

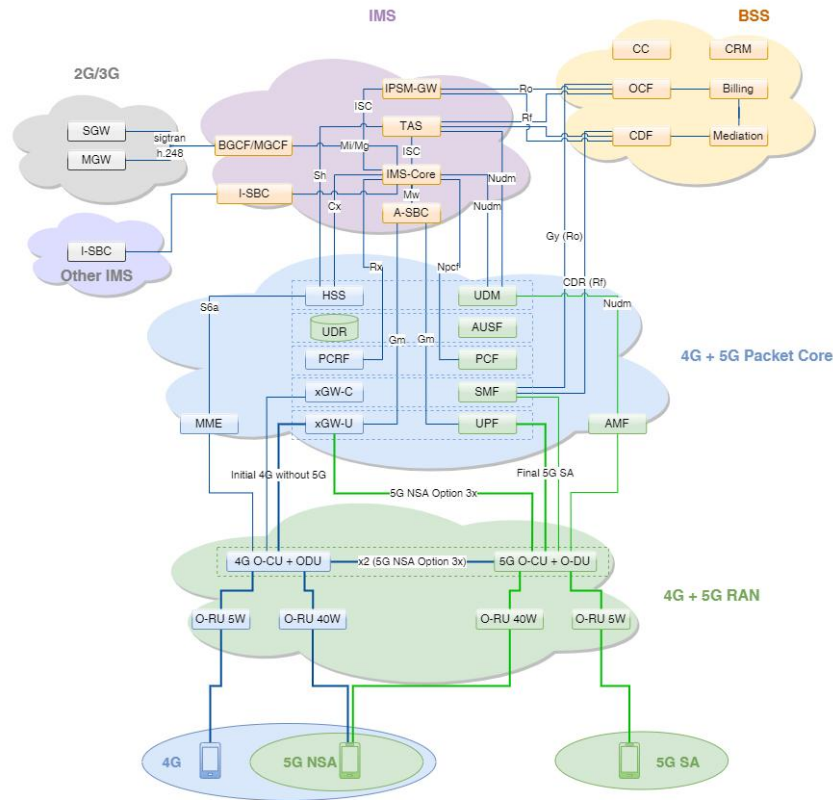


Converged 4G/5G Network Technical Proposal

Aug, 2023

SUNWAVE Converged Core Network

Scope of Network

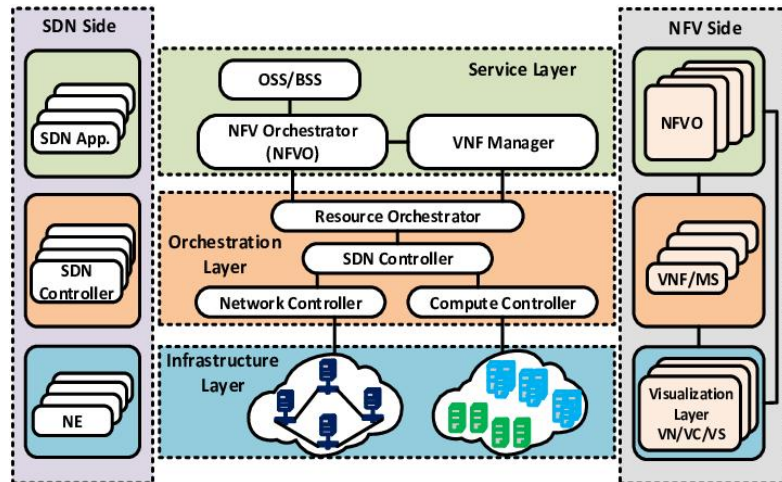
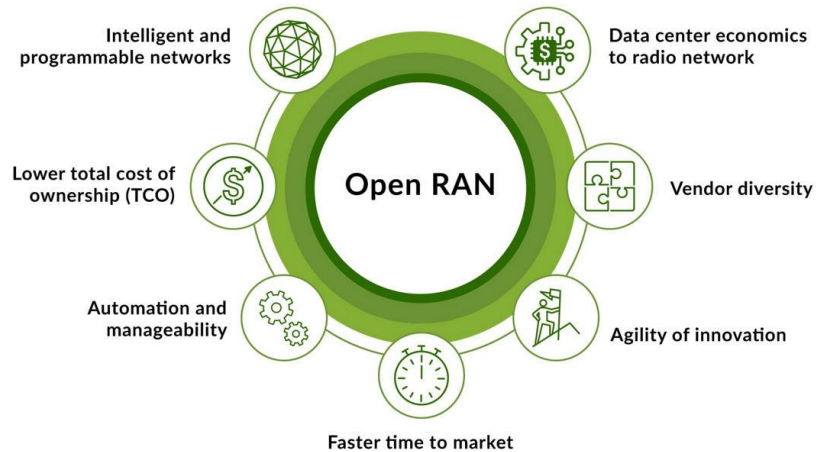


Key Features

- **Comprehensive End-to-End Solution:** Our proposed solution encompasses every aspect of the mobile network, spanning RAN, Packet Core, IMS, Services, BSS, and NMS.
- **Cutting-Edge Open-RAN Architecture:** Sunwave pioneers the adoption of advanced Open-RAN technology in our RAN solution, offering unparalleled flexibility and significant cost savings to our customers.
- **Multi-Vendor Diversity:** Leveraging various partners for Packet Core, IMS, and BSS ensures a diversified solution, avoiding vendor dependency and fostering a dynamic ecosystem.
- **Seamless 4G + 5G Convergence:** Our integrated one-box solution supports both 4G and 5G, allowing for a smooth transition from 4G to 5G with ease.
- **NFV + SDN Flexibility:** Embracing Network Function Virtualization (NFV) and Software Defined Networking (SDN), our solution adapts to different deployment environments (public, private, hybrid cloud) and scales dynamically to meet your business needs.
- **Superior Reliability:** Local Resilience + Geo Redundancy contribute to a true five-9 carrier-class system reliability, ensuring uninterrupted performance.

Benefits From the SUNWAVE Core Network

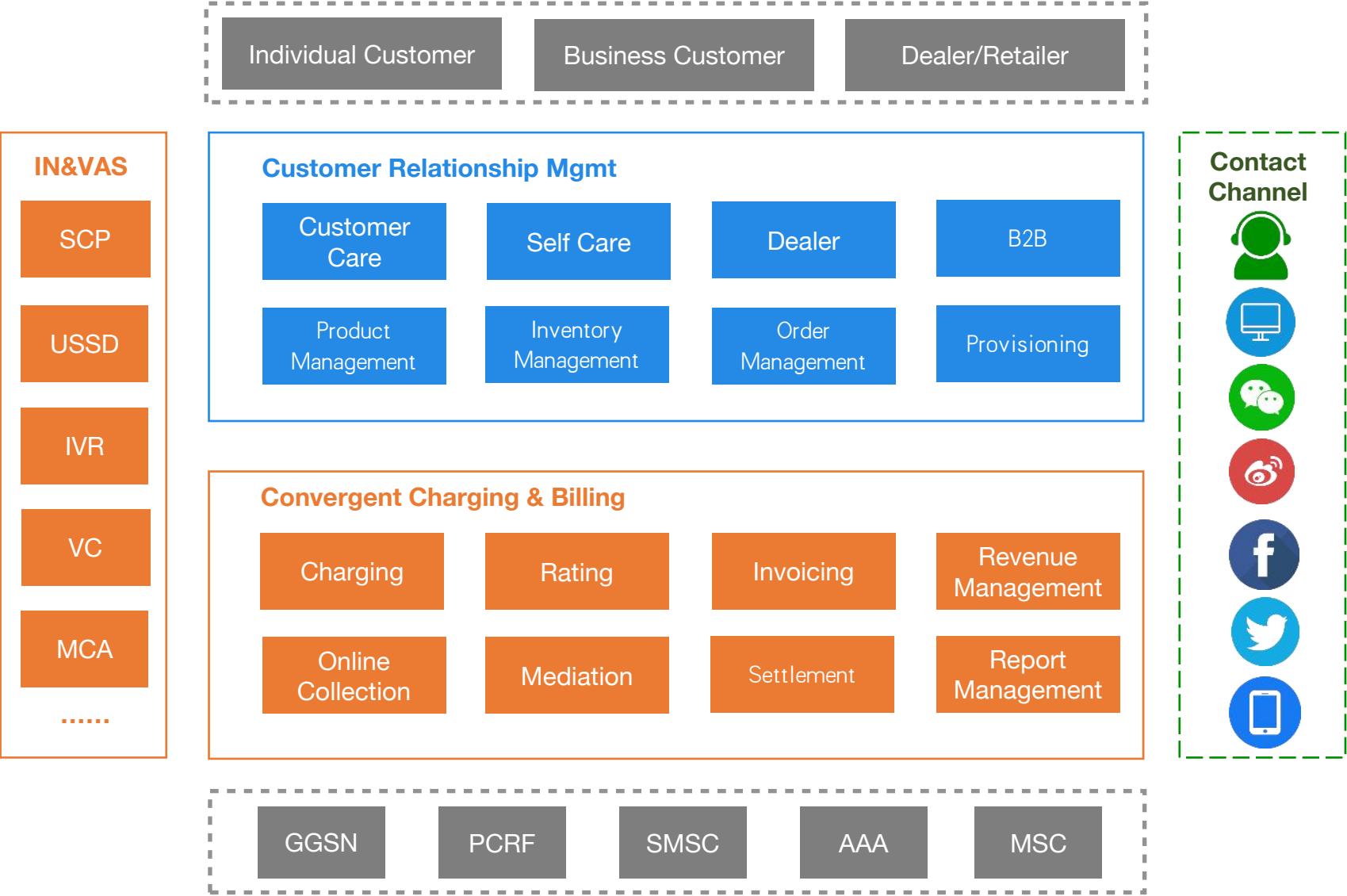
Why are service providers and enterprises looking at O-RAN?



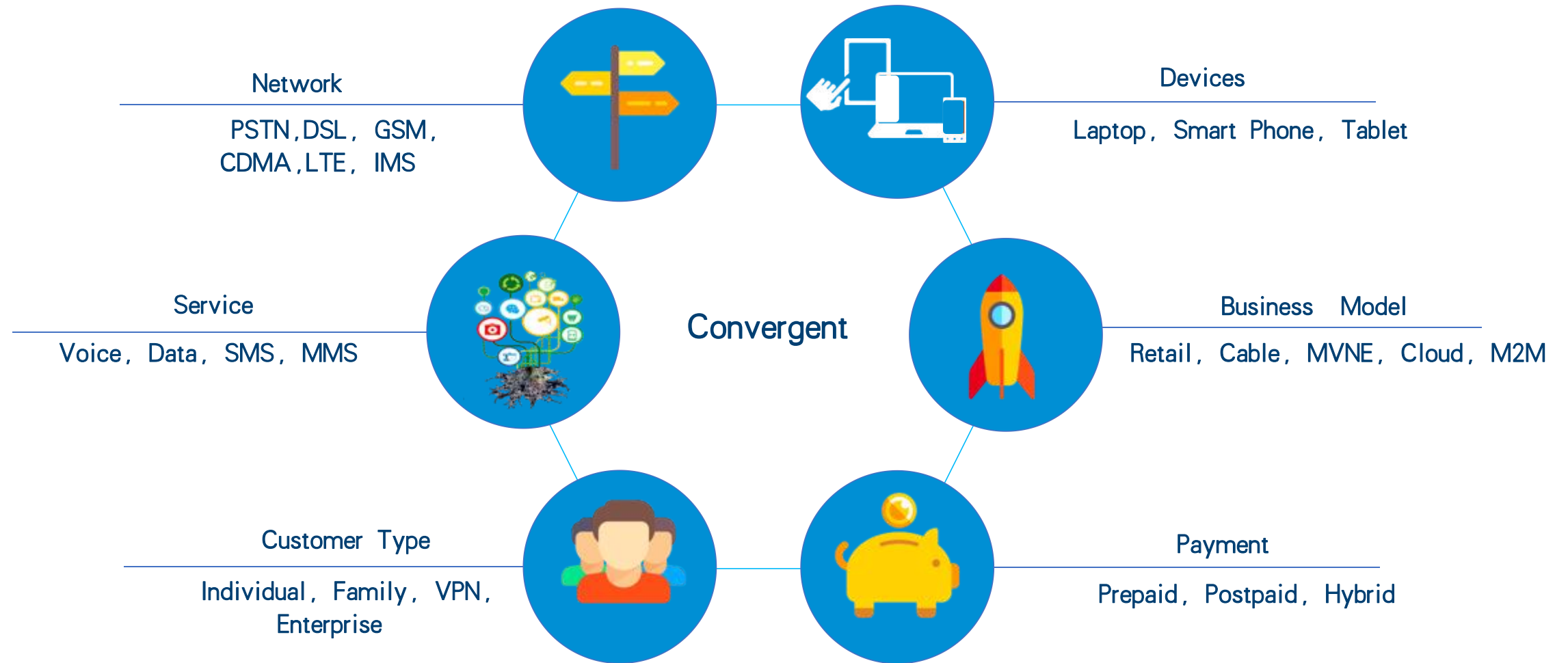
Key Benefits

- **Seamless Network Integration:** Our end-to-end solution ensures a smooth integration of various mobile network domains, reducing complexity and enhancing operational efficiency.
- **Cost Savings:** Adopting Open-RAN technology brings cost savings through flexibility, scalability, and the elimination of vendor lock-in.
- **Diversified Partnerships:** The multi-vendor approach enhances innovation and choice, promoting a competitive environment and reducing dependence on a single vendor.
- **Effortless Transition:** With our converged 4G + 5G solution, customers can transition to the next generation of mobile networks seamlessly, minimizing disruptions and downtime.
- **Flexible Deployment:** NFV + SDN enable deployment across diverse environments, providing agility and scalability that align with the customer's business needs.
- **Reliable Performance:** High reliability measures, including local resilience and geo redundancy, ensure continuous and dependable network performance, enhancing customer satisfaction and end-user experience.

BSS Product Portfolio

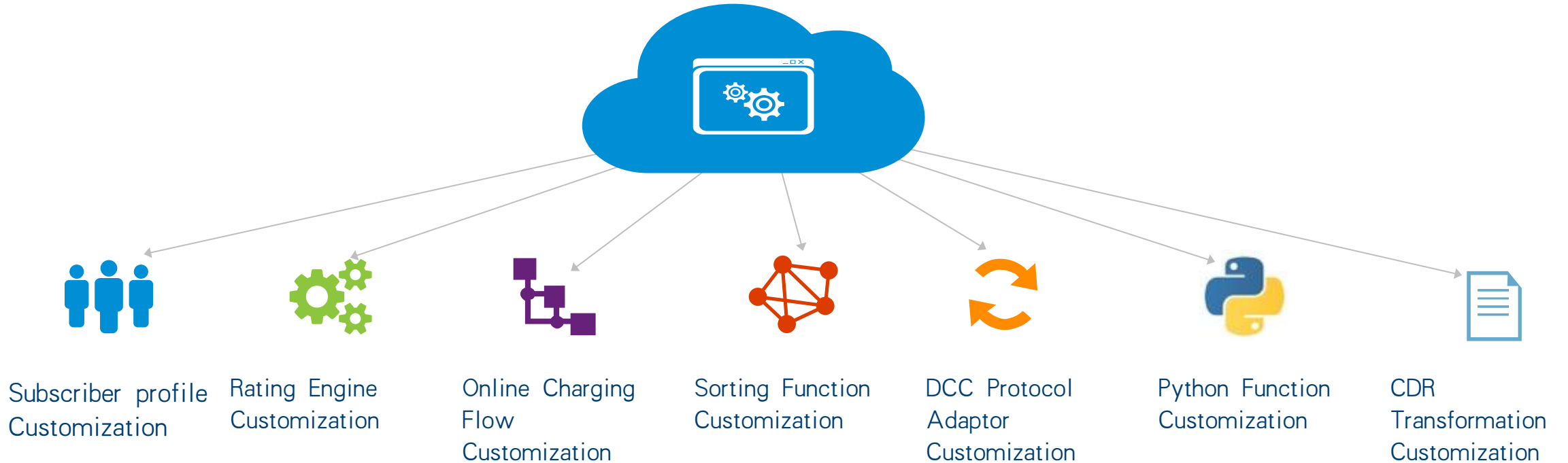


Full Convergent Digital Charging Solution



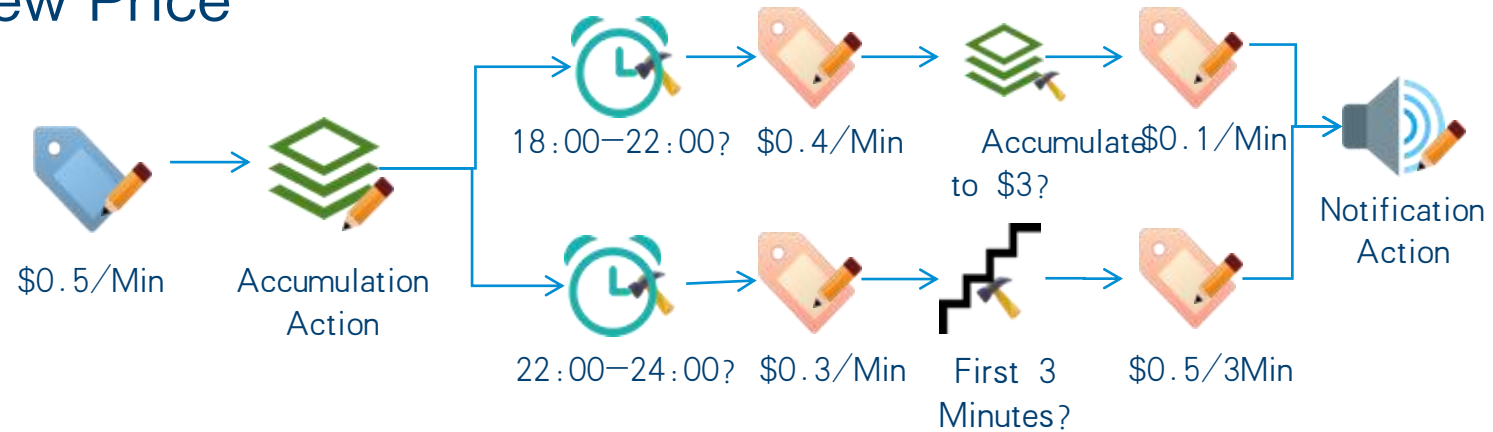
Customization Capability

Separate Production Code and Customization Code, ensuring Production Version Stability






Component Based Price Configuration

Component Based price configuration, to shorten TTM of New Price

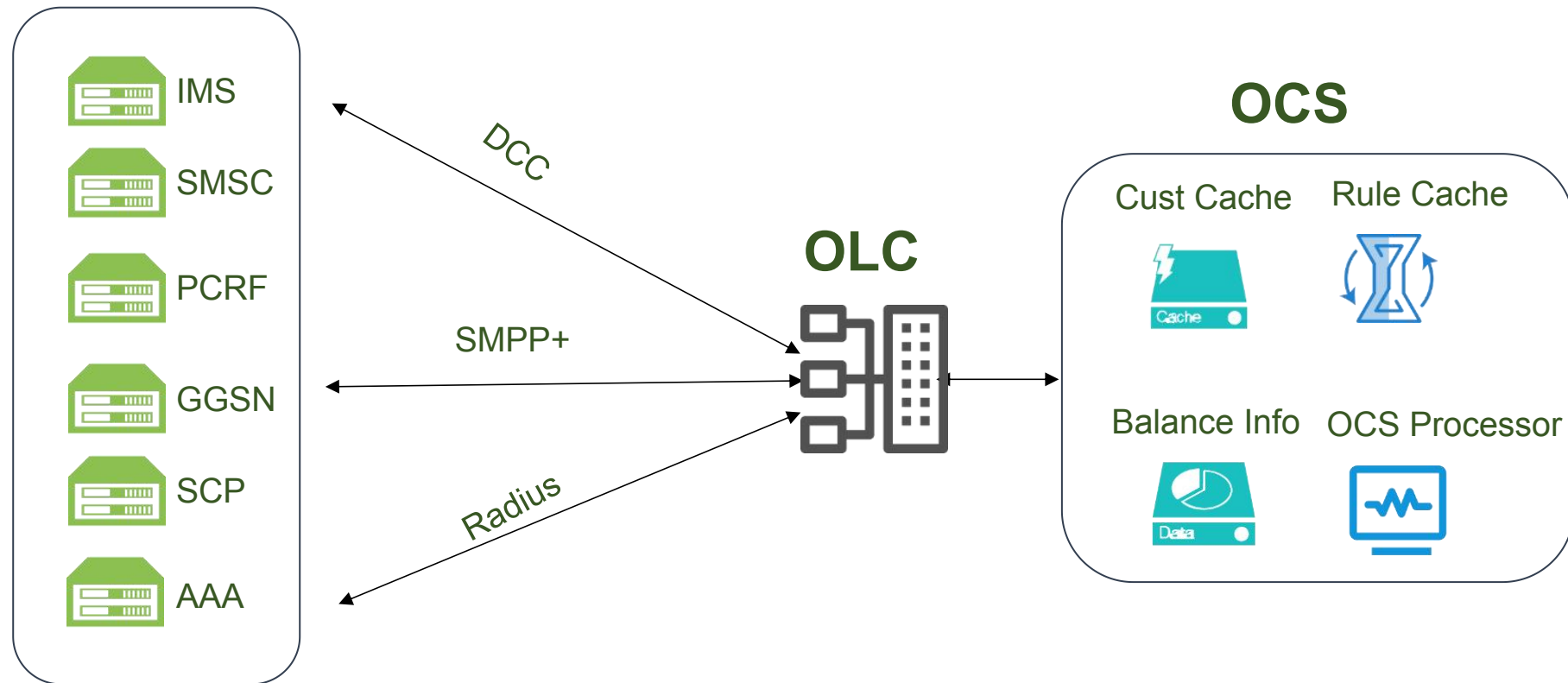


Action Node	
	Price Action
	Notification Action
	Accumulation Action

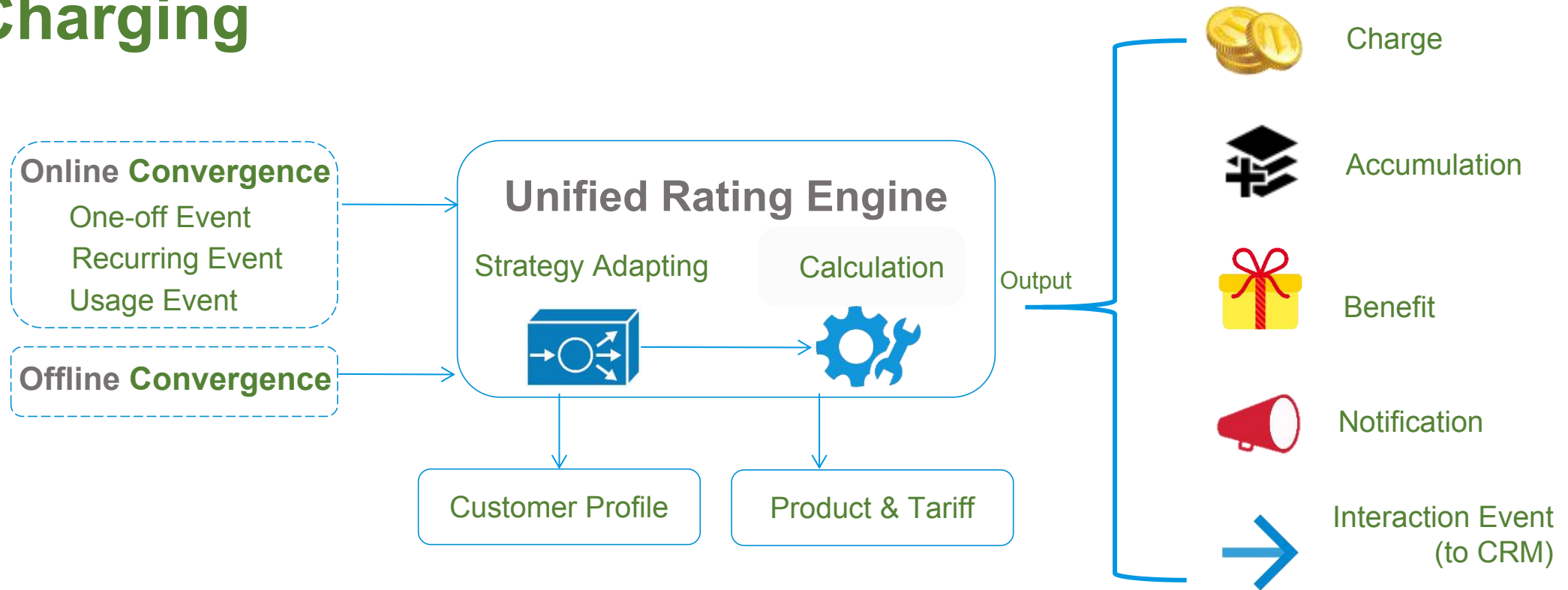
Judgement Node	
	Timespan Judgement
	Rank Judgement
	Accumulation Judgement

Online Collection

OLC support to integrate with multiple NEs to achieve multiple services of different protocols, like: data, voice, SMS, Vas, WLAN, WIFI(AAA) etc.



Charging



Convergence	Flexibility	Fee Calculation Capability
<ul style="list-style-type: none">✓ Any Service include PSTN, CDMA, GSM✓ Prepaid, Postpaid and Hybrid✓ Any Ratable Event✓ Online & Offline Convergence	<ul style="list-style-type: none">✓ Tariff switch✓ Complex share models✓ Real-Time benefit✓ Real-Time Accumulation✓ Different measurement✓ Various Rating Elements	<ul style="list-style-type: none">✓ Calculation based on filtered price plan.✓ Multiple fees for one event✓ Calculation precision can be round, round up or round down

SUNWAVE

Thank You!

www.sunwave.com

SUNWAVE COMMUNICATIONS CO., LTD.