



## **Near Field 2.0 Stereo Delivery Specifications and Guidelines for Titles Mixed Natively in 2.0**

This article provides specifications and guidelines for productions delivering a Near Field 2.0 Stereo only IMF and corresponding 2.0 Stereo M&E to GEM. Core GEM deliverables are outlined in the Post Production Branded Delivery Specifications.

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### **2.0 Stereo Only IMF Deliveries**

- Packaging follows GEM Post Production Branded Delivery Specifications.
- Deliveries must comply with SMPTE ST 2067-21:2016 or SMPTE ST 2067-21:2020 IMF Application #2E.
- Packages with immersive sound must also comply with SMPTE ST 2067-201:2019 Immersive Audio Bitstream (IAB) Level 0 Plug-in.
- GEM IMF packages should be generated directly from color timelines or from intermediate mezzanine assets with highest possible quality/resolution (HD or UHD). GEM may request alternate resolutions.
- **Final IMF packages contain:**
  - 1 Asset Map XML
  - 1 Packing List XML
  - 1 or more Composition Playlist (CPL) XML files each representing a single audio language.
- **For titles mixed in Dolby Atmos®:**
  - 1 image virtual track
  - 1 IAB virtual track
  - 0 or 1 surround audio virtual track (6 channels)
  - 0 or 1 stereo audio virtual track (2 channels)

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- **For titles mixed in 5.1 surround:**
  - 1 image virtual track
  - 1 surround audio virtual track (6 channels)
  - 0 or 1 stereo audio virtual track (2 channels)
- **For titles mixed in 2.0 stereo:**
  - 1 image virtual track
  - 1 stereo audio virtual track (2 channels)
- All MXF Track Files referenced in CPL and not previously delivered must be included.
- Volume Index and Output Profile List XML files may be present but are optional.
- Contact your GEM representative before delivering 2.0 only IMF to confirm acceptability.

## **Near Field 2.0 Stereo M&E Mix**

- Provide a fully filled 2.0 stereo submix containing only Music & Effects, with no dialogue.
- Include ambiences and foley fill to match original mix. All non-dialog sounds must be present in M&E mix.
- Maintain +18 dB (-2 dBFS) maximum level (true peak) over reference of -20 dBFS via peak limiting without lowering volume.
- When creating Lo/Ro or Lt/Rt 2.0 mixes, follow Near Field 2.0 Stereo Mix spec in section 3.2.3.
- All levels in M&E mix should mirror final Mastering and Archive levels to allow seamless dubbing addition later.
- GEM provides M&E Creation Guidelines for narrative content and a separate Nonfiction M&E Creation Guidelines document for nonfiction content.

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(This summary is based on GEM's official Near Field 2.0 Stereo Delivery Specifications and Guidelines.)