



## NAMFS Industry Video Standard

### Detail

The vendor must know:

1. acceptable video file formats
2. video resolution required
3. video maximum recording time
4. video file size limits
5. frame rate details
6. any web browser requirements to transfer video files to portal
7. any specific instructions to successfully upload a video file
8. what video file formats must be converted by the vendor before upload

### NAMFS Standard Solution

#### Video file specification prior to uploading to Client/National portal

Video can be captured in a variety of formats, including MOV, 3GP and other popular cell phone video standards. If third party software is not used to automatically transfer video captured to the Client portal in the proper format, the Client portal after file upload, ideally, will resize a set of popular video formats into a single format compatible with the NAMFS guidelines [below](#).

If the Client/National portal does not resize/reformat the video to the proper specifications, the vendor will need to use resizing/reformatting tools prior to video upload. This is similar resizing/reformatting high resolution digital photos to 640x480 pixels. Some Client/Nationals who provide photo upload portals will automatically resize and/or reformat larger photos, some do not. Those that do not will typically reject improperly sized photos. There are many cases where Clients/Nationals expect the vendor to resize/reformat all photo files prior to portal upload, and the same would likely be true to the vendor who needs to upload video files.

Initially to keep technical requirements for clients to a minimum and simplify video playback:

- Video must be captured and uploaded in landscape (horizontal) mode
  - Portrait [\(vertical\) video upload is NOT allowed](#)

- If video is captured vertically the video must be letterboxed prior to upload for horizontal playback after client approval
- Video file must be converted to MP4 format prior to client portal upload
- Video Codec must be H.264
- Video file must be SD resolution 640x480 4:3 ratio (VGA) to simplify client playback
- Video file must not exceed 2MB in size to minimize storage requirements. This typically is less than 30 seconds of video in SD format.
- Frame rate must be a maximum of 30 Frames per Second to simplify playback and reduce file size
- Frame rate must be a minimum of 24 Frames per Second to improve playback for small files
- Frame rate must not be variable to simplify playback
- Video playback time must not exceed 30 seconds to prevent long review time during playback

## Client video upload web page requirements

- Client to provide an upload page for example ([https://\[client\\_target\\_URL\]/upload](https://[client_target_URL]/upload))
- The page must support secure vendor login
- The page must allow video file to be associated with a related client work order
- The page must support uploading a video file using the current Google Chrome browser without any additional software or browser extension(s) or plug-in tools.

## Sharing Video URL links

- To simplify video playback, a video URL could be provided by the vendor to the client order that securely provides access to the related video file properly formatted. This has many issues (storage, access, security, costs, etc.) and is not addressed in this RFC.

## Third party software support

Third party software vendors who support this NAMFS specification may provide tools to assist vendors to comply with client requirements.

- Software vendor(s) may provide:
  - A web page or other method to allow certain video format(s) to be converted into a client compatible video file format
  - Allow video files collected via a third party mobile app to be converted into the proper client video file format
  - Securely relay the compatible video file to proper work order issued by client's order system(s)

See NAMFS third party software provider documentation on supported Video formats that can be converted to client video format automatically or any mobile app(s) provided that can perform tasks automatically. Software providers may provide higher resolution video capture and storage at their option (Full HD and HD for example), and keep both high resolution (Full HD, HD), and have tools to automatically resize those videos to standard resolution (SD) to support NAMFS guidelines

## References

- Tools for converting various video formats to MP4 (SD Format)
  - Example of a format converter <https://www.vlchelp.com/convert-video-format/>
  - Example of an Online File Converter <https://www.zamzar.com/>
  - Converting Full HD or HD Video to SD Video (Google search)

- Converting SD video to HD is not recommended. <https://www.videosolo.com/tutorials/convert-sd-to-hd.html>
- Vimeo Video Upload specs: [https://vimeo.zendesk.com/hc/en-us/articles/229838988\\_provides\\_a\\_list\\_of\\_popular\\_video\\_formats\\_that\\_are\\_acceptable\\_for\\_Vimeo\\_portal\\_upload](https://vimeo.zendesk.com/hc/en-us/articles/229838988_provides_a_list_of_popular_video_formats_that_are_acceptable_for_Vimeo_portal_upload)
- Tools for converting Vertical Video to Horizontal Video: <https://www.reddit.com/r/iphone/comments/a8z5i0>