



Vincisoft Total Switching Solution Real-Time Monitoring

Monitor
Calls Up: 860
1/2 >> 500

Source IP	Site Name	ANI	Destination	Gateway	Codec	Duration	He
94.180.101	GLOBAL	92028292208	524256227272	MOVISTAR3	PROXY	01:40:45	TS
94.180.108	GLOBAL	0983210983202	527392982293	MOVISTAR3	PROXY	01:38:52	TS
94.180.99	GLOBAL	2309829028332	528039393022	MOVISTAR3	PROXY	01:35:46	TS
94.180.103	GLOBAL	987329872323	528093039392	MOVISTAR3	PROXY	01:24:00	TS
		130982308923	528339282392	MOVISTAR3	PROXY	01:23:52	TS
				MOVISTAR3	PROXY	01:20:14	TS
				MOVISTAR3	PROXY	01:18:29	TS

NACT's VinciSoft Class IV/V SoftSwitch

In today's market, carriers must balance lower service revenues against escalating demands for capacity and choice of service. Technology plays a greater role than ever, when it comes to effectively managing your business.

NACT's new VinciSoft softswitch is designed for carriers seeking tandem, carrier interconnection, international gateway, and routing functionality. This highly-scalable softswitch solution delivers Next-Gen VoIP traffic or legacy TDM traffic, and allows carriers to optimize their route plans, address their customers' needs, and achieve their revenue goals. VinciSoft is the official carrier offering of the Freeswitch Project.

Quality and Security, for Today and Tomorrow:

Network topologies are constantly changing. VinciSoft's session border controller (SBC) addresses the security and technical issues of IP-to-IP connectivity that are common in IP networks. VinciSoft facilitates direct peering with other service providers, using SIP or H.323, and connection to the PSTN, all in a single platform. VinciSoft's SBC functionality provides connectivity and interworking for all types of networks, paving the way for a smooth transition to next-gen networks as they evolve.

Cost-Effective, and Scalable Applications:

VinciSoft provides Applications such as Prepaid and Postpaid Carrier billing with automated customer notifications. The system will also automatically shut down customer traffic at pre-determined dollar amounts if the operator of the system chooses this option. VinciSoft simplifies daily operations: it is fully integrated with NACT's BAT-1000 billing system to provide Automated LCR and proportional routing. The billing system also includes modules that perform carrier billing, carrier reconciliation, Profit and Loss reporting, traffic reports and much more. This scalable solution can be expanded to support up to 32,640 simultaneous calls (via a redundant call control host). VinciSoft's modular and scalable architecture allows service providers to start out at a capacity that meets current needs, and seamlessly expand as their business grows.

System Architecture:

VinciSoft is deployed in a 2U-high PC form factor. Each machine is an 8 core Xenon machine and can process up to 4,000 concurrent calls at high CPS. The individual VinciSoft servers can be clustered together to form a single switch that can process up to 32,640 calls. NACT's BAT-1000 billing system is also built on 8 Core Xenon machines and can be purchased in redundant or non redundant configurations. The BAT-1000 uses the industry leading Oracle database, which provides almost unlimited scalability.

The VinciSoft Carrier Solution can be deployed in a VoIP-only mode, reducing costs, and eliminating the need for proprietary hardware. The system can also be equipped with TDM cards to provide up to 32 E1's in a single box, and multiple Vinci Gateways can be combined in a single system.

PROTECTS BUSINESS-CRITICAL RESOURCES:

VinciSoft protects business critical resources, such as call records, by providing full redundancy for CDR's. There are always two copies of your CDR's. A primary copy is sent to the BAT-1000 billing system in real time, where it is also rated in real time and decremented against Customer balances. A second copy of every CDR is kept in the switch itself so that (in the unlikely event that the records are not recorded by the billing system) a backup copy is always available, which can be sent to the billing system at a later time. Redundant data storage protects critical revenue information, so that you are always able to invoice your customers.

VinciSoft Benefits:

- Full VoIP Capabilities at high CPS without proprietary hardware
- Hardware can be added as needed for complete TDM interoperability with all existing TDM protocols, including ISDN and SS7/C7
- Fully scalable up to 32,640 calls at high CPS
- Full redundancy support for automatic fail-over and network integrity
- Fully integrated billing and switch management system
- Can operate as transparent proxy or in infrastructure hiding mode, acting as a back-to-back user agent
- Full transcoding capabilities
- Fully partitionable for multiple customer environments
- Preserves investment in existing network topologies while enhancing network capability
- C5 Internet telephony allows you to assign DID's to end users and sell retail programs
- VinciSoft is the official carrier offering of the Freeswitch Project

Session Border Features:

- Access Control Firewall
- Topology Hiding
- Session Admission Control
- Denial of Service (DoS)
- and Call Limiting on both inbound and outbound legs

Interoperability and Interworking:

VoIP:

SIP and H323 – SIP B2BUA/SRTP/TLS Ipv4/Ipv6

- CELT (32 kHz and 48 kHz)
- G.722.1 (wideband)
- G.722.1C (wideband 32 kHz)
- G.722 (wideband)
- G.711
- G.726 (16k, 24k, 32k, 48k) AAL2 and RFC 3551
- G.723.1 (passthrough)
- G.729AB may be used in passthrough mode or licensed
- AMR (passthrough)
- iLBC
- Speex (narrow and wideband)
- LPC-10
- DVI4 (ADPCM) 8 kHz and 16 kHz
- SILK

TDM:

- R1– LS,GS,E&M,E&MWS,FGA,FGB,FGD
- Out of Band Digital Signaling – ISDN, SS7/C7 ISUP Signaling

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Let NACT's Portfolio of Revenue-Generating Products and Applications Help Your Business Thrive

TO LEARN MORE ABOUT NACT, PLEASE VISIT US AT WWW.NACT.COM



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