Unleashing prpl by transforming the home gateway ecosystem for home services revolution



Marc de Courville

SoftAtHome VP Engineering



Premium Sponsors



Bitdefender.











SoftAtHome / prpl summit 2023

Unleashing prpl: transform the carrier-grade home gateway ecosystem for home services revolution

Marc de Courville, SoftAtHome engineering VP

October 23rd, 2023





Pioneering the future of carrier-grade home gateway ecosystem

The secret ingredients:

- A robust, dynamic open-source foundation powered by OpenWrt
- / Fundamental adaptations to meet the service providers needs:

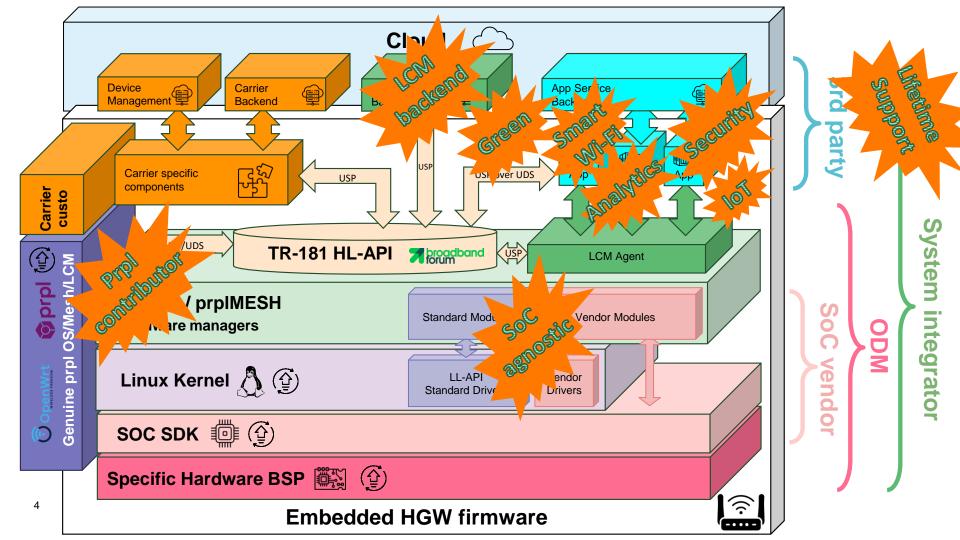


- Standardized High-Level APIs: build on TR-181 data models and modular architecture
- Dynamic Configuration: adapts in real-time
- Standardized Low-Level APIs: expand Linux standard API through hardware manager abstractions to cope with SoC vendor diversity
- Built-In Container Life Cycle Management: streamline operations

/ Benefits to our industry:

- / Reduced time-to-market and improved quality: minimize fragmentation and duplication, forge a unified carrier-grade core
- Unlock the power of applications: encourage differentiation beyond hardware, thanks to industry-standard APIs
- SoftAtHome contributions to making it a reality (since last prpl summit)
 - / 20+ contributions accepted to BBF TR069/181/369 specs
 - / 92% prpIOS, 35% prpIMesh, 47% prpILCM of all code commits





prpl is real: engage and make it a success!

Govern/steer the community: set Telco business requirements prpl Upstream! System Contribute

Integrator

" Stop the Fork, before it eats you " (jedi4ever github)

> Strive for processes / network architecture standardization to rationalize ecosystem

3rd party apps dev

Ensure portability and security (std APIs/non privileged containers)

Open virtuous distributed

SoC/ **ODM**

collaboration framework

Prpl's ever-evolving ecosystem demands a dedicated maintenance track for continuous software upgrade, ensuring reliability, peak performance, and security.

Adapt SDK/BSP to Linux standard low layer API and interface to prpl hardware managers vendor modules



softat



For more information about **SoftAtHome**

Corporate Headquarter

9 rue du Débarcadère 92700 Colombes France **United Arab Emirates office**

Building 6EA office 207 P.O. Box 371438, Dubai Airport Freezone United Arab Emirates Belgium office

Vaartdijk 3 701 3018 Wijgmaal Belgium



