



# Release Notes for Cisco StadiumVision Mobile Release 1.2.0

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**First Published: March 26, 2013**

[Table 1](#) lists the software build information for Cisco StadiumVision Mobile. [Table 2](#) lists the document revision history.

**Table 1** *Cisco StadiumVision Mobile Software Build Information*

Component	Release	Build
Cisco StadiumVision Mobile Reporter	1.2.0	507
Cisco StadiumVision Mobile Streamer	1.2.0	21
Cisco StadiumVision Mobile SDK	1.2.1	2341
Cisco StadiumVision Mobile Encoder	1.2.0	Software image 1.4.5.1045

**Table 2** *Document Revision History*

Date	Description
March 26, 2013	Initial release of Cisco StadiumVision Mobile Release 1.2.0.

## Contents

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## Introduction

This document provides information about Cisco StadiumVision Mobile Release 1.2.0. It includes hardware and software requirements, new and changed features, installation and upgrade information, known issues, and defects.

This document is for Cisco StadiumVision Mobile system administrators and Cisco technical field engineers who are responsible for designing and deploying the Cisco StadiumVision Mobile solution. Readers of this document should be familiar with basic IP networking, mobile, and Wi-Fi technology, and the Cisco StadiumVision Mobile solution.

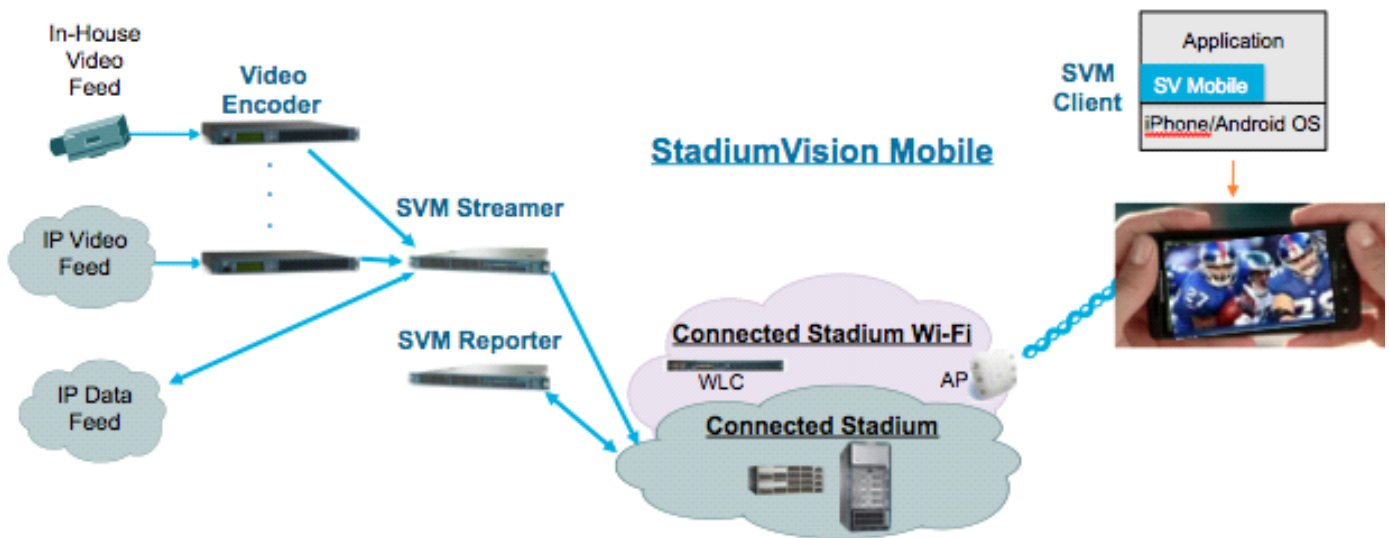
## Cisco StadiumVision Mobile Solution Overview

The Cisco StadiumVision Mobile solution enables reliable delivery of low-delay video and data streams to virtually all Wi-Fi devices at crowded venues.

The Cisco StadiumVision Mobile solution is built upon the Cisco Connected Stadium and Cisco Connected Stadium Wi-Fi solutions. [Figure 1](#) illustrates the Cisco StadiumVision Mobile overall topology.

The solution consists of a video encoder, a streamer server, a reporter server, a mobile client, and a Software Development Kit (SDK).

**Figure 1** Cisco StadiumVision Mobile Topology



## System Requirements for Cisco StadiumVision Mobile Release 1.2.0

This section describes the hardware and software supported by the Cisco StadiumVision solution for Cisco StadiumVision Mobile Release 1.2.0. It includes the following topics:

- [Cisco StadiumVision Mobile Requirements, page 4](#)
- [Cisco Connected Stadium Configuration Requirements, page 4](#)
- [Cisco Connected Stadium Wi-Fi Requirements, page 4](#)
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## Cisco StadiumVision Mobile Requirements

Table 3 lists the components of the Cisco StadiumVision Mobile solution.

**Table 3** *Cisco StadiumVision Mobile Components*

Component	Function
Cisco StadiumVision Director	Centrally manages and targets delivery of customized video, team and sponsor promotions, and relevant event information to any combination of monitors throughout a venue
Cisco Connected Stadium Wi-Fi	Provides scalable, high density Wi-Fi coverage within a venue.
Encoder	Provides encoding of in-house and commercial broadcast feeds for streaming to mobile devices. Feeds can be HD-SDI or IP multicast.
Cisco StadiumVision Mobile Streamer License and Platform	Responsible for aggregating and protecting video and data streams for reliable delivery over the Wi-Fi network.
Cisco StadiumVision Mobile Reporter License and Platform	Collects mobile device statistics covering network performance, Quality of Experience (QoE), and session information. Aids in tuning and troubleshooting the Wi-Fi network and identifying popular content.
Client Software Developer Kit (SDK)	Abstracts complexity of discovering, recovering and playing streaming video. Includes a rich set of tools to enable third party developers to quickly create and test applications.

## Cisco Connected Stadium Configuration Requirements

The Cisco Connected Stadium solution must be configured to support Cisco StadiumVision Mobile, including:

- Routing to explicitly permit Cisco StadiumVision Mobile announcements over multicast, Cisco StadiumVision Mobile video sessions and Cisco StadiumVision Mobile data sessions.
- Rendezvous Points (RPs) to enable the delivery of Cisco StadiumVision Mobile multicast streams to Wi-Fi endpoints.
- Access Control Lists (ACLs) to limit the propagation of unwanted (e.g., IPv6) and client-generated multicast streams.

## Cisco Connected Stadium Wi-Fi Requirements

Cisco StadiumVision Mobile requires a Connected Stadium Wi-Fi network for transport. Please visit [www.cisco.com/go/sports](http://www.cisco.com/go/sports) for additional information.

## Browser, Flash Player, and Java Support for Cisco StadiumVision Mobile Reporter and Cisco StadiumVision Mobile Streamer

You can use an Apple Mac, Microsoft Windows PC, or an Apple iPad to access the Cisco StadiumVision Mobile Streamer configuration and Cisco StadiumVision Mobile Reporter marketing and support data. The StadiumVision Reporter configuration Text User Interface (TUI) can be accessed by any SSH client, or by physical console access. [Table 3](#) describes the method of access.

**Table 4** *Cisco StadiumVision Mobile Component Access Methods*

Cisco StadiumVision Mobile Component	Access method	Type of data
Cisco StadiumVision Mobile Reporter	TUI - console access, SSH client	Configuration
Cisco StadiumVision Mobile Reporter	GUI - browser	Marketing and support
Cisco StadiumVision Mobile Streamer	GUI - browser	Configuration
Cisco StadiumVision Mobile Streamer	CLI - console access, SSH client	Configuration

### Java Support

To remotely access CIMC for the software installation, your computer must meet the minimum browser and Flash player requirements for Cisco StadiumVision Mobile, and also have Java 1.6 or later installed.

### Browser Support

[Table 5](#) describes the browser software versions that have been tested with Cisco StadiumVision Mobile Release 1.2.0.



#### Note

Unless specifically identified as unsupported, other browser versions might work, but their compatibility with Cisco StadiumVision Mobile cannot be assured.

**Table 5** *Tested Browser Software*

PC or Laptop OS	Browser Version <sup>1</sup>	Flash Player
Apple Mac OS X	<ul style="list-style-type: none"> <li>Google Chrome Version 24.0</li> <li>Mozilla FireFox Version 18.0.1</li> </ul>	Adobe Flash Player Version 11.5.502.146
Microsoft Windows (Windows 7)	<ul style="list-style-type: none"> <li>Google Chrome Version 24.0</li> <li>Microsoft Internet Explorer Version 9</li> <li>Mozilla FireFox Version 18.0.1</li> </ul>	Adobe Flash Player Version 11.5.502.146

- No additional browser software is tested other than what is listed in this table (for example, not Apple Safari). However, other browser software might work.

## Cisco StadiumVision Mobile Server Support

Table 6 describes the Cisco StadiumVision Mobile server hardware and software supported in Cisco StadiumVision Mobile Release 1.2.0.

**Table 6 Supported Cisco StadiumVision Mobile Hardware and Software**

Description	Hardware Product ID	Minimum Software Version	Minimum CIMC/BIOS Firmware
StadiumVision Mobile Streamer (Cisco UCS C220)	SV-M-STREAMER-K9	Cisco StadiumVision Mobile Release 1.2.0	Cisco CIMC firmware 1.4(6d) <sup>1</sup>
StadiumVision Mobile Reporter (Cisco UCS C220)	SV-M-REPORTER-K9	Cisco StadiumVision Mobile Release 1.2.0	Cisco CIMC firmware 1.4(6d) <sup>1</sup>
StadiumVision Mobile Streamer (Cisco UCS C200)	SV-M-STREAMER	Cisco StadiumVision Mobile Release 1.2.0	N/A
StadiumVision Mobile Reporter (Cisco UCS C200)	SV-M-REPORTER	Cisco StadiumVision Mobile Release 1.2.0	N/A

1. Minimum tested CIMC firmware version for Cisco StadiumVision Mobile Release 1.2.



**Note**

For more information about verifying and upgrading the Cisco UCS Server firmware, see the [Confirming the CIMC Firmware Version, page 11](#).

## New Information in Cisco StadiumVision Mobile Release 1.2.0

This section describes new features, enhancements and changes in support or behavior in Cisco StadiumVision Mobile Release 1.2.0. It includes the following sections:

- [StadiumVision Mobile Client, page 7](#)
- [StadiumVision Mobile Streamer, page 7](#)
- [StadiumVision Mobile Reporter, page 8](#)
- [StadiumVision Mobile Encoder, page 8](#)
- [Installation Notes, page 9](#)
- [Using Output Triggers with Cisco StadiumVision Director, page 9](#)
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- [Restart SVM Service on the Reporter after changing the server timezone in the TUI, page 10](#)
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## StadiumVision Mobile Client

Cisco StadiumVision Mobile Release 1.2.0 introduces the StadiumVision Mobile Client and StadiumVision Mobile Client SDK.



### Note

The Cisco StadiumVision Mobile SDK is made available by special agreement. Contact your Cisco Systems representative for more information.

- The StadiumVision Mobile Client is embedded in iOS and Android mobile applications.
- The StadiumVision Mobile Client functionality includes automatic session discovery, reception and recovery of multicast data and video streams, playout of video sessions, delivery of data objects, and periodic updating and uploading of client statistics.
- The StadiumVision Mobile Client SDK is integrated and configured to discover and play Cisco StadiumVision Mobile streams.

## StadiumVision Mobile Streamer

Cisco StadiumVision Mobile Release 1.2.0 introduces the Cisco StadiumVision Mobile Streamer, which has the following features:

- The Cisco StadiumVision Mobile Streamer aggregates video and data content, generates repair packets (used by clients in recovering dropped packets), and sends all streaming sessions to the Connected Stadium network for delivery over the Connected Stadium Wi-Fi network to Cisco StadiumVision Mobile enabled mobile devices.
- Uses multicast over Wi-Fi to scale live video to mobile devices in high-density environments.
- Multicast over Wi-Fi scalable data distribution enhances the fan experience by enabling live statistics updates, trivia contests, multiplayer games, and more.
- Through its unique transport protection, helps to ensure reliable delivery of video and data to tens of thousands of wireless devices.
- Uses dynamic service announcements to provide users with immediate access when content or channels are changed on the fly.
- Through Content Access Control, helps to ensure that it is only your application has access to your content.
- Periodically reports detailed Streamer metrics back to the StadiumVision Mobile Reporter, providing easy-to-understand analysis of how content affects client activity.
- Integration with Cisco StadiumVision Director Release 3.1 to add the following features:
  - External content ingestion
  - Event triggering
  - Video ad insertion trigger

## StadiumVision Mobile Reporter

Cisco StadiumVision Mobile Release 1.2.0 introduces the Cisco StadiumVision Mobile Reporter, which has the following features:

- The Cisco StadiumVision Mobile Reporter provides visibility into the Wi-Fi multicast network performance, Cisco StadiumVision Mobile client performance, and general user experience.
- The Cisco StadiumVision Mobile Reporter collects statistics periodically sent by Cisco StadiumVision Mobile Clients and uploads these statistics into a local database.
- The Cisco StadiumVision Mobile Reporter functionality includes automatic real-time analysis of uploaded statistics and support for integrated analytics.
- The Cisco StadiumVision Mobile Reporter is intended to be used for collection of statistics for export and external analysis which can be used for troubleshooting failures.
- Collects metrics from the entire population of mobile devices in order to objectively measure and report on the overall fan experience.
- Provides marketing with compelling usage charts that are easy to share with potential sponsors, with the potential to increase ad and sponsorship sales.
- Provides data analysis that identifies and flags potential experience-quality issues, with relevant clues and possible causes provided in order to help IT diagnose and resolve the issue.
- Role-based access control (RBAC) allows appropriate Reporter access to be provided to each of the engineering and marketing organizations, without security being compromised.
- Aggregates data from year-to-date events into season reports, thereby providing marketing and engineering staff with a powerful tool for identifying behavioral and experience-quality trends.
- Provides easy upload of the entire season's event schedule to help ensure that reporting capabilities are always ready to go when the doors open.
- Provides automated scheduled archiving and removal of the raw data in the Cisco StadiumVision Mobile Reporter.

## StadiumVision Mobile Encoder

Cisco StadiumVision Mobile Release 1.2.0 introduces the Cisco StadiumVision Mobile Encoder, which has the following features:

- The Cisco StadiumVision Mobile encoder is an Elemental Technologies product optimized for Cisco StadiumVision Mobile.
- Accepts HD-SDI or IP feeds and encodes the content for bit rates and resolutions suitable for mobile devices.
- Creates video streams that may be sent with or without audio.
- Delivers the output video stream as a low delay multicast stream.
- Receives, prepares, and sends up to 4 video streams for consumption by the Cisco StadiumVision Mobile Streamer.
- Compresses the streams to support decoding on mobile devices.
- Reduces bitrates to fit into the Wi-Fi bandwidth requirements.
- Lowers Resolution for faster decoding and less stress on SW decoder.
- Takes in embedded audio over HD-SDI along with the video stream.
- Takes in IP MPEG-2 SD/HD or MPEG-4 SD/HD over MPEG-TS.



- Ships with the Cisco certified encoder image 1.4.5.1045.



**Note**

Cisco StadiumVision Mobile uses a special Elemental software release. Do not upgrade the software with every new Elemental release. The Cisco StadiumVision Mobile release has a low latency feature (relative to the standard Elemental release) and Cisco StadiumVision Mobile presets.

## Using Output Triggers with Cisco StadiumVision Director

For more information on configuring output triggers with Cisco StadiumVision Director, refer to the *Configuring Cisco StadiumVision Director for External Triggers, Release 3.1* document.

## Installation Notes

This section includes the following installation information:

- [Installation and Upgrade Files, page 9](#)
- [If you are receiving a Cisco StadiumVision Mobile server for the first time, page 10](#)
- [Recommended Web Browser, page 10](#)
- [Elemental Encoder Setup, page 10](#)
- [Elemental Encoder Setup, page 10](#)

## Installation and Upgrade Files

Cisco StadiumVision Mobile software is available in different types of files based on the installation or upgrade environment, as shown in [Table 7](#) and [Table 8](#).

**Table 7** *Cisco StadiumVision Mobile—Fresh Installation*

Product	Platform	File to Use	Media
<b>Cisco StadiumVision Mobile Streamer</b>	Cisco UCS C200	Full ISO	DVD
	Cisco UCS C220		CIMC remote mount
<b>Cisco StadiumVision Mobile Reporter</b>	Cisco UCS C200	Full ISO	DVD
	Cisco UCS C220		CIMC remote mount

**Table 8** *Cisco StadiumVision Mobile—Upgrade*

Product	Platform	File to Use	File upload	Initiate Upload
<b>Cisco StadiumVision Mobile Streamer</b>	Cisco UCS C200	Upgrade	scp (secure copy)	UNIX shell
	Cisco UCS C220	ISO		
<b>Cisco StadiumVision Mobile Reporter</b>	Cisco UCS C200	Upgrade	Browser	TUI <sup>1</sup>
	Cisco UCS C220	ISO		

1. For upgrade instructions using the web browser UI, see the [“Upgrading StadiumVision Mobile Reporter Using the Web Browser User Interface”](#) section in the *Cisco StadiumVision Mobile Reporter and Cisco StadiumVision Mobile Streamer Installation and Upgrade Guide*.

**Table 9**

When upgrading the Cisco StadiumVision Mobile Streamer, consider the following points:

- Upgrades between Cisco StadiumVision Mobile Release 1.0 and 1.1 or 1.2 require a full ISO installation upgrade with full OS re-imaging via CIMC for the Cisco UCS C220.
- Streamer builds within Release 1.2 can use RPM upgrades on both the Cisco UCS C220 and Cisco UCS C200.
- Upgrades are performed in the same manner for the Cisco StadiumVision Mobile Streamer on the Cisco UCS C220 and Cisco UCS C200 starting with Cisco StadiumVision Mobile Release 1.2.0-13.

For detailed instructions on installing or upgrade the Cisco StadiumVision Mobile Reporter or Cisco StadiumVision Mobile Streamer software, see the [Cisco StadiumVision Mobile Reporter and Cisco StadiumVision Mobile Streamer Installation and Upgrade Guide](#).

## If you are receiving a Cisco StadiumVision Mobile server for the first time

A fresh installation should be performed only if the pre-installed version number is lower than the following versions:

- Cisco StadiumVision Mobile Streamer: 1.2.0-21
- Cisco StadiumVision Mobile Reporter: 1.2.0-507

## Restart SVM Service on the Reporter after changing the server timezone in the TUI

After setting the server timezone, always restart the `svmreporter` service by using the Stop and Start options in the [StadiumVision Mobile Reporter Services](#) menu.

## Upgrading a Cisco StadiumVision Mobile server and timezone configuration loss

If you upgrade a Cisco StadiumVision Mobile server, the timezone configuration is lost and will need to be reconfigured. See the *Cisco StadiumVision Mobile Streamer Administration Guide* or the *Cisco StadiumVision Mobile Reporter Administration Guide* for instructions on setting the time zone.

## Recommended Web Browser

See the [“Browser, Flash Player, and Java Support for Cisco StadiumVision Mobile Reporter and Cisco StadiumVision Mobile Streamer”](#) section on page 5.

## Elemental Encoder Setup

The Elemental Technologies encoder ships with four Cisco StadiumVision Mobile presets. For the initial setup, the Elemental encoder will need to have the IP address set, as well as have the firewall disabled. Refer to the *Elemental Live User Guide* that ships with the encoder for installation and configuration procedures. Also see the *Cisco StadiumVision Mobile Design and Implementation Guide* that is available through your Cisco Systems sales representative.

## Confirming the CIMC Firmware Version

When installing Cisco StadiumVision Mobile on a Cisco UCS C220 server, refer to “Appendix A: CIMC Configuration and Firmware Upgrade Guidelines on the Cisco UCS C220 Server” in the *Cisco StadiumVision Mobile Reporter and Cisco StadiumVision Mobile Streamer Installation and Upgrade Guide* to verify the CIMC firmware version prior to installation.

## Limitations and Restrictions

When using Cisco StadiumVision Mobile Release 1.2.0, be aware of the following limitations and restrictions:

- Upgrading from Cisco StadiumVision Mobile version 1.0 to a later version is not supported; a fresh installation must be performed.
- The Cisco StadiumVision Mobile Reporter supports a single season only.
- The Cisco StadiumVision Mobile Streamer supports content access control for multiple owners. However, the Cisco StadiumVision Mobile Reporter does not provide reporting on a per content owner basis.
- The Cisco StadiumVision Mobile Streamer redundancy can be provided via a warm standby secondary server only. There is no automated failover or redundancy.
- The Cisco StadiumVision Mobile Reporter redundancy can be provided via a warm standby secondary server only. There is no automated failover or redundancy. Also, no data replication occurs between the primary and secondary reports.

## Important Notes

This section includes other important information about the Cisco StadiumVision Mobile solution that you should know for optimal operation.

## Bypassing the DCM (Digital Content Manager) when using the Elemental Encoder

When using encoded or IP feeds from Elemental, it is recommended to bypass the DCM in both new and existing StadiumVision Mobile installations. Failures and freeze frames are being seen when using the Elemental encoder.

If feeds are received from the DCM and then re-encode them, this should not pose an issue as long as the feed does not traverse the DCM again on Elemental output.

## Disk Utilization on the Elemental Encoder

**Symptom** When one or more SDI events remain active after the source is removed, the internal AJA converter complains continuously. Logrotate is not working properly, resulting in two log files growing until they fill the disk (Logrotate should cap the number and size of log files).

1. From a terminal enter the following command:

**\$df**

2. If "Use%" for LogVol00 is above 50%, the log files are likely to blame. To confirm this, enter the following command:

**\$ls -al /var/log**

If the kernel.log and/or messages files are greater than 1GB, the log rotate fix needs to be implemented.

3. Edit the syslog file to limit the size of the log files using the following command; insert size=250M before the line with sharedscripts.

**\$sudo nano /etc/logrotate.d/syslog**

4. Execute the following command to delete the large rotated files (unless you believe there is valuable debug information in the log messages). If you need to retain the debug information, first copy the files to a safe location and then delete them.

**\$sudo rm -f kernel.log.\* messages.\***

5. Confirm the files have been deleted by executing the following command:

**\$ls -al /var/log**

**Issue Prevention:**

The best way to prevent this issue is to edit the syslog file (as described above) when the Elemental box is first installed.

## Elemental Encoder Freeze when input video format changes

A best practice is to reset a video encoding event if the format of the video input changes,(e.g., video rate, resolution, frame rate). The user should reset the elemental encoding event once the source video input for that event is stable. Initially, a running event may have an inactive HD-SDI feed that is later made active. The encoder event should be reset once the feed has been configured and is stable.

# Caveats

- [Open Defects in Cisco StadiumVision Mobile Release 1.2.0, page 13](#)

## Open Defects in Cisco StadiumVision Mobile Release 1.2.0

This section lists the open defects for Cisco StadiumVision Mobile Release 1.2.

### Cisco StadiumVision Mobile Reporter

#### **CSCue47519—Missing error when duplicate event names are in uploaded event schedule**

**Symptom** An event schedule with two events with the same name is uploaded.

**Workaround** Ensure that the event schedule does not contain events with the same name.

#### **CSCue47532—Missing error when overlapping event time are in uploaded in event schedule**

**Symptom** An event schedule with overlapping event times is uploaded.

**Workaround** Ensure that the event schedule does not contain events with overlapping schedules.

#### **CSCue47543—Summary charts dates correspond to event ending date instead of start date**

**Symptom** The Summary reports indicate the event end dates instead of the event start dates.

**Workaround** There is no workaround. This is an informational caveat.

#### **CSCue47558—TUI cannot run ISO upgrade if over eight ISOs are in upgrade directory**

**Symptom** An upgrade cannot be executed if there are more than eight ISO images in the upgrade directory.

**Workaround** Remove ISO image(s) so you have less than eight total ISOs in the directory, then repeat the upgrade steps.

#### **CSCue47572—Characters in multi-line channel names can overlap**

**Symptom** Lines of text can overlap in multi-line channel names in chart.

**Workaround** There is no workaround. This is an informational caveat.

**CSCuf86307—Cisco StadiumVision Mobile Reporter needs to be restarted after setting NTP time with TUI**

**Symptom** The server time zone does display the correct time zone after setting the NTP time with the TUI.

**Workaround** Restart the svmreporter service as noted in the [“Restart SVM Service on the Reporter after changing the server timezone in the TUI”](#) section on page 10.

**CSCuf90233—Timezone configuration gets lost after upgrading reporter**

**Symptom** After performing a Cisco StadiumVision Mobile Reporter software upgrade, the timezone configuration is lost.

**Workaround** Reconfigure the time zone using the procedure in the *Cisco StadiumVision Mobile Reporter Administration Guide*.

**Cisco StadiumVision Mobile Streamer****CSCuf77029—Stream announcement not compatible with configured triplet**

**Symptom** Some channel announcements are incompatible with the configured triplet.

**Workaround** Set the license key in a precise order:

1. Select the Defaults tab. Click Change Venue Name and change venue name. This will take you back to the main page.
2. Select the Defaults tab. Click Add New next to Content Owner/App developer. Enter new license. This will take you back to the main page.
3. Select the Defaults tab. Make sure factory Content Owner/App developer is selected. Click delete. This will take you back to the main page.
4. Click Save Configuration.



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**Note** Failure to click Save Configuration will create sessions with a mixed license key.

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## Installation Requirements for Licensing Compliance

To maintain software licensing compliance, Cisco StadiumVision Mobile servers must be installed in the following manner:

- The Cisco StadiumVision Mobile Reporter or Cisco StadiumVision Mobile Streamer server is installed in a data center or in an enterprise data closet.

## Related Documentation

For information about the specific configuration requirements, see the *Cisco StadiumVision Mobile Design and Implementation Guide* that is available through your Cisco Systems sales representative.

For more information about Cisco StadiumVision Mobile hardware and software installation, configuration, and operation, see the Cisco StadiumVision Mobile documentation available on Cisco.com at: [http://www.cisco.com/en/US/products/ps11274/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps11274/tsd_products_support_series_home.html)

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

### Cisco StadiumVision Mobile Documents

- [Cisco StadiumVision Mobile Reporter and Cisco StadiumVision Mobile Streamer Installation and Upgrade Guide](#)
- [Cisco StadiumVision Mobile SDK Guide for Apple iOS and Google Android, Release 1.2](#)
- [Cisco StadiumVision Mobile Reporter Administration Guide](#)
- [Cisco StadiumVision Mobile Streamer Administration Guide](#)

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