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**Konnaxion Platform – Definitive Parameter Reference (v14‑stable)** *All TBD values are now fixed; names follow Cookiecutter‑Django conventions (UPPER\_SNAKE for settings.py, DJANGO\_…/APP\_… for .envs files, choices= enums in models). Nothing here adds new tables, routes or functions – it only freezes configuration knobs already implied in the v14 spec.*

## **0  Global / Core (shared by all apps)**

| **Parameter** | **Location** | **Final value** | **Rationale** |
| --- | --- | --- | --- |
| SEARCH\_BACKEND | settings.BASE | "postgres" | Choose PostgreSQL tsvector‑based full‑text search as the default; ElasticSearch can be added later if needed |
| CHANNEL\_LAYERS["default"]["BACKEND"] | settings.local | "channels\_redis.core.RedisChannelLayer" | Re‑uses the Redis container already present in the Cookiecutter stack |
| DEFAULT\_FROM\_EMAIL | .envs/.local/.django | noreply@konnaxion.local | Aligns with cookiecutter pattern |
| MEDIA\_ROOT | settings.BASE | /app/media/ | Single bucket mount for all modules |
| STATICFILES\_STORAGE | settings.production | "whitenoise.storage.CompressedManifestStaticFilesStorage" | Matches cookiecutter production preset |
| LANGUAGES | settings.BASE | en, fr, es, ar | Four‑language baseline for i18n |
| TIME\_ZONE | settings.BASE | "UTC" | Keeps server‑side consistency (users set own TZ) |

## **1  Kollective Intelligence**

### **1.1 EkoH (engine)**

| **Parameter** | **Model / Setting** | **Type / Range** | **Default** |
| --- | --- | --- | --- |
| raw\_weight\_quality | ScoreConfiguration | Decimal(4,3) | **1.000** |
| raw\_weight\_expertise | ScoreConfiguration | Decimal(4,3) | **1.500** |
| raw\_weight\_frequency | ScoreConfiguration | Decimal(4,3) | **0.750** |
| ethical\_multiplier\_floor | settings.EKOH | float 0‑1 | **0.20** |
| ethical\_multiplier\_cap | settings.EKOH | float 1‑2 | **1.50** |
| EXPERTISE\_DOMAIN\_CHOICES | ExpertiseCategory | enum of 26 ISO‑based domains | frozen list in fixtures |

These weights are the initial coefficients for the **multidimensional\_scoring** service and correspond 1‑for‑1 with “quality, frequency, relevance, expertise” axes defined in the functionality inventory .

### **1.2 Smart Vote (engine)**

| **Parameter** | **Setting** | **Value / Enum** |
| --- | --- | --- |
| VOTE\_MODALITY\_CHOICES | VoteModality | "approval", "ranking", "rating", "preferential" |
| EMERGING\_EXPERT\_THRESHOLD | settings.SMART\_VOTE | **+15 % Ekoh delta over 30 days** |
| CONSENSUS\_STRONG\_THRESHOLD | settings.SMART\_VOTE | **≥ 75 % weighted agreement** |

## **2  ethiKos**

| **Parameter** | **Location** | **Final value** |
| --- | --- | --- |
| **Stance scale mapping** | EthikosStance.stance\_value | int **‑3 … +3** (“strongly against” → “strongly for”); 0 = neutral |
| **Minimum expert votes for result display** | settings.ETHIKOS | **12 distinct experts** (Ekoh > 75th percentile in topic domain) |
| **Moderation auto‑hide threshold** | DebateArgument.is\_hidden flag | **3 independent reports** |
| **AI clone training batch size** | .envs/.local/.django → ETHIKOS\_AI\_BATCH | **128** |

These close every “TBD” noted in the ethiKos spec (stance granularity, expert quorum, moderation trigger) .

## **3  keenKonnect**

| **Parameter** | **Location** | **Final value** |
| --- | --- | --- |
| MAX\_BLUEPRINT\_UPLOAD\_MB | settings.STORAGE | **150 MB** |
| ALLOWED\_BLUEPRINT\_TYPES | constant in ProjectResource | [".pdf", ".png", ".jpg", ".glb", ".gltf", ".stl"] |
| COLLAB\_SPACE\_MEMBER\_CAP | CollaborationSpace | **40** |
| AI\_SUGGESTION\_TOP\_N | settings.KEENKONNECT | **8** user suggestions per request |
| VIDEO\_SESSION\_PROVIDER | env var KC\_VIDEO\_PROVIDER | "livekit" (self‑hosted) |

All map directly to features in the technical spec and functionalities table .

## **4  KonnectED**

| **Parameter** | **Location** | **Final value** |
| --- | --- | --- |
| OFFLINE\_PACKAGE\_CRON | Celery Beat | 0 3 \* \* SUN (every Sunday at 03:00 UTC) |
| CERT\_PASS\_PERCENT | CertificationPath | **80 %** |
| QUIZ\_RETRY\_COOLDOWN\_MIN | settings.KONNECTED | **30** minutes |
| CONTENT\_TYPES\_ALLOWED | KnowledgeResource.type enum | "article", "video", "lesson", "quiz", "dataset" |
| MAX\_CONTRIBUTION\_DRAFTS | per user | **10** pending submissions |

## **5  Kreative**

| **Parameter** | **Location** | **Final value** |
| --- | --- | --- |
| ARTWORK\_MAX\_IMAGE\_MB | settings.KREATIVE | **50 MB** |
| ARTWORK\_RESOLUTIONS | image processing task | [256, 1024, 2048] px longest side |
| VIRTUAL\_GALLERY\_CAPACITY | VirtualExhibition | **24 artworks / room** |
| COLLAB\_CANVAS\_MAX\_USERS | CollabSession | **6** simultaneous editors |
| NSFW\_FLAG\_REQUIRED | upload form | boolean, default False |

## **6  Navigation & Route Invariants**

The **24 routes** enumerated in the Navigation Map are locked; any new path must be added via RFC process. Route‑to‑app ownership table:

| **Route prefix** | **Owning Django app** |
| --- | --- |
| /konsensus, /ekoh | kollective\_intelligence |
| /debate, /consult, /ethikos | ethikos |
| /projects, /impact | keenkonnect |
| /learn, /course, /certs | konnected |
| /kreative, /art, /archive, /connect, /profile | kreative |
| /chat, /team, /admin | core / django.contrib.admin |

No additional frontend pages may claim these prefixes without amending this reference .

## **7  Environment‑variable Matrix (cookiecutter‑compatible)**

| **Env var** | **Used by** | **Default (.local)** | **Notes** |
| --- | --- | --- | --- |
| DJANGO\_SECRET\_KEY | all | autogenerated | cookiecutter standard |
| DJANGO\_ALLOWED\_HOSTS | nginx + Django | localhost, 127.0.0.1 | extend per environment |
| DATABASE\_URL | Postgres | postgres://konnaxion@postgres:5432/konnaxion | set by cookiecutter |
| REDIS\_URL | Celery, Channels | redis://redis:6379/0 | — |
| SEARCH\_BACKEND | core search | postgres | see section 0 |
| EKOH\_MIN\_MULTIPLIER | Ekoh engine | 0.20 | editable in prod |
| EKOH\_MAX\_MULTIPLIER | Ekoh engine | 1.50 | — |
| KC\_VIDEO\_PROVIDER | keenKonnect | livekit | adjust if using Jitsi |
| OFFLINE\_PACKAGE\_CRON | KonnectED | 0 3 \* \* SUN | must stay UTC |

Add these to .envs/.local/.django; production overrides live in .envs/.production/.django.

### **How this document will be maintained**

* **Immutable commit rule:** Once merged into docs/parameter\_reference.md, changes require a pull‑request labelled **“param‑change”** and approval from both backend & frontend leads.
* **CI guard:** A lint step asserts that settings.\* and model enums keep the values defined here.
* **Version tag:** Each future alteration bumps a PARAM\_VERSION env var so containers can invalidate caches.