



Open Source
Foundation

Welcome to prpl Summit 2023



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Welcome to prpl Summit 2023 !



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Agenda – October 23rd AM



08:00 - 09:15	Registration, Coffee and Demos Set-up	
09:15 - 09:45	Introduction to prpl Foundation and to prplWare	Dave Barr, Chair of prpl Technical Steering Committee and Board member.
09:45 - 10:00	Demos Overview	Paul Keator - Dish Network, Sr. Engineering Manager, Broadband Systems & prpl Foundation Gold Board Director
10:00 - 13:00	MORNING SUMMIT	
10:00 – 10:15	prpl Ambitions and Mission	Dr. Leonard Dauphinee – prpl Foundation President, VP and Chief Technology Officer Broadband Group at MaxLinear
10:15 – 10:30	prpl – a Global Home Software Platform	Bruno Zerbib – Orange Chief Technology & Innovation Officer
10:30 – 10:50	How Orange commits to a Sustainable Home	Koen Vermeulen – Orange Group CIO & Senior Vice President Orange Innovation IT & Services
10:50 – 11:00	Coffee Break	
11:00 – 11:30	Operators ROUNDTABLE Enhancing the Smart Home Ecosystem with prpl values	Paul Keator – Dish Network, Sr. Engineering Manager, Broadband Systems Chem Assayag – Orange Senior VP Home Services Domain Pavan Challa – Verizon Director Product Management & Development Josh Goodell – AT&T Vice President Broadband Product Development Moderator: Livia Rosu – MaxLinear Sr. Strategy, prpl Foundation Marketing Co-Chair

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<p>11:30 – 12:00</p>	<p>App Developers ROUNDTABLE</p>	<p>Sergio Campos - Beegol George Trif - Bitdefender Engineering Director for Connected Home, Security Team Bob El-Hawary - Cognitive EVP Global Sales Magnus Almquist - Cyber adAPT Vice President Business Development & Sales Knut Joar Strømme - Domos Senior Developer Joe Valencia - Origin AI Chief Product Officer Yaron Benita - SAM Seamless Network VP R&D</p> <p>Moderator: Wojtek Makowski – Orange Vice President CPE Ecosystem</p>
<p>12:00 – 12:30</p>	<p>SoC manufacturers ROUNDTABLE</p>	<p>Dr. Leonard Dauphinee – MaxLinear VP and Chief Technology Officer Broadband Group & prpl Foundation President Wayne Daniel – Qualcomm Technologies, Sr. Director Technology & prpl Foundation Silver Board Director James Chen – MediaTek Vice President Product Technology Marketing Bill Reysen – Cortina Senior Director Marketing</p> <p>Moderator: Paul Keator – Dish Network, Sr. Engineering Manager, Broadband Systems</p>
<p>12:30 – 13:00</p>	<p>Standards Organizations ROUNDTABLE</p>	<p>Jason Walls – Broadband Forum (BBF) Connected Home Council Chair Tiago Rodrigues – Wireless Broadband Alliance (WBA) President & CEO Tobin Richardson – Connectivity Standards Alliance (CSA) President & CEO Brian Mecum – Connectivity Standards Alliance (CSA) Board Director & Verizon Vice President–Device Technology Organisation</p> <p>Co-Moderators: Marianne Mohali – Orange Innovation Head of the Networks Strategy Department Randy Zimmerler - Verizon Technical Product Management</p>
<p>13:00 - 14:00</p>	<p>Lunch / Networking + Demos Display</p>	

Agenda – October 23rd PM



14:00 – 17:15	AFTERNOON SUMMIT	
14:00 – 14:15	A Seamless Evolution: SAM's Journey With prpl	Jeff Holleran – SAM Seamless Network VP Product
14:15 – 14:30	Unleashing prpl by transforming the home gateway ecosystem for home services revolution	Marc de Courville – SoftAtHome VP Engineering
14:30 – 14:45	Leveraging Open Source/prpl & Standards for Operator Managed Wi-Fi	Metin Taskin – Airties Co-CEO and Founder
14:45 – 15:00	Coffee break	
15:00 – 15:15	Protecting IoT Home Devices	Razvan Todor – Bitdefender VP Product Management B2B2C
15:15 – 15:30	Beyond Bandwidth: Wi-Fi Sensing as the Next Frontier for ISPs	Tony Nicolaidis – Origin AI Chief Commercial Officer
15:30 – 15:45	Navigating the Chessboard of the prpl Ecosystem	Sebastian Silva, Vantiva Director SW Product Management
15:45 – 16:00	Coffee break	
16:00 – 17:15	prpl Working Group Updates Session	Moderator: Dave Barr – prpl Technical Steering Committee (TSC) MaxLinear Director of Standards Engineering Certification Technical WG Chair – Timothy Winters prpIOS WG – Olaf Wachendorf prplMesh WG – Frederik Van Bogaert Low-Level API WG – Wouter Cloetens LCM Life-Cycle Management WG – João Freitas prplSecurity Assurance WG – Brendan Black, Evgueni Tzvetanov High-Level API WG – David Cluytens
17:15 - 17:30	Announcement of the prpl Awards	
17:30 – 18:00	Free time for Demos on Display	

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Experience prpl at NetworkX



Mon, October 23rd, 2023

Tue, October 24th, 2023

Wed, October 25th, 2023

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airties

Bitdefender



ORIGIN™
WiFi can do more.

sam
seamless network

softat
home

vantiva
Pushing the edge

PRPL SUMMIT

08:00 – 17:30 CET

Orange HQ

Open to public

Registration required



prpl Operators & SoC Alignment Meeting

14:00 – 16:00 CET

Orange HQ

Restricted (Operators & SoC only) registration required



Pavan/Verizon

speaking about value of prpl

14:30 – 14:45 CET



Sophie/Orange & Heather/Verizon

speaking about value of prpl

16:20 – 16:35 CET



prpl WG Technical Workshop

08:30 – 17:30

Orange HQ

Restricted (prpl Members only) registration required



prpl Awards Ceremony & Cocktail

17:30 – 20:00

Restricted (prpl Members only)

Orange HQ



Brian/Verizon & Tobin/CSA

Operators about future home

15:40 – 15:55 CET



Dr. Len Dauphinee,

President, prpl Foundation

16:00 – 16:15 CET



Operators Roundtable

Paul/Dish, Wojtek/Orange,

Randy/Verizon, Josh/AT&T

moderated by Livia/MaxLinear

16:45 – 17:15 CET



ORANGE Cocktail

18:00 – 20:00 CET

Orange HQ

Restricted by invitation

(Operators & prpl Board only)





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Introduction to prpl Foundation and to prplWare



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Who is prpl Foundation?

Community of like-minded architects, SMEs and developers
from across the CPE ecosystem:

Service Providers

OEMs

System Integrators

SoC vendors

Application Developers

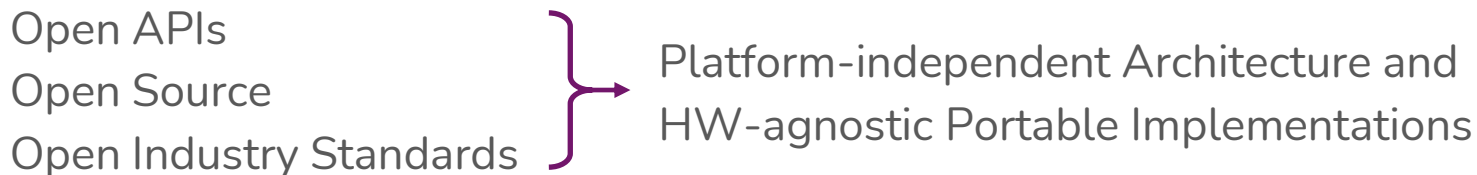


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What does the prpl community do?

Healthy Collaboration and Harmonization, then Commonization into:



prplWare = Standards-Based Open-Source and Open APIs



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How is prpl Foundation organized?

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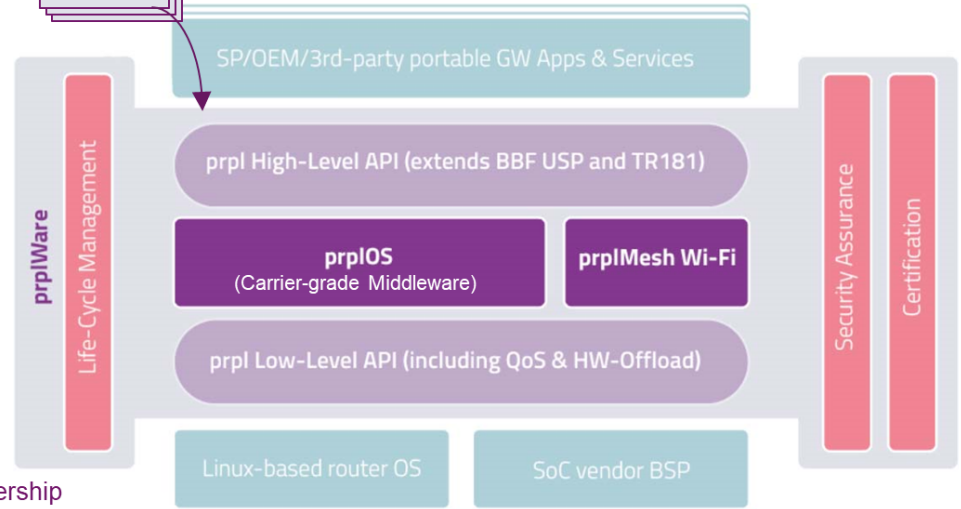
Board of Directors (AT&T, Charter, CommScope, Dish, MaxLinear, Orange, Qualcomm, SoftAtHome, Verizon, Vodafone & BBF)

Product Steering Committee **Technical Steering Committee** **Marketing Committee**

Business Req'ts & Priorities

PWGs

TWGs



Product Steering Committee (PSC)

- Chaired by prpl's Service Provider members
- Contributions & participation from any/all prpl members
- Reviews project proposals & aggregates Roadmap wish-lists
- Sets Business Requirements & priorities for developments
- Aligns sponsors for new developments

TSC is where TWG Chairs coordinate the work of their TWGs

- Roadmaps, Architectures, WG procedures,...
- Charter new TWGs when needed
- Decision-making when there's lack of consensus in TWGs
- Coordination with BBF, WBA, WFA, CSA, RDK when needed (e.g., tighten-the-loop from Standards-to-implementations)

Operators Call

- Any/all service providers can attend—no need for prpl membership (can see how prpl benefits the ecosystem from Operators' perspective) (contact prpl Operations Manager: Shelly.Coen@prplFoundation.org)

prplWare Service-Delivery Platform Stack



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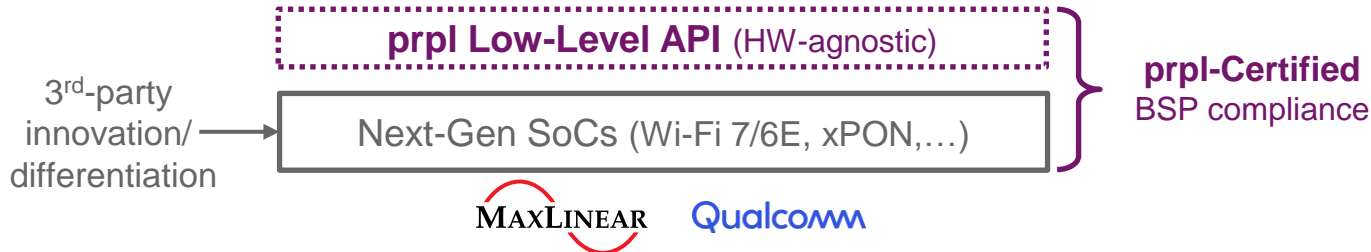


3rd-party
innovation/
differentiation →

Next-Gen SoCs (Wi-Fi 7/6E, xPON,...)



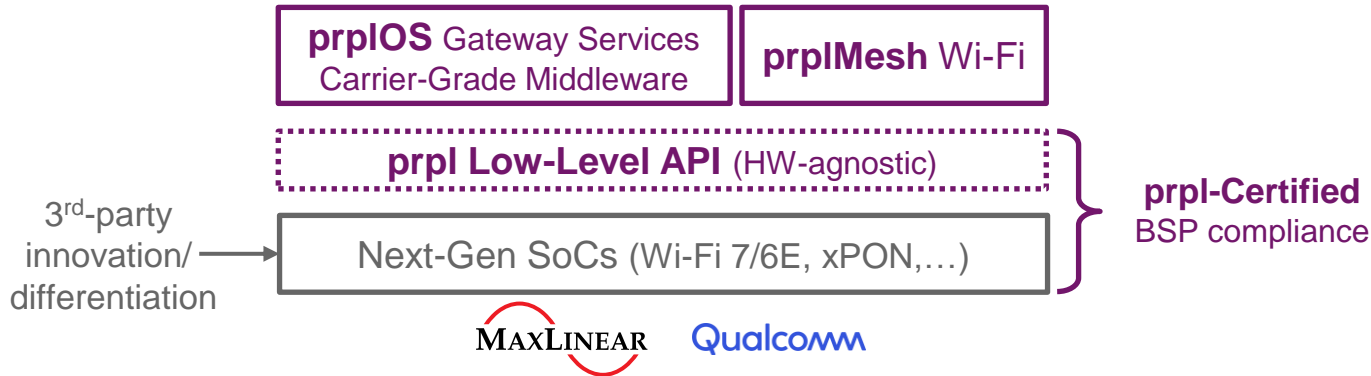
prplWare Service-Delivery Platform Stack



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prplWare Service-Delivery Platform Stack



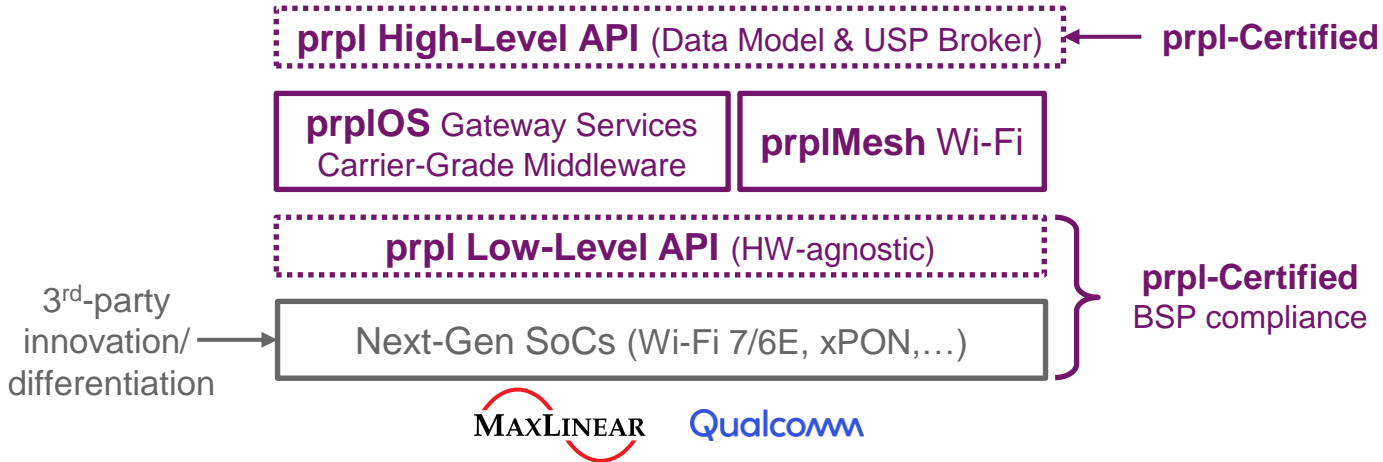
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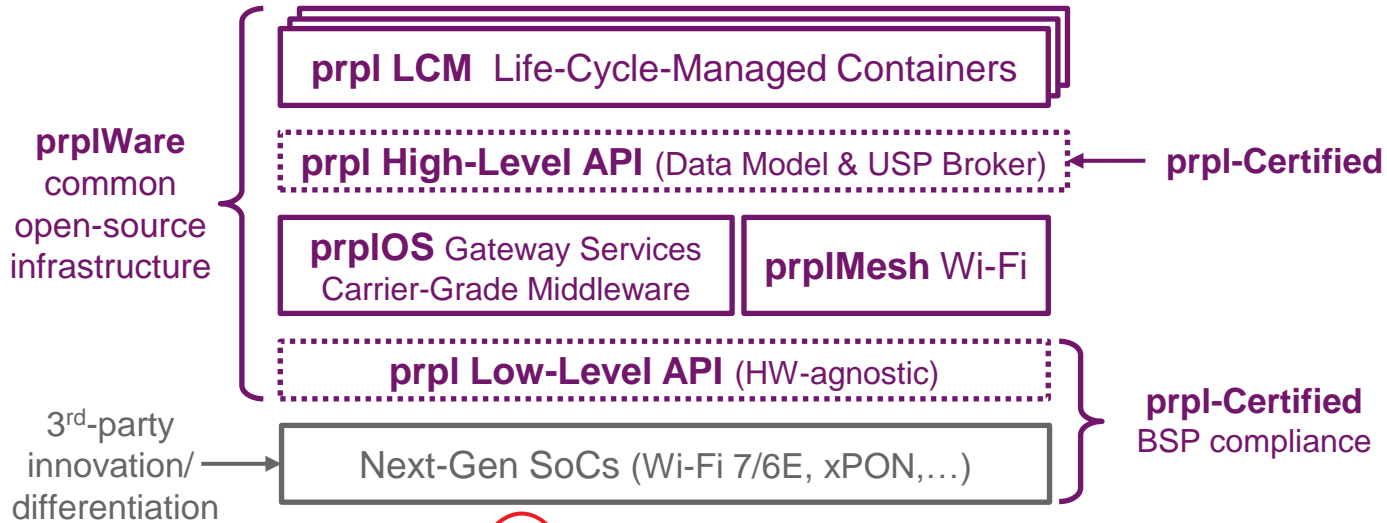
prplWare Service-Delivery Platform Stack



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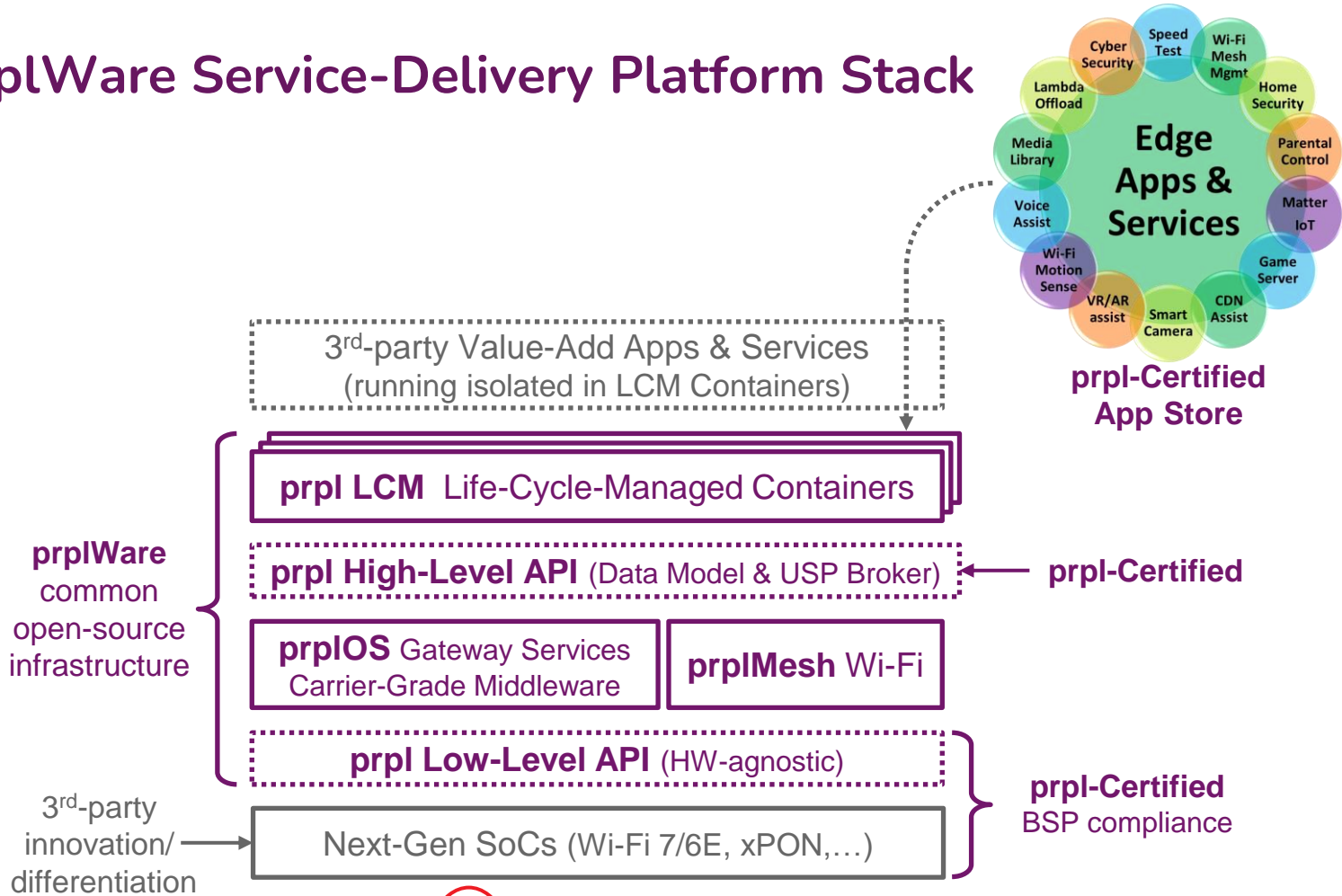
prplWare Service-Delivery Platform Stack



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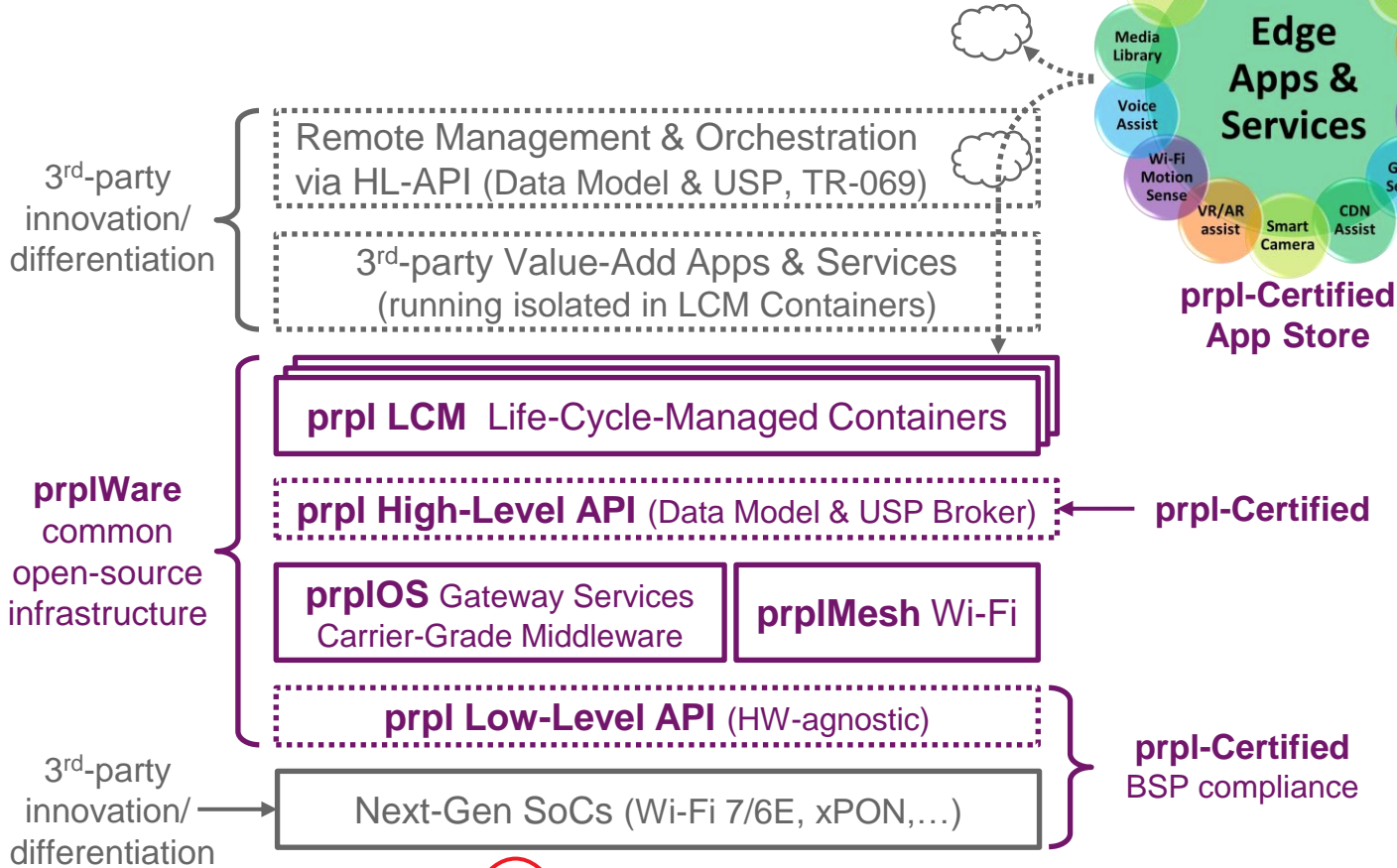
prplWare Service-Delivery Platform Stack



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prplWare Service-Delivery Platform Stack



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2023 prpl Roadmap Successes

- Pivoted to next-gen SoCs on carrier-grade HW platforms for CI/CD
 - **MaxLinear, Qualcomm** (Broadcom from 2022)
- SDK for **LCM**-Containerized Applications exercising High-Level APIs
 - **LCM** = Life-Cycle Management for remote download, install, updates,...
 - RBAC = Role-Based Access Controls
 - **High-Level APIs** for:
 - Cyber-Security Apps
 - Diagnostic Monitoring/Analytics Apps
 - Wi-Fi Sensing Apps and CSI-Socket Infrastructure
 - **High-Level APIs** were made dynamic and composite
- **BBF's** open-source **OB-USP-Agent** extended to latest USP v1.3
- **prplMesh** = Compliant Portable Superset of WFA EasyMesh Standard
 - HW-independent support for Wi-Fi 6, EasyMesh R5 and Data Elements
 - Virtual BSS-per-Client = novel R5 Steering feature developed with CableLabs
- **RDK-B** now natively supported by both **prplMesh** and **prpl LCM**
 - R-Bus IPC supported by **prpl Bus Abstraction Library** (Ambiorix)
- **prpl Security** Requirements established for implementation:
 - Secure Boot Requirements & Whitepaper
 - Secure Manufacturing Data Standard
- **prplOS 3.0 middleware** (Kernel v5.15, OpenWrt 22.03)



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Bitdefender



ORIGIN™
WiFi can do more.



**/softat
home**

vantiva
Pushing the edge

2024 prpl Roadmap Candidates



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- Carrier-Grade HW Support
 - More SoC vendors (expecting 2+ more in 2024)
 - New carrier-grade platforms into prpl CI/CD
 - Wi-Fi 7 (and with it, EasyMesh R6) for prplMesh
 - Wi-Fi 6E AFC for 6GHz at Standard Power for prplMesh
 - FWA Modems via new Low-Level API and new Data Model
 - Certification of BSP deliverables and Low-Level API support
- App Store / Value-Added Service Delivery Platform
 - Certification of Apps properly exercising High-Level API
 - Cloud/USP-based Orchestration of Containerized Apps & μ Services
 - Optimized resource-layering among containers
 - Enhance existing SDK for App Developers
 - Expand High-Level API for more/new applications (while maintaining unprivileged containers)
- Matter IoT
 - CSA Open-Source Matter Controller in a container
 - Exercise native Matter data model from TR-181/USP/iMTP context
 - Extend Low-Level API to 802.15.4/Thread/BLE hardware
 - Aligned with BBF's Smart Home Project Stream
 - Aligned with WBA Operator-Managed Smart Home Project
 - Aligned with CSA-standards
- Additional SW features to streamline field **Deployments**

Thank you



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