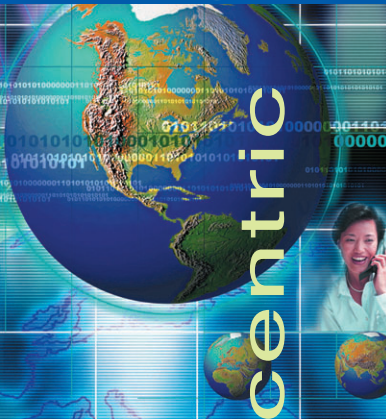


# V<sup>2</sup>oIP

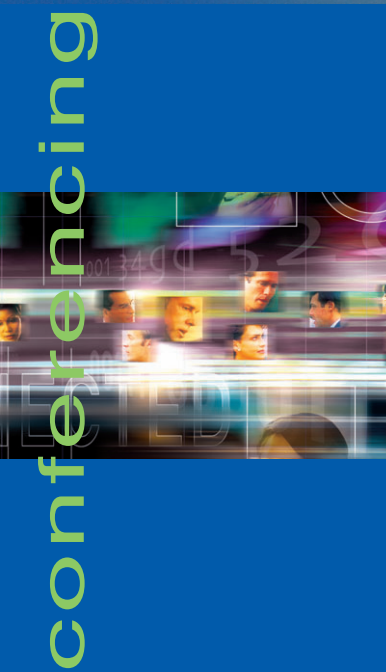


IP-centric

gatekeepers



conferencing



V<sup>2</sup>oIP™  Voice & Video  
IP

 **RADVISION**  
the V<sup>2</sup>oIP™ experts

## viaIP<sup>SM</sup> MULTI-SERVICE PLATFORM

### V<sup>2</sup>oIP™ NETWORKING PRODUCTS FOR SERVICE PROVIDERS AND LARGE ENTERPRISES

Designed for next generation communications networks by the V<sup>2</sup>oIP experts, RADVISION's new *viaIP* multi-function platform is a cost effective solution for deploying IP-centric voice, video and data conferencing services. The *viaIP* product family addresses the IP communication requirements of service providers and large enterprises and government agencies.

This all-in-one solution integrates

multimedia gateway, multipoint conferencing, data collaboration, and gatekeeper intelligence into a single platform. *viaIP* is built around RADVISION's award winning, industry standard H.323 technology.

It provides the scalability and proven interoperability needed for delivering enhanced V<sup>2</sup>oIP services for converged voice, video and data networks.

Deploying enhanced IP communication services for real time voice, video and data conferencing has never been easier.



The highly scalable **viaIP** platform offers low cost per port and provides maximum configuration functionality for highly customized solutions for next generation communication networks. It is another best-of-class product offering from RADVISION, the leading provider of V<sup>2</sup>oIP technology and networking products for real time IP communications.

## BENEFITS OF CONVERGED VOICE/VIDEO/DATA IP COMMUNICATIONS

### Enterprise benefits:

- Enhanced productivity
- Increased revenue
- Cost savings

### Benefits for service providers:

- Offer innovative V<sup>2</sup>oIP services
- Faster time-to-market
- Maintain value-added differentiation

For 21st century enterprises, the widespread adoption of industry standard solutions for real time voice, video and data communication over IP networks is fueling the demand for more effective global communications. Upgrading corporate communications networks with RADVISION's **viaIP** multi-service platform to support real time IP communications enables enterprises to reap the benefits of more efficient and effective collaboration between workers, with customers, and with supply chain vendors. Additional benefits of a converged voice/video/data network include cost savings for IP telephony toll-bypass applications and simplified network management. These benefits are also key for large scale government networks.

For service providers and next generation carriers, the IP communications revolution is creating a new competitive landscape and placing a premium on innovation and value-added service offerings. RADVISION's **viaIP** platform enables xSPs and next generation network carriers to get to market quickly with new IP-centric enhanced services. **viaIP** significantly reduces time to deploy converged voice, video and data conferencing services that leverage new broadband capabilities. Designed to address the needs of the rapidly evolving and highly competitive IP communications market space, **viaIP** enables providers of IP-centric solutions to expand their portfolio with unique value-added V<sup>2</sup>oIP services.

THE  
**viaIP**<sup>SM</sup> HIGHLY RELIABLE AND SCALABLE,  
ALL-IN-ONE SOLUTION  
... FOR REAL TIME IP COMMUNICATIONS

- Modular CompactPCI architecture
- H.323-compliant
- High performance
- Hot swappable
- Mix and match functionality
- High availability
- Scalable and cascable solution

The **viaIP** 400 is a high performance, multi-functional H.323-compliant system. It uses a 4-slot CompactPCI® (cPCI) architecture that supports hot swappable, mix-and-match functionality. This highly configurable and scaleable design provides maximum flexibility for configuring systems to meet a wide variety of functional and performance application requirements. The **viaIP** 400 is extremely easy to configure, install and maintain. Mix-and-match configuration options include:

- **MCU cards** for multipoint V<sup>2</sup>oIP conferencing functionality with support for up to 100 conferencing ports per card.
- **Multimedia Gateway cards** with two PRI interfaces per card for translation between H.320 and H.323; provides seamless communication between IP and ISDN/PSTN networks.

The **viaIP** platform integrates IP-centric conferencing, multimedia gateway, data collaboration and gatekeeper intelligence into a complete, standards-based V<sup>2</sup>oIP Solution.

The **viaIP** ECS service application allows network managers to configure, monitor and manage the activities of registered network users. Additionally, managers may set policies and control network resources such as bandwidth usage to ensure optimal implementation.

The ECS – 500/3000 provides comprehensive H.323 gatekeeper functionality including these value-added features:

- Lightweight Directory Access Protocol (LDAP) support to retrieve and manage directory information
- Call Detail Record (CDR) to provide valuable information to be used as input for critical accounting and billing applications
- Calls and registrations limitation controlled by the provided license
- Cisco Proxy support
- H.245 Proxy support
- H.450 Supplementary Services support
- Network activity logs for optimizing network operations

### **viaIP DATA COLLABORATION SERVER (DCS) NT APPLICATION**

The RADVISION **viaIP** DCS is a state-of-the-art solution for data collaboration, enhancing conferences by enabling application sharing. It allows conferencing participants to view diagrams, graphic presentations and slide lectures as well as carry-out text chats, whiteboard exchanges or rapid file transfers during a multipoint

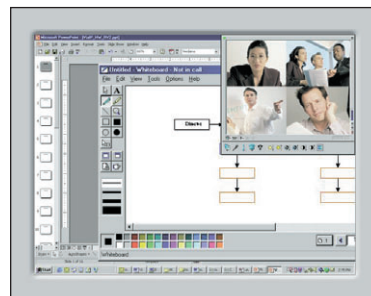
conference between three or more participants. The DCS NT service application is based on the T.120 data collaboration standard and particular emphasis has been placed on scalability, reliability and performance.

A powerful communication tool that provides dynamic application sharing to further enhance real time V<sup>2</sup>oIP conferencing.

The DCS application works in conjunction with the **viaIP** mcu-xx Multipoint Conferencing Unit card. Like RADVISION's **viaIP** ECS NT software, the **viaIP** DCS software runs on the asNT-10 board — a single-slot cPCI Windows NT application server card. RADVISION offers different versions of the DCS software that support different numbers of users, depending on the capacity of the mcu-xx.

#### **DCS key features:**

- Operates together with the **viaIP** mcu-xx and T.120 capable endpoint terminals
- Provides additional processing resources for data sharing while remaining transparent to the conference participants
- Dynamic GUI “live” log:
  - Displayed in a generic window
  - Reports every time a T.120 connection is requested
  - Reports when a port is opened or closed
  - Provides an alert function in the event of errors
  - Allows the user to monitor the application



*\*asNT-10 boards are only available as non-system viaIP modules.*

## **viaIP gw-P20 INTERNETWORKING MULTIMEDIA GATEWAY CARD**

Designed to support high call volumes over a high-speed network interface, the **viaIP** gwP-20 V<sup>o</sup>IP gateway card is based on RADVISION's award-winning standalone multimedia gateways for real time voice and video over IP. The gwP-20 module translates between H.323 and H.320 protocols and converts audio, video and data from circuit-switched to IP packets. It was designed as a high performance, highly scalable, cost effective solution for next generation converged networks. It can reduce communication costs, simplify network access control and administration, and utilize network resources more effectively.

The gwP-20 supports all major central office switch and PBX protocols, interconnecting H.323 endpoints to POTS/ISDN telephones, PBXs as well as to H.320 videoconferencing clients. Like the **viaIP** mcu-xx module, the

**RADVISION's V<sup>o</sup>IP gateways are an essential network component for delivering IP-centric services with seamless connectivity between IP and PSTN networks.**

gwP-20 was designed as a hot-swappable cPCI board and is available as a system-board and non-system board. Each gwP-20 module has two PRI T1/E1 interfaces for connecting to the PSTN, and a 10/100 BT Ethernet interface for connecting to the IP network. Multiple IP-based H.323 endpoints can share a single PRI T1/E1 facility when communicating with ISDN-based endpoints. A single gwP-20 board can support up to 60 concurrent calls.

Depending on the network provisioning on the PSTN wide area side, audio, video and data can be exchanged in real-time at 64kbps, 2B calls or 384 Kbps bonded calls. IP telephony features include an Interactive Voice Response (IVR) auto-attendant, echo cancellation, DTMF recognition and generation, silence suppression for efficient bandwidth management, high quality 768Kbps using V.35 module calls, parallel dialing for bonded calls and optional audio transcoding (G.711–G.728, G723.1–G.728 and G711–G.723.1).

## **viaIP ENHANCED COMMUNICATIONS SERVER (ECS) NT APPLICATION**

The RADVISION **viaIP** Enhanced Communication Server (ECS) is a high-performance H.323 gatekeeper application designed to run on the **viaIP** asNT-10 board – a single-slot cPCI Windows NT™ application server card\*. This powerful application provides network managers with complete functionality for defining and controlling how real-time voice and video traffic is managed over IP networks.

Designed with the network manager in mind, ECS uses an intuitive Web interface for managing an H.323 "zone." An H.323 zone is a collection of H.323 terminals, MCUs and gateways registered with a single H.323 gatekeeper. Within each zone, the ECS 500/3000 supports 500 concurrent calls and 3000 registered users.

**The viaIP Enhanced Communications Server is the "central intelligence agent" for converged networks.**

\*asNT-10 boards are only available as non-system viaIP modules.

- High performance Windows NT™ **Application Server cards** for running **viaIP** service applications:
  - **Enhanced Communication Server (ECS)**  
ECS provides complete gatekeeper functionality for managing H.323 network resources, implementing policies and call control for real time voice and video traffic.
  - **Data Collaboration Server (DCS)**  
DCS provides T.120 data sharing capabilities for converged voice, video and data applications.



## viaIP mcu-xx MULTIPOINT CONFERENCE UNIT CARD

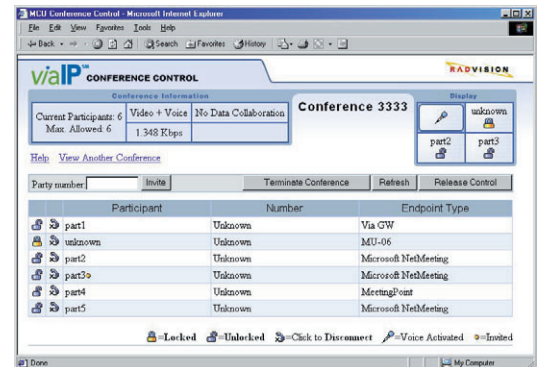
The RADVISION **viaIP** MCU module is a powerful and advanced solution for real time voice and video over IP conferencing services. Designed for the **viaIP** platform, mcu-xx cards provide cost effective, high quality, high performance MCU technology. The rich set of mcu-xx features make it a superior solution for IP-centric V<sup>o</sup>IP conferencing for xSPs, next-gen carriers and large enterprise communications networks.

The mcu-xx supports:

- High video-quality multipoint conferences
- Online conference monitoring and control
- Web interface allowing conference participants to invite others to join
- Web-based conference management for:
  - Chair Control
  - Locking the image on a speaker
  - Disconnecting participants or terminals
- Dynamic bandwidth adjustment during a conference
- 768Kbps high-quality and 2.0 Mbps super-quality video sessions
- Continuous presence
- T.120 data collaboration using RADVISION's DCS NT application

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## Web Based Conference Management



Simply the best V<sup>o</sup>IP conferencing solution

## **viaIP mcu-xx MULTIPOINT CONFERENCING UNIT CARD**

▶ continued from inside

The **viaIP** 400 supports three mcu-xx cards:

- MCU-30 supports up to 30 concurrent V<sup>2</sup>oIP calls per card
- MCU-60 supports up to 60 concurrent V<sup>2</sup>oIP calls per card
- MCU-100 supports up to 100 concurrent V<sup>2</sup>oIP calls per card

Each MCU card is available as a system-card or non-system card. An MCU system-card provides all the system control signals and functionality required for cPCI system signaling specifications. Non-system MCU cards comply with hot-swap specifications and allow for card removal or insertion during normal operation, without interruption of any of other **viaIP** modules within the same platform. An optional digital signal processing (DSP) card can be added to the mcu-xx as an audio transcoding module for voice processing purposes.

### **FOR MORE INFORMATION**

To learn more about real time voice and video communication over IP data networks, visit our website at [www.radvision.com](http://www.radvision.com)

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