



## VXgate: VX Series Billing Integration System

- VXgate™ data collection capability can help manage networks for growth, capacity planning, and requirements forecasting
- Complete redundancy for billing transaction processing

Secure authentication of users and the reliable collection of call detail records (CDRs) are critical to the success of any voice offering. The NET VXgate application, an integral part of the VX Series portfolio, gives voice over IP (VoIP) providers the peace-of-mind they demand when deploying calling card and other voice services.

### RELIABLE TRANSACTION PROCESSING

VXgate performs real-time transaction processing between VX Series gateways and backoffice billing systems. VX Series's high availability architecture extends to the VXgate application. Operating with complete redundancy, each VXgate 'node' participates within VX Series's dynamic topological network map. NET's BEST database access protocol (BDAP) provides a bandwidth-efficient and reliable means of transporting authentication and billing data between VX Series gateways and VXgate. Utilizing BDAP, CDRs are delivered in real-time to VXgate for processing by a billing service or platform. VX Series gateways provide further protection of critical billing information by locally storing up to 100,000 call records. This guarantees that the continuity of CDRs is maintained, even in the event communication is lost with the billing system.

### INDUSTRY STANDARD INTERFACES

Remote Authentication Dial-in User Service (RADIUS), an industry standard protocol based on the client/server model, has been widely adopted by VoIP providers for user authentication, authorization, and accounting (AAA). VXgate's RADIUS client enables VX Series gateways to interoperate with any compliant billing server platform. Typically performing the role of both authentication and billing, the server leverages RADIUS messages received from VXgate to verify account status. After validating a user, the billing server notifies VXgate that call setup can continue and billing can commence. VXgate has the ability to interface with any relational database using the Open Database Connectivity (ODBC) protocol. As billing, authentication, and subscription services are often delivered using means other than RADIUS, this affords added extensibility and flexibility when deploying enhanced revenue-generating applications.

### INTUITIVE DEVELOPER KIT SERVICE CREATION

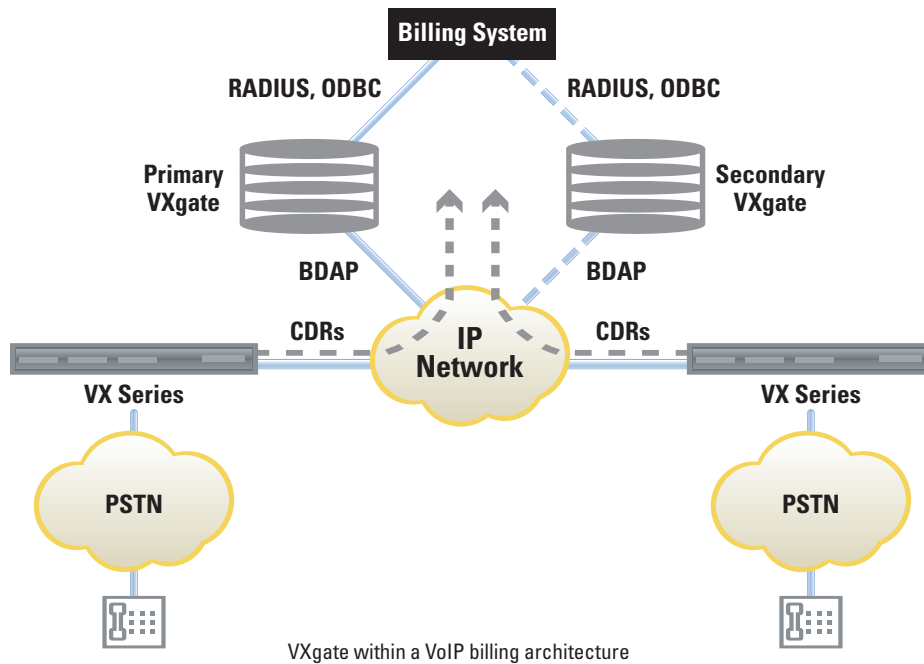
The VXscript™ programming language extends the capability of VX Series platforms to support differentiated voice services. Voice mail and call center applications or services that incorporate interactive voice response (IVR) can be readily developed on VX Series using VXscript. With this open programming language and a network of billing platform partners, NET enables service providers to deliver a wide range of unique voice applications with flexible billing options. VXgate facilitates a wide range of services features, including:

Together with VX Series, VXgate provides the flexible and resilient framework that is essential when delivering carrier-class voice services within a dynamic and competitive marketplace.

## VXGATE SPECIFICATIONS

### VXgate minimum recommended platform requirements

- Windows 2000 Server
- IBM compatible PC platform
- Pentium 4 2.4Ghz
  - 1 Gbyte RAM
  - 200 Gbyte Hard disk drive
  - CD-ROM drive
  - USB Port



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