

ECS - Enhanced Communication Servers

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.

RADVISION's easy-to-use, high-performance, standard-compliant H.323 (v. 4.0) ECS products are the most intelligent, advanced backbone management systems for IP telephony and multimedia communication networks. The ECS 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 ECS, 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—RADVISION's ECS embraces the future of collaborative communications.

RADVISION ECS products are part of the full line of RADVISION multipoint conferencing units, data collaboration, gateways, utilities and applications for rich media collaborative communications in large-scale enterprise, carrier and distributed network deployments.

Smart management of rich media communications

From multi-zone bandwidth management to intelligent fallback handling, ECS products ensure the QoS and call completion rates that your network demands. LDAP directory services greatly simplify the process of maneuvering 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.

Dialing made easy

With advanced dial plans, intuitive operation is a breeze in any environment. RADVISION ECS handles aliases so you don't have to deal with complex IP dialing 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 dialing.

Complete interoperability and scalability

RADVISION ECS 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 RADVISION's market-leading H.323 protocol toolkit, ECS 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, RADVISION ECS-powered rich media networks deliver full functionality, and consistent and reliable performance according to any requirement.

Robust, market-proven performance

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

RADVISION ECS Highlights

- Intuitive Web access
- User configurable dial plan, including URL addressing
- Complete bandwidth control and traffic optimization
- Call completion guarantees over IP and ISDN networks
- Authentication and directory service support with the H.350 standard
- Multi-tiered hierarchical support and zone management
- Firewall proxy solutions
- Hot standby functionality for 24 by 7 service

RADVISION ECS 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 dialing addresses
- Support of alias names, numbers, URLs or e-mail addresses
- Wild-Card Digit Manipulation allows for simplified DID (Direct Inward Dialing) and quick local dialing shortcuts
- Address resolution of e-mails and URL aliases by accessing a DNS server
- Multiple level hierarchy dialing for easy PSTN like dialing and unlimited scalability

Bandwidth Management

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

Call Fallback

- Fallback policies per dialed 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 neighbor 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 ECS logs

SNMP Traps

- SNMP notifications containing ECS 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 dialing to prevent illegal network usage

ECS 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 MGH, 128 MB (512 MB required for ECS 500/3000)
- Minimum disk space: 100MB + 2GB for log and CDR files

ECS Embedded Requirements

- The embedded ECS is Implemented in the vialP400 chassis and requires a RADVISION as-10 Board

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 ECS Pro Master)

- Connect and disconnect calls between two endpoints via the ECS vialP 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) ECS goes offline. It is automatically defined which Gatekeeper will assume hot or standby positions, no configuration is required.

More detailed information on RADVISION ECS products are available from RADVISION sales agents or VARs, or visit our Website at www.radvision.com.

About RADVISION

RADVISION (Nasdaq: RVSN) is the industry's leading provider of products and technologies for videoconferencing, video telephony, voice over IP, and collaborative communications solutions. RADVISION offers the broadest and most complete set of videoconferencing networking systems and next generation protocol toolkits and platforms on the market today, enabling enterprises, equipment vendors, and service providers to develop and deploy new converged networks, services and technologies. Today, hundreds of thousands of end-users around the world communicate over a wide variety of networks using products and solutions built around RADVISION's rich media communications platforms and/or software development solutions. These include RADVISION's award-winning videoconferencing infrastructure solutions such as its highly scalable IP/ISDN interworked gateways, feature-rich conferencing bridges, and advanced gatekeeper applications. RADVISION's enabling technologies for OEM systems include developer toolkits for SIP, MEGACO/H.248, MGCP, and H.323, 3G-324M wireless multimedia delivery, and the ProLab™ Test Management Suite. For more information please visit our website at www.radvision.com.

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