product information

Ascend

NavisXtend CNM Server

The NavisXtend™ Customer Network Management (CNM) Server software application enables service providers to offer partitioned real-time views of Ascend Frame Relay networks to their customers on a per-port or per-Permanent Virtual Circuit (PVC) basis.

With CNM Server, service providers can offer their customers tangible proof of network performance to support Quality of Service (QoS) agreements and Service Level Agreement (SLA) commitments. CNM Server also makes new services possible, such as real-time status viewing, configuration checking and fault forwarding. By providing customers with a wider range of services as well as access to real-time and archived network information, CNM Server increases customer satisfaction and loyalty and generates new revenue for service providers.

Works with the existing gateway to provide accurate network information

CNM Server uses the service provider's existing CNM gateway to give customers read-only access to their portion of the Frame Relay network. Customers can freely obtain status and performance metrics such as:

- Network utilization
- Traffic statistics
- QoS parameters

Independent database enhances response times

The CNM Server provides an independent Sybase database to cache a local copy of network information. This greatly enhances response times for customer requests, while also securing the operational database by isolating it from customer queries.

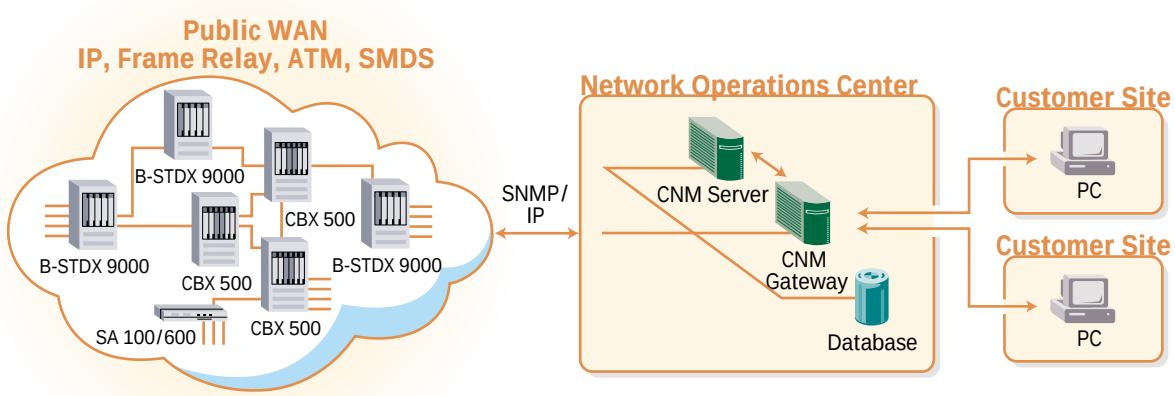
Standards-based architecture ensures interoperability

The CNM Server is standards-based, ensuring a seamless interface to a multi-vendor CNM gateway. The CNM Server supports FRF.6 CNM recommendations and has an SMNP interface that adheres to the RFC 1604 standard. It receives incoming SNMP requests from the gateway and responds with the appropriate data either by querying the database or Ascend's switches.

Intelligent decision-making capability improves response times

When CNM Server receives an incoming SNMP request from the gateway, it makes an intelligent fulfillment decision. If the request is for static data, CNM Server retrieves it from the local database cache. If the request is for real-time information, CNM Server gathers it directly from the network switches. Response time is improved with local archives and network performance hits are minimized.

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High-performance multithreaded architecture supports hundreds of customer requests per second

The CNM Server's high performance architecture supports incoming requests from multiple CNM gateways by taking full advantage of multi-CPU network management hosts. The architecture also minimizes the traffic impact of customer access and keeps customer inquiries isolated from day-to-day network management operations.

CNM Server Technical Specifications

Hardware Requirements	Sun SPARCstation20 or UltraSPARC 128 MB RAM 2 GB hard disk space 1/4 tape drive
Software Requirements	Solaris 2.4 or higher NavisCore/UX 2.0 or higher Sybase version 4.9.2, 11 or higher
Switch Software Requirements	B-STDX 8000/9000: 4.1 or higher STDX 6000: 2.3 or higher
Objects That Can Be Monitored	Complies with Frame Relay RFC 1604: PVC and port parameters and statistics, including Bc, Be, CIR, DE and frames transmitted/received on ingress and egress. Point-to-point and point-to-multipoint PVCs are supported, as are PVC state and trap information.

NavisXtend Servers

The NavisXtend family includes the following servers:

Accounting Server	Collects Switched Virtual Circuit (SVC) and Permanent Virtual Circuit (PVC) call detail that can be used to generate customer invoices
Customer Network Management Server	Allows service providers to offer managed data services with customer viewing
Fault Server	Intelligently correlates and consolidates network event and alarm information to quickly identify network problems
Provisioning Server	Reduces configuration steps by automating the provisioning of cards, ports and circuits
Standby Server	Allows warm standby of primary network management database to increase the level of data availability in the event of an outage to the primary site
Statistics Server and Report Generator	Collects network statistics and generates graphical reports that are easily understood by end users

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Ascend Communications, Inc. develops, manufactures and sells wide area networking solutions for telecommunications carriers, Internet service providers, and corporate customers worldwide. For more information about Ascend and its products, please visit the Ascend web site at http://www.ascend.com, or e-mail info@ascend.com.

Ascend markets the B-STDX, CBX, GRF, IP, MAX, Multiband, MultiDSL, Navis, Pipeline, SA, SecureConnect and STDX families of products. Ascend products are available in more than 30 countries worldwide.

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