

Alpha Bridge TeleQuill IN Datasheet



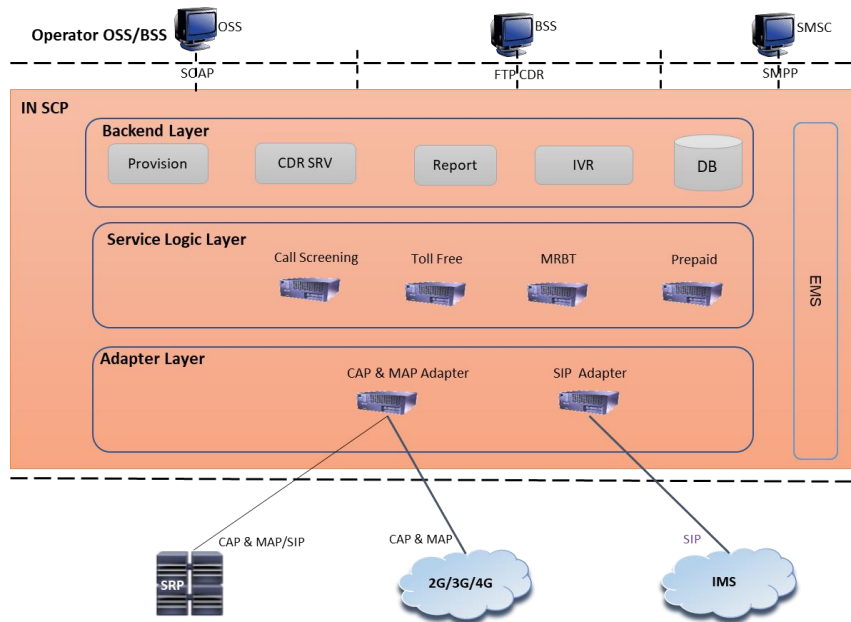
Introduction

- Alpha Bridge is one of the fastest growing technology providers in the field of Telecom and Network solutions in India. Alpha Bridge has a wide range of products ranging from Access Layer to Core Layer such as L2 Unmanaged/Managed, L3 Lite, Layer 3, PoE (Across Portfolio), GPON Gear & Optics (1G to 400G), NMS, VAS, IN, SMCS,SBC. Most of these products are indigenously designed, developed and enhanced by Alpha Bridge engineers to make them suitable for Indian market requirements in compliance with national & international standards and norms.
- Some of our products like Managed Switches and GPON OLT & ONT etc. have already been tested and certified by Indian Telecom Engineering Centre. These products have been further tested & supplied to major customers like DRDO, Vodafone Idea, Asianet, Bharti Airtel, Indian Railways, HAL etc.
- After successful business experience in hardware domain of product development, Alpha Bridge decided to venture into software research & development and developed a comprehensive software suite named Telequill which is best suited for today's complex and digital transformation era of telecom. It helps in bringing more automation to improve customer satisfaction by adding more services, features and quality. This software suite is highly flexible, it not only supports legacy telecom networks but is also capable of supporting latest cutting-edge technologies like **artificial intelligence** and cloud-based networking. It supports latest software virtualization techniques like **NFV, MANO etc.**
- Telequill is integrated software suit that is agile, efficient and flexible to cope with highly dynamic world of telecom technology, it based on modular architecture to easily accommodate/adopt ongoing new advancement which in turn improve ROI for TSP's/ISPs.

Product Introduction

- Alpha Bridge Telequill software suit having immense possibilities for future enhancement. Specially, the Telequill wireless IN which provides a one stop solution for all prepaid communication needs.
- Telquill integrated software platform products are flexible enough to cater future capacity enhancement requirements also. These products can be integrated in any telecom network with the help of their flexible northbound and southbound interfaces, it not only supports legacy telecom networks but is also capable of supporting latest cutting-edge technologies like **artificial intelligence** and cloud-based networking. It supports latest software virtualization techniques like **NFV, MANO etc.**
- **Key Deliverables**
- This IN solution supports multiple services like Toll free, Call screening, MRBT, and Prepaid.
- It supports subscribers in 2G/3G/4G networks.
- TeleQuill IN solution supports multiple signaling protocols like SIP/CAP/MAP/FTP etc.
- This IN solution is based on ETSI Customized Application for Mobile Network Enhanced Logic (CAMEL) Phase 3,3GPP TS 23.078 version 4.11.1 release 2004.
- It supports CAMEL Application Part (CAP), 3 OPP TS 29.078 version 4.9.0 release 2009.
- This IN solution complies with the TEC-GR-WS-ING-001-02-MAY-07 requirements.
- At present, TeleQuill can be installed in COTS server hardware e.g. Dell & HP. However, the cloud-based solution is in the development roadmap.
- TeleQuill can be managed by an indigenously designed EMS solution.
- This product is still in evolution and it promises to add new IN features, protocols and networks in near future

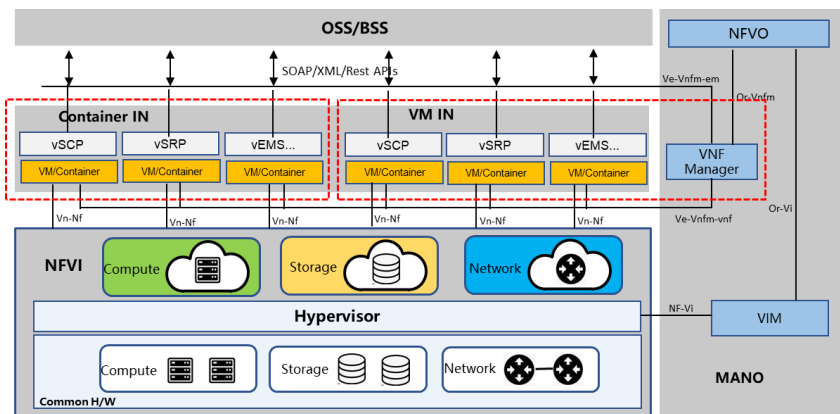
Network Layout



Features list

- Prepaid for voice, SMS and data
- Toll Free (TFN)
- Premium Call
- UAN
- MNP DB
- MRBT
- Audio and Video Ringback Tone
- IP Centrex/Mobile VPN
- Convergent Centrex/VPN
- Call Screening (Black & White List)
- Call DND (Black and White List)
- Anti Spam call/Robot call
- Voice Mail
- Call Record

Cloud Deployment



De-couple Software and Hardware

vIN Support OpenStack NFV and de couple H/W and S/W, remove H/W vendor lock-in, improve H/W usage efficiency, reduce cost.

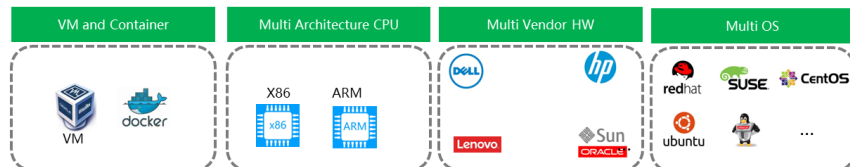
Orchestration

vIN support below orchestration function VNFM

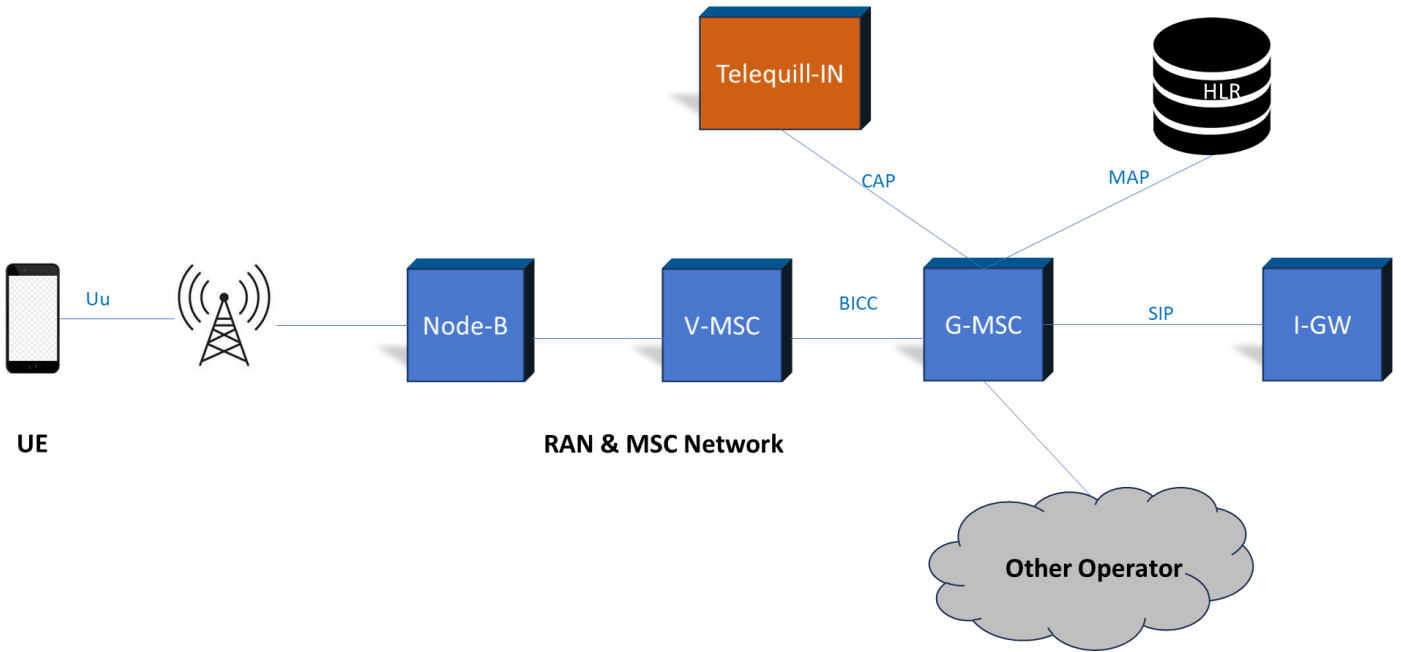
- VNF/NE Automatic On Boarding
- Automatic Scaling
- VNF Healing

Telecom Network Hardening

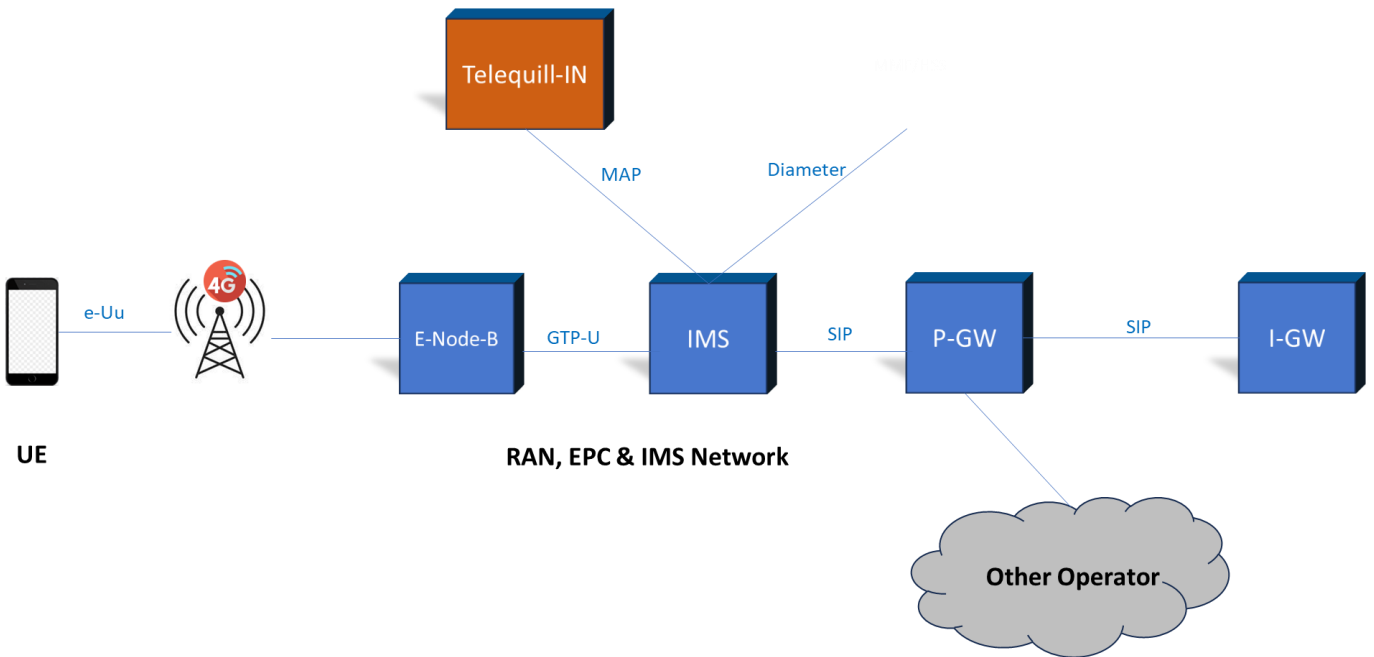
- VM Hot Migration
- Super Delay via DPDK, less than 5ms
- Snap Shot
- Enhanced Security
- Service Orchestration
- Real Time monitor of CPU, RAM, NIC of three layer: Server, VM and VNF layer



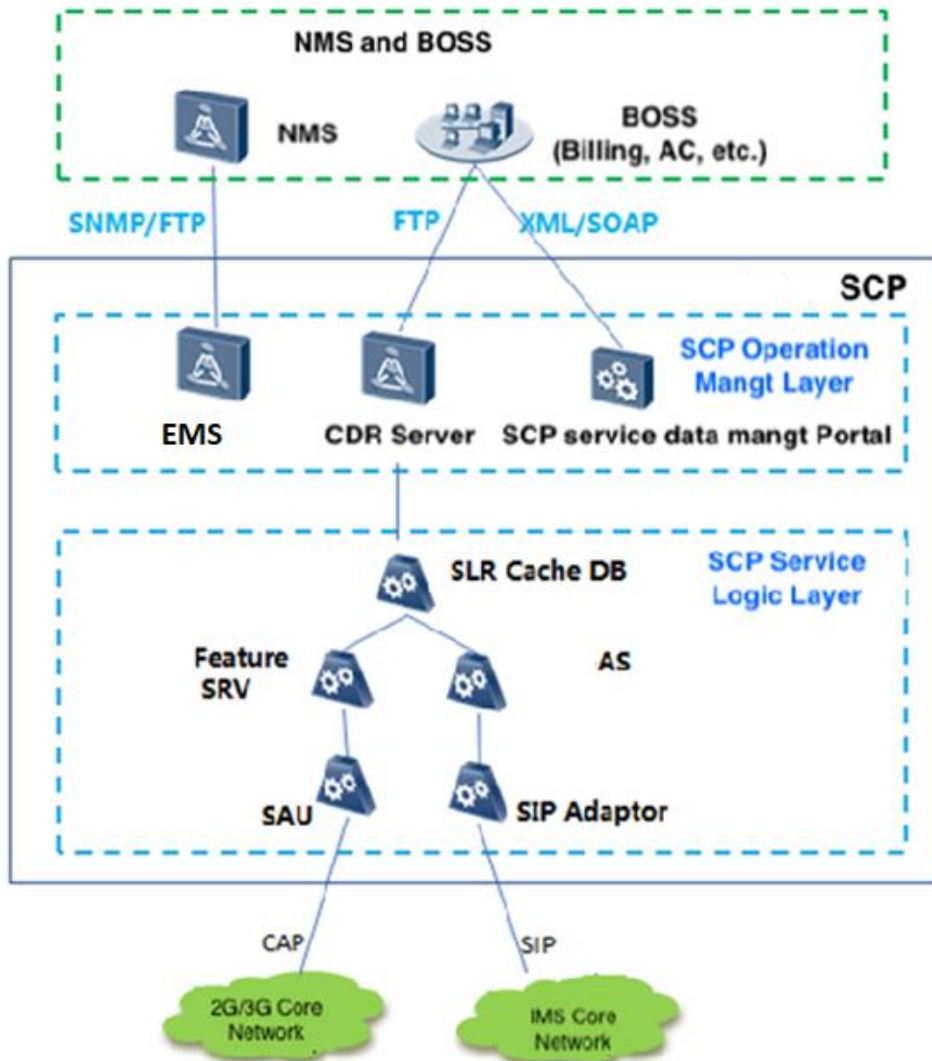
Telequill-IN & 2G/3G Network Connectivity



Telequill-IN & 4G Network Connectivity



Telequill-IN Integration



- IN SCP, IMS AS
- Integrated with STP, 3G CS, IMS & BOSS
- 2G/3G/VoLTE users

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