

CommPacket Wholesale VoIP Exchange Solution

Introduction

CommPacket Broadband VoIP Solution is a pre-integrated Platform aimed specifically at Wholesale VoIP Interexchange Carriers involved in hubbing services. This telco-grade solution provides the scalability, reliability and manageability to easily support hundreds of thousands of business-grade calls in a highly distributed network. With the advancement in technology as well as the Carrier acceptance and demands, hubbing services is gaining momentum and this solution provides the shortest time-to-market to the Service Providers.

Application

Using this solution, the Inter-exchange VoIP Operators can originate and terminate long distance calls over IP and improve margins through price arbitrage opportunities. This solution provides bi-directional call flow between Carriers. This solution also enables carrier to carrier reconciliation of calls / minutes transferred. Various features provided by this solution are:

1. Session Border Controller Features (Signaling - Routed / Non Routed, as well as Full Proxy Mode).
2. T.38 Fax support
3. Provisioning Features
 - A. End to end Real time Call Tracing Capability
 - B. Dynamic Modifications to Parameters during Operations
 - C. Real-time provisioning of Routes and Calling Plans through a web based Interface:
 - a. Unlimited Routing Tables
 - b. Carrier Identification Code (CIC)
 - D. Flexible Routing Plans based on :
 - a. Call Type, Originating Line Information
 - b. Calling Party Number, Called Party Number
 - c. Source & Destination Trunk Group based Routing
 - E. Optimized Routing Including :
 - a. Least Cost Routing Algorithm, Preferred Routing
 - b. Post Dial Delay Algorithm, Average Success Ratio Algorithm
 - c. Load Sharing, Route Fail Over
 - F. Web based Management

With the above features, CommPacket Wholesale VoIP Inter-exchange Solution provides a competitive advantage to the Operator in routing calls through the most inexpensive routes available.

Application Benefits

The following is a snapshot of the Solution benefits:

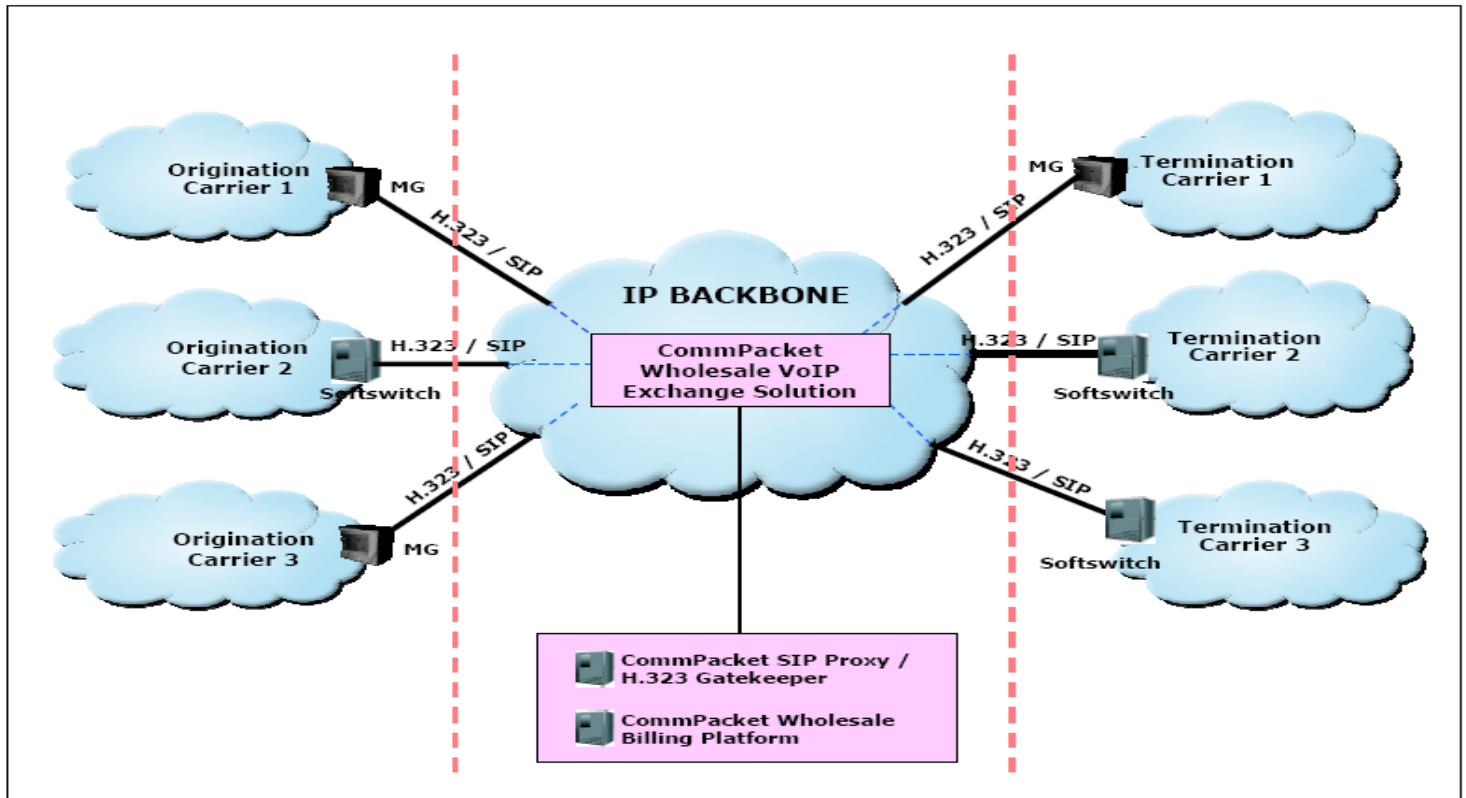
1. The solution is pre-integrated and requires least amount of third party product integration (if any). This helps the Service Provider to have an easier and faster time-to-market.
2. The Service Provider need not depend on a shared Softswitch platform and thus will enjoy full control over any changes to be made on the solution.
3. The Service Provider's business is not dependent on the Hosted Service Provider's business risk as against only reselling services.

Solution Elements

The following are the solution elements needed:

1. CommPacket H.323 Gatekeeper and/or CommPacket SIP Proxy
2. CommPacket Wholesale VoIP Billing Platform
3. CommPacket Media Proxy (Optional)

Application Schematic



Minimum Hardware Requirement

1. One Server for CommPacket H.323 GateKeeper / CommPacket SIP Proxy
2. One Server for CommPacket Wholesale VoIP Billing Platform.

A minimum of 2 Servers with minimum configuration of P IV, 2.8 GHz, Minimum 2 GB RAM, Single CPU, 80 GB HDD, Red Hat Linux 7.2 or above / Sun Solaris 10 and Gigabit Ethernet / 100baseT Network Interface.

Bandwidth Requirement on the Server Side:

1. 24 Kbps per concurrent call.

Fault Tolerance and Reliability

1. Carrier Grade 99.999% reliability.
2. Support for Automatic Switchover of any session to Active Backups.
3. Support for Geographic Redundancy
4. CPU Overload Protection

ABOUT NEXGE

Nexge operates in the IP Communications Segment and provides diverse range of Unified Carrier Solutions (VoIP) to traditional Wireline, Wireless and Broadband operators globally. The products include Class 4 & 5 Softswitches, VoIP Billing Systems (Prepaid & Postpaid), Value added services like Conferencing, Voicemail, UMS, Fax Server etc. Operators use these solutions to provide value added services and enjoy Unified Network Management.

Nexge has a current installed capacity of around 1.0 Billion VoIP minutes per annum of its Softswitch technology. Nexge's clients span from India, North America and South Asia. Nexge is a part of TeNet (Telecom and Network Engineering) Group of IIT-M, Chennai, India. Cumulatively the TeNet Group represents around 1400 employees and revenues of around USD 80 Million.

Nexge Technologies (P) Ltd
 ESB-001, Digital Techniques Lab
 Electrical Sciences Block,
 IIT-M, Chennai - 600 036
 INDIA.

Tel: 91-44-55271155
 Fax: 91-44-22570120
 sales@nexge.com
 www.nexge.com

Copyright © 2005. Nexge Technologies (P) Ltd.
 Nexge, CommPacket, Nexge logo and CommPacket logo are trademarks of Nexge Technologies (P) Ltd. Other trademarks and trade names mentioned in this publication belong to their respective owners.