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Kagoor® VoIP Border Control Solutions

For Carriers, Service Providers and Enterprises



VoIP Borders—the Last Frontier

Borders exist everywhere in the world. VoIP borders are the last critical area to be addressed in providing seamless, end-to-end VoIP. Islands of VoIP, surrounded by the PSTN, are preventing enterprises and carriers from taking advantage of the inherent cost-effectiveness, operational efficiency and new service enablement made possible by IP to IP communications.

In order to connect enterprise to enterprise, enterprise to carrier, or carrier to carrier, IP borders must be bridged in a secure, reliable, seamless and efficient manner. Kagoor Networks® is enabling seamless, secure VoIP networking with its *VoiceFlow*® Border Control products. Kagoor is an innovative company that has focused exclusively on providing next generation VoIP networking solutions which address security, NAT service assurance, QoS and SLA assurance, control and management of VoIP border issues.

VoIP is evolving quickly. As a result, companies with the highest level of technical capabilities, leading technology and an ability to partner will achieve success. Most of the VoIP building blocks that are fundamental and necessary to building next generation integrated networks are in place. Kagoor is providing one of the last critical building blocks. These products are called VoIP Border Controllers.

Featuring

- *Security, firewall , NAT, bandwidth management, QoS & SLA assurance*
- *Award winning product line (VoiceFlow 3000, 1000, 200)*
- *Carrier grade to CPE (high availability, fault tolerant options)*
- *Support for all VoIP protocols (SIP, H.323, MGCP and extensions)*
- *Multiple VoIP Topologies addressed*
  - *Network NAT Traversal*
  - *Network Aggregation*
  - *Network Protection*
  - *Carrier Peering*
  - *CPE Border Control*

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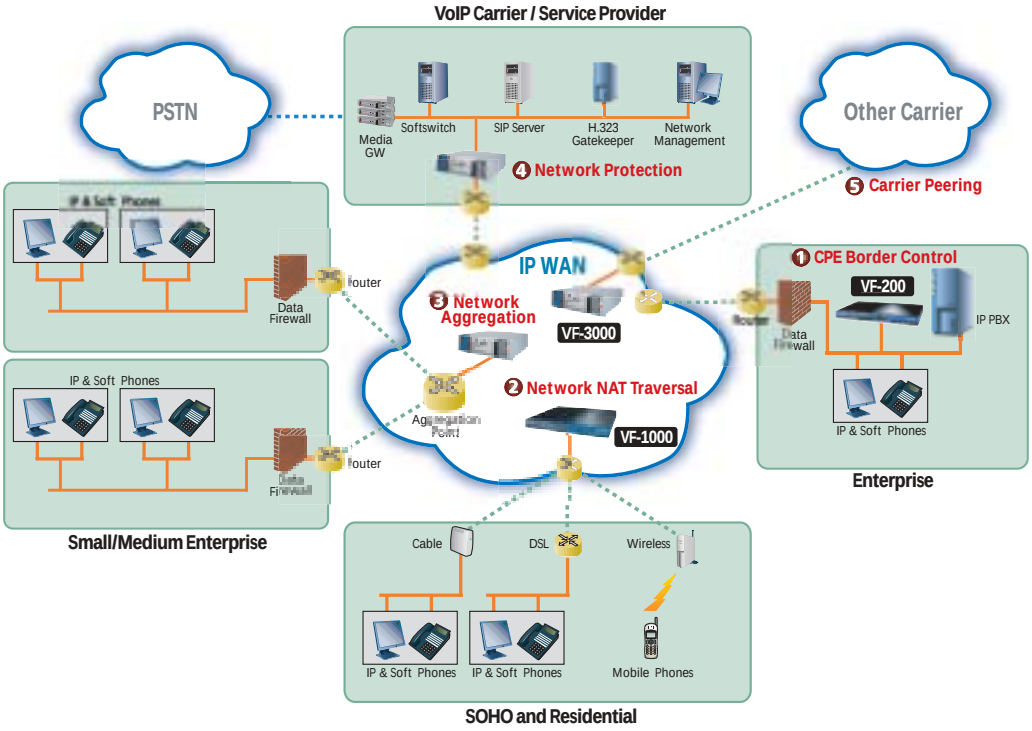
Kagoor's *VoiceFlow*® series Border Control Solutions

The *VoiceFlow* series products from Kagoor Networks address the VoIP Border Control requirements faced by service providers and enterprises. They provide a highly scalable solution ranging from high capacity carrier grade to low-end CPE to VoIP networking equipment and support all popular VoIP protocols (SIP, H.323, MGCP). *VoiceFlow* addresses the range of critical VoIP Border Control functions that include:

Security—VoIP Firewall, Network Address Translation (NAT), Topology hiding, Call Admission Control, Network Asset Protection, Lawful Interception (CALEA), Denial of Service Protection, Intrusion Prevention and media & protocol validation

Service Assurance—QoS Monitoring, SLA Monitoring, Packet Marking, E-911 Support, Bandwidth Management, Protocol Translation

Management—Remote Monitoring, VoIP Endpoint Configuration & Management and Remote Software Upgrades



VoIP Deployment Topologies (see diagram above)

1. **CPE Border Control**—Addresses VoIP enterprise locations or IP Centrex environments that require equipment on customer premises—*VoiceFlow* 200 and 1000 series.
2. **Network NAT Traversal**—For SOHO/residential VoIP deployments requiring a NAT/Border Control solution but where adding CPE is prohibitive—*VoiceFlow* 1000 and 3000 series.
3. **Network Aggregation**—A network-based service for carrier, large scale IP Centrex/managed IP PBX deployments typically requiring NAT and Security features in a VPN environment—*VoiceFlow* 1000 and 3000 series.
4. **Network Protection**—Provides protection of carrier and/or service provider VoIP network elements (softswitches, media gateways, signaling servers, etc.)—*VoiceFlow* 1000 and 3000 series.
5. **Carrier Peering**—Delivers both firewall protection and NAT peering features for carrier to carrier applications—*VoiceFlow* 3000 series.

A Full Line of VoIP Border Controllers to Fit Your Network

The *VoiceFlow* series consists of the *VoiceFlow* 200, the *VoiceFlow* 1000, and the *VoiceFlow* 3000. This range of products allows Kagoor to address all VoIP Border Control environments regardless of the size or the location in the network. All *VoiceFlow* systems support all of the popular VoIP protocols and are compatible with standard and popular VoIP endpoint and network equipment. The *VoiceFlow* series of products are derived from a common technology platform and thus, all support the following functionality:

Protocol Support: RTP/RTCP, SIP, SDP, H.323, H.225, H.245, Q.931, fast connect, MGCP
Management: CLI, SNMP, FTP, Logs, Statistics, CDR and QoS reporting
General: Wire speed packet processing, scalable platform and common OS, network transparency, security features



VoiceFlow 3000 Series

The *VoiceFlow* 3000 series product is a carrier class, high capacity, high availability VoIP Border Controller that provides VoIP service providers and carriers with a high performance, integrated packet processing platform to address a wide range of VoIP border control applications. With its compact, yet powerful 3u, 5-slot design, it is intended for network provider locations ranging from edge locations to core. It supports up to 20,000 concurrent calls and handles the full range of commercial IP telephony protocols and services. It provides a number of redundancy and high availability features including power supplies, blades and redundant systems as well as complete fault tolerant configurations.

Dimensions: 3u, (17.7”x17.5”x5.2”), 5 cPCI slots
Network Interface: 10/100/1000Base-T Ethernet ports (4 Gigabit Ethernet ports)
Capacity: Up to 20,000 concurrent calls
Compliancy: NEBS Level 3 compliant
Applications: NAT Traversal, Network Aggregation, Network Protection, Carrier Peering



VoiceFlow 1000 Series

The *VoiceFlow* 1000 series is an ideal product for small VoIP service provider edge deployments or large enterprise and/or hosted VoIP configurations. It delivers up to 2,000 concurrent calls with a compact 1u design. It can be configured for high availability with redundant systems where required.

Dimensions: 1u, (17”x17”x1.7”)
Network Interface: Two 10/100Base-T Ethernet Ports
Capacity: Up to 2,000 concurrent calls
Applications: NAT Traversal, Network Aggregation



VoiceFlow 200 Series

The *VoiceFlow* 200 series is a customer premises equipment (CPE) VoIP Border Controller which is ideal for small and medium enterprise locations. It is usually located in the enterprise branch between the LAN VoIP endpoints and the access router to the WAN or as a multi-tenant unit (MTU) device in IP Centrex environments. With the ability to scale up to 200 concurrent calls, the *VoiceFlow* 200 can help service providers and enterprises to provide secure, seamless enterprise to carrier VoIP networking for environments such as managed IP PBX or IP Centrex.

Dimensions: 1u, half depth (17”x10.5”x1.7”)
Network Interface: Two 10/100Base-T Ethernet ports
Capacity: Up to 200 concurrent calls
Applications: CPE Border Controller

About Kagoor

Kagoor Networks® is a leading provider of VoIP Border Control solutions, which address the service provider and enterprise technical roadblocks that have inhibited the commercial deployment of VoIP services. Kagoor's award winning *VoiceFlow*® series products are focused on the issues of security (DoS protection, admission control, more) Network Address Translation (NAT), service assurance, SLA and QoS assurance, bandwidth management, and monitoring and remote management with regard to VoIP networking. The *VoiceFlow* series is a scalable solution ranging from high capacity, service provider equipment to economical, enterprise CPE. Kagoor is headquartered in San Mateo, CA with R&D facilities in Herzelia, Israel. More information is available at www.kagoor.com.



www.kagoor.com

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