

Alteva Chooses Next Generation Least Cost Routing from TransNexus

ATLANTA, GA, June 4, 2013 /EINPresswire.com/ -- With the help of TransNexus, VoIP management software experts, Alteva has recently implemented a complete centralized [Least Cost Routing \(LCR\)](#) solution with ten digit routing and [number portability](#). A complete case study is available at www.transnexus.com.

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Alteva, a cloud-based Unified Communications (UC) solutions provider, offers the most reliable network, the most responsive and proactive customer service and the best value to its customers. It delivers Broadsoft based class 5 cloud-based UC solutions to businesses, resells their UC platform to other carriers at wholesale, and offers class 4 origination and termination service for carriers. Alteva is one of the top ten largest hosted IP telephony and UC providers in North America

Before coming to TransNexus, Alteva was using a static Least Cost Routing (LCR) system for carrier origination and termination business. The LCR system generated a static LCR table, limited to six digit dial codes and exported it directly to Alteva's softswitch. The static LCR system was slow to update routing changes and could not eliminate unprofitable routes because of the six digit dial code routing limitation. Alteva needed a dynamic LCR engine that could be updated in real time and ensure that every route was profitable.

Alteva made the decision to switch to TransNexus's next generation least cost routing solution, utilizing NexOSS software and OSPrey route servers. NexOSS is a centralized application for provisioning routes and rating Call Detail Records (CDRs). With this solution, least cost routing configurations are replicated from NexOSS to OSPrey. Alteva's Sonus softswitch then routes calls to OSPrey, which determines the least cost routing and then send a SIP invite back to the switch with lowest cost routing instructions.

By keeping the LCR table on a routing server, rather than directly on the switch, Alteva can now dynamically update multiple routing tables with millions of possible no loss routes. The routing server automatically updates in real time as rate changes occur in the billing system. NexOSS enables centralized routing control of distributed OSPre routing servers that can serve both wholesale and retail business units with different soft switches.

As a next-generation solution, NexOSS software was designed with the issues facing today's VoIP carriers in mind. With a built-in number portability module and the ability to host the North American Number Portability Database (NPAC), NexOSS allows for LRN based routing, to ensure proper and up-to-date routes are available for all calls. NexOSS also collects the Call Detail Records (CDRs) as calls are completed, and creates detailed reports, giving Alteva near real time margin analysis. NexOSS reports show origination fees, termination fees, and gross profits by customer, product, provider, time of day, and dial code. NexOSS No Loss Least Cost Routing features allow Alteva to reject unprofitable calls. With NexOSS, Alteva has deep insight into their operations and the ability to structure their business to optimize profit.

Finally, NexOSS adds a layer of protection against [telecom fraud](#). By analyzing the CDRs and routing requests, NexOSS can detect fraudulent activity on Alteva's network. When NexOSS detects fraud, it sends Alteva's engineers automatic Email and SNMP alarms, and may also temporarily suspend the suspicious route from the routing table, effectively stopping the fraud event before Alteva starts losing money.

About TransNexus

TransNexus is a software development company specializing in applications for managing wholesale VoIP networks. Important carrier features offered by TransNexus are fraud detection, dynamic least cost and quality of service routing, number portability, profitability analysis and wholesale billing. TransNexus is located in Atlanta, Georgia and is a privately held Delaware C corporation. For more information, visit <http://www.transnexus.com>.

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Valerie Bradford

TransNexus

6788197092

[email us here](#)

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