

SCOPIA® 400/1000

Configurable Conferencing Platforms

Reliable and highly scalable visual communication infrastructure solutions for enterprise and service provider environments



RADVISION's SCOPIA conferencing platforms offer the industry's most technologically advanced and easy-to-use carrier-grade multipoint infrastructure for real-time conferencing over any network, protocol and device.



SCOPIA 1000 Chassis

SCOPIA 400 Chassis



The SCOPIA conferencing platform is available in two custom configurable chassis sizes. SCOPIA MCU and gateway blades are interchangeable between the chassis types.

RADVISION SCOPIA conferencing platforms are part of RADVISION's complete infrastructure offering that includes multipoint conferencing units, firewall traversal, gateways, desktop conferencing and management for voice, video and data communications. RADVISION's infrastructure platforms can be used to connect meeting rooms, desktop users and mobile users in large scale distributed network deployments.

SCOPIA Configurable Conferencing Platform Highlights

Carrier-Class Reliability

SCOPIA configurable conferencing platforms are designed with reliability in mind. The SCOPIA 400 chassis provides built-in, dual redundant power supplies with dual power feeds. The SCOPIA 1000 chassis provides a redundant, built-in Ethernet backplane and hot-swappable fans. All SCOPIA blades are hot-swappable so that blades can be replaced without turning the system off for guaranteed uptime.

Highly Scalable

SCOPIA configurable conferencing platforms scale from 4 slots on the SCOPIA 400 chassis, to 18 slots for function blades on the SCOPIA 1000 chassis. This range ensures highly scalable deployments, as well as investment protection as you grow.

Unmatched Flexibility

With the SCOPIA configurable conferencing platforms, high definition and standard definition room systems, desktops, 3G mobile video, and audio conferencing are supported on a broad range of networks. This capability provides unmatched flexibility in a single system.

Optimized Capacity

The SCOPIA configurable conferencing platforms deliver optimized capacity so that users receive maximum value for their investment. Optimized capacity provides each conferencing application - high definition room systems, standard definition room systems, desktops, and audio - the highest capacity at the most effective cost per port. Processing power is efficiently utilized based on the endpoint's specific requirements.

Advanced Video Processing

Video transcoding and rate matching allows each user to connect to the conference at the capabilities available to them. This enables users to enjoy the best audio and video quality supported by their endpoint and network - whether it is high definition, standard definition, or desktops on any network.

Ease of Use

The SCOPIA configurable conferencing platforms make video conferencing easy for administrators and users. Administrators enjoy out-of-box, plug and play functionality that minimizes initial setup time. Users easily control the conference from the endpoint's remote control.

SCOPIA Blades

Blade	Description
MCU Blade	Multipoint Control Unit (MCU) enabling 96 audio conferencing ports with full audio transcoding
MVP Blade	Media Video Processing (MVP) blade enabling up to 48 video processed conferencing ports
gw-P20 Blade	Dual PRI gateway connecting H.320 ISDN networks to H.323 IP networks. Built-in audio transcoding is included
gw-S40 Blade	Quad port serial gateway connecting H.320 serial networks to H.323 IP networks. Built-in audio transcoding is included
gw-P25/M Blade	3G video gateway connecting H.324M networks to IP networks (see SCOPIA 3G Video Gateway datasheet for more details)

SCOPIA MCU and MVP Blades

Capacity

- Optimized capacity providing each conferencing application working point (High Definition, Standard Definition, and Desktop) optimized capacity and port cost
- 96 ports of audio conferencing per MCU blade
- 16 ports of High Definition video processed conferencing per MVP blade (up to 2Mbps)
- 24 ports of Standard Definition (high rate) video processed conferencing per MVP blade (up to 2Mbps)
- 48 ports of Desktop (standard rate) video processed conferencing per MVP blade (up to 384Kbps)
- Each MCU blade can connect to up to four MVP blades resulting in 96 ports of audio and videoconferencing (no more than two MVP blades are needed when working at standard rates up to 384Kbps)

Signaling Protocols

- Signaling protocols - H.323, SIP

Audio Support

- Audio codecs - G.711, G.722, G.722.1, G.723.1, G.728, G.729AB, MPEG4 AAC-LC
- Custom participant entry/exit tones
- DTMF tone detection (in-band, H.245 tones, and RFC2833)¹

Video Support

- Video codecs - H.261, H.263, H.264
- Live video resolutions - QCIF, CIF/SIF, 4CIF, 288p, 384p, 400p, 448p, 480p, 576p, 720p
- Presentation video resolution - VGA, SVGA, XGA, 720p
- Video bandwidth - up to 2Mbps
- High Definition Continuous Presence - H.264 @ 720p up to 30fps

Data Collaboration and Presentation Sharing

- H.239 and DuoVideo for presentation sharing

Security

- H.235 AES/DES encryption for secure conferencing²
- Password protected web GUI user access with multiple levels: Administrator, Operator, and User
- PIN protected conferences
- HTTPS for secured management

Web-Based Monitoring and Control

- Simple, user-friendly web interface enabling MCU configuration and conference operation

Custom IVR Messages:

- IVR messages can be recorded to provide custom greetings and announcements

Conference Control from the Endpoint

- H.243 conference control
- DTMF based conference control

QoS

- QoS support with DiffServe, TOS, IP Precedence

Advanced Video Processing

- Consistent video quality and frame rate regardless of the number of participants connected to the meeting with High Definition
- 28 different layout options with up to 16 conference participants displayed on one screen using continuous presence.
- Text overlay (e.g. conference participant's name)
- Dynamic layout according to the number of conference participants

¹ When using in-band DTMF detection, MCU audio capacity drops to 72 ports. H.235 encryption must be off.

² When using H.235 encryption, MCU audio capacity drops to 72 ports, video capacity is unaffected for calls up to 768Kbps and drops by 50% for calls at higher rates.

³ When using encryption, gw-P20 capacity drops to half; gw-S40 capacity remains unaffected.

About RADVISION

RADVISION (NASDAQ: RVSN) is the industry's leading provider of market-proven products and technologies for unified visual communications over IP and 3G networks. With its complete set of standards-based video networking infrastructure and developer toolkits for voice, video, data and wireless communications, RADVISION is driving the unified communications evolution by combining the power of video, voice, data and wireless - for high definition video conferencing systems, innovative converged mobile services, and highly scalable video-enabled desktop platforms on IP, 3G and emerging next-generation IMS networks. For more information about RADVISION, visit www.radvision.com

USA/Americas
T +1 201 689 6300
F +1 201 689 6301
infoUSA@radvision.com

APAC
T +852 3472 4388
F +852 2801 4071
infoAPAC@radvision.com

EMEA
T +44 (0) 20 8757 8817
F +44 (0) 20 8757 8818
infoUK@radvision.com

SCOPIA Gateways (gw-P20 / gw-S40)

Capacity

	gw-P20		gw-S40
	E1 Interface	T1 Interface	
Voice calls	60	46	-
Video calls @128Kbps	30	23	4
Video calls @384Kbps	10	7	4
Video calls @768Kbps	4	3	4
Video calls @full E1/T1	2	2	4

Signaling Protocols

- Signaling protocols - H.323, H.320

Video, Audio & Data Protocols Supported

- Video - H.261, H.263, H.263+, H.263++, H.264
- Resolutions - QCIF, CIF, 4CIF, 16CIF, 448p, 480p, 576p, 720p
- Audio - G.711, G.722, G.722.1, G.723.1, G.728
- Data - T.140, T.281 (FECC), DuoVideo, H.239
- H.243 conference control

Built-in Audio Transcoding and Line Echo Cancellation

- G.728 <-> G.711
- G.711 <-> G.723.1
- Line echo cancellation on gw-P20, allowing connectivity of POTS phones

Call Routing

- Built-in interactive voice response (IVR)
- Direct Inward Dialing (DID) - IP connectivity according to the ISDN number dialed
- TCS4 - supply the IP endpoint number as part of the ISDN dial string
- Default extension - connect all calls to a specific location (e.g. MCU)

Call Bonding (gw-P20)

- ISDN call bonding for up to 2Mbps (E1) or 1.5Mbps (T1)
- Automatic downspeeding on ISDN channel failure

Security

- AES Encryption³ - H.233, H.234, H.235
- Password protected web GUI user access with multiple levels: Administrator, Operator, and User
- gw-S40 is fully compliant with government and military encryption devices such as KIV-7M, KIV-7HS, KIV-19, KG-193 and STE
- HTTPS for secured management

SCOPIA Chassis

SCOPIA 400 - 4 Slot Chassis

- Height: 2U; Width: 17.25" (438.15mm); Depth: 10" (254mm)
- Weight: 17.6 lbs / 8 kg for empty chassis (with 2 power supplies)
- 100-240VAC, 50/60Hz dual redundant power supply as standard

SCOPIA 1000 - 18 User Slot Chassis

- PICMG 2.16 - dual redundant IP backplane
- Hot - Swap dual redundant Intelligent Shelf Manager blades
- Hot - Swap dual redundant internal L2 Ethernet switches
- 48VDC, Hot-Swap redundant power supplies and cooling fan trays
- Height: 12U; Width: 17.2" (431mm); Depth: 17" (431mm)
- 19" rackmount flanges included
- Weight: Approx. 97.5 lbs. (44.2 kg)

Environmental Requirements

- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Storage temperature: -25°C to 70°C (-13°F to 158°F), ambient
- Relative humidity: 5% to 90% non-condensing