GEM

Dolby Atmos Home Mix Deliverable Requirements

- The Dolby Atmos® Original Language Home Mix must be mixed in a minimum 7.1.4 room.
- Dolby Certification is not required for Home Atmos® mix rooms.
- Atmos® delivered in IMF (IAB) supports 23.976, 24, 25, and 30 frames per second.
- This is a near field mix with common monitoring levels of 79dB or 82dB SPL.
- Conform to GEM loudness spec (-27dB LKFS ± 2 LU 1770-1 dialog-gated).
- Peaks should generally not exceed -2dBFS true-peak; set true-peak limiters on all beds and objects at -2.3 dBFS or lower.
- Measure loudness and peaks via a 5.1 rerender.
- Deliver 5.1 mix; 2.0 audio delivery is optional. Both must meet loudness and peak specs if delivered for streaming.
- Use renderer output limiting rather than lowering beds/objects to conform.
- Atmos® mixes delivered to picture finishing facilities for IMF creation and streaming.
- 5.1 mixes delivered to Content Hub for dubbing reference; optional for streaming.
- 2.0 delivery optional.
- All beds and objects encoded and always audible; printmaster utilizes a composite of all beds OR multiple beds, not both.
- For series/doc/unscripted/comedy, beds/objects separated and labeled "Dialog," "Narration," "Group ADR," "Music," "Effects," "Backgrounds," or "Foley." For films, maintain DME separation when possible.
- For large mixes, use all 128 ADM audio channels before summing Dialogue, Music and Effects.
- If an 85 dB reference theatrical mix exists, two complete deliverable sets required: theatrical and near field.
- Leader and sync pop preferred but not required; IMF vendor syncs Atmos® in IMF.
- Final Home Theater Print Master is a Dolby Atmos® BWAV ADM file with all bed channel configs accepted, 48 kHz/24-bit.

GEM

M&E Mix for Localization

- Dolby Atmos® Home M&E Mix must be in a minimum 7.1.4 room, no Dolby Certification required.
- Near field mix monitored at 79dB or 82dB SPL.
- True-peak limiter set at -2.3 dBFS or lower; peaks ≤ -2dBFS true-peak confirmed via 5.1 rerender.
- 5.1 M&E rerender required, conforming to GEM peak specs.
- Optional tracks required when necessary.
- All beds and objects encoded and audible; printmaster composite or multiple beds.
- M&E bed/object config matches Atmos® printmaster with dialog beds containing only production effects, no discernible language.
- Two complete deliverable sets required if 85 dB theatrical reference mix exists.
- Leader and sync pop preferred but optional.
- M&E Mix delivered as Dolby Atmos® BWAV ADM file or Pro Tools Recorder Session; all bed channel configs accepted; 48 kHz/24-bit.
- Single/multiple M&E Option stems as separate WAVs or clearly marked Optional/OPT in Pro Tools sessions.
- Channel format decided by re-recording mixer to match original mix intent.

Alternate (Dubbed) Language Mix for Streaming and Archive

- Dolby Atmos® Dubbed Language Home Mix must be in a minimum 7.1.4 room.
- Dolby Certification not required for Home Atmos® mix rooms.
- Near field mix monitored at 79dB or 82dB SPL.
- Comply with GEM loudness spec (-27 dB LKFS ± 2 LU dialogue loudness).
- Peaks should generally not exceed -2 dBFS True Peak; recommend True Peak limiters on beds and objects at -2.3 dBFS or less.
- Loudness and peaks to be measured via 5.1 rerender.
- 5.1 and 2.0 rerenders must meet GEM loudness and peak specs for native Atmos mixes.
- All beds and objects encoded and audible; printmaster uses composite or multiple beds but not both.

GEM

- Separate beds/objects by Dialog, Music and Effects for series/doc/unscripted/comedy; maintain DME separation for film content if possible.
- Two deliverable sets required if 85 dB reference theatrical mix exists.
- Dubbed Atmos® files must match final IMF picture length as long-play, no separate reels; leader and sync pop removed.
- FFOA at default; leave "Add FFOA" unchecked. For pre-3.0 renderer software, leave red dashes in FFOA value.
- Final Home Theater Print Master: Dolby Atmos® BWAV ADM file, accepts all bed channel configs, 48 kHz/24-bit.

Atmos Audio Delivery to GEM

- Streaming Distribution: Final Home Theater Print Master Dolby Atmos BWAV ADM File (Primary Language) delivered via IMF Partner / Backlot as IMF (preferred) or Secondary Audio (Dolby Atmos™).
- Final Home Theater Print Master Dolby Atmos BWAV ADM File (Alternate Language) delivered via Backlot as Secondary Audio (Dolby Atmos™).
- Localization: M&E mix as Dolby Atmos BWAV ADM or Pro Tools Recorder session plus optional files, delivered via Content Hub with QC if used for localized mix.

Change Log History

- Updates align with GEM Branded Post Production Specifications.
- Refinements to original version mix requirements, Atmos in IMF workflows, and new dubbed language mix specs.
- Added Content Hub and QC delivery info.
- Echoed importance of DME separation, removal of M&E DAMF requirement, and Pro Tools delivery options.
- Enhanced track usage guidance and loudness specs.
- Recommended True Peak limiter use and LCR/5.0 beds allowance.
- Progressive removal of legacy terms and change log details through multiple iterations.