

# DIHWorld Audio — 42 Plugin Placement Schematic

Date: 2026-07-25 Authority: ../CURRENT\_FAMILY\_AUTHORITY.md Routing source: ../ROUTING\_PLACEMENT\_CANON.md Smart Position source: ../SMART\_POSITION/SMART\_POSITION\_CANON.md and ../SMART\_POSITION/SMART\_POSITION\_MANIFEST.json Companion planning page: DIH\_13\_FAMILY\_42\_PLUGIN\_TEMPLATE\_SCHEMATIC\_20260722.md

## Purpose

ROUTING\_PLACEMENT\_CANON.md gives every family a placement summary, but only fully works out the per-plugin Primary/Secondary/Group-Bus/Parallel rail for two families (FX\_SPATIAL and DIMENSIONAL\_IMPACT\_MOVE). This schematic extends that exact same per-plugin rail to all 13 families and all 42 plugins, so every plugin page, quick-start card, and routing sheet has one place to pull its placement row from.

Nothing here overrides the authority chain above. If a plugin's row conflicts with CURRENT\_FAMILY\_AUTHORITY.md or SMART\_POSITION\_CANON.md, those files win.

Current implementation note: ANUBIS accepts a named stereo sidechain with independent Key/Duck functions; DEBO uses nine updated programs with restored iCloud canonical naming; TRIPLER uses the repaired clean left/right harmony path and corrected return level; SESHAT named views hide unrelated panels; AU and DIH Drum Morpher are current registered instruments, with Drum Morpher factory programs restored.

## How to read a row

| Smart Position class | The machine-readable placement class from SMART_POSITION_MANIFEST.json (INSERT_SAFE, BUS_PREFERRED, MIX_BUS, MASTER_FIELD, OBSERVATION, CREATIVE_TRANSFORM, LOW_END_SOURCE). |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary              | First recommended placement for normal use.                                                                                                                                  |
| Secondary            | Next useful position when the session calls for it.                                                                                                                          |
| Group/Bus            | Exact stem, aux, return, or master lane.                                                                                                                                     |
| Parallel             | Yes / Optional / No, with guidance.                                                                                                                                          |
| Note                 | One-line user-facing placement note, including any secondary dot tag.                                                                                                        |

Dots on the plugin face are the compact version of this table (bright = confirmed role, dim = available, slow pulse = better placement suggested, flashing = risk detected). This table is the long-form source those dots are summarizing.

# VOCAL\_MIC\_SOURCE — Gold — 6 plugins

Family default: Track Insert / Vocal Bus / Lead or Background Vocal Bus / usually no parallel unless noted. Lead Vocal Bus chain: GOLD -> AEGIS\_NOVA -> SILVER. Background Vocal Bus chain: GOLD -> TRIPLER -> EchoLocate.

| GOLD       | INSERT_SAFE | Track Insert | Vocal Bus (opens both chains)             | Lead Vocal Bus / Background Vocal Bus         | Usually no              | Source/vocal color; opens both the Lead and Background Vocal Bus chains; secondary silver Mastering Support dot. |
|------------|-------------|--------------|-------------------------------------------|-----------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------|
| AEGIS_NOVA | INSERT_SAFE | Track Insert | Vocal Bus (chain middle)                  | Lead Vocal Bus (middle slot)                  | Usually no              | Vocal/source protection and tone; sits between GOLD and SILVER.                                                  |
| SILVER     | INSERT_SAFE | Track Insert | Vocal Bus (chain end) / Mastering Support | Lead Vocal Bus (chain-end)                    | Usually no              | Closes the Lead Vocal Bus chain; secondary silver Mastering Support dot.                                         |
| TRIPLER    | INSERT_SAFE | Track Insert | Vocal Bus (chain middle)                  | Background Vocal Bus (middle slot)            | Yes, for stacks/doubles | Mic-array enhancement for stacks and doubles; secondary Width tag.                                               |
| EchoLocate | INSERT_SAFE | Track Insert | Vocal Bus (chain end)                     | Background Vocal Bus (chain-end)              | Usually no              | Source localization; closes the Background Vocal Bus chain.                                                      |
| WPR        | INSERT_SAFE | Track Insert | Vocal Bus                                 | Lead/Background Vocal Bus (substitution slot) | Optional, for width     | Ribbon mic source shaping; secondary Width tag.                                                                  |

# DYNAMICS\_GUARD — Cyan — 4 plugins

Family default: Track Insert or Group Bus by product / Dynamics Bus / Vocal-Dynamics Bus / product-specific parallel. Dynamics Bus chain: ANUBIS -> OTIS -> DEBO.

| ANUBIS  | INSERT_SAFE | Track Insert | Dynamics Bus (chain start)                                 | Dynamics Bus (first slot)  | No                      | Gate/expander plus RMS guard; opens the Dynamics Bus chain.                                                                                                                                                             |
|---------|-------------|--------------|------------------------------------------------------------|----------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OTIS    | INSERT_SAFE | Track Insert | Dynamics Bus (chain middle) / Mastering Support            | Dynamics Bus (middle slot) | No                      | Dynamics support with secondary silver Mastering Support dot.                                                                                                                                                           |
| DEBO    | INSERT_SAFE | Track Insert | Dynamics Bus (chain end)                                   | Dynamics Bus (chain-end)   | Yes, pressure-activated | Only DYNAMICS_GUARD plugin with an explicit parallel-impact return.                                                                                                                                                     |
| LOOKOUT | INSERT_SAFE | Track Insert | Dynamics Bus (chain end) / Observation / Mastering Support | Dynamics Bus (chain-end)   | No                      | Dual-envelope transient/sustain shaper: Attack/Sustain directly move transient and sustain gain up to +/-18dB. Eye of Heru advisory guidance and silver Mastering Support are secondary dots, not the primary function. |

# BASS\_LOW\_END — Brown/low-gold — 4 plugins

Family default: Track Insert / Bass Bus / Bass-Low-End Bus / usually no, parallel only for controlled sub reinforcement. Bass Bus chain: MARIANA -> NTRPL -> MONOLITH.

| MARIANA         | LOW_END_SOURCE | Track Insert | Bass Bus (chain start)                                 | Bass Bus (first slot)             | No                                     | Sub/low-end field foundation; opens the Bass Bus chain.                                                                                                                                                                                                       |
|-----------------|----------------|--------------|--------------------------------------------------------|-----------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NTRPL           | LOW_END_SOURCE | Track Insert | Bass Bus (chain middle)                                | Bass Bus (middle slot)            | No                                     | Phi Harmonic Rewriter reclassified into the bass family; sits between MARIANA and MONOLITH.                                                                                                                                                                   |
| MONOLITH        | LOW_END_SOURCE | Track Insert | Bass Bus (chain end)                                   | Bass Bus (last slot)              | No                                     | Low-end mass/weight; closes the Bass Bus chain.                                                                                                                                                                                                               |
| DEPTH_BOOST_PRO | LOW_END_SOURCE | Track Insert | Bass Bus (definition alternate) / Spatial Gain Support | Bass Bus (replaces MONOLITH slot) | Optional, controlled sub reinforcement | Replaces MONOLITH in the 7-Bus template when extra low-end definition is needed. Secondly a spatial gain plugin: a dedicated Spatial Gain control (0dB to -12dB) sits after its delay-based depth/width field, not a generic output trim; blue secondary dot. |

# DRUM\_INSTRUMENT — Red-orange — 3 plugins

Family default: Instrument Track or Drum Bus by product / Track Insert-Drum Bus / Drum Bus / product-specific parallel. Drum Bus chain: DIH\_DRUM\_MORPHER -> BALLPARK -> DRUMKRUSHGLUE.

| DIH_DRUM_MORPHER | CREATIVE_TRANSFORM | Instrument Track | Drum Bus (chain start)                | Drum Bus (first slot)                               | No, source instrument | Instrument-level drum generator/morpher; opens the Drum Bus chain.                                                 |
|------------------|--------------------|------------------|---------------------------------------|-----------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| BALLPARK         | CREATIVE_TRANSFORM | Track Insert     | Drum Bus (chain middle)               | Drum Bus (middle slot)                              | Optional, bus energy  | Supports bus energy in the middle Drum Bus slot.                                                                   |
| DRUMKRUSHGLUE    | BUS_PREFERRED      | Drum Bus         | Track Insert / Dynamics Guard support | Drum Bus (chain-end) or Parallel Drum-Impact Return | Yes                   | Primary DRUM_INSTRUMENT with secondary cyan Dynamics Guard Support dot for transient, pressure, and cohesion work. |

# COLOR\_AMP\_TAPE — Red-orange — 4 plugins

Family default: Track Insert / Color Bus / Music-Instrument or Parallel Color Bus / yes for color blend, no hidden level lift. Instrument/Color Bus chain: KHEPRI -> PTAHTUBE -> APIS.

| KHEPRI    | INSERT_SAFE | Track Insert | Color Bus (chain start) / Mastering Support | Music/Instrument Bus or Parallel Color Bus (first slot)     | Yes, color blend | Default Mix at 1/Phi per canon; secondary silver Mastering Support dot; opens the Color Bus chain.               |
|-----------|-------------|--------------|---------------------------------------------|-------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------|
| PTAHTUBE  | INSERT_SAFE | Track Insert | Color Bus (chain middle)                    | Music/Instrument Bus or Parallel Color Bus (middle slot)    | Yes, color blend | Tube color stage; check vocal clarity when inserted on vocal sources.                                            |
| APIS      | INSERT_SAFE | Track Insert | Color Bus (chain end)                       | Music/Instrument Bus or Parallel Color Bus (last slot)      | Yes, color blend | Amp/color source tone; closes the Instrument/Color Bus chain.                                                    |
| SOVEREIGN | MIX_BUS     | Mix Bus      | Color Bus alternate / Mastering Support     | Parallel Color Bus (replaces one KHEPRI/PTAHTUBE/APIS slot) | Yes              | Stronger color and bus authority; replaces a Color Bus slot when needed; secondary silver Mastering Support dot. |

FIELD\_TONE\_BALANCE — White — 2 plugins

Family default: Group Bus / Track Insert when subtle / Music-Field Tone Bus / optional, especially for dispersal.

| AUSET | BUS_PREFERRED | Group Bus | Track Insert (subtle, vocal-first use) | Music/Field Tone Bus | Optional, dispersal field | Tone balance and dispersal field; also carries a secondary Vocal First tag for subtle direct-insert use. |
|-------|---------------|-----------|----------------------------------------|----------------------|---------------------------|----------------------------------------------------------------------------------------------------------|
| AUSAR | BUS_PREFERRED | Group Bus | Track Insert when subtle               | Music/Field Tone Bus | Optional                  | Field/tone balance counterpart to AUSET.                                                                 |

DIMENSIONAL\_IMPACT\_MOVE — Purple — 3 plugins

Family default: Track Insert or Width Bus by product / Aux Return / Width-Depth Bus / yes for PARALLAX and NSR. Width/Depth Bus chain: DEPTH\_IMPACT\_HYBRID\_X -> PARALLAX -> NSR.

| DEPTH_IMPACT_HYBRID_X | INSERT_SAFE   | Track Insert | Width/Depth Bus | Width/Depth Bus                     | Optional | Spectral clarity, harmonic depth, and hybrid spatial field; can sit on a source or shape the bus. |
|-----------------------|---------------|--------------|-----------------|-------------------------------------|----------|---------------------------------------------------------------------------------------------------|
| PARALLAX              | BUS_PREFERRED | Group Bus    | Aux Return      | Width/Depth Bus                     | Yes      | Bus-preferred dimensional placement. Default Mix belongs at 1/Phi unless product canon changes.   |
| NSR                   | BUS_PREFERRED | Aux Return   | Group Bus       | Width/Depth or Parallel Spatial Bus | Yes      | Phi-based spatial delay with motion, microphase, and flange. Default Mix at 1/Phi.                |

Reused verbatim from ROUTING\_PLACEMENT\_CANON.md — this is the already-authoritative source table for this family.



FX\_SPATIAL — Purple — 3 plugins

Family default: Aux Return / Group Bus / Parallel Spatial Bus / yes, this is the main home for shared space. Parallel Spatial Bus chain: NTRSTLLR -> Cathedral -> SacredVerb.

| NTRSTLLR   | BUS_PREFERRED | Aux Return | Source Insert | Parallel Spatial Bus | Yes | Phi delay/nebula/wormhole space. Use as a shared return first; insert only when the source needs its own moving delay field. |
|------------|---------------|------------|---------------|----------------------|-----|------------------------------------------------------------------------------------------------------------------------------|
| Cathedral  | BUS_PREFERRED | Aux Return | Group Bus     | Parallel Spatial Bus | Yes | Flagship room/architecture space. Best as a shared space return or group-space bus.                                          |
| SacredVerb | BUS_PREFERRED | Aux Return | Group Bus     | Parallel Spatial Bus | Yes | Sacred/chamber reverb. Best as a shared reverb return; keep Solfeggio lanes as musical triggers, not gain controls.          |

Reused verbatim from ROUTING\_PLACEMENT\_CANON.md — this is the already-authoritative source table for this family.

# HARMONICS\_PITCH — Green — 3 plugins

Family default: Track Insert / Bus analysis-tone / Harmonics-Pitch lane / usually no unless product-specific mode says so.

| THOTH  | INSERT_SAFE | Track Insert | Bus analysis/tone | Harmonics/Pitch lane<br>(Instrument Bus alternate) | No, unless product mode states otherwise | Harmonic EQ and pitch guidance; alternates into the Instrument Bus when harmonic pitch is the specific problem. |
|--------|-------------|--------------|-------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| TEHUTI | INSERT_SAFE | Track Insert | Bus analysis/tone | Harmonics/Pitch lane                               | No                                       | Harmonic EQ and pitch guidance companion to THOTH.                                                              |
| AU     | INSERT_SAFE | Track Insert | Bus analysis/tone | Harmonics/Pitch lane                               | No                                       | Sidechain harmonic shaping utility.                                                                             |

# CREATIVE\_TRANSFORM — Red-orange — 3 plugins

Family default: Track Insert / Parallel Creative Bus / Creative Transform Bus / yes for creative blend, not for transparent correction.

| SLOTMACHINE     | CREATIVE_TRANSFORM | Track Insert | Parallel Creative Bus                   | Creative Transform Bus                                              | Yes, creative blend | Intentional character transform, not a transparency tool.                                             |
|-----------------|--------------------|--------------|-----------------------------------------|---------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------|
| ARCHAEOLOGIST_X | CREATIVE_TRANSFORM | Track Insert | Parallel Creative Bus                   | Creative Transform Bus                                              | Yes, creative blend | Creative recovery/excavation processing for special moments.                                          |
| SERQET          | CREATIVE_TRANSFORM | Track Insert | Parallel Creative Bus / Width alternate | Creative Transform Bus, or Width/Depth Bus as a PARALLAX substitute | Yes                 | Can replace PARALLAX for creative width per the Cascading Bus substitution rule; secondary Width tag. |

MASTERING\_CORE — Silver — 5 plugins

Family default: Mix Bus / Master Field / Master Bus / no, unless a documented parallel mastering workflow exists. Clean chain: SPHYNX -> MAAT -> ANKH -> SESHAT. Loud chain: SPHYNX -> HORIZON\_X -> ANKH -> SESHAT. Authority chain: PLATINUM -> IMHOTEP -> ANKH -> SESHAT.

| SPHYNX    | MIX_BUS      | Mix Bus      | Master Field                        | Master Bus (chain-start, clean and loud chains)     | No | Prepares material before field/finalization; opens both the clean and loud master chains.                               |
|-----------|--------------|--------------|-------------------------------------|-----------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------|
| MAAT      | MIX_BUS      | Mix Bus      | Observation / Master Field          | Master Bus (clean-chain middle slot)                | No | Balance/justice stage with secondary green Observation dot; middle of the clean master chain.                           |
| HORIZON_X | MIX_BUS      | Mix Bus      | Master Field                        | Master Bus (loud-chain middle slot, MAAT alternate) | No | Controlled-lift finalizer; replaces MAAT in the loud master chain.                                                      |
| PLATINUM  | MIX_BUS      | Mix Bus      | Color/Amp/Tape Support (red-orange) | Master Bus (authority-chain start)                  | No | Primary MASTERING_CORE with secondary red-orange Color/Amp/Tape Support for master-bus body; opens the authority chain. |
| ANKH      | MASTER_FIELD | Master Field | Mix Bus                             | Master Bus (chain-end of every master chain)        | No | Final containment authority; sits at the end of every master chain, immediately before SESHAT.                          |

MASTER\_FIELD — Silver — 1 plugin

| IMHOTEP | MASTER_FIELD | Master Field | Mix Bus | Master Bus (authority-chain middle slot, between PLATINUM and ANKH) | No | Macro master-field structure and finish stage in the authority chain. |
|---------|--------------|--------------|---------|---------------------------------------------------------------------|----|-----------------------------------------------------------------------|

UTILITY\_OBSERVATION — Green — 1 plugin

| SESHAT | OBSERVATION | Observation | Print/Analysis endpoint | Print/Master endpoint (last in every master chain) | No | Translates phi score into guidance; always last on the print/master endpoint; not counted toward the 3-active-processor limit. |
|--------|-------------|-------------|-------------------------|----------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------|

## Full 42-Plugin Index

Quick lookup, alphabetical within family order from CURRENT\_FAMILY\_AUTHORITY .md.

| 1  | GOLD                  | VOCAL_MIC_SOURCE        | Gold           | INSERT_SAFE        |
|----|-----------------------|-------------------------|----------------|--------------------|
| 2  | SILVER                | VOCAL_MIC_SOURCE        | Gold           | INSERT_SAFE        |
| 3  | WPR                   | VOCAL_MIC_SOURCE        | Gold           | INSERT_SAFE        |
| 4  | AEGIS_NOVA            | VOCAL_MIC_SOURCE        | Gold           | INSERT_SAFE        |
| 5  | TRIPLER               | VOCAL_MIC_SOURCE        | Gold           | INSERT_SAFE        |
| 6  | EchoLocate            | VOCAL_MIC_SOURCE        | Gold           | INSERT_SAFE        |
| 7  | ANUBIS                | DYNAMICS_GUARD          | Cyan           | INSERT_SAFE        |
| 8  | OTIS                  | DYNAMICS_GUARD          | Cyan           | INSERT_SAFE        |
| 9  | DEBO                  | DYNAMICS_GUARD          | Cyan           | INSERT_SAFE        |
| 10 | LOOKOUT               | DYNAMICS_GUARD          | Cyan           | INSERT_SAFE        |
| 11 | MARIANA               | BASS_LOW_END            | Brown/low-gold | LOW_END_SOURCE     |
| 12 | MONOLITH              | BASS_LOW_END            | Brown/low-gold | LOW_END_SOURCE     |
| 13 | DEPTH_BOOST_PRO       | BASS_LOW_END            | Brown/low-gold | LOW_END_SOURCE     |
| 14 | NTRPL                 | BASS_LOW_END            | Brown/low-gold | LOW_END_SOURCE     |
| 15 | DIH_DRUM_MORPHER      | DRUM_INSTRUMENT         | Red-orange     | CREATIVE_TRANSFORM |
| 16 | BALLPARK              | DRUM_INSTRUMENT         | Red-orange     | CREATIVE_TRANSFORM |
| 17 | DRUMKRUSHGLUE         | DRUM_INSTRUMENT         | Red-orange     | BUS_PREFERRED      |
| 18 | APIS                  | COLOR_AMP_TAPE          | Red-orange     | INSERT_SAFE        |
| 19 | PTAHTUBE              | COLOR_AMP_TAPE          | Red-orange     | INSERT_SAFE        |
| 20 | KHEPRI                | COLOR_AMP_TAPE          | Red-orange     | INSERT_SAFE        |
| 21 | SOVEREIGN             | COLOR_AMP_TAPE          | Red-orange     | MIX_BUS            |
| 22 | AUSET                 | FIELD_TONE_BALANCE      | White          | BUS_PREFERRED      |
| 23 | AUSAR                 | FIELD_TONE_BALANCE      | White          | BUS_PREFERRED      |
| 24 | DEPTH_IMPACT_HYBRID_X | DIMENSIONAL_IMPACT_MOVE | Purple         | INSERT_SAFE        |
| 25 | PARALLAX              | DIMENSIONAL_IMPACT_MOVE | Purple         | BUS_PREFERRED      |
| 26 | NSR                   | DIMENSIONAL_IMPACT_MOVE | Purple         | BUS_PREFERRED      |
| 27 | NTRSTLLR              | FX_SPATIAL              | Purple         | BUS_PREFERRED      |
| 28 | Cathedral             | FX_SPATIAL              | Purple         | BUS_PREFERRED      |

| 29 | SacredVerb      | FX_SPATIAL          | Purple     | BUS_PREFERRED      |
|----|-----------------|---------------------|------------|--------------------|
| 30 | THOTH           | HARMONICS_PITCH     | Green      | INSERT_SAFE        |
| 31 | TEHUTI          | HARMONICS_PITCH     | Green      | INSERT_SAFE        |
| 32 | AU              | HARMONICS_PITCH     | Green      | INSERT_SAFE        |
| 33 | SLOTMACHINE     | CREATIVE_TRANSFORM  | Red-orange | CREATIVE_TRANSFORM |
| 34 | ARCHAEOLOGIST_X | CREATIVE_TRANSFORM  | Red-orange | CREATIVE_TRANSFORM |
| 35 | SERQET          | CREATIVE_TRANSFORM  | Red-orange | CREATIVE_TRANSFORM |
| 36 | ANKH            | MASTERING_CORE      | Silver     | MASTER_FIELD       |
| 37 | SPHYNX          | MASTERING_CORE      | Silver     | MIX_BUS            |
| 38 | MAAT            | MASTERING_CORE      | Silver     | MIX_BUS            |
| 39 | HORIZON_X       | MASTERING_CORE      | Silver     | MIX_BUS            |
| 40 | PLATINUM        | MASTERING_CORE      | Silver     | MIX_BUS            |
| 41 | IMHOTEP         | MASTER_FIELD        | Silver     | MASTER_FIELD       |
| 42 | SESHAT          | UTILITY_OBSERVATION | Green      | OBSERVATION        |

## Maintenance Rule

When a plugin's family, color, or Smart Position class changes in `CURRENT_FAMILY_AUTHORITY.md` or `SMART_POSITION_MANIFEST.json`, update that plugin's row here in the same pass. This file should never drift ahead of or behind those two authority files.