

Memorandum

To: Everyone
CC:
From: Scott Wills, Director of Engineering, WATC-DT
Date: 7/11/2016
Re: Digital File Submission Media Specifications

Digitally submitted programs should be in the following format:

HD Content

XDCAM 35 profile.

Video: 35 MB/sec, 1440 x 1080i or 1920 x 1080i, Long GOP 15 in an OP-1a MXF wrapper. Frame rate must be 29.97 fps, upper or even field first. Aspect ratio must be 16x9. Chroma Subsampling should be 4:2:0. Closed captions should be embedded in DTVCC 608 / DTVCC 708 format.

SD Content

XDCAM 12 or 17 Profile

Video: 12 or 17 MB/sec, 720x480i or 720x512i, Long GOP 15 in an OP-1a MXF wrapper. Frame rate must be 29.97 fps, upper or even field first. Aspect ratio must be 4x3. Closed captions should be embedded in DTVCC 608 / DTVCC 708 format. Please note that if you submit shows that are anamorphic OR letterboxed, they will air exactly as you sent them to us with black borders or incorrect aspect ratio. WATC cannot be held responsible for incorrectly encoded content.

ALL SUBMISSIONS

Audio: AIFF encoding, 24 bit, 2 channels. Audio level must meet FCC CALM Act requirements at -24db LKFS with peaks not to exceed -12dBFS. (Please note that tone on your editing program should be set at -20dBFS which equates to the old analog 0vU. Going above this level greatly increases your chance of distortion.)

July 11, 2016

FILE NAMING

File names should follow the following format: **ShownameAirDate.mpg** Airdate must be in the form of 2 digit year, 2 digit month, 2 digit day; ie, **August 6, 2013** would be **130806**. WATC will notify you of the filename we need for your show as we are limited in the number of characters we can use. Certain uploads may substitute production numbers for air dates upon request.

All shows should be in **Ready to air** format, meaning there are no color bars or black at the beginning and no extra black at the end of the show. Show length should be 28:30:00 exactly, or 58:30:00 exactly, unless a different length is contracted for.

If in doubt that your file meets these specs, please clip off 30 seconds of the show open, 30 seconds of the message segment of the show representative of a loud passage, 30 seconds of any music segments and a representative clip of any interstitial elements such as church events and upload it to us. We will be glad to review it to see if it meets our technical specs. Please note these are broadcast industry standard levels and while the audio levels may seem low, they **must** be adhered to.

DVD in the highest quality mode possible. Blu-rays are encouraged if you want your show to air in true high definition.

If the DVD is authored using one of the many authoring programs available, make sure it is in **NTSC** mode (picture size 720 x 480, **NOT** 720 x 576), color bars and 2 channels of tone should appear as chapter 1, with the start of the show appearing as chapter 2.

As DVD media varies widely in quality, we strongly recommend not burning the DVD at the maximum burn speed, but drop back at least 1 speed below maximum and if possible, do a verify. Most burning programs will allow this.

Please do not restrict the ability to rapid scan or search through the DVD, as this will prevent us from fixing problems that occasionally can occur.

The DVD label should contain the title of the show, the air date or episode number, and the correct length of the show.

WATC cannot be held responsible for content aired incorrectly due to test signals not matching program material.