



AETHRA GATEKEEPER

AETHRA DIRECTOR SUITE



User configurable dial plan, including URL addressing with complete bandwidth control and traffic optimization

Call completion guarantees over IP and ISDN networks and firewall proxy solutions

Authentication and directory service support with the H.350 standard

OVERVIEW

Comprehensive, intelligent management of IP telephony and multimedia communication networks for enterprise and service provider networks. The world of IP conferencing has matured, and is advancing at a rapid pace.

Network managers need reliable, market proven and stable solutions to make advanced configurations and monitor and manage complex, distributed network activities.

AETHRA's easy-to-use, high-performance, standards-compliant H.323 (v. 4.0) AETHRA GATEKEEPER products are the most intelligent, advanced backbone management systems for IP telephony and multimedia communication networks.

The AETHRA GATEKEEPER products provide full gatekeeper functionality, and everything you need to define, control and manage voice and video traffic over IP networks - no matter how large or complex.

With AETHRA GATEKEEPER, network managers set policies, control network resources, implement authorization and authentication, deploy easy dial plans and bill CDRs.

This ensures optimal bandwidth utilization to deliver carrier-grade, best-quality call completion and video collaborative communications over any network, any protocol and any device. Designed for today - and tomorrow - AETHRA's GATEKEEPER embraces the future of collaborative communications.

Smart management of rich media communications

From multi-zone bandwidth management to intelligent fallback handling, AETHRA GATEKEEPER products ensure the QoS and call completion rates that your network demands. LDAP directory

services greatly simplify the process of manoeuvring vast networks, by providing a single point of reference for pre-defined endpoint authentication and authorization. And the Remote Access SDK enables advanced authorization modes, remote management, and call control capabilities, using both SNMP and XML-based APIs for development of vertical market applications.

Dialling made easy

With advanced dial plans, intuitive operation is a breeze in any environment. AETHRA GATEKEEPER handles aliases so you don't have to deal with complex IP dialling addresses.

These can be in the form of names, numbers, URLs or even e-mail addresses. Wild Card Digit Manipulation allows for truly simplified quick dialling.

Complete interoperability and scalability

AETHRA GATEKEEPER offers the most flexible and scalable management application that can accommodate the growing needs of continuously changing and expanding networks.

Built on the strong foundation of the market-leading H.323 protocol toolkit, AETHRA GATEKEEPER products ensure full ITU-T and H.323 compliance and unmatched interoperability with virtually all available codecs. With an add-on firewall traversal/proxy solution, AETHRA GATEKEEPER-powered rich media networks deliver full functionality, and consistent and reliable performance according to any requirement.

Robust, market-proven performance

AETHRA GATEKEEPER products are based on years of market-proven experience, ensuring easy and affordable connection with next generation distributed networks.



TECHNICAL SPECIFICATIONS

Full Web-Based Management

Administration and Configuration

- Administrative access from any web browser.

Simplified Dialing

- Handles unresolved aliases so you don't have to deal with complex IP dialling addresses
- Support of alias names, numbers, URLs or e-mail addresses
- Wild-Card Digit Manipulation allows for simplified DID (Direct Inward Dialling) and quick local dialling shortcuts
- Address resolution of e-mails and URL aliases by accessing a DNS server
- Multiple level hierarchy dialling for easy PSTN like dialling and unlimited scalability.

Bandwidth Management

- Advanced bandwidth management for calls between GK sub-zones and remote zones to ensure QoS
- Maximum bandwidth control per endpoint.

Call Fallback

- Fallback policies per dialled number and according to call rejection reason, allowing complete control according to the dial plan.
- Simplified re-routing to ISDN, to a remote zone via ISDN, or to another endpoint.

Least Cost Routing via Multiple Zone Support

- Optimization of inter-zone communication with neighbour gatekeeper configuration
- Dial plans configuration according to zone prefixes, for efficient call routing to other zones

Line, Group and Conferencing Hunting for Call Routing Services

- Automatic search for available resources to ensure user requested services are routed to available network resources.

H.450 Call Forward and Transfer Supplementary Services Support

- Supports critical H.450 supplementary services such as "FORWARD" and "TRANSFER" of calls
- Call forwarding options include: unconditional forwarding, forward - busy and forward - no answer, and forward when not registered.

Hot Standby Functionality

Alternate (Redundant) Gatekeeper for hot standby functionality assuring round-the-clock services.

Endpoint Management

- Pre-define endpoints to support various authentication rules and authorization policies
- Endpoint grouping for easy bandwidth management and service control for large deployments.

Billing and Call Activity Tracking Using Call Detail Record (CDR)

- Comprehensive information including call duration, bandwidth, alias information, type of call, and port information, are saved as text files or sent directly to a standard IP billing server in the form of a CDR
- H. 350 Support (LDAP Directory and H. 235 security)
- User authentication via user name and password
- Control of aliases utilized by the endpoints for security and billing
- Service group support for authorization
- Greatly simplifies vast network topologies by providing a single point of reference and pre-defined endpoint authentication
- Remote access API, H.341 MIB and SNMP Support
- Open XML interface for advanced authorization and call control capabilities
- H.341 support (the ITU standard recommendation for MIB) for third-party customization.

H.245 Routing

- Control and monitor basic H.245 procedures and logical channel setup
- Ensures better connectivity, limits traffic and retrieves detailed call information for CDR billing.

On-line logs

- Real time monitoring of GK logs.

SNMP Traps

- SNMP notifications containing GK operational status information
- Caters to NMS needs, alerts and alarms and interfacing with other servers
- TRAP severity is customizable to fit any type of deployment.

Network Load Balancing

- RAI/RAC message support
- Advanced call fallback to ensure call completion.

Security

- Cisco Proxy support for firewall/NAT solutions
- Ability to disallow IP address dialling to prevent illegal network usage.

GK Standalone Software Requirements

- Windows NT 4 Server (with Service Pack 6a)
- Windows 2000 Advanced Server / Server (with Service Pack 3 or 4)
- SNMP service - separate installation
- Minimum memory and speed: Pentium 2, 400 MHz, 128 MB (512 MB required for GK 500/3000)
- Minimum disk space: 100MB + 2GB for log and CDR files.

Warranty

- One year return-to-factory.
- Extended warranties and support services available.
- For cabling information and other details, contact your local distributor.

Add-on-Modules

Firewall Proxy Solution

- Enables successful videoconferencing via your enterprise firewall
- NAT and Proxy support
- Third Party Call Control and Authorization XML API's (Included with the GK Pro Master)
- Connect and disconnect calls between two endpoints via the Administrator interface.
- Authorize calls according to parameters such as the originating alias called number, bandwidth requested etc.
- Can be utilized for pre-paid scenarios.

RADIUS Support

- AAA support via the RADIUS server interface

Additional Products

Alternate (Redundant) Gatekeeper

Hot standby solution assuring round-the-clock services. The alternate (standby) is a transparent alternative for endpoints to use when the original (Active) GK goes offline.

It is automatically defined which Gatekeeper will assume hot or standby positions, no configuration is required.

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