



GV 3.0™

**New Features and Bug Fixes
Build 965**

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INTRODUCTION

This document describes the new features and bug fixes completed by PAR Government Systems Corporation (PAR Government) in support, enhancement and distribution of GV 3.0™, Build 965.

New Features and Bug Fixes

The following provides a list of the new features and bug fixes completed for the Build 965 release:

1. Joint Interoperability Test Command (JITC) Certification #3020 until 05 May 2013
2. Security Technical Implementation Guide (STIG) Hardening Compilation of platform binaries:
 - a. Under STIG hardening, violations of these rules may cause the viewer to close unexpectedly. This is a difference in behavior when compared to previous versions of the viewer.
3. Installation:
 - a. From time to time, vulnerabilities are identified in the Java Runtime Environment (JRE) which requires the installation of a Java upgrade. This was previously not an easy undertaking as GV 3.0 comes with its own JRE. This release of GV adds ability to upgrade minor Java versions after deployment.
4. Plug-Ins:
 - a. The user can now launch the Video Editor application from within GV 3.0
5. Streaming Videos:
 - a. Improved buffering performance with streaming videos. This addresses growing slowness of seeking within streaming as buffer grows.
 - b. Fixed issue with Real Time Streaming Protocol (RTSP) and Streaming Data Protocol (SDP) streaming that did not allow the reopening of a stream that was previously closed on the same GV 3.0 session.
 - c. Added progress bar when opening streaming video.
6. Streaming JPEG2000:
 - a. Fixed a regression with missing descriptive fields “Streaming Image Data Source” and “Bytes Transferred” when streaming JPEG2000

7. Flipbook:

- a. Updated Flipbook to disregard some problematic frames during playback.

8. Annotations:

- a. Fixed several minor issues with the behavior of video annotation grouping, moving and placement.

9. Video Playback:

- a. Added progress bar during video slicing.
- b. Added features to better examine video streams and allow the user to select the desired video/metadata in a stream with multiple videos present and multiple metadata tracks present.
- c. Added ability to identify and display the classification of videos before playback begins and when using the slider bar to advance the video.

10. Video Concatenation:

- a. Added ability to concatenate more video file types (.avi, .mov)

11. Preferences:

- a. Now using System Classification preference settings as a default when extracting frames from videos without a known classification.
- b. Resolved an issue related to the use of the preference for sorting the GV Layers Browser.
- c. Added a preference for the number of Levels of Undo and Redo. This applies to both still images and videos.
- d. Added a preference to disable frame dropping. This can be used to ensure no video details are missed as every frame will be played. This may be needed if the computer hardware being used can not keep up with decoding the video in real time; however, using this option may cause the playing of a video to lag behind real time. This is especially relevant when using the application to watch a live video stream.
- e. Added a preference to set the number of seconds of Key Length Value (KLV) data to scan and find the Classification for Frame export. If the classification can not be found within the specified limit, the system default preference will be used.
- f. Added a preference to indicate if the application should Transcode Exploitation Support Data (ESD) Closed-Caption Metadata to MISB 0601 Metadata when saving video annotation in a video with no KLV track

Currently Known Issues

The following provides a list of the known issues associated with GV 3.0 Build 965:

12. General:

- a. Hardware acceleration is not provided by GV 3.0 on Vista or Windows 7. Build 970 should provide hardware acceleration support for Windows 7.

13. Streaming Videos:

- a. SDP or RTSP – snapshot or Auto Save frame to NITF is not available.
- b. Streaming using URL address is not available.
- c. Slice feature for streaming with SDP or RTSP is not available.

14. Annotations:

- a. The ability to undo and redo activities, related to annotations in videos can be less than intuitive at times. This will be addressed in the next release.

15. Video Playback and Saving:

- a. Unchecking Crop the crop option in advanced settings still saves video as cropped. The suggested workaround is to Clear the crop area first before saving the video
- b. Currently, the application will not Save or Slice HAVIS videos when crop area and annotations are present.