (enhancements in Open source) and deployed as a LXC container on PrplOS
- **OTBR** (Thread Border Router) as a Docker Container (Open source)
- **MQTT Broker** (Open source) integrated on OPENWRT 22.03 snapshot version
- **USP Agent** (OBUSPA Open source with CG's enhancements)
- **HL-API's** for interfacing with USP agent and Matter software (CG's new development)
- **TR-181** Data model (CG's design on existing BBF model)
- **EDGE Analytics** (CG's enabler)
 - All the package runs on latest Linux kernel 5.15
- Demo setup based on AMD / Pi4 ported with prpl open-source package and integration with Matter controller + USP AGENT and Open Thread Border Router (OTBR) as container with add-on libraries / components
 - **USP Controller** integrated on reference platform (Pi4 / Ubuntu) as a Mobile App to demonstrate the functionality to control both Wi-Fi and Thread devices (lights)
- Demo Scenarios having MATTER on PrplOS over Wi-Fi and Thread that covers
 - **On-boarding & Control of Wi-Fi and Thread devices (TP-link, OREIN, Nanoleaf)**
 - **Input and Output device linking (Motion sensor - Eve with Power socket - Onvis)**

Business Advantages

Leverage **MATTER** technology to enable **smart services / co-services** for existing and new customers.

- MATTER as a Container on Wi-Fi Router (no external hub required)
- Enhance data/device security
- Improve customer experiences & CSAT
- Support for advanced / new smart services deployment
- Easy system integration / migration in the home ecosystem



COMMSCOPE® Home Networks

USP Remotely-Managed Containerized Apps

Demonstrating...



A Service Delivery Platform that serves to orchestrate the deployment of containerized applications across a service provider's entire fleet of devices.

Enabling the remote management of prplLCM based devices with intelligent containerized applications that can both extend the device's overall data model and communicate with other containerized applications.

All done by utilizing standards published by Broadband Forum in USP and the Device:2 root data model.

Also, presenting.....

CommScope's prpl Managed Services support Service Providers that wish to enjoy the freedom of managing their own prplOS device software.



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WiFi can do more.

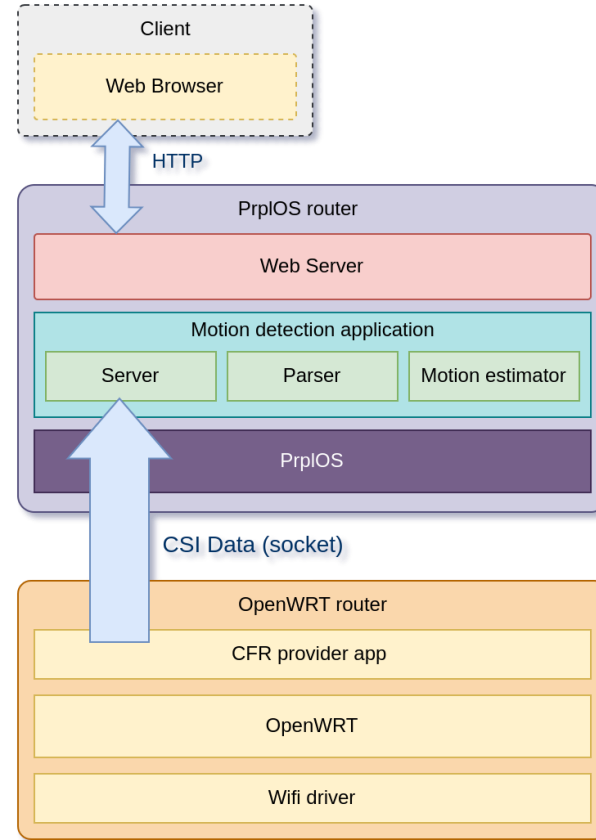
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Pushing the edge

WiFi Motion Detection

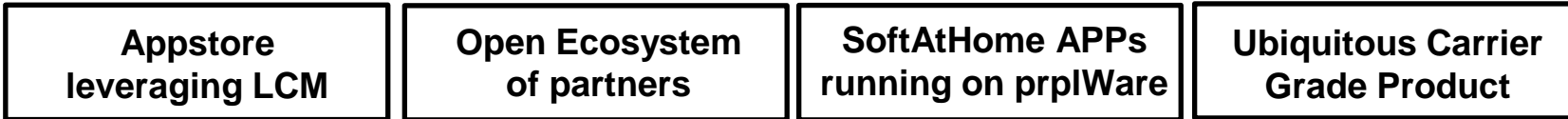
- Lightweight solution to detect **human movement** integrated into a retail WiFi gateway
- **Radio waves** emitted by WiFi routers and the signals bouncing off the objects are used to gather information about movement
- Motion estimation is based on analysis of **CSI data** retrieved from WiFi module
- Solution based on **GL.iNet GL-B1300** platform
- Built on top of **prpl** ecosystem



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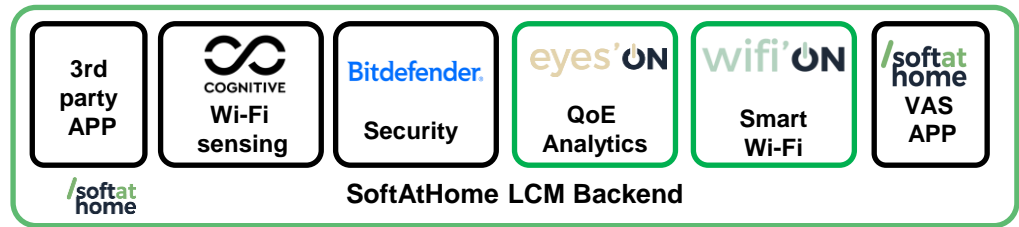
SoftAtHome leverages prpl to deploy Value Added Services



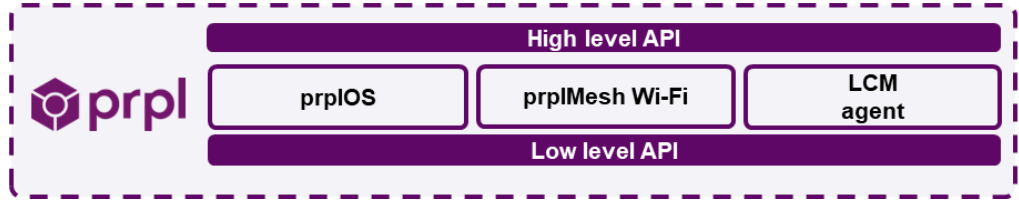
Mobile Phones

MDE Cloud Mobile APP

Cloud



Home Gateways



Home Gateways



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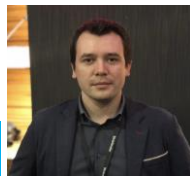


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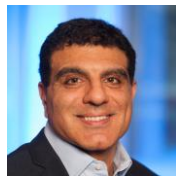
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Beegol

Beegol has the world's best remote diagnostic suite for broadband and Wi-Fi



We are new to prpl



We fully adopted the prpl Architecture

- We ported our app atop the prpl High-Level to make it platform-independent and portable to any HW platform
- We containerized our app to make it easily deployable from the cloud in field trials
- We adopted prpl LCM life-cycle management to remotely manage the deployed app



We have all the above running on MaxLinear chips on the prpl next-gen carrier-grade platform

- Every update to prplWare gets tested and proven on the same CI platform
- Any Operator can easily get the same prpl HW platform



Any Operator can bench- or field-trial the Beegol containerized Beegol app

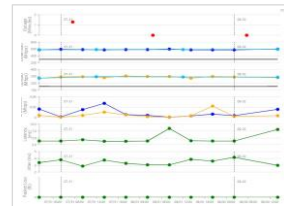


Beegol runs prplMesh very successfully

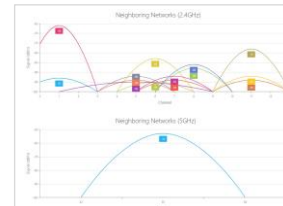


All of this is working in lobby. See us there

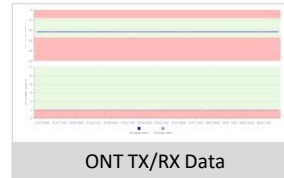
Data and Diagnostic on the cloud



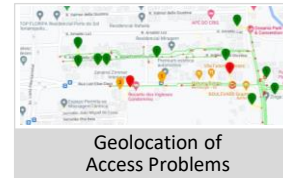
Speedtest



Wifi



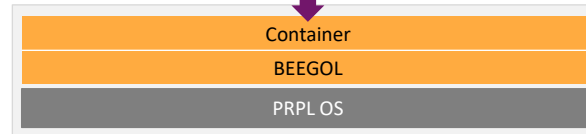
ONT TX/RX Data



Geolocation of Access Problems



Transport Data



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Bitdefender®

is a global leader in cybersecurity driven by a mission for top performance in technology and innovation.

We offer:

- ↳ **Best-in-class solutions** that protect millions of consumers and thousands of business
- ↳ **The Bitdefender Subscriber Protection Platform** - an all-around security ecosystem for Telco customers
- ↳ **Tailored solutions and go-to-market support**
- ↳ **An evolving portfolio** to provide our Telco partners with the latest cybersecurity solutions available on the market.



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WiFi can do more.

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Cognitive Systems WiFi Motion



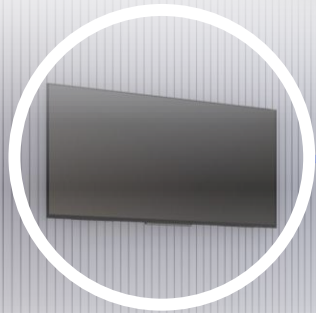
Created the Wi-Fi Sensing market by building a robust IP portfolio and forging strategic partnerships with the world's leading Wi-Fi chipset vendors.



Partnering with a network of distribution partners **2M+ deployments**



Closed direct commercial deals with multiple Tier 1 ISPs **7M+ deployments**



COGNITIVE 



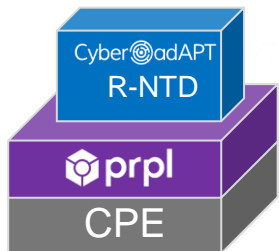
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Cyber adAPT – Who we are Cyber adAPT



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- Cyber adAPT delivers an advanced, residential network-based threat detection solution for fixed and mobile broadband.
- This clientless solution meets the cyber security needs of today's residential environment where many connected devices cannot support end point protection (e.g., IoT).
- The solution is optimized for environments where limited processing resources are available and is seamless to home network deployments.
- Real world testing shows a ~10X detection improvement over similar solutions.
- The solution has been integrated into the prpl architecture leveraging the high-level APIs and supports multiple deployment options.
- Please come and see our demo in the hall.

Domos in a nutshell.

For a device, household or population...

- Which application types are used 🎮 📺 🧑
 - gaming, video conferencing, video-streaming ... ?
- What is their end-to-end quality 📶 97% 📶 89% 📶 100%
 - How well are these applications performing?
- Where is any quality degradation coming from 🔍
 - Is it coming from the access network? The in-home wifi? Is it due to too low bandwidth?

Users consume applications, not networks.



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Joseph Valencia
Chief Product Officer

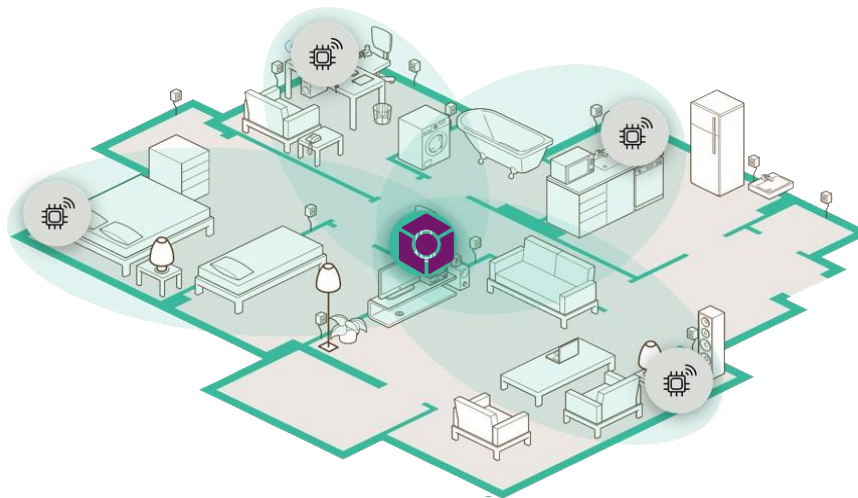
The **inventors** of WiFi Sensing

The **fastest growing** WiFi Sensing company in the world

Most **robust roadmap** in the industry

60+ patents granted/allowed
& **~140** filed

Enables Broadband Service Providers to launch presence-sensing-based services using consumers' existing IoT and prpl CPE



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SAM Seamless Network

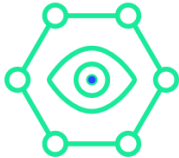
Enabling CSPs To Provide A Safer, Automated, Informed, And Customized Experience To Their Residential And SMB Subscribers.



Observability



Device Fingerprinting



Service Identification



Cybersecurity



Router Protection



Network Protection



Device Protection



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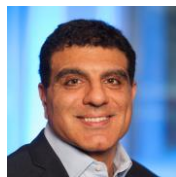
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