

**TANDBERG**

# FieldView Device

## Software Release Notes

**Software Version 3.98.36**

**D5051213 Revision 1.3**

**May 2009**

## TABLE OF CONTENTS

<b>DOCUMENT REVISION HISTORY</b> .....	<b>4</b>
<b>OVERVIEW</b> .....	<b>5</b>
Software Installation .....	5
Recommended Equipment.....	5
<i>SD/SDHC Memory Card</i> .....	5
<i>802.11 Radio Infrastructure</i> .....	5
<i>NAT/Firewall Traversal</i> .....	5
References .....	6
<b>SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.98.36</b> .....	<b>7</b>
Introduction .....	7
New Product .....	7
<i>FieldView Rugged</i> .....	7
New Features .....	8
<i>Usability</i> .....	8
<i>Security</i> .....	8
<i>Network</i> .....	8
<i>Audio</i> .....	8
<i>User Interface</i> .....	9
Changes and Improvements since Previous Version .....	9
<i>Video</i> .....	9
<i>Network</i> .....	9
<i>Usability</i> .....	9
<i>File Management</i> .....	9
<i>Known Limitations</i> .....	10
<b>SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.98</b> .....	<b>12</b>
Introduction .....	12
New Product .....	12
<i>FieldView Ex</i> .....	12
New Features .....	13
<i>Video</i> .....	13
<i>User Interface</i> .....	15
<i>Network</i> .....	15
Changes and Improvements since Previous Version .....	16
<i>Video</i> .....	16
<i>Network</i> .....	16
<i>Usability</i> .....	16
<i>Audio</i> .....	16
<i>Known Limitations</i> .....	17
<b>SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.76</b> .....	<b>19</b>
Introduction .....	19
<i>New Features</i> .....	19
<i>Network</i> .....	19
<i>Security</i> .....	20
<i>Usability</i> .....	20
Changes and Improvements since Previous Version .....	23
<i>Video</i> .....	23
<i>Network</i> .....	23

---

<i>Usability</i> .....	23
<i>Known Limitations</i> .....	24
<b>SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.34</b> .....	<b>25</b>
Introduction .....	25
New Product Abstract .....	25
<i>New FieldView Device</i> .....	25
New Features .....	26
<i>TANDBERG Video Communication Server (VCS)</i> .....	26
<i>Video</i> .....	26
<i>Audio</i> .....	28
<i>Network</i> .....	29
<i>User Interface</i> .....	30
<i>Usability</i> .....	31
Changes and Improvements since Previous Version .....	32
<i>Video</i> .....	32
<i>Network</i> .....	32
<i>Usability</i> .....	32
<i>Known Limitations</i> .....	33

## **DOCUMENT REVISION HISTORY**

Revision 1.3	Release of 3.98.36
Revision 1.2	Release of 3.98
Revision 1.1	Release of 3.76
Revision 1.0	Release of 3.34

## OVERVIEW

This document applies to the TANDBERG FieldView mobile video collaboration system. The document provides product release notes for the FieldView Device software, including a description of new features, resolved issues and a list of known issues.

FieldView provides mobile real-time video conferencing for locations that are usually not accessible with standard video conferencing equipment. This includes locations such as test labs, health care facilities, factory floors, service departments, remote suppliers, inspection areas, customer facilities, and other remote work team locations.

## Software Installation

More information on the installation of the TANDBERG FieldView software can be obtained in document D50515 – TANDBERG FieldView Software Upgrade FD3/FA3.

## Recommended Equipment

This section documents the recommended equipment to be used with the FieldView system.

### SD/SDHC Memory Card

- SD/SDHC Memory cards used with FieldView must meet the following performance requirements:
  - Minimum write speed: 9.0 MB/sec
  - Minimum read speed: 10.0 MB/sec
- The SanDisk Ultra-II series of SD and SDHC cards have been tested with FieldView and are recommended. Other brands that meet the performance requirements should also be acceptable.
- **Important Notes:**
  - Non-SDHC cards larger than 2GB are not compatible with FieldView and may result in poor or incorrect performance.
  - The SD card must be formatted in FieldView before first use. Cards not formatted using FieldView may have insufficient performance.

### 802.11 Radio Infrastructure

- TANDBERG recommends the use of Symbol or Cisco 802.11g wireless infrastructure equipment with the FieldView system. In limited testing, other brands of 802.11 equipment have not shown significant limitations or issues, however, TANDBERG has not conducted sufficient testing to ensure compatibility in all cases.
- **Important Notes:**
  - Disable “Aggressive Load Balancing” on Cisco Wireless LAN Controllers to allow reliable roaming. (Note: Cisco makes the same recommendation when using Cisco Wireless IP phones).

### NAT/Firewall Traversal

- Consult your TANDBERG reseller for recommended solutions for NAT and firewall traversal.

## References

TANDBERG Web Site <http://www.tandberg.com>

TANDBERG FTP Site <http://ftp.tandberg.com>

For all documentation, please see the TANDBERG Support Website at <http://www.tandberg.net/support/documentation.php>.

# SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.98.36

## Introduction

These release notes describe the new features and capabilities included in the TANDBERG FieldView Device software version 3.98.36.

**Note:** This information is intended for the TANDBERG FieldView Device, FieldView Ex and FieldView Rugged (new product). The FieldView Device software Version 3.98.36 works in conjunction with FieldView Application software Version 3.X. Reference the FieldView Application release notes regarding the latest version of the application software.

It's strongly recommended to consult with TANDBERG before using third party equipment with the TANDBERG FieldView.

## New Product

### FieldView Rugged

TANDBERG FieldView™ Rugged takes all the exciting collaboration capabilities of FieldView and adds new features to make it the most rugged mobile video solution available.

**Note:** FieldView Device, FieldView EX and FieldView Rugged share a single software image. This simplifies deployment and provides the same UI on both devices.



Figure 1

- Drop proof up to 1.22 meters (4 feet) on concrete
- Environmental Sealing IP54
- Operating Temp of -10°C to +40°C

## New Features

### Usability

#### *Enhanced Call Recording*

In addition to the audio stream associated with an active video stream, FieldView records full-duplex voice audio. Calls can be recorded without an active video stream. This provides a complete record of a call, including two-way voice, video, subject audio, images and telestration.

### Security

#### *Configuration Access Control*

Access rights for configuration items can be determined by the FieldView administrator. The default access rights may be modified to permit changes to configuration items by all users or only by administrators. Modifying the access rights requires FieldView Management Suite version 1.3 or higher.

#### *Privacy (Recording) Control*

Recording can be disabled for privacy or security reasons. When recording is disabled, video, audio and images can not be stored either internally or to removable media. When used with FieldView Application version 3.4 or higher, if recording is disabled by any call participant then recording is disabled for all participants.

If recording is enabled, an onscreen indicator is provided to inform the local user that the remote endpoint is actively recording content.

### Network

#### *Enhanced Bandwidth Control*

Maximum video bandwidth can be specified using the control on the **Call Control -> Bandwidth** configuration screen. Video profiles or custom configurations that exceed the specified bandwidth will be disabled.

When bandwidth control is enabled, FieldView limits video bandwidth to the maximum value negotiated during call setup with the remote SIP endpoint.

### Audio

#### *Headset Sidetone*

Sidetone is useful when using a closed-ear headset and provides feedback to the user to ensure speaking volume is satisfactory. Headset sidetone may be enabled from the **Audio -> General** configuration screen. The sidetone level can be adjusted from the **Audio -> Volume** screen.

#### *Line-in Level*

The level of the external audio line input can now be adjusted using the gain control on the **Audio -> Source** configuration screen.

## User Interface

### New/Modified Icons

Icon	Description
	Recording disabled (Privacy mode)
	Remote endpoint is recording the call (video is shared)
	Remote endpoint is recording the call (video not active)

Figure 2

## Changes and Improvements since Previous Version

### Video

- Fixed issue where viewfinder would display a vertical sync bar if an external s-video source is attached but video input is disabled [Ref #2927].

### Network

- Corrected an issue where a custom MTU setting would continue to be used even though the MTU setting was disabled [Ref #2857].
- Corrected issue where the radio would appear to hang trying to connect. The issue would only occur if both wired and wireless networks were configured to use identical static IP addresses [Ref #2864].

### Usability

- SIP Registration status is now displayed on the **Call Control -> SIP Settings** and **Call Status** screens [Ref #3015].
- Illumination can no longer accidentally be disabled via the level control on the **Camera Status** screen [Ref #3177].
- Fixed issue that allowed SIP URI's to be entered with an embedded space [Ref #2985].
- Improved error checking for SIP server addresses [Ref #3225].
- Improved clarity of various status messages based on customer feedback [Ref #3054, 3316, 1393, 3183].
- Fixed issue that sometimes caused the playback status bar to be hidden [Ref #3317].
- Hidden contacts are now displayed in the call directory [Ref #2950].

### File Management

- Fixed issue where read-only software update packages could not be installed from SD card [Ref #3115].
- Fixed issue where file folders cannot be renamed if the name contains a period ('.') [Ref #3128].

**Known Limitations**

<b>Equipment</b>	<b>Limitations</b>
TANDBERG FieldView Device Version 3.98.36 (Touch Panel Calibration)	Currently this is no way to exit out of the touch panel calibration screen. Re-calibrate the screen to exit.
TANDBERG FieldView Device Version 3.98.36 (Wired Ethernet)	Connecting an Ethernet cable to the FieldView Device while in standby mode could result in the network not being noticed. It is recommended that Ethernet is connected prior to powering on the FieldView device.
TANDBERG FieldView Device Version 3.98.36 (Radio Channels)	The radio channels configuration will maintain their current setting after upgrading to Version 3.98. All radio channels will be enabled by default on new FieldView Devices with Ver 3.76 or higher.
TANDBERG FieldView Device Version 3.98.36 (Date & Time)	Changing the Date and Time during an active call will cause the call duration count to be incorrect. It is recommended to change the date and time when in an idle state.
TANDBERG FieldView Device Version 3.98.36 (S-Video)	When using the S-Video input on the FieldView Device make sure to power up the other video source before switching to the S-Video input on the FieldView device.
TANDBERG FieldView Device Version 3.98.36 (Video)	Changing the S-video type (NTSC \ PAL) while recording may result in distorted video. It is recommended to change the video type before recording [Ref #1689].
TANDBERG FieldView Device Version 3.98.36 (Authentication)	An incorrect password or certificate will prevent PEAP or EAP-TLS authentication, but users will not receive a notification of failure. If the network is not available when PEAP or EAP-TLS are in use, it is recommended to re-install the certificate and/or re-enter authentication password [Ref #2108].
TANDBERG FieldView Device Version 3.98.36 (MXP)	TANDBERG MXP software F6.2 is not compatible with the FieldView Device. It is recommended that users upgrade the MXP software to F6.3 or higher, downgrade to F6.0 or earlier, or disable the H.264 codec on the TANDBERG MXP endpoint.
TANDBERG FieldView Device Version 3.98.36 (SIP/TCP)	The initial call attempt to a PC running FA version earlier than 3.1.6 may fail if TCP is configured to be the SIP transport mechanism. It is recommend updating older FA to the current software release. For a direct IP call, user can also configure UDP as the SIP transport when connecting to FA versions earlier than 3.1.6 [Ref #2363].
TANDBERG FieldView Device Version 3.98.36 (Video)	Calls initiated from a TANDBERG H.323-registered endpoint in a VCS interworked call will not have video by default. The FieldView device will offer to reconnect the call with video. However, if the device's microphone is muted and the user denies the offer to reconnect with video then the call may not connect. It is recommended that the microphone is not muted before answering calls from TANDBERG endpoints [Ref #1916].
TANDBERG FieldView Device Version 3.98.36 (Encryption)	Calls initiated from a TANDBERG H.323-registered endpoint in a VCS interworked call that specify encryption must be 'ON' may fail if the FieldView device's encryption mode is not set to 'Auto'. Configuring the FieldView device's encryption mode to 'Auto' will resolve this issue [Ref #2441].
TANDBERG FieldView Device Version 3.98.36 (Wireless)	Wireless radio configuration settings contained in the FieldView Management Suite configuration package cannot be applied to a FieldView device with its wireless network disabled. Wireless must be enabled to receive updated radio configurations [Ref #2186].
TANDBERG FieldView Device Version 3.98.36 (User Interface)	The IP address reported from Main Menu -> Status Menu -> Network Status -> Wireless may be incorrect when configured for adhoc wireless networking. Consult the Configuration -> Network -> Wireless -> Advanced -> IP Information tab to display the correct IP address

	[Ref #2750].
TANDBERG FieldView Device Version 3.98.36 (User Interface)	Operation while the 'Advanced Wireless' network properties dialog is displayed may impact performance. It is recommended to close this dialog, except when necessary to configure wireless properties [Ref #2580].
TANDBERG FieldView Rugged / TANDBERG FieldView Ex Version 3.98.36 (Video)	FieldView Rugged or Ex only. High video contrast settings may cause the video to artifact. It is recommended reducing the contrast setting. Only extreme values result in artefacts [Ref #2616].
TANDBERG FieldView Device Version 3.98.36 (Battery)	Device may shut down due to a fully discharged battery without providing a warning message. Under some conditions the battery may not correctly report its true level of charge, preventing this warning from occurring [Ref #2766].
TANDBERG FieldView Device Version 3.98.36 (Network MTU)	If the network MTU size is changed from the default value (1500), the MTU of the FieldView Application must be changed to a matching (or smaller) value. Failure to match MTU sizes can result in communication failures when sharing images or video from the Application to the Device [Ref #2840].
TANDBERG FieldView Rugged / TANDBERG FieldView Ex Version 3.98.36 (Viewfinder)	FieldView Rugged or Ex only. Under rare circumstances, if the <b>Automatically synchronize with time server</b> option is selected on the <b>Time -&gt; Time Server</b> configuration page and the device is powered on, the viewfinder may not correctly initialize. The viewfinder will not display video. Normal operation will resume by pressing the power button to place the device in Standby and then pressing the power button again to turn the device back on. Alternatively, the viewfinder will resume normal operation by streaming video from a call [Ref #3424].

# SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.98

## Introduction

These release notes describe the new features and capabilities included in the TANDBERG FieldView Device software version 3.98.

**Note:** This information is intended for the TANDBERG FieldView Device and FieldView Ex. The FieldView Device software Version 3.98.36 works in conjunction with FieldView Application software Version 3.X. Reference the FieldView Application release notes regarding the latest version of the application software.

It's strongly recommended to consult with TANDBERG before using third party equipment with the TANDBERG FieldView.

## New Product

### FieldView Ex

TANDBERG FieldView™ Ex takes all the exciting collaboration capabilities of FieldView and adds new features to make it the most rugged mobile video solution available. Ex certified products are designed for use in the most demanding environments, where safety and wear-and-tear on communication equipment are of prime concern.

**Note:** FieldView Device and FieldView EX both share a single software image. This simplifies deployment and provides the same UI on both devices.



Figure 3

- Ex Certification
- Explosion Protected
- Drop proof up to 1.22 meter (4 feet) on concrete
- Environmental Sealing IP54
- Operating Temp of -10°C to +40°C

## New Features

### Video

#### Image Sharing Mode (ISM)

ISM disables video streaming and selects the lowest bit-rate voice codec to minimize bandwidth usage. Typically, this mode could be used when network bandwidth is insufficient to support reliable operation with video streaming (e.g. when operated over a Wireless Wide Area Network (WWAN) or a low speed link). ISM can be selected on high bandwidth networks as well to limit the amount of bandwidth that will be used. When ISM is selected, a call can be established in the normal manner and images can be shared; however, video streaming is not permitted. Once entered, ISM cannot be exited to return to Video Mode without disconnecting the call. Select ISM from Stream Setup on the Main Menu (see Fig 2).

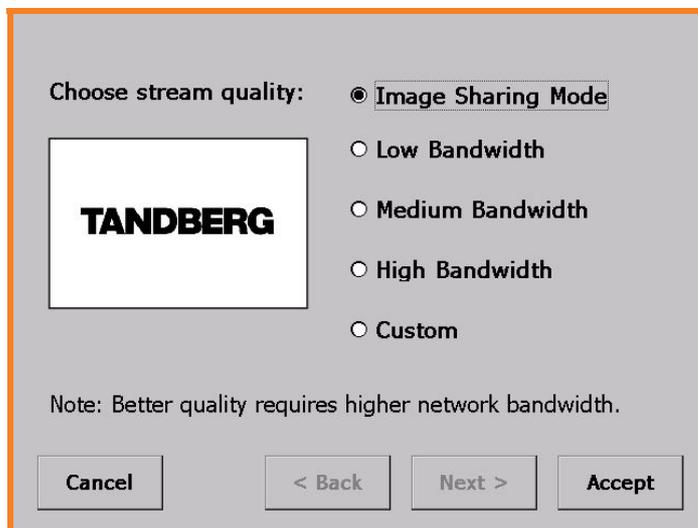


Figure 4

### Image Preview

Images can now be previewed from the file browser. Select a thumbnail using the File Browser (as shown in Fig 3) from the Main Menu. Tapping the image thumbnail will display a large preview window in which the image can be viewed. Tapping on the preview window will close the window. If the image is to be shared or displayed on the Viewfinder, select Share/Open.



Figure 5

### Telestration Colors

Telestration colors can be edited. Color preferences can be configured from the **Display -> Telestration** screen accessible via Configuration from the Main Menu. Telestration colors can also be configured from the telestration status screen accessible by tapping the telestration icon. Color changes are also updated to the same values on the remote FA.

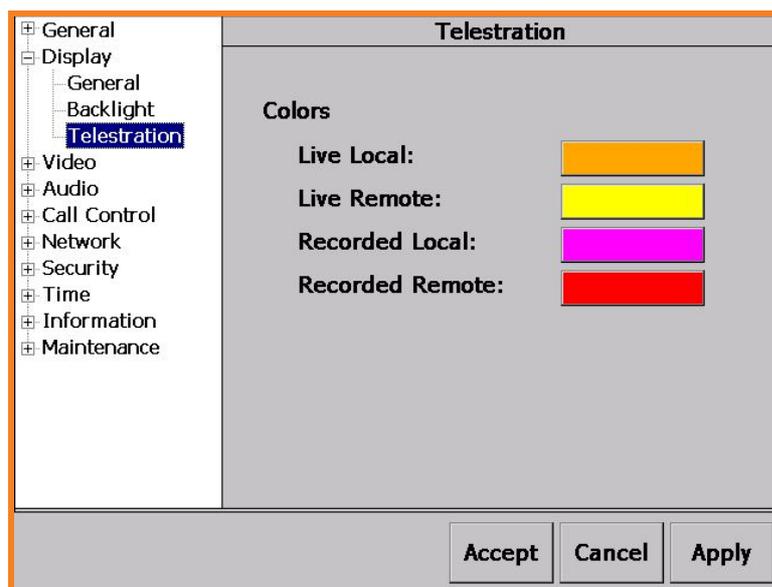


Figure 6

## User Interface

### New/Modified Icons

Icon	Description
	The live video stream is paused.
	Live video is not paused
	Video streaming is disabled. Video streaming is disabled when either endpoint has selected Image Sharing Mode (as described above). The call must be ended to exit Image Sharing Mode.
	Image displayed locally on the viewfinder (tap icon or press Capture button to exit).
	Image captured but not displayed (tap icon to display the last captured image)
	Image shared and displayed locally on the viewfinder (tap icon or press Capture button to exit)
	Image captured but not displayed and a call is connected (tap icon to share the last captured image)

Figure 7

## Network

### MTU Size

The latest FieldView Device software allows you to change the default MTU size for the device. Changing MTU from the default value should be avoided because performance will be reduced. If an MTU change must be made, consult your network administrator and/or support representative to ensure that MTU is configured properly on host computers. The MTU value of the Application must be set to less than or equal to the value configured on the device.

### NTP Support

The latest FieldView Device now supports the ability to configure a Network Time Protocol (NTP) server for automatic time synchronization.

## Changes and Improvements since Previous Version

### Video

- Improvement made to the error handling mechanisms when receiving an invalid or corrupt recording.
- Corrected possible issue which resulted in the telestration markings not being updated correctly when the media configuration is changed during a session.
- Incomplete images resulting from attempts to capture images when there is insufficient storage are now removed.

### Network

- Improvements made to bandwidth reporting during session negotiation.
- Improvements made to the reporting of SIP messages.
- Corrected a possible issue which prevented the use of WPA hex keys.

### Usability

- Improvements made in URI handling. Domain names will be supported in addition to IP addresses.
- Improvements made to update performance for File Browser on large directories.
- Corrected possible issue which intermittently caused an image transfer to fail.
- Corrected possible issue that intermittently caused a sluggish UI while streaming.

### Audio

- Corrected an alias issue which resulted in degraded subject audio quality.

**Known Limitations**

<i>Equipment</i>	<i>Limitations</i>
TANDBERG FieldView Device Version 3.98 (Touch Panel Calibration)	Currently this is no way to exit out of the touch panel calibration screen. Re-calibrate the screen to exit.
TANDBERG FieldView Device Version 3.98 (Wired Ethernet)	Connecting an Ethernet cable to the FieldView Device while in standby mode could result in the network not being noticed. It is recommended that Ethernet is connected prior to powering on the FieldView device.
TANDBERG FieldView Device Version 3.98 (Radio Channels)	The radio channels configuration will maintain their current setting after upgrading to Version 3.98. All radio channels will be enabled by default on new FieldView Devices with Ver 3.76 or higher.
TANDBERG FieldView Device Version 3.98 (Date & Time)	Changing the Date and Time during an active call will cause the call duration count to be incorrect. It is recommended to change the date and time when in an idle state.
TANDBERG FieldView Device Version 3.98 (S-Video)	When using the S-Video input on the FieldView Device make sure to power up the other video source before switching to the S-Video input on the FieldView device.
TANDBERG FieldView Device Version 3.98 (Video)	Changing the S-video type (NTSC \ PAL) while recording may result in distorted video. It is recommended to change the video type before recording.
TANDBERG FieldView Device Version 3.98 (Authentication)	An incorrect password or certificate will prevent PEAP or EAP-TLS authentication, but users will not receive a notification of failure. If the network is not available when PEAP or EAP-TLS are in use, it is recommended to re-install the certificate and/or re-enter authentication password.
TANDBERG FieldView Device Version 3.98 (MXP)	TANDBERG MXP software F6.2 is not compatible with the FieldView Device. It is recommended that users upgrade the MXP software to F6.3 or higher, downgrade to F6.0 or earlier, or disable the H.264 codec on the TANDBERG MXP endpoint.
TANDBERG FieldView Device Version 3.98 (SIP/TCP)	The initial call attempt to a PC running FA version earlier than 3.1.6 may fail if TCP is configured to be the SIP transport mechanism. It is recommend updating older FA to the current software release. For a direct IP call, user can also configure UDP as the SIP transport when connecting to FA versions earlier than 3.1.6.
TANDBERG FieldView Device Version 3.98 (Video)	Calls <u>received</u> from a TANDBERG H.323-registered endpoint in a VCS interworked call will not have video by default. The FieldView device will offer to reconnect the call with video. However, if the device's microphone is muted and the user denies the offer to reconnect with video then the call may not connect. It is recommended that the microphone is not muted before answering calls from TANDBERG endpoints.
TANDBERG FieldView Device Version 3.98 (Encryption)	Calls received from a TANDBERG H.323-registered endpoint in a VCS interworked call that specify encryption must be 'ON' may fail if the FieldView device's encryption mode is not set to 'Auto'. Configuring the FieldView device's encryption mode to 'Auto' will resolve this issue.
TANDBERG FieldView Device Version 3.98 (Wireless)	Wireless radio configuration settings contained in the FieldView Management Suite configuration package cannot be applied to a FieldView device with its wireless network disabled. Wireless must be enabled to receive updated radio configurations.
TANDBERG FieldView Device Version 3.98 (User Interface)	The IP address reported from Main Menu -> Status Menu -> Network Status -> Wireless may be incorrect when configured for adhoc wireless networking. Consult the Configuration -> Network -> Wireless -> Advanced -> IP Information tab to display the correct IP address.

<p>TANDBERG FieldView Device Version 3.98 (User Interface)</p>	<p>Operation while the 'Advanced Wireless' network properties dialog is displayed may impact performance. It is recommended to close this dialog, except when necessary to configure wireless properties.</p>
<p>TANDBERG FieldView Ex Version 3.98 (Video)</p>	<p>FieldView Ex only. High video contrast settings may cause the video to artifact. It is recommended reducing the contrast setting. Only extreme values result in artifacts.</p>
<p>TANDBERG FieldView Device Version 3.98 (Battery)</p>	<p>Device may shut down due to a fully discharged battery without providing a warning message. Under some conditions the battery may not correctly report its true level of charge, preventing this warning from occurring.</p>
<p>TANDBERG FieldView Device Version 3.98 (Network MTU)</p>	<p>If the network MTU size is changed from the default value (1500), the MTU of the FieldView Application must be changed to a matching (or smaller) value. Failure to match MTU sizes can result in communication failures when sharing images or video from the Application to the Device.</p>
<p>TANDBERG FieldView Ex Version 3.98 (Viewfinder)</p>	<p>FieldView Ex only. Under rare circumstances, if the <b>Automatically synchronize with time server</b> option is selected on the <b>Time -&gt; Time Server</b> configuration page and the device is powered on, the viewfinder may not correctly initialize. The viewfinder will not display video. Normal operation will resume by pressing the power button to place the device in Standby and then pressing the power button again to turn the device back on. Alternatively, the viewfinder will resume normal operation by streaming video from a call [Ref #3424].</p>

# SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.76

## Introduction

These release notes describe the new features and capabilities included in the TANDBERG FieldView Device software version 3.76.

**Note:** This information is intended for the TANDBERG FieldView Device Model MCD1000 (see label on the bottom of the device). The FieldView Device software Ver 3.76 works in conjunction with FieldView Application software Ver 3.1.12. Reference the FieldView Application release notes regarding this version of the application software.

It's strongly recommended to consult with TANDBERG before using third party equipment with the TANDBERG FieldView.

## New Features

### Network

#### SIP

Added support for H.263 protocol for Interoperability TANDBERG VCS SIP/H.323 interworking feature can be used for calling H.323 endpoints.

Added control to allow for configuration of the SIP transport type TCP or UDP in the SIP messages for direct IP-to-IP call for interoperability with endpoints that do not support TCP.

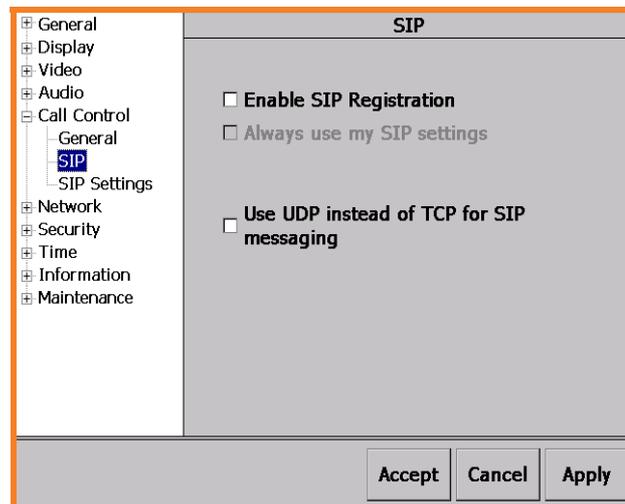


Figure 8: SIP Registration

## Security

Added SRTP/AES encryption for video and audio streams, and data channel.

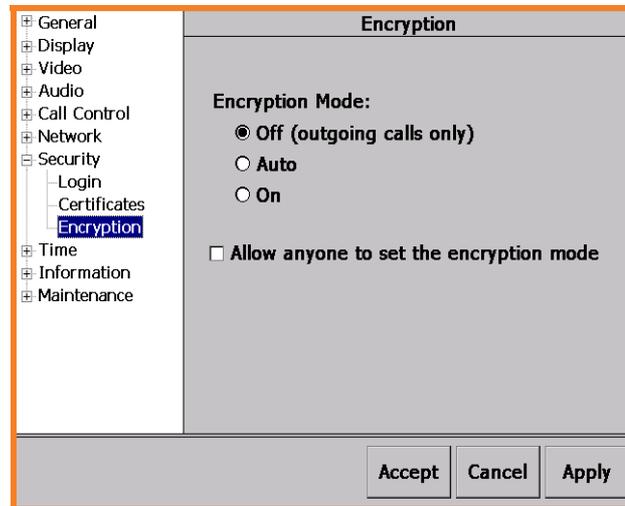


Figure 9: Encryption Mode

## Usability

Added independent control of image capture and stream freeze by pressing the Enter Key . This allows a stable static view to be presented during session without saving a snapshot.

Added viewfinder bounding rectangle to show actual video boundaries for various resolutions due to the fact that some edge areas of the viewfinder on some resolutions are not included in the far end image. Now a line boundary or shaded mat can be displayed on the viewfinder to precisely identify the area seen at the far end.

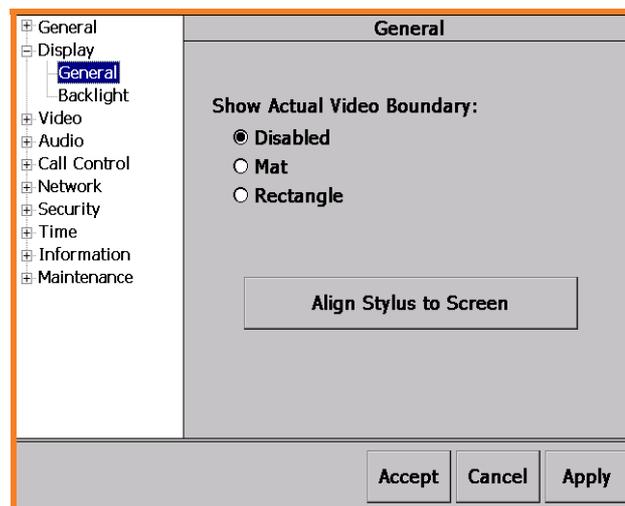


Figure 10: Video Boundary

Added the support of call history under the Local Contacts window to provide a convenient way to review and re-establish a previous call. It lists the most recent calls (default 20).

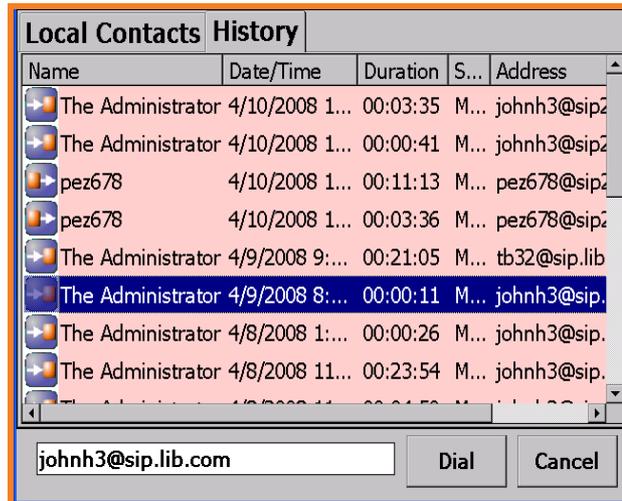


Figure 11: Call History

The FieldView Device now supports the ability to automatically answer an incoming call.

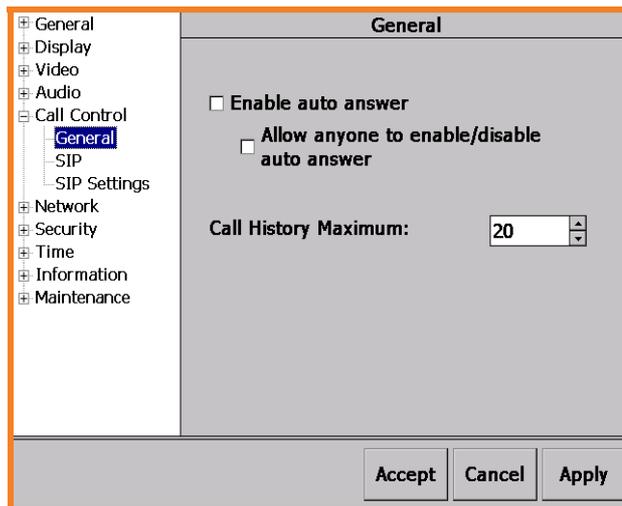


Figure 12: Auto Answer

Added browse button to search for software update packages to allow viewing of the file system and select of the desired update files.

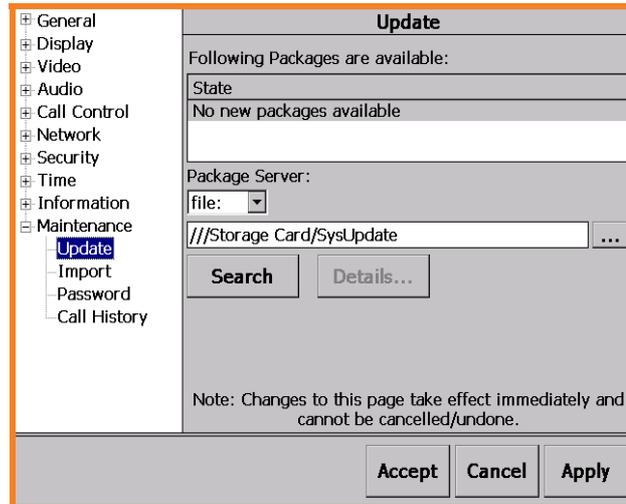


Figure 13: Update

## Changes and Improvements since Previous Version

### Video

Improved video quality when suffering packet loss - The video drawing algorithm has been modified to prevent tiling effects caused by frame corruption during periods of packet loss.

Corrected an issue where incorrect image sometimes was shown while in image sharing mode.

### Network

Improved connection robustness when experiencing packet loss.

Improved connection reliability on the networks with very short Radius server timeouts.

Improved Handling for spurious connection loss from wireless networks.

Improved operation with PEAP fast reconnect.

Fixed an issue where the local call status for a voice codec was incorrect.

Corrected an issue where it was possible to select a port that was currently in use.

Resolved an issue where it was not possible to place a direct IP calls when not registered to a SIP registrar.

Corrected an issue where the telestration was being displayed incorrectly when video resolution is switched.

Resolved an issue where corrupted telestration were being displayed when telestration over a recording that contains telestration.

### Usability

Improved layout of the configuration screen by nesting the menu to allow faster access to the various sections of the menu configuration.

Fixed an issue where session duration continues to increments after a failed call.

Resolved an issue where it was not possible to cancel a change to the video HUE setting.

Microphone mute checkbox now mutes both voice and subject audio.

Various performance and stability improvements

**Known Limitations**

<i>Equipment</i>	<i>Limitations</i>
TANDBERG FieldView Device Ver 3.76 (Touch Panel Calibration)	Currently this is no way to exit out of the touch panel calibration screen. Re-calibrate the screen to exit.
TANDBERG FieldView Device Ver 3.76 (Wired Ethernet)	Connecting an Ethernet cable to the FieldView Device while in standby mode could result in the network not being noticed. It is recommended that Ethernet is connected prior to powering on the FieldView device.
TANDBERG FieldView Device Ver 3.76 (Radio Channels)	The radio channels configuration will maintain their current setting after upgrading to Ver 3.76. All radio channels will be enabled by default on new FieldView Devices with Ver 3.76 or higher.
TANDBERG FieldView Device Ver 3.76 (Date & Time)	Changing the Date and Time during an active call will cause the call duration count to be incorrect. It is recommended to change the date and time when in an idle state.
TANDBERG FieldView Device Ver 3.76 (S-Video)	When using the S-Video input on the FieldView Device make sure to power up the other video source before switching to the S-Video input on the FieldView device.
TANDBERG FieldView Device Ver 3.76 (Video)	Changing the S-video type (NTSC \ PAL) while recording may result in distorted video. It is recommended to change the video type before recording.

# SOFTWARE RELEASE NOTES FOR TANDBERG FIELDVIEW VERSION 3.34

## Introduction

These release notes describe the new features and capabilities included in the TANDBERG FieldView Device software version 3.34.

**Note:** This information is intended for the TANDBERG FieldView Device Model MCD1000 (see label on the bottom of the device). The FieldView Device software Ver 3.34 works in conjunction with FieldView Application software Ver 3.0.13. Reference the FieldView Application release notes regarding this version of the application software.

It's strongly recommended to consult with TANDBERG before using third party equipment with the TANDBERG FieldView.

## New Product Abstract

### New FieldView Device

The new FieldView Device (camera) has been equipped with an external antenna which improves the wireless connection to the network.



**Figure 14: New FieldView Device**

**Note:** Software version 3.34 does not only apply to the new FieldView Device. Version 3.34 software can be applied to previous versions of the FieldView device.

## New Features

### TANDBERG Video Communication Server (VCS)

Software Ver 3.34 is now compatible with the TANDBERG Video Communication Server (VCS) in SIP registration.

**Note:** Requires Ver X2.0 on TANDBERG Video Communication Server (VCS)

**Note:** This functionality is SIP registration only. When registering to the VCS Expressway, firewall traversal will not be guaranteed as the FieldView Application does not support traversal technology.

### Video

It is now possible to save a snapshot to the SD memory card. Snapshots can be initiated from the FieldView device or Application.

Support for bidirectional image capture and sharing by pressing the still image capture button on the device. This will cause the image to be capture at the FieldView device and also sent to the FieldView application that can be displayed in the image viewer. The images are saved to the SD memory card (if present) as a jpeg file. The image can also be shared during a call by using the File Browser to locate and select the snapshot.

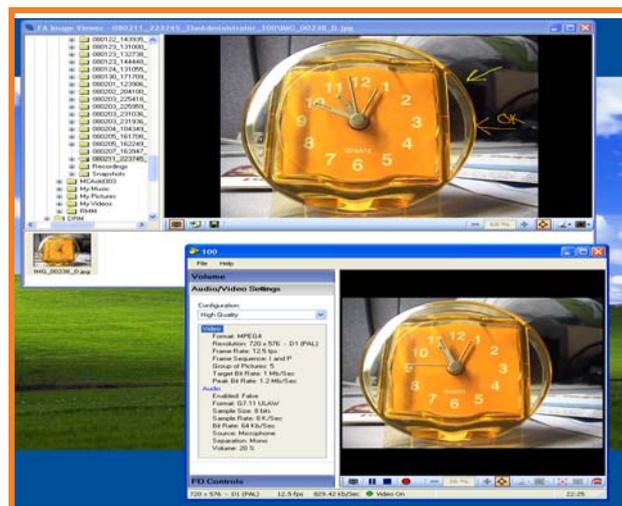


Figure 15: Snapshots

The ability to stream a video recording from the FieldView Application to the FieldView Device during a call has been added. User can simultaneously telestrate and speak while the recording is being viewed and allows the displaying of image to the remote user.

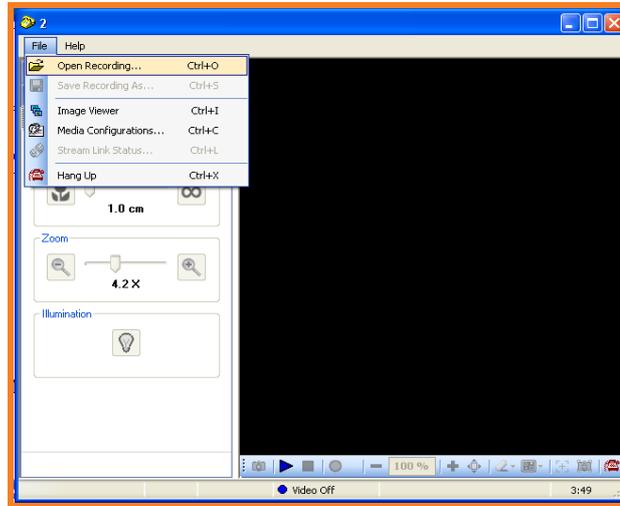


Figure 16: Recording Streams

Recording formats has been enhanced to include complete session information, namely: video, subject audio, still images, telestration, and timeline. When you play back the recording it reconstructs what occurred during the session, including popup images, drawing telestration, etc.

Added support for additional layers of telestration, which are now four with unique colors and the sources are Local / Remote and Live / Recording. The allows recordings containing telestration to be viewed and additional telestration added during a live collaboration session.

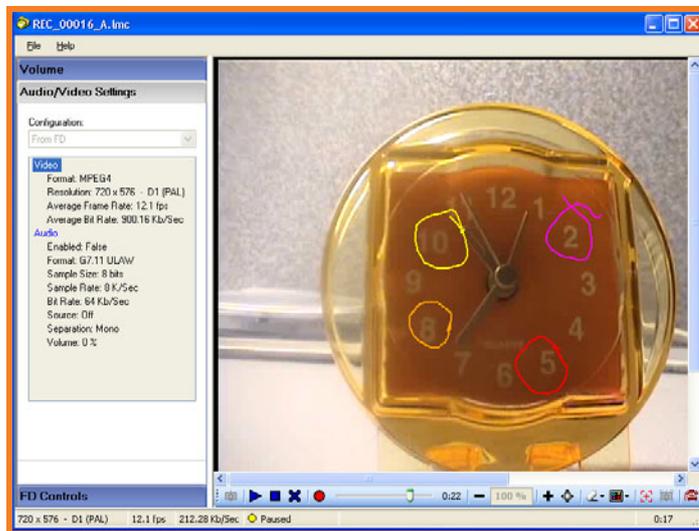


Figure 17: Layers of Telestration

Added support for recordings to be played in QuickTime Ver 7.

**Note:** Telestration and other session data not supported in QuickTime

### Audio

Added a new low-bit rate voice codec (GSM 6.10), which operates at 13kbps. This minimizes the audio bandwidth utilization on low bandwidth connections compared with the original G.711 codec that operates at 64kbps. This can be specified for low-bit rate codec by selecting the Optimize voice and subject audio check boxes.

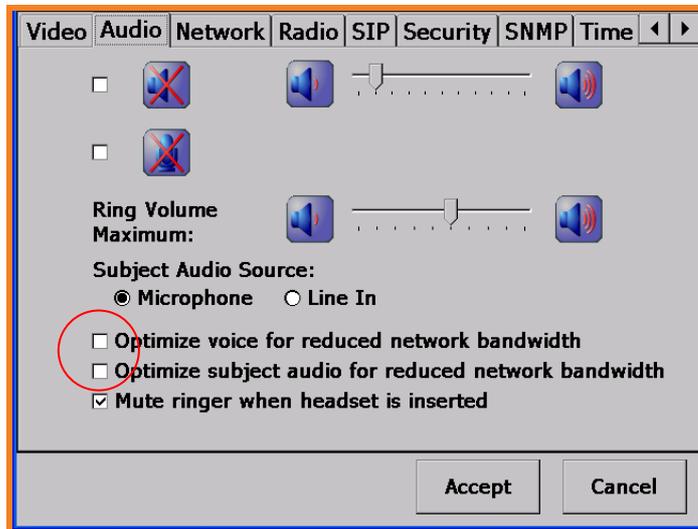


Figure 18: Audio Configuration

Added a configurable setting to allow the external speaker to ring when a headset is connected. This ensures an incoming call is heard even if the user has temporarily removed the headset.

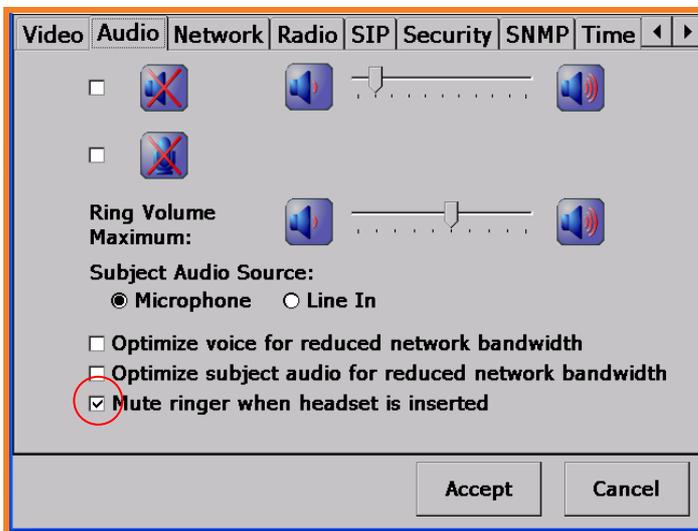


Figure 19: Ringer Configuration

## Network

### Radio

Added the ability to disable the radio when in high security areas where this may be prohibited.

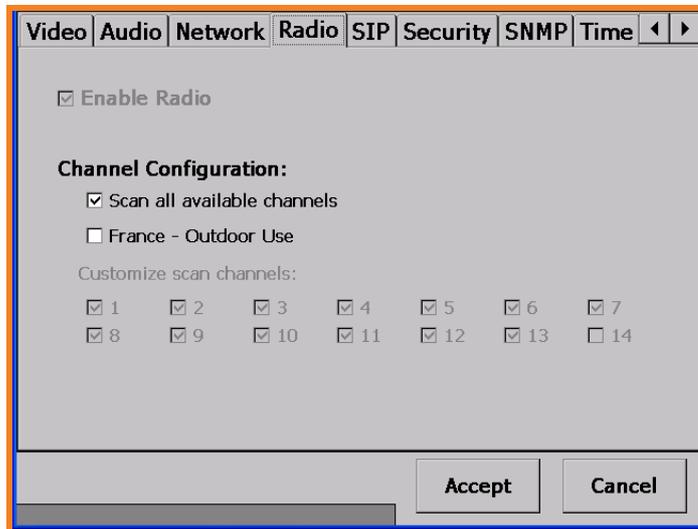


Figure 20: Radio Configuration

Software Ver 3.34 improves roaming performance between access points by 50%. This results in minimizing video dropout when the FieldView device is roaming.

**Note:** Disable “Aggressive Load Balancing” on Cisco Wireless LAN Controllers to allow reliable roaming. (Cisco makes the same recommendation when using Cisco Wireless IP phones).

### Security

Added support for WPA2 (Wi-Fi Protected Access – 2 = Enterprise) wireless security.

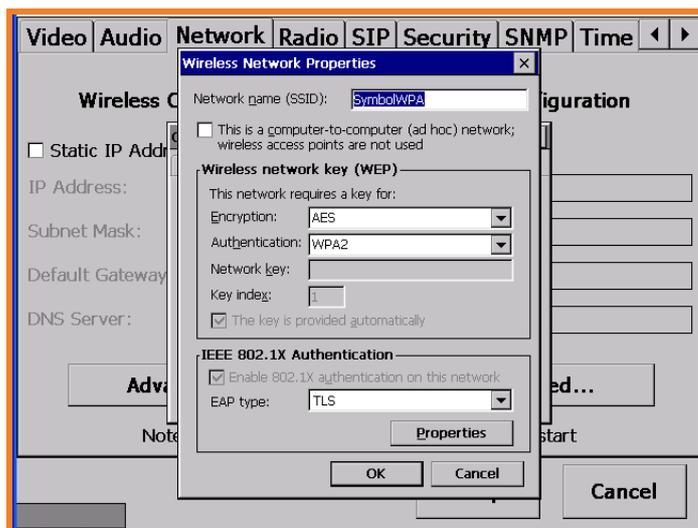


Figure 21: WPA2 Configuration

## User Interface

Improved network monitoring and reporting with the stream status in the FieldView Device user interface. This provides information about the prevailing network conditions and is available under Status Menu > Stream Status > View Statistics. Degraded network conditions are now detected and indicated with an exclamation mark '!' on the green "Media stream active" icon.

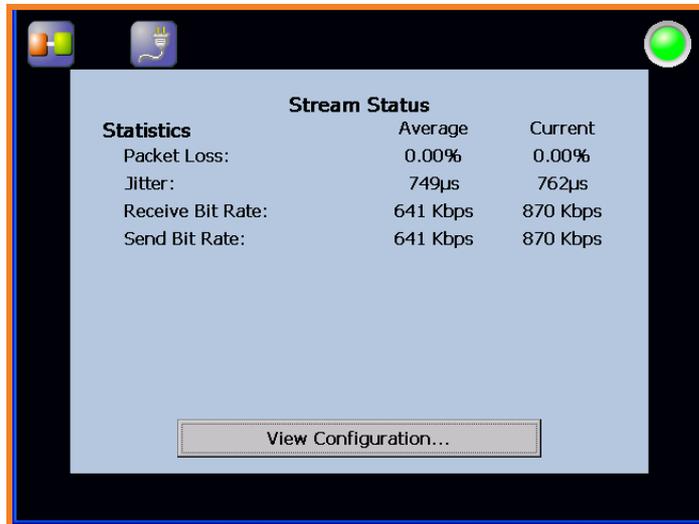


Figure 22: Stream Status

Added a maintenance configuration screen to the user interface of the FieldView Device that allows the user to change the password and also to import a predefined file of contacts and users to the device.

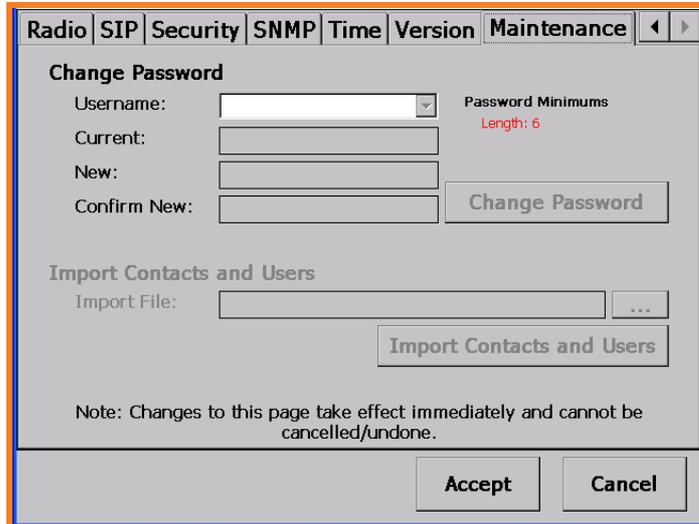


Figure 23: Maintenance Configuration

## Usability

Improved contact management that allows the user to create and manage local contacts from the User Interface of the FieldView Device.

**Note:** Administrator privilege is required for this function.

The screenshot shows a window titled "Local Contacts". On the left is a table with one column labeled "Name". To the right of the table is a form with the following fields: "Name:" (text input), "Address:" (text input), and "Group:" with two radio buttons labeled "Personal" and "Shared". Below these fields are three buttons: "New", "Edit", and "Delete". At the bottom of the window, there is a "Dial" button and a "Cancel" button.

Figure 24: Contact Management

Software Ver 3.34 is ready for future remote management using SNMP, which have been added to the User Interface of the device.

The screenshot shows a configuration window with tabs for "Video", "Audio", "Network", "Radio", "SIP", "Security", "SNMP", and "Time". The "SNMP" tab is selected. Under "SNMP Management:", there are the following fields: "Community:" with the value "public", three "Trap Receiver:" fields, and a "Permitted Manager:" field. A note at the bottom reads: "Note: Leave the permitted manager field blank to allow any host to manage this device". At the bottom right are "Accept" and "Cancel" buttons.

Figure 25: SNMP Configuration

Added the support for SDHC (Secure Digital High Capacity) memory cards.

**Note:** SD cards larger than 2GB are not compatible with the FieldView Device and may result in poor or improper performance. Use SDHC cards if capacity over 2GB is needed.

## Changes and Improvements since Previous Version

### Video

Corrected the issue in where the display could be blank when reset while set for PAL S-Video mode.

Corrected the possibility of the white balance changes not taking effect.

Added lower PAL S-Video frame rate choices.

### Network

Improved validation of SIP URI's

Corrected the validation of legal device names to prevent illegal DNS addresses.

Software 3.34 will now have all 802.11 radios channels enabled by default.

### Usability

Corrected the issue during software upgrades in where some settings would not be preserved.

Corrected the possibility of the pause\play state appearing incorrectly.

Corrected a possible issue in where the device could get into a frozen or locked up state which would require a reset.

Corrected the possibility of calls not connecting or quickly disconnecting.

General performance and stability improvements.

**Known Limitations**

<i>Equipment</i>	<i>Limitations</i>
TANDBERG FieldView Device Ver 3.34 (Touch Panel Calibration)	Currently this is no way to exit out of the touch panel calibration screen. Re-calibrate the screen to exit.
TANDBERG FieldView Device Ver 3.34 (Wired Ethernet)	Connecting an Ethernet cable to the FieldView Device while in standby mode could result in the network not being noticed. It is recommended that Ethernet is connected prior to powering on the FieldView device.
TANDBERG FieldView Device Ver 3.34 (Radio Channels)	The radio channels configuration will maintain there current setting after upgrading to Ver 3.34. All radio channels will be enabled by default on new FieldView Devices with Ver 3.34 or higher.
TANDBERG FieldView Device Ver 3.34 (Date & Time)	Changing the Date and Time during an active call will cause the call duration count to be incorrect. It is recommended to change the date and time when in an idle state.
TANDBERG FieldView Device Ver 3.34 (S-Video)	When using the S-Video input on the FieldView Device make sure to power up the other video source before switching to the S-Video input on the FieldView device.
TANDBERG FieldView Device Ver 3.34 (Video)	Changing the video type (NTSC \ PAL) while recording may result in distorted video. It is recommended to change the video type before recording.
TANDBERG FieldView Device Ver 2.40 (SD Card)	Currently if a call is established while recording to an SD card is in progress, audio will stop recording once the call connects. It is recommended to start the recording to the SD card after the call has connected.