

**SUNWAVE**

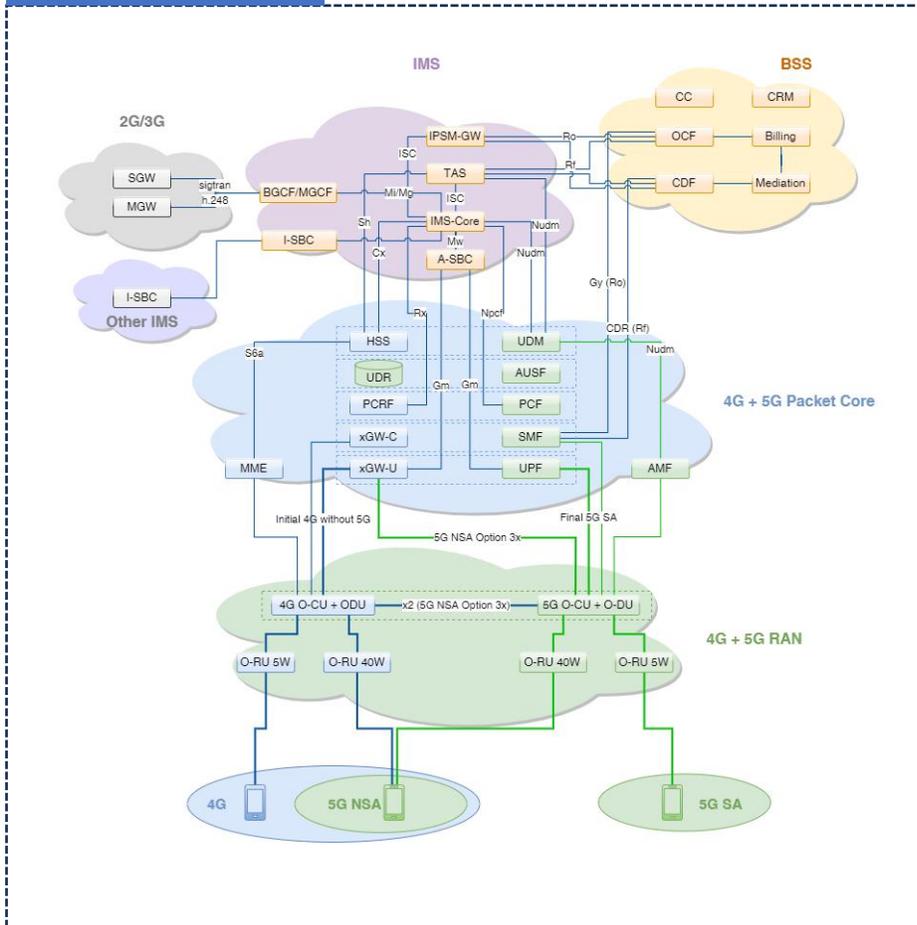
# Converged 4G/5G Network Technical Proposal

Aug, 2023

**SUNWAVE COMMUNICATIONS CO.,LTD.**

# SUNWAVE Converged Core Network

## Scope of Network

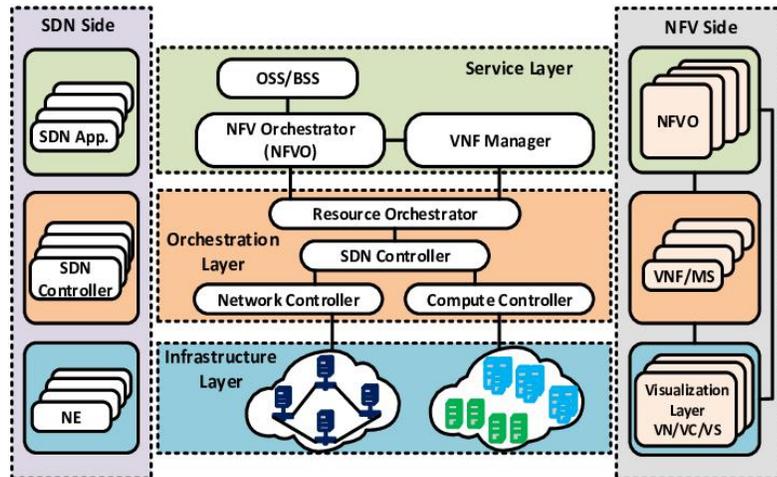
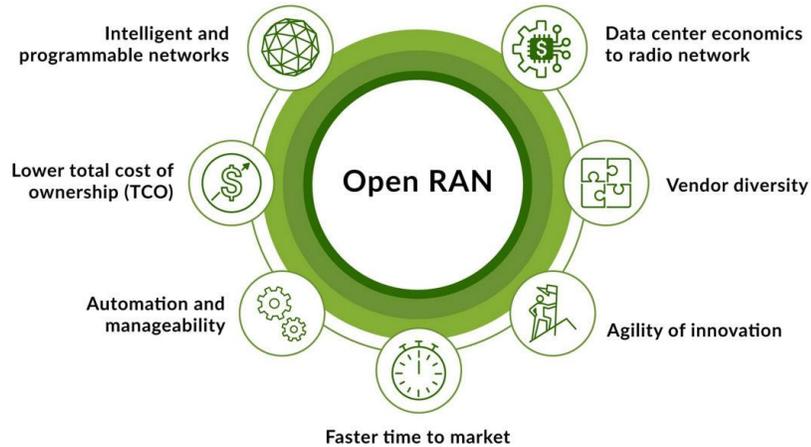


## Key Features

- **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

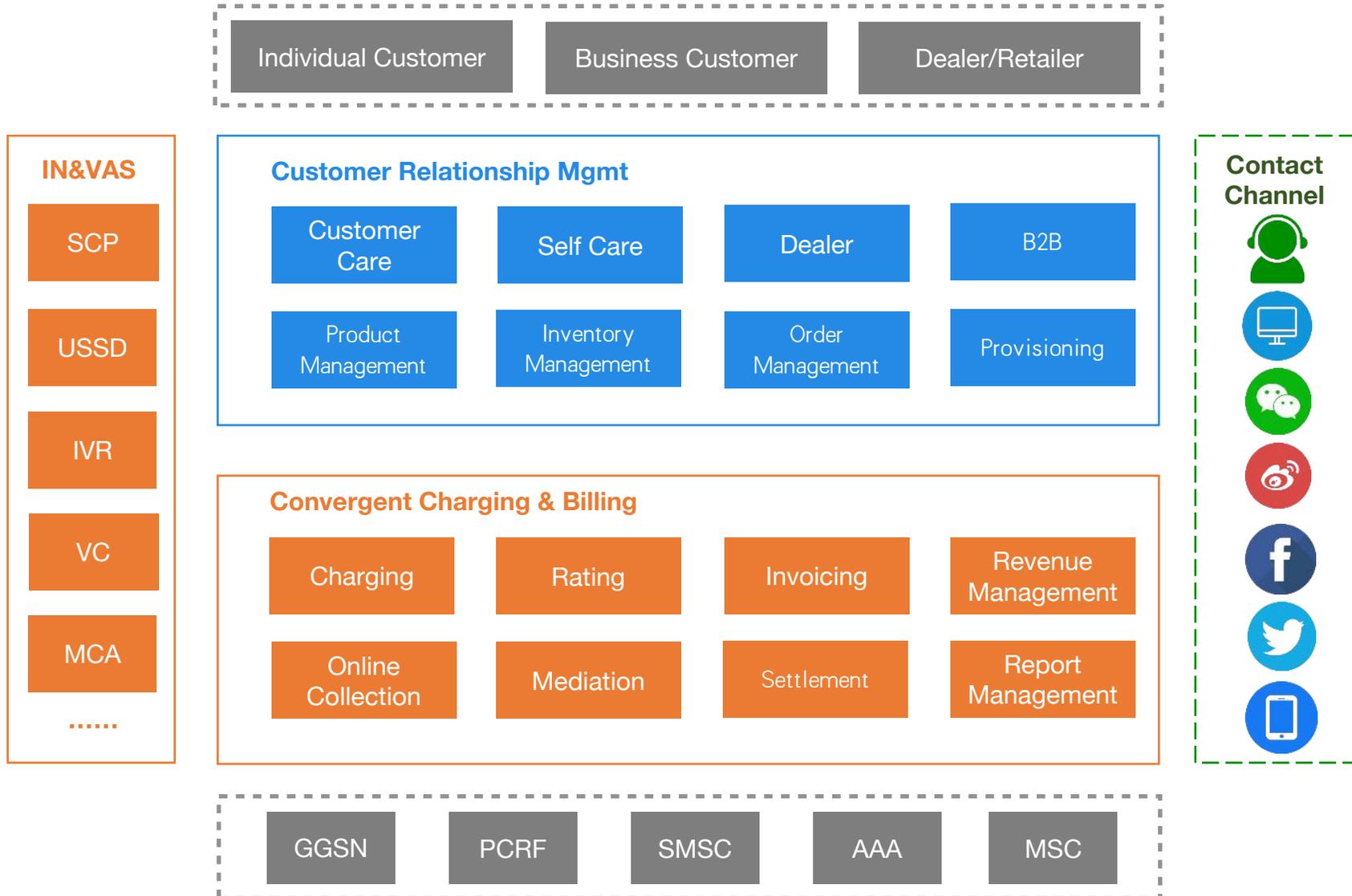
Why are service providers and enterprises looking at O-RAN?



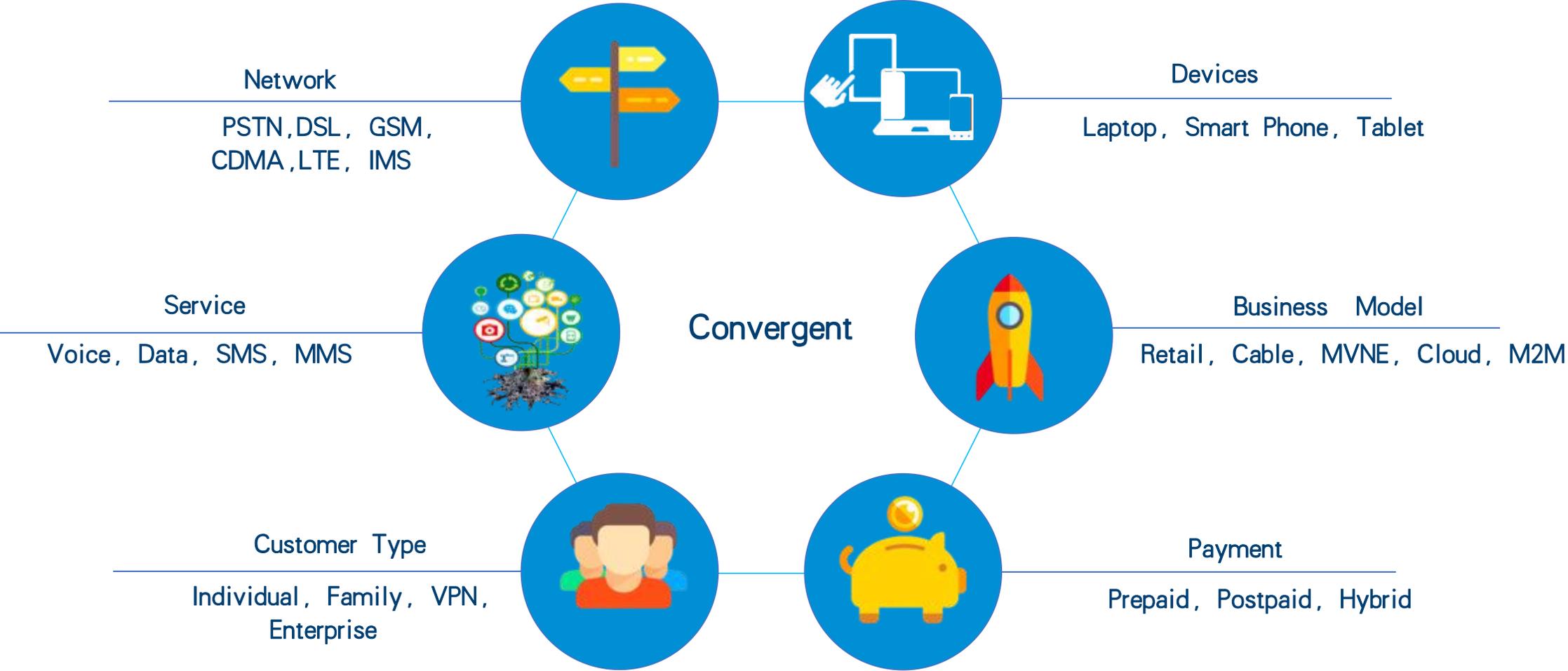
## Key Benefits

- **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

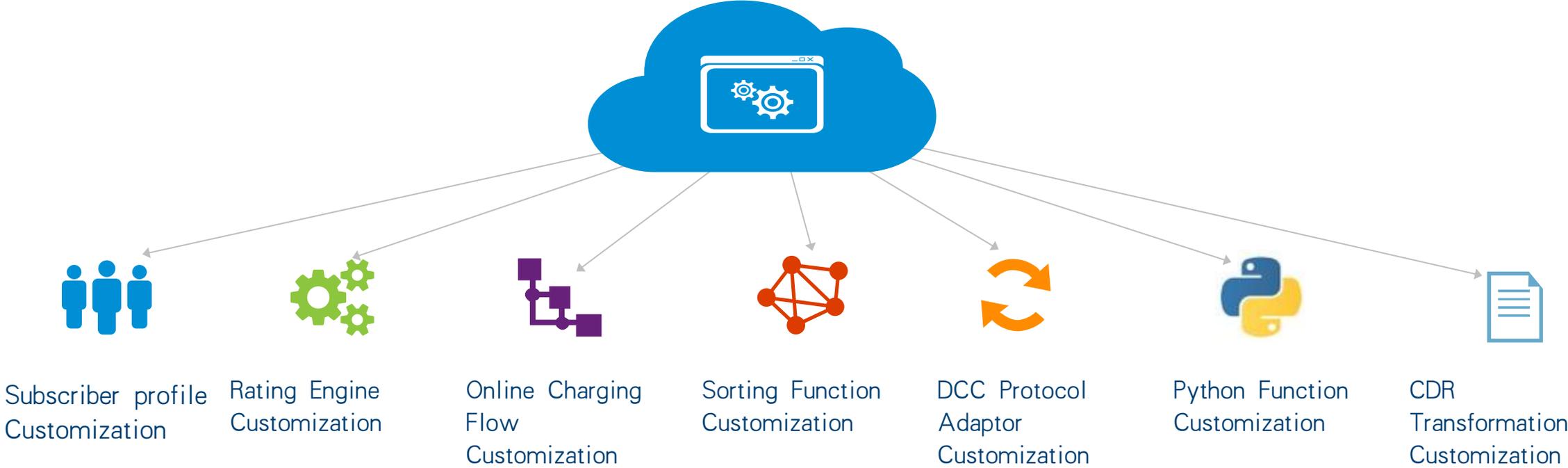


# Full Convergent Digital Charging Solution



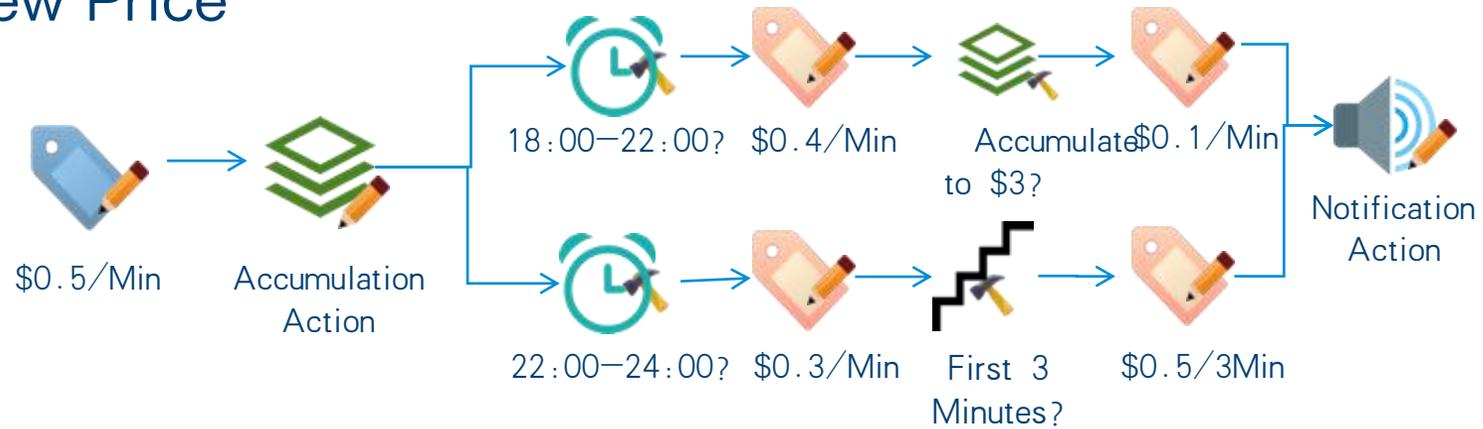
# Customization Capability

Separate Production Code and Customization Code, ensuring Production Version Stability



# Component Based Price Configuration

Component Based price configuration, to shorten TTM of New Price

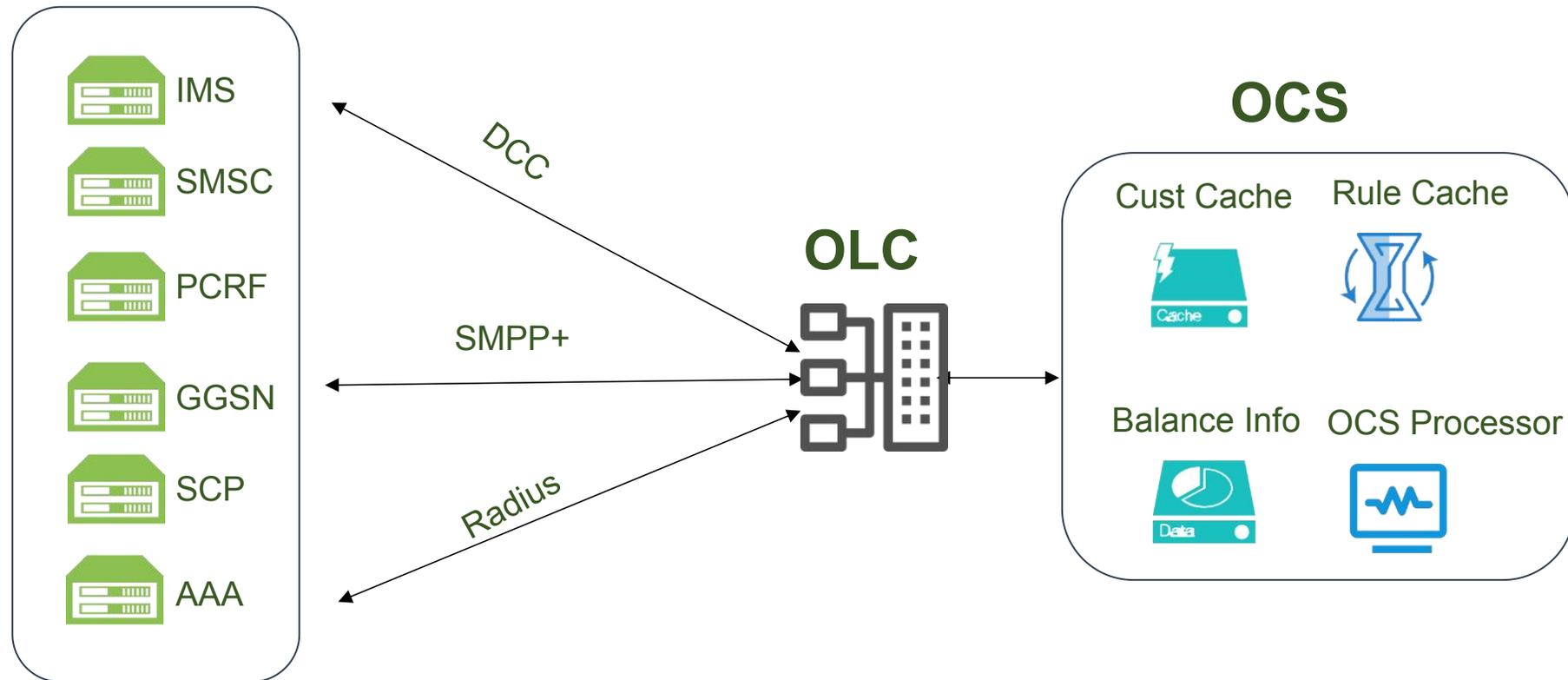


Action Node	
	Price Action
	Notification Action
	Accumulation Action

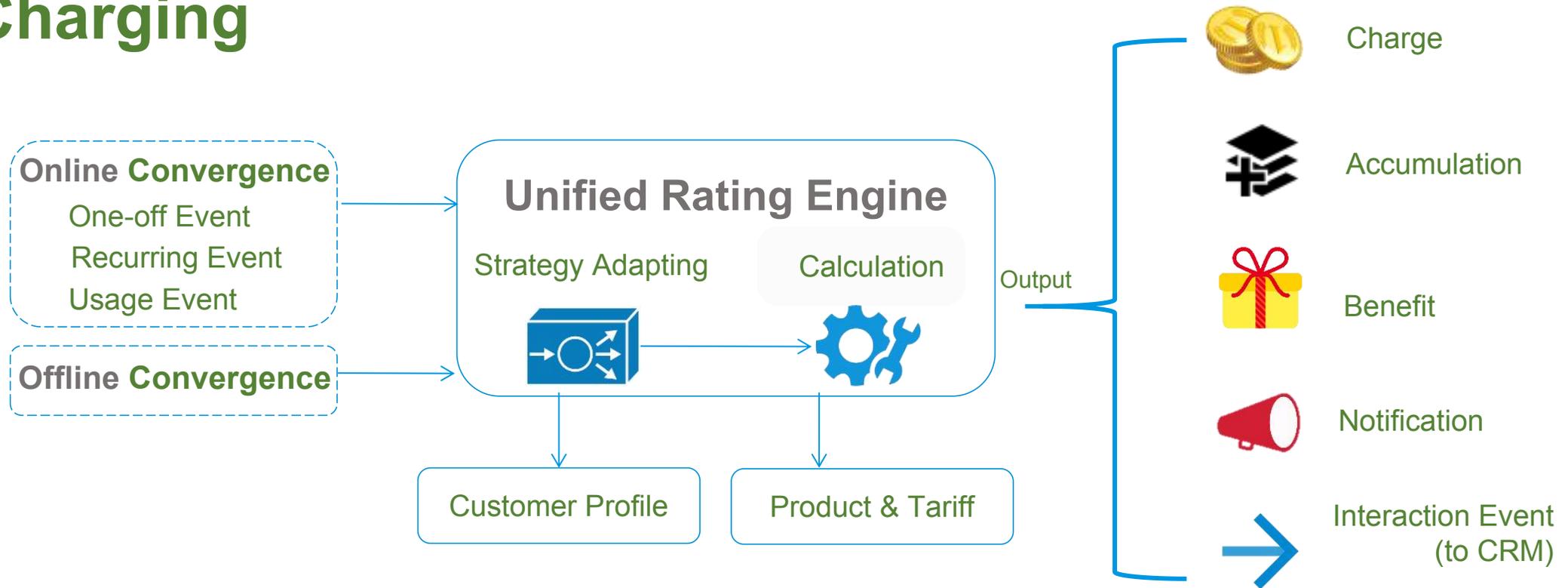
Judgement Node	
	Timespan Judgement
	Rank Judgement
	Accumulation Judgement

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

**SUNWAVE**

**Thank You!**

[www.sunwave.com](http://www.sunwave.com)

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