

GUIDELINES FOR ALL THIRD PARTIES

The following guidelines must be adhered to on Univision properties:

- · All pixels, cookies, scripts or other tracking technology must be disclosed and pre-approved prior to running.
- Any collection of Personally Identifiable Information (PII), browsing history, or other information is strictly prohibited.
- · If permission is granted, the use of mechanisms that store or retrieve data on Univision com must comply with the Privacy Policy.
- · Per Univison's Policy, we do not accept blocking tags.
- · Univison does not allow the passing of users IP address via macro

Cookies

- If permission is granted, the domain owner of the cookie must supply Univision with a link to the end-user Privacy Policy.
- This Privacy Policy must contain clear instructions on the process to opt out of the domain owner's services controlled by that cookie (files that are stored on user's computers and identify that computer).
- No cookie may be used for the purposes of retargeting, behavioral remarketing, or targeting any advertisements, segment categorization or any form of syndication related to Univision, its content, or its users without prior written approval as described above.
- All applications of interest-based advertising must be fully OBA compliant, displaying all required notifications and opt-out mechanisms. All cookies must contain a functioning expiration date and expire less than 120 days from the time the cookie is set.

Unless otherwise specified in the contract and insertion order:

- · Data collected may not be re-sold, re-used, or re-distributed in any form, including as part of aggregated or anonymized data sets, to any other party.
- · Data collected may not be used for retargeting messages to users on other websites.
- Third parties may not capture data for subsequent ad segmentation or cookie pools.

Additionally, advertisers that use a remarketing or data collection pixel must follow all applicable privacy/data laws and industry accepted best practices including, but not limited to, the following:

- · Publish a privacy policy on your website that includes a clear and appropriate description of how your advertising pixels may be used.
- Display a message with your advertising that indicates how third-parties may place and use pixels to show interest-based ads to your visitors on sites across the Internet (e.g. AdChoices)
- Ads collecting or utilizing remarketing or data collection pixels must be fully OBA compliant and provide opt-outs on all advertising units associated with this campaign.
- Not pass any personally identifiable information (PII) about users including but not limited to, names, email addresses, physical location, mailing address, device ID,
- telephone numbers, financial status or information, health status or information.
- Not use any pixels to collect or solicit information from children under age 13.
- Limit audience exposure for off-site re-targeting messages to a maximum of 1x/day, 3x/week, 7x/lifetime.
- Not re-target users on any sites that display or promote hate speech, adult content, illegal activity, drug use, or violence.

Univision Data Policy:

All data generated by/or collected from Univision and its users while visiting the Univision site or network of sites is the property of Univision Communications Inc. No party unaffiliated with Univision may collect or use, or direct, authorize or assist other persons or entities to collect or use, any data from a user, or a computer or device operated by a user, while visiting the Univision site or network of sites without the prior express written permission of Univision. For example, no data may be collected, used or transferred for purposes of retargeting, behavioral remarketing, or targeting any advertisements, segment categorization or any form of syndication which is related to Univision, its content, or its users without the prior express written permission of Univision in each instance.



Univision Approved Vendors

Please note that some vendors are approved to only run on certain platforms. For more detailed information please reach out to Ad Solutions

Data Collectors

| Mediaplex | Blue Kai and Truste | |
|--|--------------------------------|--|
| VoiceFive | D+M (Data Plus Math) | |
| Scorecard Research | TrustArc | |
| BidSimulator MMI pixel | Aggregate Knowledge | |
| Data Logix | Adobe Audience Manager: Demdex | |
| Targus | Nielsen: Visual IQ | |
| RapLeaf | Nielsen DAR | |
| Evidon | ComScore | |
| WMX | HCode Media | |
| Hawkeye | Neustar (Aggregate Knowledge) | |
| Tapad: Placed IQ | Dynata | |
| Horizon pixel (Conecta Pixel) | K12 - TV Squared | |
| RevJet | VideoAMP | |
| Atlas (Atdmt) - Acquired by Facebook on 2013 | FourSquare (Placed) | |
| MOAT | Artsai | |
| IQVIA Pixel (Turn) | Cint | |
| | Study/Survey Pixels | |
| Millward Brown/Kantar Studies | | |
| Survata | | |
| Nielsen | | |
| Dynata: researchnow.com | | |
| - / | | |

Lucid Study Pixel



Approved Third Party Vendors

Please note that some vendors are approved to only run on certain platforms. For more detailed information please reach out to Ad Solutions

| Vendor | | Livestrea | m Video | | | VOI | D Video | | CTV Video | Displa | y Ads |
|---|-------------|-----------------------------|-----------|-------------------------|-------------|-----------------------------|-----------------|---------------------------------|-----------|-------------|----------|
| | Mobi | le Apps | Deskto | op / MWeb | Mob | oile Apps | Des | ktop / MWeb | | | |
| | Mobile Apps | UnivisionNOW and TVE App | Desktop | UnivisionNOW and TVE | Mobile Apps | UnivisionNOW and TVE App | Desktop | UnivisionNOW and TVE Desktop | | Mobile Apps | Web |
| Nielsen | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| Innovid (Including iCTV) | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | | |
| FlashTalking | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| Integral/AdSafe (<i>Including UVT & CTV Tags</i>) | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | | Approved | Approved |
| DoubleVerify (Including UVT) | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| Adobe/TubeMogul | Approved | | Approved | | Approved | | Approved | | | | |
| AdapTV | Approved | | Approved | | Approved | | Approved | | | | |
| Jivox | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| Double-Click | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| ExtremeReach | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | N/A | N/A |
| DCM | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| HCode Media | | Approved | | Approved | | Approved | | Approved | Approved | Approved | Approved |
| Sizmek | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | | |
| Horizon - Connect | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| iSpot TV | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | | |
| Data + Math | Approved | | Approved | | Approved | | Approved | | | Approved | Approved |
| Lucid | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| MOAT | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |
| Interpolls | II COLOR | rr olou | FF COLUMN | rr olou | | FF 0.00 | rr ^c | FF COUL | rpoord | Approved | Approved |
| The Trade Desk (TTD) | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | -rr | -PF |
| K12 - TV Squared | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved | Approved |



General Guidelines For Display Units

• Programmatic ads may not deliver to any high impact opportunity.

• High impact opportunities are reserved for sponsors.

• All tags must be received 7 business days prior to the start date for a guaranteed, on time launch (not applicable to uncertified 3rd party partners)

• All creatives for Univision built executions must be received 5 business days prior to the start date for a guaranteed, on time launch including clients approval (depend on clients approval time frame).

• You MUST notify us, if you plan to use a 4th party tag to track a 3rd party served creative. Limit of 5 creatives per order.

• All frequency caps will be managed by Univision

• Only 5 Tracking Vendors allowed per creative.

• Unapproved 3rd-party vendors, will have to go through the Certification Process before creative can be set live.

| DISPLAY ADS | | | | | | | | | |
|------------------------------|-----------|---|-----------------------------|--|--|--|--|--|--|
| Ad Unit | Dimension | Specifications/ Display ads | 3rd Party Served/Tracked | Platforms | | | | | |
| Leaderboard | 728x90 | Maximum file size: 150KB (Initial Load) - 300KB (Max Subload) Maximum loops: 3 | Yes | Desktop & Tablet (Mobile Web, Apps) | | | | | |
| Super Leaderboard | 970x90 | Maximum file size: 200KB (Initial Load) - 400KB (Max Subload) Maximum loops: 3 | Yes | Desktop & Tablet | | | | | |
| Billboard | 970x250 | Maximum file size: 250KB (Initial Load) - 500KB (Max Subload) Maximum loops: 3 | Yes | Desktop & Tablet | | | | | |
| Medium (Inline) Rectangle | 300x250 | Maximum file size: 150KB (Initial Load) - 300KB (Max Subload) Maximum loops: 3 | Yes | Desktop & Tablet (Mobile Web, Apps) | | | | | |
| Wide Skyscraper | 300x600 | Maximum file size: 200KB (Initial Load) - 400KB (Max Subload) Maximum loops: 3 | Yes | Desktop & Tablet | | | | | |
| Mobile Banner | 320x50 | Maximum file size: 50KB (Initial Load) - 200KB (Max Subload) Maximum loops: 3 | Yes | Mobile Web & Mobile Apps | | | | | |

| | | High Imp | act/Rich Media Display Ads | | |
|--|-----------|--|---|---|---|
| | | | | | |
| Ad Unit | Dimension | Maximum file size: 150KB (Initial Load) - 300KB (Max | ations/ Display Ads User Experience Guidelines: | 3rd Party Served/Tracked | Platforms |
| Adhesion (Tap to | 728x90 | Subload) • Expand Direction: Up • Max Expanded Dimension: 728x415 | Must have a clearly visible close button User Initiated: click-to-expand Serves at the BOTTOM of the page | 3rd-Party Served Only. Celtra preferred | Tablet Mobi APP |
| Expand Units) | 320x50 | Maximum file size: 50KB (Initial Load) - 200KB (Max Subload) Expanded dimensions: 320x480 Expand Direction: UP | User Experience Guidelines: • Must have a clearly visible close button • User Initiated: click-to-expand • Serves at the BOTTOM of the page | 3rd-Party Served Only. Celtra preferred | Smartphor Mobile AP |
| Inline Expandable | 320x50 | • Maximum file size: 50KB (Initial Load) - 200KB (Max Subload) • Expanded dimensions: 320x480 • Expand Direction: UP | User Experience Guidelines: • Must have a clearly visible close button • User Initiated: click-to-expand • Approved 3rd party vendor tag controls the AD expasion direction | 3rd-Party Served Only. Celtra preferred | Mobile W |
| Billboard | 970x250 | • Maximum file size: 250KB (Initial Load) - 500KB (Max Subload) • Expansion Direction: Down | User Experience Guidelines: • Must have a clearly visible close button • User initiated hotspot: May not exceed more than 1/4 of the ad area and must be clearly labeled • Ad should collapse leaving an "Expand" button available • Auto-play video is optional and it must start on mute | • 3rd-Party Served Only. • Celtra preferred | Desktop |
| Push Down | 970x90 | Maximum file size: 200KB (Initial Load) - 400KB (Max Subload) Expansion Direction: Down Max Expanded Dimension: 970x415 | User Experience Guidelines: • Must have a clearly visible close button • User initiated hotspot: May not exceed more than 1/4 of the ad area and must be clearly labeled • Ad should coleapse leaving an "Expand" button available • Auto-play video is optional and it must start on mute • Auto-play video is optional and it must start on mute • Auto-built into the ad creative. (Expanded creative will collapse after 6-8 sec to the 920x90 leave behind) | • 3rd-Party Served Only. • Celtra preferred | Desktop |
| Rich Media /IVB | Variable | Maximum file size: depending on the size provided Maximum duration of animation: 30 sec Hot spots: Not to exceed 1/4 size of ad. Only initiated v audio Video controls must include play, pause, mute, or volum Video Animation Guidelines: 024 FPS 030 Secs max length 022 AMB max file size Expansion must be user initiated Clase hunton must be visible and cleady defined Clase hunton must be size (stand alone copy) | when cursor rests on hotspots for at least 1-sec. Must NOT initiate e control during video play | • 3rd-Party Served Only. • Celtra preferred | Desktop |
| Native Ads: | | Headline: 30 Charactors or Less (stand alone copy) Caption: 120 Charactor Limit (stand alone copy) Image Requirements: • Minimum Size: 500x500 pixels • Recommended Size: 1200x1200 pixels • STATIC (Image should be FREE of text) • JPEG or PNG | File Size: • Under 2MB LOGO Format: • Size: 300x300px • PFC0/transparent • PNG, Standard (recommended) • Recommended: 2 versions (light and dark) | Tag is provided by TripleLift 3rd Party Trackers are optional) • All trackers must be secure (https://) | Desktop a Mobile We (Section Fro ONLY) |
| | S | Spotible Units | | | |
| Univision Scroller | | The Scroller dynamically injects a parallax inline display or video anywhere into content layout, in-feed or in-article to enhance user viewability in the focal point of content experience. Unit Specifications AssetDimensions: •Desktop Asset: 1046px by 589px •MobileAsset: 303px by 536px | Banner Media; File Type: CIF, JPG, BMP, PNG File size: Suggested up to 100KB (Maximum up to 5MB). <u>Video Media</u> File Type: MP4, YouTube Video Specifications: Aspect Ratio: 4:3 or 16:9or 9:16 for a Mobile Asset File size: Suggested up to 5MB (Maximum up to 5MB). Maximum video length: Variable (recommended 15 seconds maximum if no user interaction and up to 30 seconds with user interaction) | • Tag is provided by Spoti • 3rd Party Trackers are opt • All trackers must be secure (I | ional |
| Univision Skybox | * | The Skybox is a responsive expandable/imagebanner. The unit starts expanded and will collapse if the user scrolls down the page A video can be used for the Expanded Desktop and Expanded Mobile assets. Unit Specifications AssetDimensions: •Desktop Expanded Banner: 1046px by 589px •Desktop Calapsed Banner: 375puby 211 pxor 16:9 Video* •Mobile Calapsed Banner: 375puby 93px | *The Mobile Expanded can use either an Image or a Video asset. It does not use both at the same time. <u>Banner Media</u> : <u>Banner Media</u> : <u>Media types</u> : Gif, JPG, BMP, PNG File size: Suggested up to 100KB (Maximum up to 5MB). <u>Video Media</u> File types: MP4, YouTube <u>Video Specifications</u> : Aspect Ratio: 4:3 or 16:9. File size: Suggested up to 5MB (Maximum up to 5MB). | Tag is provided by Spoti 3rd Party Trackers are opt All trackers must be secure (I | ional |
| ivision Cross Screen Takeover (CST) | | The Consister Damine: 37 bp X by 35 pt The Cross Screen Takeover (CST) is a responsive image banner in Desktop Mode and a Top and Footer Banner with in content Scroller in Mobile. Unit Specifications AssetDimensions: •Mobile Scroller:320px by 560px •Mobile Banner top: 375px by 51px •Mobile Banner top: 375px by 62px •Mobile Banner elottom:375px by 62px •Mobile Wallpaper (Lef: 1pky) 1px* •Mobile Wallpaper Right:1pxby 1px* •Mobile Wallpaper Right:1pxby 1px* | The star suggessed up do have (maximum by Uo share). A my size works as long as the asset is 1 solid colorNote: Assets can be larger in size, as long as they have the same aspect ratio. Banner Media File types: GF, JPG, BMP, PNG File size: Suggested up to 100KB (Maximum up to 5MB) Media types: MP4, Youtube Maximum video length: Variable (recommended 15 seconds maximum if no user interaction and up to 30 seconds with user interaction) Video Specifications: Aspect Ratio: 16:9 File size: Suggested up to 5MB (Maximum up to 5MB) | Tag is provided by Spot 3rd Party Trackers are opt All trackers must be secure (I | ional |

| | Univision Video Ad Specifications |
|--|---|
| | VAST Tags are supported via certified vendors on Desktop, Mobile Web and Apps All 3rd party served creative must be SSL compliant VAST tags only - No Vpaid is allowed on any of the platforms! Platform specific creative durations should be requested from your Sales Planner You MUST notify us, if you plan to use a 4th party tag to track a 3rd party served creative. |
| Duration | THIRD-PARTY VIDEO |
| :06 sec :15 sec :30 sec :60 sec | Vast 2.0 - 4.0 accepted Only MP4 video file types allowed in VAST tags Resolution: 720p and 1080p Aspect Ratio: 16:9 or 4:3 Frame Rate: 24-30 fps BitRate for Mobile Apps/Web: 800 Kbps to 5000 Kbps BitRate for Desktop: 800 Kbps to 10000 Kbps BitRate for CTV: 1000 Kbps to 15000 Kbps BitRate for Cross Platform: 800 Kbps to 5000 Kbps Long Form video ads are subject to CBP opportunity VENTORY CAN ACCEPT SKIPPABLE VIDEO; MUST CHECK WITH YOUR SALES PLANNER |
| Duration | SITE SERVED: Ad Server Hosted Video |
| :06 sec :15 sec :30 sec :60 sec | Aspect Ratio:16:9 or 4:3 Frame Rate: 24-30 fps Video File Format: H.264 (mp4) Supported 3rd Party Tracking Events (1x1 Pixel) |
| | YouTube Video Specs |
| Short Form video: 15 secs or less | Any video running on Youtube must comply with its specification requirements including approved vendors Ref: https://support.google.com/displayspecs/answer/6244563 Creative must be secured. (https://) Only Vast 2.0 or 3.0 is allowed. NO VPAID YouTube Hosted Ads Accepted ADH (Ads Data Hub - Vendor ID required for tracking YouTube Impressions No 3rd Party Tracking Pixels allowed to run on YouTube |
| *Resizing you | ur video based on YouTube's best practices before uploading it will help your videos look better on YouTube. Please reference our help pages on how to upload your video, accepted file formats, and optimizing your video. |
| •, | |



VIX Ad Units Specs

- All Third Party Tags must be secure and SSL compliant.

| | Platform | File Type | Resolution | Max Bitrate | Max File Size | Duration seconds | Tag Type |
|----------------|-----------------|-----------|------------|-------------|----------------------|------------------|---|
| ОТТ | CTV, Desktop | MP4 H.264 | 1280x720 | 2500 kbps | 313 KB per second | 6s - 30s | |
| Instream Video | CTV, Desktop | MP4 H.264 | 1024x576 | 1250 kbps | 157 KB per second | 6s - 30s | VAST 2,3,4 All encoded files in the same tag |
| | In-App, Desktop | MP4 H.264 | 640x360 | 850 kbps | 107 KB per second | 6s - 30s | |
| | In-App, Desktop | MP4 H.264 | 640x360 | 600 kbps | 75 KB per second | 6s - 30s | j |

- If Video will be encoded by VIX, send high quality MP4 video file

| VIX.COM | File Type | Resolution | Max Bitrate | Duration seconds | Audio | Play | Тад Туре |
|-----------------|-----------|------------|-------------|------------------|----------------|-----------|--------------|
| Outstream Video | MP4 H.264 | 640x360 | 800 kbps | 6s - 30s | User Initiated | Auto Play | VAST - VPAID |

- If Video will be encoded by VIX, send high quality MP4 video file

| | Device | Dimension | Format | Max File Size for Tag or HTML5 | Max File Size Creative | Max File Size load after interaction | Max Animation Duration | Tag Type |
|--------------------------|------------|------------------------------|-------------------------|--------------------------------------|---------------------------|--|------------------------------|-------------------------------|
| VIX.COM Display Units | Mobile Web | 320x50 300x250 300x600 | html5, jpg, png, gif | 5 KB | 150 KB | 300 KB | 15 sec | Full Screen |
| | Desktop | 300x250 300x600 728x90 | html5, jpg, png, gif | 5 KB | 150 KB | 300 KB | 15 sec | 600x250 600x600 728x315 |

- Banners expansion must be user initiated. Expanded banner must have a close button at the top-right side

- No audio allowed

- If the creative will be created by VIX, assets formats accepted are: jpg, png, gif, psd, ai, mp4

| VIX.COM | Device | Dimension | Format | Max Animation Duration | Video Autoplay (optional) | Max File Size for Tag or HTML5 | Max File Size Creative |
|-------------------|------------|-----------|-------------------------|---------------------------|------------------------------|--------------------------------------|---------------------------|
| High Impact Units | Mobile Web | 320x400 | html5, jpg, png, gif | 15 sec | mp4 - 15-30 sec. | 5 KB | 500 KB |
| | Desktop | 990x250 | html5, jpg, png, gif | 16 sec | mp4 - 15-30 sec. | 6 KB | 501 KB |

- If the creative will be created by VIX, assets formats accepted are: jpg, png, gif, psd, ai, mp4



AUDIO AD SPECS

- Doubleclick, Flashtalking & Innovid are the only certified 3rd party vendors for the audio experience.
 All tags and creatives must be received 5 business days prior to the start date for a guaranteed, on time launch.
 MRAID and rich media are not supported.
 NO VAST tags accepted

| Ad Unit | Duration / Size | Specifications | 3rd Party Served/Tracked | Platforms | Flex Unit | Local Opportunity | Above the Fold |
|---------------------|-----------------|--|--|-----------|-----------|----------------------|-------------------|
| Audio Commercial | :15 / :30 / :60 | MP3 (preferred) or WAV Bitrate: 128Kbps (Recommended, can be higher or lower) Sample Rate: 44100 Channels: Stereo, Mono | Yes (DFA Flashtalking Innovid Only) | All | No | Yes | n/a |
| Audio: Companion Ad | 300x250 | Maximum file size: 150KB (subsequent max polite load – 300KB) Animation: Static Animated creative must include a fallback .gif for run of platform compliance. | Yes (DFA Flashtalking Innovid Only) | All | Yes | Yes | Yes |



Email Blast Specs

Only Salesforce certified 3rd party vendors .
 All tags and creatives must be received 5 business days prior to the start date for a guaranteed, on time launch.

| Ad Unit | Creative Sizes | Specifications | 3rd Party Served/Tracked | Platform |
|---------------------|---|--|-------------------------------------|----------------------------------|
| Famosos Email Blast | <image/> | Banner Media Banners Spec: 562x92 Native Unit : 338x193 Native text: Title is 83 character Limit and 208 for Summary/intro File Types: jpg, png, GIF, No video (Animated GIF's can be used for video effect) Files under 4MB | Yes (Mightyhive & Movableink) | Salesforce Marketing Cloud |
| TUDN Email Blast | Control Control Control Control | Banner Media banners are 562x92 Native Units : 640x367 Native text: Title is 83 character Limit and 208 for Summary/intro File Types: jpg, png, GIF, No video (Animated GIF's can be used for video effect) Files under 4MB | Yes (Mightyhive & Movableink) | Salesforce Marketing Cloud |



Podcast Specs

Only certified 3rd party vendors for the audio experience.
 All tags and creatives must be received 14 business days prior to the start date for a guaranteed, on time launch.

| Ad Unit | Duration / Size | Specifications | 3rd Party Served/Tracked | Platforms |
|--|-----------------|--|-----------------------------|------------|
| Baked In Ads: Audio Commercial | :15 / :30 / :60 | Internally produced spots - Text file containing copy points and desired spot position Impressions cannot be tracked on Baked in Ads Baked in Ads are considered part of podcast content | No | AudioServe |
| Dynamic Ads Audio: Audio Commercial | :15 / :30 / :60 | Internally produced spots - Text file containing copy points and desired spot position Client provided spot - :15 / :30 / :60 Brand Spot WAV or MP3 files accepted (<i>MP3 is the preferred file type</i>) Impressions can be tracked | Yes | AudioServe |



UNIVISION

| SET TOP BOX VOD VIDEO AD SPECS | |
|--------------------------------|---|
| Duration | Specifications |
| VIDEO | Aspect Ratio: 4X3 (1.33/1) Active video must be 480 lines vertical by 720 pixels horizontal and interlaced. Frame Rate: 29.97 AFD: If 4X3 SD content is upconverted to HD 16X9 prior to delivery, the only permissible AFD value shall be 1001. If provided, AFD Data must be consistent throughout the file and continuous. The AFD flag must be embedded on both fields of line 11 throughout the file. Duration: 15, 30 and 60 secs No 3rd party tracking MSOs: Cox and Spectrum (Time Warner Cable and Bright House Networks) |
| CAPTIONING | If SD content is delivered with captioning, it must be encoded as EIA/CEA 608 data and comply with the SMPTE334M:2000 specification for Vertical Ancillary Data Mapping. Closed Captioning shall be encoded in accordance with EIA/CEA-608 on both fields of line 21 CC1 Spanish only CC3 English only |
| AUDIO | Audio Delay: Audio shall not lead video by more than 15ms, nor lag video by more than 45ms as outlined in ATSC finding IS-191 All audio should be delivered with un-encoded PCM Must be Commercial Advertisement Loudness Mitigation Act (CALM Act) Compliance All content provided shall be CALM act compliant, adhering to the +/- 2 LKFS requirement as measured using the ITU-R BS.1770-3 algorithm. The center channel should be considered the anchor channel and maintain an average of +/- 2 LKFS of the dialnorm when measured independently of the other audio channels. The peak audio on any channel shall not exceed -6 dBFS No Emergency Alert System tones (EAS) are allowed Audio Channel Assignments Track 1: Left (stereo*: Lo of Rt) Track 2: Right (stereo*: Lo of Rt) Track 3: Right (stereo*: Lo or Rt) Track 4: LFE Track 5: LS Track 7: 8 is No Audio Track 9: SAP Left (poinal) No states or leaders are required; however, all files should begin and end in clean black and the file length must be greater than the scheduled duration Timecode if included in the file must be drop frame, continuous, and ascending |