



# SCOPIA Conference Recording

## Product Description & Competition

Version: 1.0.1  
August 8, 2008

### Revision History

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Version	Issued	Author	Description of Change
1.0.1	08/07	Roger Wallman	First Edition

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## 1 Introduction

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As video continues to be more widely accessible through Unified Communications product offerings, users have increased their requirements to record, archive, and view their previous meetings. SCOPIA V5.6 introduces recording, playback, and content management to the SCOPIA conferencing portfolio allowing retrieval for viewing by people who did not participate at the meeting time or to review it later. This new capability includes recording of the audio, video and H.239 data collaboration. Recorded content can be easily organized and managed providing for simple access and retrieval including restricting access to recordings as necessary providing a secure archive.

SCOPIA's unique approach to viewing recordings is desktop oriented providing the capabilities for viewing the information directly on widely available PC's. The recorded format is also highly portable allowing it to be converted, stored and accessed via a variety of mechanisms and devices.

## 2 Recording

### 2.1 Initiation of Recording

Recording policy is determined on the SCOPIA Desktop Administration GUI as shown below:

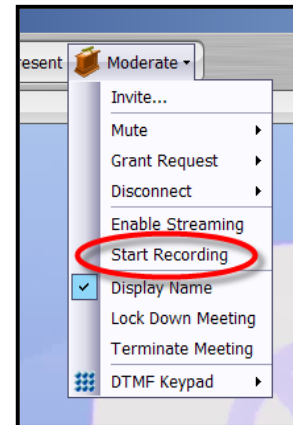
Allow meeting participants to record the following type of meetings:

- Any meeting
- Only Moderated Meetings

This translates into three alternatives:

- **Checkbox clear:** Recording is disabled and no one can initiate a recording.
- **Any Meeting:** Any user can have access to initiate a recording.
- **Only Moderated Meetings:** Only meetings protected by a moderator PIN will be recordable. In this case only the moderator is able to initiate recording. Meetings that do not have a moderator will not be recordable.

When recording control is allowed from the conference room, a new **Start Recording** entry is available under the *Moderate* menu as shown to the right:



Clicking it will pop up a dialog box to gather details of the recording:

The image shows a screenshot of the SCOPIA Desktop Administration GUI. A dialog box titled 'SCOPIA Desktop' is open, prompting the user to provide information for starting a recording. The dialog box contains the following fields and options:

- Name:** Sales Training - March 7th 2008
- Description:** Sales Training on the new version of the product for the APAC sales team
- Categories:** Unassigned (Management Meetings, CEO Briefings, Technical Trainings) and Assigned (Sales Trainings)
- Owner PIN:** Use the Moderator PIN as the Owner PIN (selected) or Specify an Owner PIN (with Confirm field)
- Access PIN:** Use the Meeting PIN as the Access PIN (selected) or Specify an Access PIN (with Confirm field)
- Buttons:** Start Recording and Cancel

The recording initiator can then provide the following information:

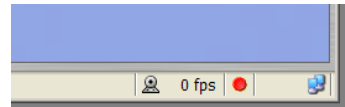
- **Meeting Name:** Uniquely identifies the meeting for later retrieval.
- **Meeting Description:** Additional space to provide a longer explanation.
- **Categories:** The recording initiator can assign this meeting to one or more pre-defined categories. Categories are defined by the administrator.
- **Owner PIN:** This PIN is required to manage the recording when it is archived.
- **Access PIN:** This PIN is required by anyone who wants to watch the recording.

Clicking the 'Start Recording' button initiates the recording.

## 2.2 During Recording

Once the meeting is being recorded, indications are provided to all meeting participants:

- **Status bar indication with a small blinking REC indicator:**

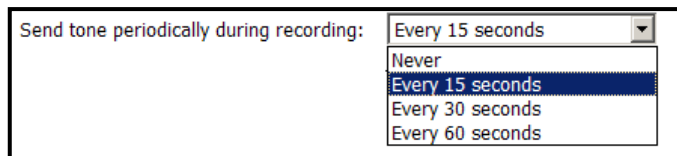


- **Audio prompt:** "Please note, the meeting is being recorded."

- **Toast message:**



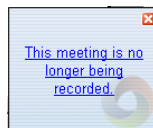
Some country regulations require a beep to sound at predefined intervals during the recording. This can be set up globally by the administrator:



Once the meeting recording is stopped, an indication is given to the meeting participants:

- **Status bar indication:** small blinking REC indicator goes away.
- **SCOPIA audio prompt:** "Please note, the meeting is no longer being recorded."

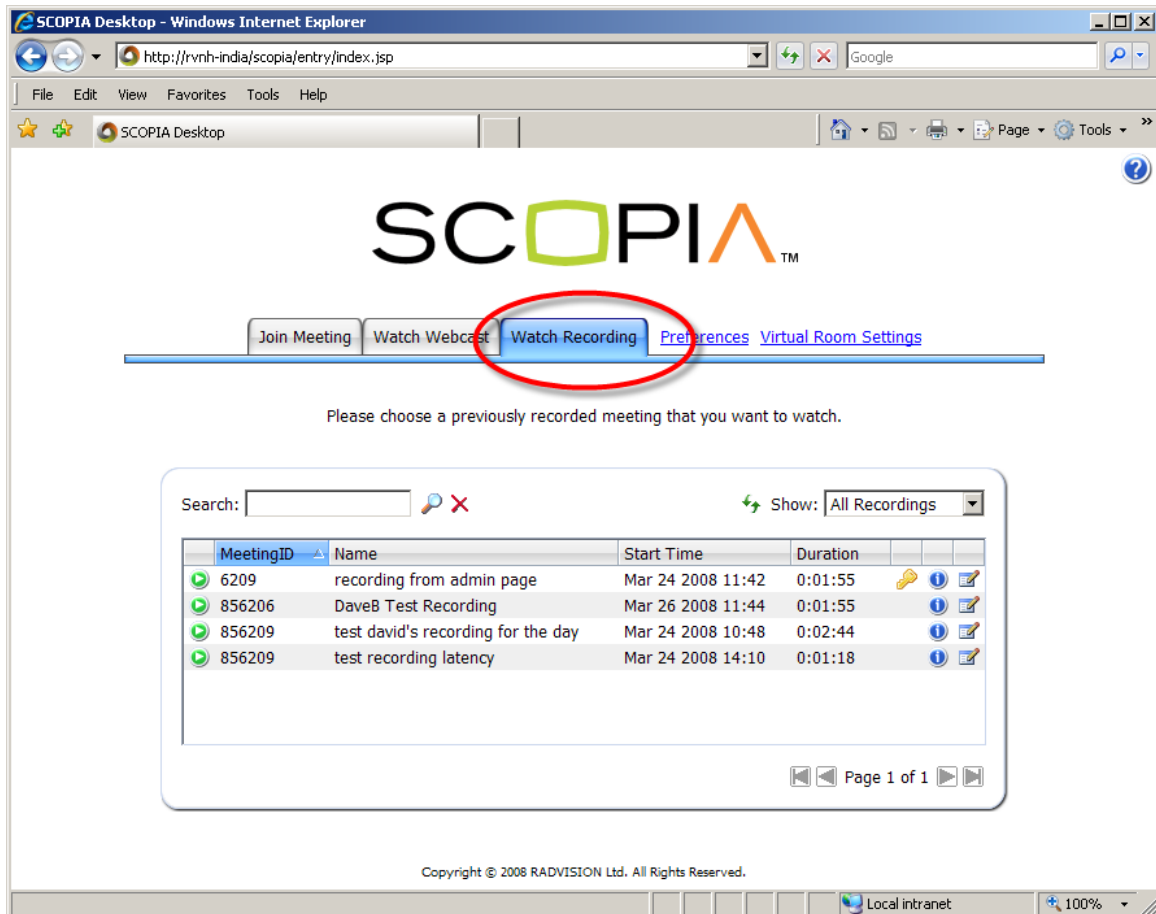
- **Toast message:**



## 3 Playback

### 3.1 Entry Page

The main entry page for SCOPIA Desktop has been changed to include Tabs: 'Join Meeting', 'Watch Webcast', and 'Watch Recording'. The 'Watch Recording' tab is where all stored content resides.



On this page, the user can view a list of recordings, with the ability to sort by Meeting ID, Name, Start Time or Duration.

- A 'key' icon (🔑) appears if the recording is PIN-protected.
- The 'info' icon (ℹ️) provides more information about the recording.
- The 'edit' icon (✎️) can be used to modify recording properties.
- The 'playback' icon (▶️) initiates meeting playback using a standard QuickTime player embedded in a web page.

### 3.2 Recorded Content Properties

The meeting owner can click the 'edit' icon to access the recording property page. After providing the owner PIN, the owner is presented with the following dialog box:

**Edit Recording** [X]

Meeting ID: 856209

Name:

Description:

Start/Stop Offsets:

Categories: Unassigned Assigned

Owner PIN:  Confirm:

Access PIN:  Confirm:

Actions that can be taken in this dialog are:

- Change the recording 'Name'.
- Change the recording 'Description'.
- Crop the recording beginning or end time using 'Start/Stop Offsets'.
- Assign or remove 'Categories' to which the recording belongs.
- Change 'Owner' or 'Access PIN's.

### 3.3 Record/Playback Room

A recording is played back on a PC using QuickTime embedded in a web page. The playback screen is shown below and contains the following components:

- Playback of the meeting video
- Playback of the meeting presentation
- Playback control (FF, REW, Play/Pause)
- Playback volume

The meeting video and presentation are completely synchronized when viewing including when using any Playback controls.

Playback screen layout options are similar to those available in the SCOPIA Desktop live conference room and include:

- Mixed Mode
- Side By Side Mode
- Full Screen Mode

The screenshot shows the SCOPIA Desktop interface within a Windows Internet Explorer browser window. The interface includes a control bar at the top with options for Mute, Mixed, Side By Side, Full Screen, and Swap. Below the control bar is a video player showing a meeting with several participants in a grid view. The main content area displays a presentation slide titled "Desktop Video Trends" with the following text:

- Desktop video within Unified Communications solutions several years away from widespread deployment
- Strong demand to connecting desktops to rooms
- 80% video conferencing users believe it is important/very important\*

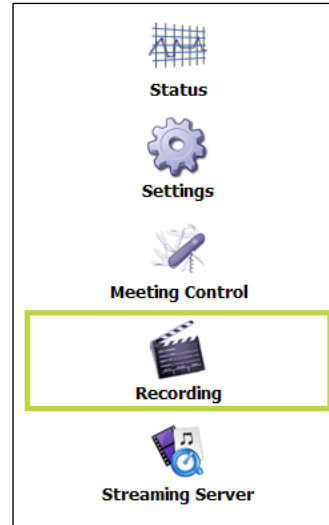
A pie chart titled "Figure 1: Importance of desktop to room video connectivity." is shown on the slide. The chart data is as follows:

Importance Level	Count	Percentage
Very Important	138	47.3%
Important	96	32.9%
Not	47	16.1%
Don't Know	11	3.8%

The slide also includes a source note: "\* Source: Wainhouse Research videometrics survey 2006 taken of WRB newsletter" and the RADVISION logo at the bottom right.

## 4 Recording / Playback Administration

The SCOPIA Desktop administration GUI has been modified to include an additional Recording section. This is where global recording and playback settings are defined.



### 4.1 System-wide Administrative Limits

The administrator can define the following attributes, which affect recording for all meetings:

Limits	
Maximum Bit Rate (Kb/s):	256
Maximum Storage Capacity (MB):	8192
Maximum Recording Duration (minutes):	120

- **Maximum Bit Rate (Kb/s):** This is the rate at which a meeting is being recorded. This rate can be different than the live meeting rate. A higher value here affects:
  - Recording quality
  - Disk space usage per minute
  - Bandwidth required for playback
- **Maximum Storage Capacity (MB):** This is the maximum disk space allocated for recordings. When specifying an amount, SCOPIA Desktop will reserve this amount of disk space to guarantee that there will be enough space on the hard drive.
- **Maximum Recording Duration (minutes):** This is the maximum length in time for any recording. After this duration the recording will stop automatically.

## 4.2 Disk Usage When Recording

384 Kb/s is the recommended bit rate for recording conferences. The table below shows the disk usage in MB when recording at 384 Kb/s.

# Recordings	1 Minute	30 Minutes	60 Minutes	120 Minutes
1	3.5	105.5	210.9	421.9
5	17.6	527.3	1054.7	2109.4
10	35.2	1054.7	2109.4	4218.8
100	351.6	10546.9	21093.8	42187.5

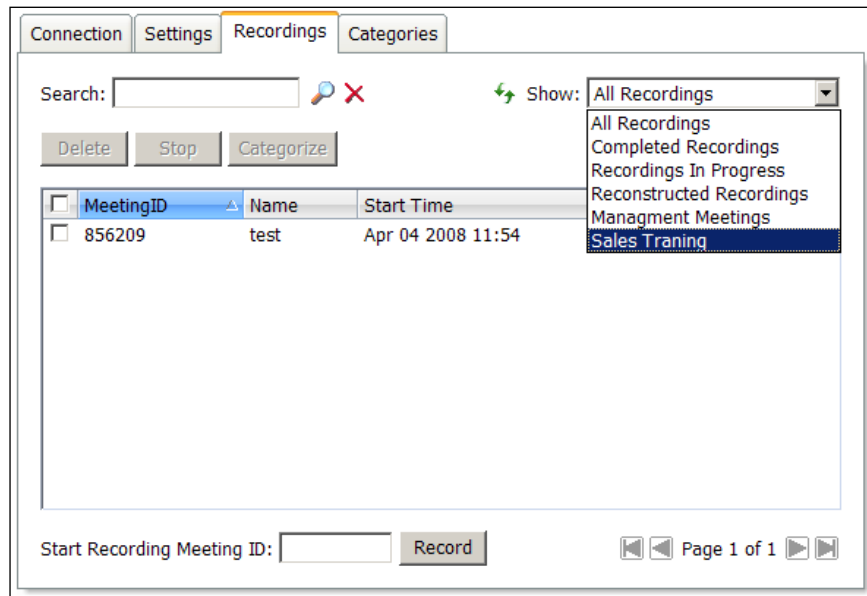
The additional table below shows the disk usage in MB when recording at 256 Kb/s.

# Recordings	1 Minute	30 Minutes	60 Minutes	120 Minutes
1	2.3	70.3	140.6	281.3
5	11.7	351.6	703.1	1406.3
10	23.4	703.1	1406.3	2812.5
100	234.4	7031.3	14062.5	28125.0

## 4.3 Recording Management

The administrator is presented with a list of recordings similar to the end-user. The administrator is able to:

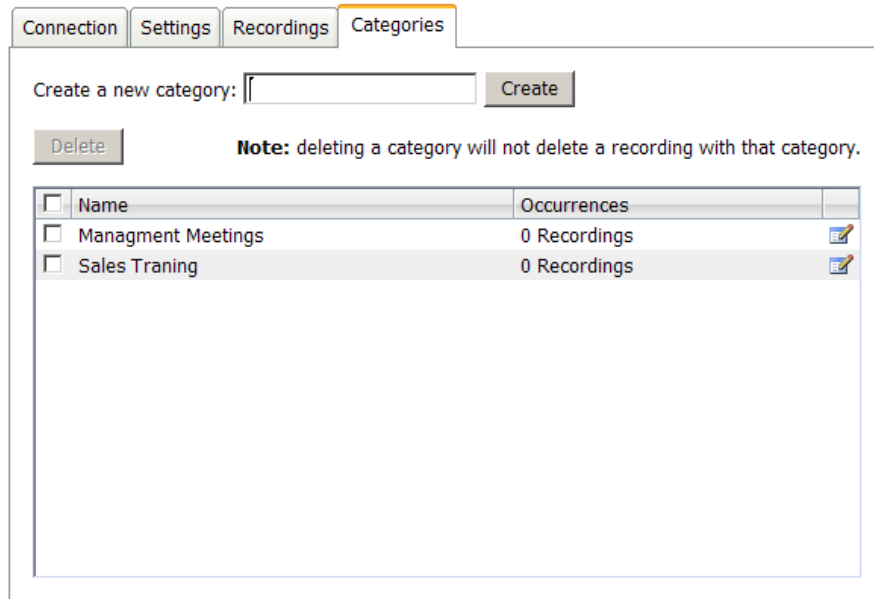
- List recordings
- Delete any recording
- Stop a recording in progress
- Edit any recording, (including assigning categories)





The administrator also has the ability to start a recording by a Meeting ID. If an administrator starts a recording, they get the same dialog that a user from the Conference Room will get.

## 4.4 Categories

Categories are keywords that can be associated with recordings. The administrator has the ability to manage categories (add / edit / delete). If an existing category is renamed, this attribute on all meetings that have this category will be updated to reflect the new name.



The screenshot shows the 'Categories' tab in a web application. At the top, there are navigation tabs: 'Connection', 'Settings', 'Recordings', and 'Categories'. Below the tabs, there is a form to create a new category with a text input field and a 'Create' button. A 'Delete' button is also present. A note states: 'Note: deleting a category will not delete a recording with that category.' Below the note is a table with two columns: 'Name' and 'Occurrences'. The table contains two rows: 'Managment Meetings' and 'Sales Traning', both with '0 Recordings' and an edit icon.

<input type="checkbox"/>	Name	Occurrences	
<input type="checkbox"/>	Managment Meetings	0 Recordings	
<input type="checkbox"/>	Sales Traning	0 Recordings	

## 5 Comparison to Other Offerings

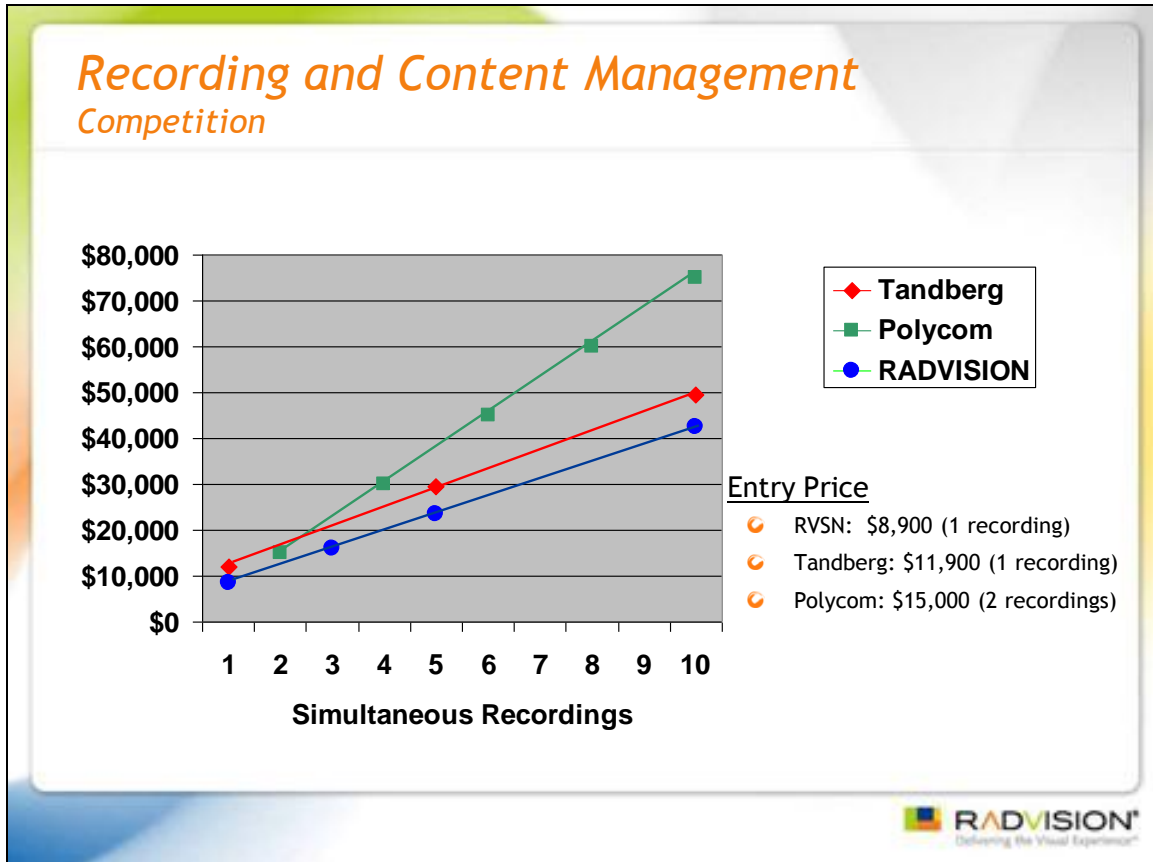
### 5.1 Functionality Comparison

Below is a comparison of Polycom's and Tandberg's recording solutions to RADVISION's SCOPIA:

	<b>SCOPIA</b>	<b>Polycom</b>	<b>Tandberg</b>
<b>Form Factor</b>	Software	Hardware appliance	Hardware appliance
<b>Concurrent Recordings</b>	Up to 10	2	Up to 10
<b>Unlimited Disk space</b>	✓ Uses standard storage	✗ Can only archive externally	✓ Can use external disk
<b>Unlimited Playback</b>	✓ Only limited by server capacity	✗ Limited by model	✗ Limited by model
<b>AD/Domino Enterprise Directory Integration</b>	✓ / ✓	✓ / ✗	✓ / ✗
<b>Playback to Computer/Room System</b>	✓ / ✗	✓ / ✓	✓ / ✓
<b>Integrated Recording &amp; Playback</b>	Recording integrated into desktop client Playback integrated into web portal	✗	✗

## 5.2 Pricing Comparison

As shown by the chart below, SCOPIA's recording capability has both a lower entry price as well as a lower cost for simultaneous recordings in comparison to Polycom and Tandberg.



## 6 How to Purchase Conference Recording

SCOPIA Recording and Content Management is an option to SCOPIA Desktop which is included with most SCOPIA MCU systems. It is available in 1, 3, 5, or 10 concurrent recording configurations.