KAPSCH CARRIERCOM AND WIND RIVER

Telco-Ready NFV Solutions with High Software Efficiency, Reliability, and Fast Time-to-Market

As a part of the Wind River® Titanium Cloud™ Ecosystem, Kapsch CarrierCom and Wind River have partnered to integrate various virtual network functions (VNFs)—such as vEPC, vPGW, or vHSS products—with Wind River Titanium Cloud to achieve the following benefits of Network Functions Virtualization (NFV):

- Delivery of a common NFV infrastructure (NFVI) solution supporting any workload or VNF types
- Increased business agility and reduced time-to-market for new services, as well as migration of existing services to one joint NFV platform
- Improved service reliability with no single point of failure and best redundancy model for each tier—interface, database, control plane, user plane
- Increased flexibility with NFV platform engineered to meet the business needs of carrier service providers (CSPs), no matter how tailored and no matter how many requirements

TAILORED TELCO NETWORK VIRTUALIZATION SOLUTIONS

A network transformation is underway to enable better utilization through software-defined services. Communication service providers (CSPs) are seeking best-of-breed solutions that can help accelerate this transformation. The challenge here is to ensure compatibility with current and future requirements, reliability, and versatile usability.

Kapsch CarrierCom and Wind River have joined forces to offer to CSPs a common NFVI approach and associated support for CSP projects, designed and engineered specifically to meet their business needs, no matter how many customization requirements.
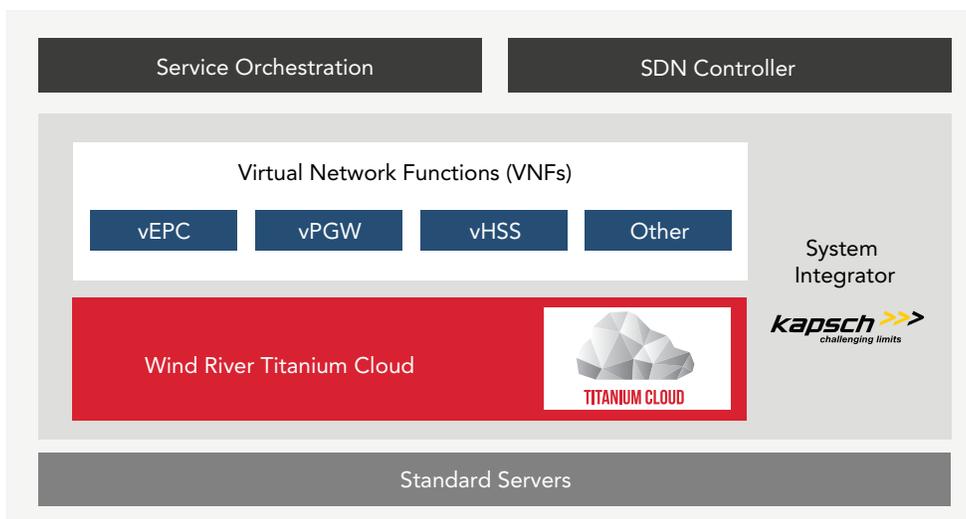
kapsch >>>
challenging limits

Ecosystem Component
- Independent systems integrator and SDN/NFV expert
- SDN/NFV consultancy

Solution
- Kapsch CarrierCom end-to-end solution design, systems integration, cross-validation, network virtualization consultancy

Value
- Network virtualization solutions to fit tailored needs of CSPs
- Open and interoperable, eliminating vendor lock-in
- Proven carrier grade
- Pre-validated multi-vendor E2E solutions
- Support for cloud-native VNFs or legacy without compromising overall design
- Faster time-to-market for customized solutions
- Optimized solution at scale of service provider requirements

Figure 1. Titanium Cloud components with Kapsch CarrierCom system integration

WHEN IT MATTERS, IT RUNS ON **WIND RIVER**

This partnership ensures a unique position in the market for a carrier grade platform brought by both companies working together. Wind River brings its deep specialization in delivering best-of-breed infrastructure, both open and carrier grade. Kapsch brings its multi-vendor approach, through a rich skill set in NFV and systems integration, while keeping the strategic accent on the network evolution in the forefront of any network project and enabling deep orchestration capabilities. Together, they deliver superlative pure play NFV solutions that serve as a baseline for any VNF or workload required.

ECOSYSTEM ENABLES THE PROMISE OF NFV FOR CSPS

Through the Titanium Cloud Ecosystem, Wind River has collaborated with industry-leading hardware and software companies to ensure the availability of interoperable standard NFV products optimized for deployment with Titanium Cloud. Utilizing solutions from the Titanium Cloud Ecosystem will accelerate time-to-market, reduce risk, and significantly improve the deployment of an end-to-end NFV infrastructure.

KAPSCH CARRIERCOM: ECOSYSTEM APPROACH

Kapsch CarrierCom is cooperating with numerous VNF vendors (incumbent or innovative partners) in their transformation program toward pure play NFV. Moreover, Kapsch, as a recommended systems integrator and NFV expert, is a member of many other ecosystems aiming to speed up the NFV journey for end users. Kapsch is offering its know-how, rich experience, and full NFV lab to implement, fine-tune, and deploy solutions on NFVI and complement their solution with full orchestration capabilities and integration into surrounding operational and business support systems. Kapsch is supporting various vendors in virtualizing their solutions from scratch, using the cloud native approach, in order to enable full orchestration capabilities and avoid virtual silos.
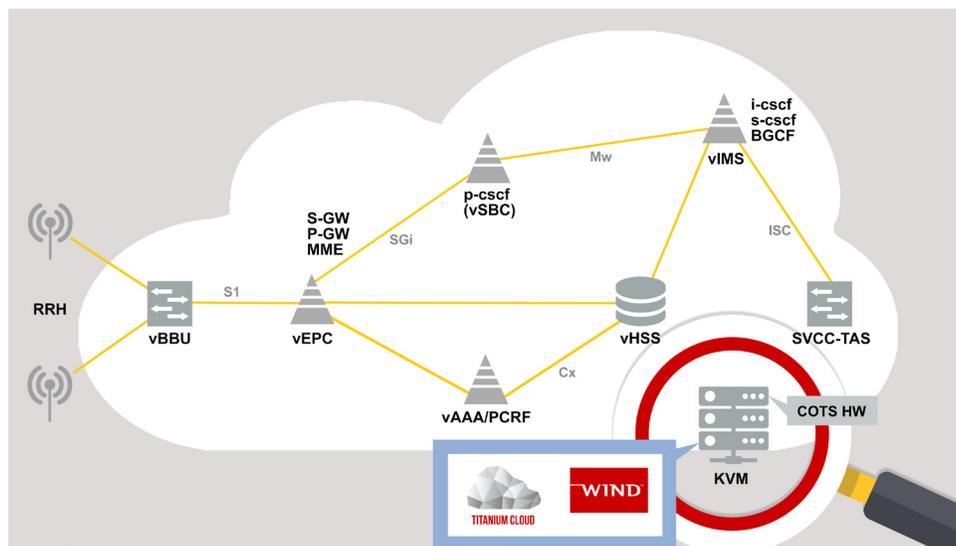

Figure 2. Kapsch CarrierCom cross-validation with Titanium Cloud

MORE INFORMATION

Detailed technical information about Wind River Titanium Cloud can be found at www.windriver.com/products/titanium-cloud/telco.

Detailed information about Kapsch CarrierCom SDN/NFV services and solution approach can be found at kapsch.net/kcc/Solutions/Innovative-telco-solutions/SDN-NFV.

Or contact:
salesinquiry@windriver.com
Kcc.carriers@kapsch.net

Additional information about the Titanium Cloud Ecosystem can be found at www.windriver.com/announces/titanium_cloud_partner_program.

Relying on 125 years of innovation and systems integration experience in the telco domain, together with early involvement in NFV with a pure integrator approach, Kapsch CarrierCom offers extended services in the NFV domain to meet CSP requirements on their network evolution journey from consultancy services to high-level design or integration and deployment services or even to delivery of prepackaged NFV solutions.

Working with Wind River within three dimensions—vertical, horizontal, and global—Kapsch CarrierCom has completed an E2E pure play NFV solution validation with Titanium Cloud in its fully virtualized lab and orchestrated the complete solution, using native and third-party orchestrators. The balanced approach of this solution between the carrier grade requirements and open source standards has brought perfect balance and the capability of carrying any VNF on top of it.

WIND RIVER: TITANIUM CLOUD

As the industry's first fully integrated and feature-complete NFV software platform, Titanium Cloud enables an NFV infrastructure to achieve the ultra-reliability and high performance mandated for telco networks. It delivers six-nines (99.9999%) reliability compared to the three nines of virtualized platforms based on common enterprise software. Combining open source and open industry standards, with required carrier grade extensions, Titanium Cloud is the only commercial server solution enabling service providers to maintain the rigorous uptime required as networks transition to a virtualized infrastructure. With Titanium Cloud, service providers can now meet the "always on" expectations of consumers.

WIND RIVER AND KAPSCH PARTNERSHIP BENEFITS

The final result is a successful cross-validation of the multi-vendor E2E solution in a fully virtualized lab. Moreover, this solution is future proof and has proudly proven the carrier grade attribute, while at the same time staying "open" to be able to easily accommodate third-party applications, even on a global level. With scaling capabilities available from day one, you can unleash the full set of NFV benefits and further build on this solution.

SUMMARY

The Kapsch CarrierCom and Wind River partnership enables service providers to leverage NFV without sacrificing the reliability and performance of hardware networking solutions, while delivering to market in a shorter time. By collaborating with Wind River through the Titanium Cloud Ecosystem to provide interoperable networking services, Kapsch is able to deliver best-in-class performance on an open platform, enabling the rapid creation of innovative and reliable systems while designing those services based on the focused, specific business need, no matter how deeply customized.