Vinci Solution

NACT's Next Generation Communication Platform

Product Features

The Vinci Solution provides seamless inter-connections with both IP and TDM networks, delivering revenue generating applications in a scalable plug-and-play architecture.

> Controls up to 80 MTN Gateway or 38,400 calls

> Provides centralized application control which includes:
- Prepaid Calling Card
- One number dialing
- ANI Authentication and translation
- Number Translation Services
- 800 Forwarding
- Travel Card
- Fraud control
- Wholesale transport
- Least Cost routing

> IP and TDM signaling protocols:
- H.323/SIP/VoIP 7
- In-band (E&M and FG)
- ISDN PRI and SS7

> Built-in data recovery
> Remote IP connectivity
> UNIX-based, redundant servers

NACT's Vinci Solution

In today's changing telecommunications market, service providers are faced with providing innovative and customer-demanded services. Network topologies are changing with the introduction of VoIP along with increased consumer mobility and feature expectations. Service providers must meet these challenges while making sure that their network and capital investments not only meet their current needs, but also move to meet the needs of the future. For over 25 years, NACT has been meeting these requirements and now is no exception to that history. NACT's Vinci Solution provides the benefits of tried and true telephony applications, innovative consumer features and scalability that future-proofs your service delivery needs within a price point that preserves your precious capital. Read on to find out how Vinci accomplishes this.

Implements Cost-Effective Scalable Applications

Vinci provides global applications such as Prepaid Calling Card, Automatic ANI Authentication, pre and post paid billing, wholesale transport and management, fraud control, and Least Cost Routing. Vinci provides all of these applications and more in a scalable solution that can be expanded to support up to 32,640 simultaneous calls via a redundant call control host and up to 80 1U MTN Gateway nodes. This configuration allows you as a service provider to start out at a capacity that meets your current needs and expands seamlessly and continuously as your business base grows.

Delivers Real-Time Operational Support

With NACT's Vinci Solution, multiple MTN Gateway nodes become a single functional unit; slashing overhead and dramatically simplifying provisioning and management tasks. Vinci's efficient processing capabilities greatly reduce costs and administration of network infrastructure such as SS7 links (or connections) to individual gateway switches. Fewer SS7 links equate to easier management, fewer points of failure, and reduced costs.

Protects Business-Critical Resources

Vinci uniformly and universally applies fraud control parameters such as usage limitations, blocked destinations or credit card recharge restrictions across all gateways. The Vinci Solution also checks potentially fraudulent activity in all gateways against all usage constraints. These comprehensive fraud control features protect the service providers by minimizing costs incurred by fraudulent activity.

Redundant data storage of Vinci protects critical revenue-generating information such as call detail records (CDRs) and prepaid transactions. Additionally, efficient built-in data backup to tape is a feature of Vinci's control host.

The NACT Vinci Solution seamlessly links up to 80 non-blocking MTN Gateway nodes with high call capacity in minimal space. Vinci's capacity and performance delivers proven number authentication, authorization, and wholesale carrier applications, making it an extremely scalable and cost-effective foundation for your business' growth.

Vinci Solution

Technical Specifications – MTN 960

Performance and Capacities

Up to 200 Prepaid Calls Per Second
Up to 320 SS7 Calls Per Second (Host based)
Up to 33 SS7 Calls Per Second (D240 Board based)
Up to 7 H.323 Calls Per Second (D240 Board based)
Up to 100 SIP Calls Per Second (Host based, Preliminary)
Standard 19-inch mid-rack mounts
Sun Netra 210, 240 or 440 servers
2U (210), 5U (240) or 8U (440) server form factors

210 Server Platform

Supports 1-20 MTN Gateway nodes
Up to 7,680 T1 or 9,600 E1 TDM; 9,600 RTP resources
Up to 320 T1 or E1 connections
Up to 4,800 TDM-TDM; 9,600 TDM-VoIP or 4,800 VoIP-VoIP calls

240 Server Platform

Supports 1-40 MTN Gateway nodes
Up to 15,360 T1 or 19,200 E1 TDM; 19,200 RTP resources
Up to 640 T1s or E1 connections
Up to 9,600 TDM-TDM; 19,200 TDM-VoIP or 9,600 VoIP-VoIP calls

440 Server Platform

Supports 1-80 MTN Gateway nodes
Up to 30,720 T1 or 38,400 E1 TDM; 38,400 RTP resources
Up to 1,280 T1 or E1 connections
Up to 19,200 TDM-TDM; 38,400 TDM-VoIP or 19,200 VoIP-VoIP calls

210 SUN Server Specifications

Sun Netra™ 210 server running on Solaris 9 (update 8) OS and later, or Solaris 10 (03/05) OS and later
NEBS Level 3-certified DC version only.
One or two 1.3 GHz UltraSPARC IIIi processors
Four 10/100/1000 Base-T Ethernet
Up to two hot-swap, SAS, 73-GB, 10K-RPM disks
2 GB RAM (expandable to 8 GB)
Typical system input power: 235 to 355 watts depending on configuration.
Maximum Input Power (AC version): 460W (100VAC @ 4.6A)
Maximum Output Power (AC version): 320W
Maximum Power consumption: 1570 BTU/hr
Typical Power consumption: 1200 BTU/hr
Power Inputs: Single AC power input or dual DC power inputs at 200-300W. 320W maximum output.
1U form factor

240 SUN Server Specifications

Sun Netra 240 server running Solaris 8 OS
NEBS Level 3 certified
Dual 1.28 GHz UltraSparc IIIi processors
4 GB RAM (expandable to 8 GB)
Dual hot-swappable, 15K RPM, 73 GB, Ultra160 SCSI LVD disk drives
Four 10/100/1000 Mbps Ethernet ports
CD-ROM drive
2U form factor
Dual hot-swappable, -48VDC power supplies (N+1)
364 watts typical power consumption

440 SUN Server Specifications

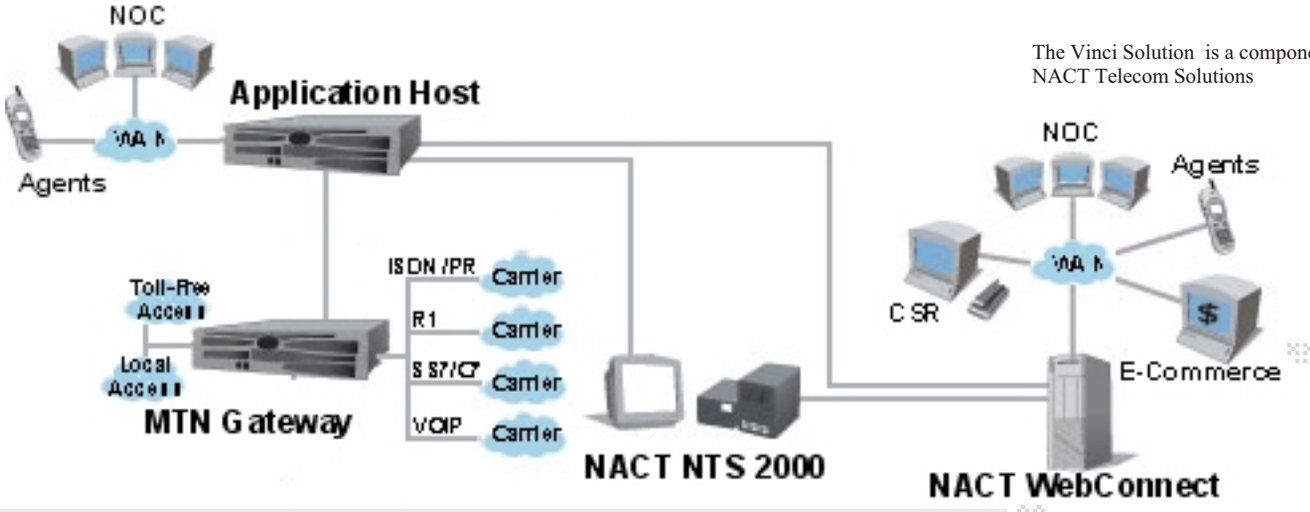
Sun Netra 440 server running Solaris 10 OS
NEBS Level 3 certified
Quad 1.28 GHz UltraSparc IIIi processors
8 GB RAM (expandable to 16 GB)
Quad hot-swappable, 15K RPM, 73 GB, Ultra160 SCSI LVD disk drives
Six 10/100/1000 Mbps Ethernet ports
CD-ROM drive
5U form factor
Quad hot-swappable, -48VDC power supplies (2+2)
660 watts typical power consumption

RAID Subsystem Specifications

NEBS Level 3 certified
Dual Ultra160 SCSI Controllers
Dual hot-swappable, -48VDC power supplies, each with dual fans
Six hot-swappable, 15K RPM, 73 (240) or 146 (440) GB LVD disk drives
RAID Level 1 (mirroring)
Configured as two logical 73GB (240) or 146GB (440) drives and two hot standby drives
2U form factor
300 watts typical power consumption

Tape Backup Subsystem Specifications

DAT 72 technology
72 GB capacity (compressed)
-48VDC power supply
1U form factor
10 watts typical power consumption



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