



Quintum's Tenor: Branch Office VoIP

Quintum's Tenor switch provides a branch office VoIP solution for the Nortel Call Servers, including the Communication Server 1000 (CS 1000), Communication Server 1000M (CS 1000M) and Business Communications Manager (BCM). Quintum's Tenor delivers intelligent connectivity with each of these Call Servers, traditional analog phones and the PSTN. If connectivity to the any of the Call Servers is lost, the Tenor will continue to support interoffice VoIP calling and connectivity to the PSTN for all the analog devices connected to Tenor.

VoIP network. In addition to providing traditional analog phones and fax machines full access to the IP network, Tenor switches also allow the Call Server access to the remote office PSTN network for local calls.

Nortel Call Servers can route calls from IP phones and analog devices over the IP network to a Tenor at another location, where the calls can then "hop-off" onto the PSTN. This allows Nortel customers to achieve even greater cost savings by using the corporate network to bypass long distance and international toll charges. The Tenor also enables calls from the PSTN to "hop-on" to the VoIP network and get routed to the appropriate end-point (whether it's an IP phone or analog device) anywhere on the network. This allows the network to be further leveraged by remote and/or mobile users. Access to the VoIP network from the PSTN can be authorized via internal IVR prompts and PIN codes.

In combined Nortel/Quintum environments, the Call Servers provide Nortel feature set to Nortel IP phones and provide key call processing and calling features for analog phones. If the branch office loses connectivity to the CS 1000 or BCM, the Tenor ensures that all calls from analog devices connected to the Tenor will be completed by automatically routing all calls over the PSTN network. Tenor switches therefore radically reduce the risk of VoIP deployment.

The Tenor's integrated "gatekeeper" functionality provides an additional level of reliability. This gatekeeper can be configured as a secondary gatekeeper to support the VoIP network. If connectivity with the Nortel Call Server is lost, the Tenor's gatekeeper will take over the call processing for the Tenor analog endpoints. This will allow



Leveraging the strengths of its Developer Partners and their Compatible Products, the Developer Program has become a key contributor in the success of Nortel by broadening its reach and responsiveness in meeting the needs of its channels and customers. Each Nortel Compatible Product has met established requirements for integration, functionality and stability, further reducing total cost of ownership.

Quintum's Tenor switch delivers an effective branch office VoIP solution for Nortel Networks Call Servers. The Tenor's unique MultiPath architecture provides intelligent call routing and complete support for the branch office networking including:

- Connectivity between the PSTN and the Nortel Networks Call Servers
- Connectivity between analog phones/fax machines and the Nortel Networks Call Servers
- PSTN "hop off" and "hop on"

Tenor switches offer FXS and FXO connections in addition to a VoIP interface to the IP network. This allows Nortel Call Server users to build a much more flexible

the VoIP network to remain functional between all the branch offices for calls from the analog phones connected to the Tenor. The analog phones will support basic calling functions, and all connectivity provided by Tenor switches will continue uninterrupted.

Where multiple branch offices are supported with Tenor switches, the analog phones and fax machines connected to the Tenors can take advantage of the Tenor's unique features for communication between those offices.

These capabilities include:

Real Time QoS Switching

SelectNet™ Technology can monitor the quality of all VoIP calls between Tenor Switches and if the quality of the call becomes threatened by IP network impairment, the call can be transparently switched to the PSTN - in mid call!

Easy co-existence with NAT

Many VoIP switching architectures have difficulty in environments where network address translation (NAT) is used on network firewalls. The Tenor's NATAccess™ feature makes it easy to implement a secure VoIP network in these environments.

Optimum bandwidth efficiency

Unique PacketSaver™ Technology lets Tenor Switches multiplex VoIP packets to achieve bandwidth utilization reductions of up to 57%.

Full Standards Compliance

Tenor Switches support and interoperate with a wide range of standards-compliant third-party products.

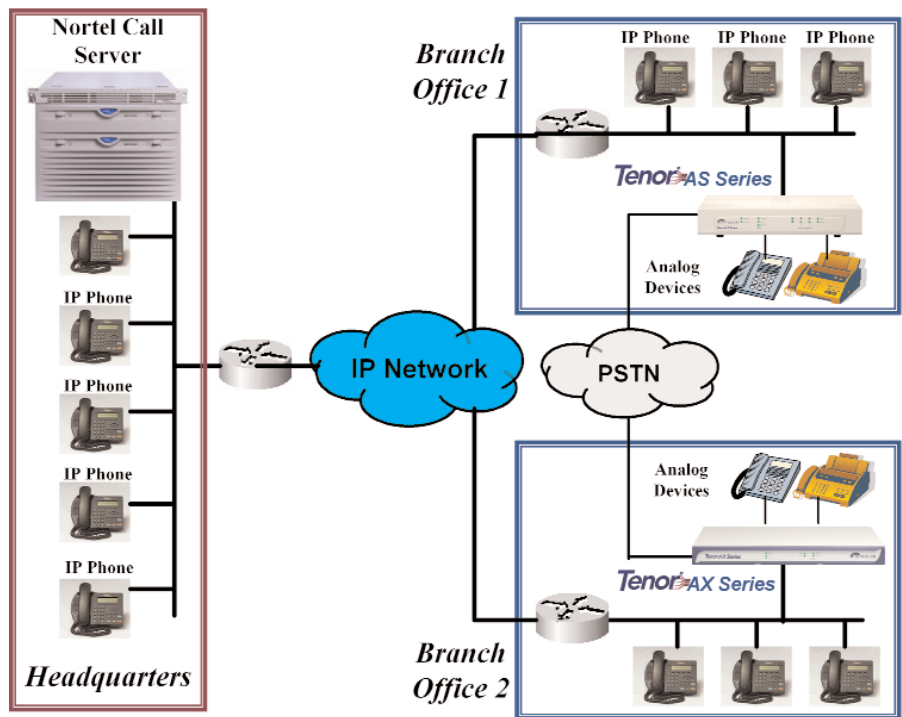
Tenor's completeness, ease of ownership and reliability make it the ideal solution for the remote office. There's no better way for Communication Server 1000 to build a reliable, high-performance VoIP network - whether you're connecting a few buildings on a campus or dozens of locations around the world.

The Quintum Tenor AS Series provides Multipath and Gateway options that support 2 or 4 simultaneous VoIP calls. Quintum Tenor AX Series with similar options support 8, 16, and 24 simultaneous VoIP calls.

Company Information

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For all inquiries on this product, please provide the following reference code: **NPBTENOR**



Compatibility Information:

Quintum Tenor ASM200/ASM400 v.P100.19 and Tenor AX - 8-24 Ports v.P100.19 were verified as compatible in a controlled laboratory environment. For complete compatibility details, including specific Nortel platforms and releases, please refer to the Certificates of Compatibility at:
www.nortel.com/prd/dpp/product/prodpages/z5894.html
www.nortel.com/prd/dpp/product/prodpages/z5895.html



www.nortel.com/compatible

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