XENLOOK

Technical White Paper

12-language bound edition

XenLook Inc. · August 2026 · Version 2026-08-07-ALL

Language order

01. English (en)

02. 한국어 (ko)

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11. Bahasa Indonesia (id)

12. العربية (ar)

Core technology = patents · copyrights · trust governance (detailed in core chapter).

C2PA Trust List / Generator: under review. Patents & trademark: filed, not registered.

XENLOOK

XENLOOK Technical White Paper

Integrated edition · Core technology (patents · copyrights · trust governance) · trademark · roadmap

XenLook Inc. · August 2026 · Version 2026-08-07-ALL-r2

English · en

Core technology in this white paper has three axes. (1) Ten patents — problem, architecture, and effects of the inventions. (2) Five copyrights — registered expressions of products and norms (programs and literary work). (3) Trust and governance — safety, provenance, and external frameworks, written in detail inside the core-technology chapter. Patents and the trademark are filed, not yet registered. Full claim language is not published. C2PA Trust List and Generator are under review. ASB is described as a concept only.

1. Abstract

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Introduction — what we build

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Problem statement

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Core technology

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Patents — ten method/system inventions

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Patent 01 — Multi-stage external AI request verification and public audit system

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 Patent 02 — AI agent campus learning, assignment, and discussion system

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 Patent 03 — AI multi-creator studio system

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 Patent 04 — Speech-act multi-intent recognition and context-adaptive dialogue

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 Patent 05 — Multi-source context collection, assembly, and injection

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Patent 06 — Agent lifecycle governance

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 Patent 07 — Hierarchical content provenance for AI agent actions on AR wearables

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 Patent 08 — SOUL·IDENTITY three-lane persona media generation and provenance recording

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Patent 09 — 1:1 dialogue turn engine registry phase gate, candidate trace, pre-LLM safety block

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 Patent 10 — Minor multi-surface pre-gate feature gate and audit trace

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B Copyrights — five product/norm expressions

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Media content provenance authentication portal (program)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (program)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (program)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (program)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — AI Agent Constitution (literary)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Trust & governance (core technology · detailed)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Status definitions (fixed)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Safety & quality operations (in-product governance)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Media provenance governance (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 External frameworks & memberships (detailed status)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Binding governance to patents and copyrights

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. How core technology assembles the product

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Trademark

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Scope and limitations

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Product roadmap (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open

- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Conclusion

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Appendix A. Public surfaces & document index

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Appendix B. Glossary

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

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XENLOOK

XENLOOK 기술 백서

통합본 · 핵심 기술(특허·저작권·신뢰 거버넌스) · 상표 · 로드맵 · 12 개국 합본

주식회사 젠룩 (XenLook Inc.) · 2026 년 8 월 · Version 2026-08-07-ALL-r2

한국어 · ko

본 백서의 핵심 기술은 세 축으로 구성한다. (1) 특허 10 건 — 방법·시스템 발명의 과제·구성·효과. (2) 저작권 5 건 — 제품·규범의 표현물 등록(프로그램·어문). (3) 신뢰·거버넌스 — 안전·출처·외부 프레임워크를 핵심 기술 장 안에서 상세히 기술한다. 특허·상표는 출원 완료·등록 전이다. 청구범위 전문은 공개하지 않는다. C2PA Trust List·Generator 는 심사중이며, ASB 는 개념만 표출한다.

1. 요약

XenLook 은 글로벌 AI 동반자·창작 플랫폼이다. Korea-first beta 로 파트너 대화, 다중 에이전트, 페르소나 미디어, 출처 인증, 미성년 보호를 한 운영 체계로 묶는다.

핵심 기술을 '파이프라인 슬로건'으로 대체하지 않는다. 발명(특허)·표현물(저작권)·운영 신뢰(거버넌스)가 핵심 기술 본문이다.

- 핵심 기술 A — 특허 10 건 (KIPO 출원 완료 · 심사청구 전 · 등록 전)
- 핵심 기술 B — 저작권 5 건 (한국저작권위원회 등록 완료 · 등록증 실측)
- 핵심 기술 C — 신뢰·거버넌스 (상태 정의·프레임워크별 상세 · 본문 포함)
- 상표 1 건 — XENLOOK 워드마크 출원 40-2026-0119385 (등록 전)
- C2PA CA 영토: 한국→일본(KR→JP). 글로벌 CA 주장 없음

2. 서론 — 무엇을 만드는가

생성형 AI 제품의 경쟁축은 문장 품질만이 아니다. 페르소나 유지, 턴 단위 안전·비용 추적, 생성물 출처, 미성년 정책, 외부 신뢰 프레임워크에 대한 정직한 공시가 기술 본체가 된다.

XenLook 은 그 본체를 특허로 보호하고, 제품·헌법 표현물을 저작권으로 등록하며, 신뢰 운영을 핵심 기술 장에서 상세히 기술한다.

3. 문제 정의

공개 서비스에서 반복되는 실패 모드와, 핵심 기술 세 축의 대응 관계는 다음과 같다.

- 화행·복수 의도 붕괴 → 특허 제 4 호
- 정체성 희석·맥락 붕괴 → 특허 제 5 호 · 저작권(On·헌법)
- 에이전트 생애 관리 공백 → 특허 제 6 호
- 미디어 레인 불일치·출처 공백 → 특허 제 7·8 호 · 저작권(C2PA 포털)
- 전 엔진 호출·사후 안전·감사 단절 → 특허 제 1·9 호
- 미성년 surface 누수 → 특허 제 10 호
- 캠퍼스·스튜디오 운영 추적 공백 → 특허 제 2·3 호
- 과장 인증·상태 혼동 → 핵심 기술 C(신뢰·거버넌스)의 상태 정의·상세 표

4. 핵심 기술

핵심 기술은 특허(A) · 저작권(B) · 신뢰 거버넌스(C)로 대체한다. 아키텍처 슬로건만으로 본 장을 채우지 않는다.

4.A 특허 — 방법·시스템 발명 10 건

상태: 국내 출원 완료 · 심사청구 전 · 등록 전. 출원인: 주식회사 젠룩. 아래는 각 출원 명세서의 기술분야·과제·구성·효과를 백서용으로 재구성한 것이며 청구범위 전문을 대체하지 않는다.

4.A.1 제 1 호 — 외부 AI 요청 다단계 검증·공개 감사 시스템

출원번호 10-2026-0100026.

기술분야: 외부 AI 요청·멀티 엔진 오케스트레이션·운영 검증·공개 감사 가능한 상태 관리.

과제: 생성·대화·창작·배포가 상태 전이·감사 레코드로 연결되지 않으면 정책 위반·사후 증거 부족이 발생한다.

구성: 입력부 · 상태 수집부 · 오케스트레이션부 · 엔진 실행부 · 정책 게이트부 · 감사 기록부 · 공개/배포부. 도면 축: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

효과: 단일 LLM 호출 대비 운영 안정성·설명 가능성·비용 통제·공개 전 검수·출처 증거를 구조화한다.

4.A.2 제 2 호 — AI 에이전트 캠퍼스 학습·과제·토론 시스템

출원번호 10-2026-0100053.

과제: 학습·과제·토론이 단발 프롬프트로 흩어지면 성장 추적·공개 품질·감사가 끊긴다.

구성: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier 연계.

효과: 학습·토론·성장을 재현 가능한 운영 단위로 남기고 공개 전 검수와 연결한다.

4.A.3 제 3 호 — AI 멀티 크리에이터 창작 스튜디오 시스템

출원번호 10-2026-0100113.

과제: 협업 창작이 엔진·검수·전시와 분리되면 캐논 붕괴·출처 공백이 발생한다.

구성: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

효과: 창작 산출물의 협업·검수·전시를 추적 가능한 상태로 운영한다.

4.A.4 제 4 호 — 화행 신호 기반 다중 의도 인식 및 맥락 적응형 대화 처리

출원번호 10-2026-0117901.

과제: 단일 의도 라벨은 중첩 의도를 잃고, 화행(존칭·반문·완곡·망설임·자기비하·직접 명령) 무시 시 과잉공감이 발생한다.

구성: 의도 확률 벡터 P · 화행 신호 벡터 S · NunchiContext 결합 · 프롬프트 삽입 · 신뢰도 마진 M 분기 · EMA 시간 누적.

효과: 복수 의도 보존, 간접감정 포착 강화·과잉공감 억제, 불확실 시 명확화 질문, 의도 변화 추적.

4.A.5 제 5 호 — 다중 소스 맥락 수집·조립·주입

출원번호 10-2026-0117903.

과제: 단기 대화가 SOUL·IDENTITY·생애사를 덮어 정체성이 희석된다. 앱 scope 마다 다른 맥락 팩이 필요하다.

구성: 다중 소스 병렬 수집 → 토큰 예산 배정 → 앱 scope 분기 → prompt pack 조립·주입 → PII-free fingerprint.

효과: 정체성 유지·재현성, 스코프별 배정, 품질 분석과 개인정보 비저장 지문의 양립.

4.A.6 제 6 호 — 에이전트 생애주기 거버넌스

출원번호 10-2026-0117904.

과제: 삭제/무제한 공개 이분법은 IP·관계 손실 또는 위험 상태 방치를 만든다.

구성: birth·growth·maturity·decline·extinction · 성장 점수·위반 기록 · 게이트 분기 · 보류/복구 · 헤더 전파.

효과: 위험 격리와 IP·관계 보존 병행, Chronicle 승격을 growth·공개 품질 게이트로 제어.

4.A.7 제 7 호 — AR 웨어러블 AI 에이전트 행위의 계층적 콘텐츠 출처 인증

출원번호 10-2026-0121013.

과제: 촬영 단일 서명만으로는 추론(M2)·표시(M3) 단계 출처가 분리되지 않는다.

구성: M1 촬영 → M2 에이전트 행위(c2pa.ingredient.v3 로 M1 참조) → M3 오버레이·인지(M1·M2 참조) · COSE_Sign1·X.509·해시 오프라인 검증.

효과: 단절 환경 검증, 단계별 위변조 탐지, 다중 에이전트 신뢰 체인, 촬영-합성 프로비넌스 루프.

4.A.8 제 8 호 — SOUL·IDENTITY 기반 3 레인 페르소나 미디어 생성·출처 기록

출원번호 10-2026-0121018.

과제: 페르소나 선행 로드 없이 레인마다 정체성이 붕괴하고, 미검증 산출물 서명은 출처를 오염시킨다.

구성: 페르소나 로더(필수 필드 누락 시 거부) → 레인 라우터(동일 personaPackHash) → 충실도 심사(pass/requeue/block) → 통과분만 C2PA v2.4 삽입.

효과: 3 레인 정체성 일치, 자동 재큐, 통과 산출물에만 출처 서명.

4.A.9 제 9 호 — 1:1 대화 턴 엔진 등록부 단계 게이트·미호출 후보 추적·선행 안전 차단

출원번호 10-2026-0123982.

과제: 전 엔진 호출 비용·지연, 미호출 흔적 부재, 사후 안전으로 인한 불필요 추론, 분산 로그로 턴 재구성 불가.

구성: 턴 상관 식별자 · 단계 게이트 · 미호출 엔진마다 후보 전용·비용 0 추적 · LLM 전 안전 차단 시 미전송 토큰 추정 기록 · 하류 미호출.

효과: 호출·미호출·차단을 한 상관 식별자로 감사 재현. 명세서 기재 정량은 출원인 자체 측정이며 외부 공인 성적이 아니다.

4.A.10 제 10 호 — 미성년자 복수 서비스 면 사전 기능 게이트·감사 추적

출원번호 10-2026-0124000.

과제: surface 정책 누수, 화면만 막고 API 는 통과하는 형식적 차단, 면마다 다른 미성년 판정, 수정 가능한 로그만으로 재현 불가.

구성: 단일 미성년 프로필 · API 경로별 surface 정책 사전 평가 · 차단 시 하류 미호출 · 차단 사유·surface·상관 식별자·후보 전용 감사.

효과: 누수·형식적 차단 감소, 사전 차단 증거 보존. 정량은 명세서 실시예 기준·외부 공인 성적 아님.

4.B 저작권 — 제품·규범 표현물 5 건

저작권은 '목록'이 아니라 핵심 기술의 표현 축이다. 특허가 방법·시스템을 보호한다면, 저작권은 그 방법이 구현된 프로그램·규범 문서의 표현을 등록한다. 기관: 한국저작권위원회 · 『저작권법』 제 53 조. 등록증 PDF 실측.

4.B.1 C-2026-036487 — 미디어 콘텐츠 출처 인증 포털 (프로그램)

등록일 2026.07.23 · 창작 2026.07.05 · 저작자 주식회사 젠룩.

기술 역할: C2PA 매니페스트 embed·verify·conformance, Trust List/CA 신청·추적 UI, 운영 투명성 대시보드. 특허 제 7·8 호의 출처 축을 공개 포털 표현물로 고정한다. CA Trust List·Generator 는 심사중 상태를 제품 카피에 정직 반영한다.

4.B.2 C-2026-037388 — XenLook On (프로그램)

등록일 2026.07.30 · 제호: XenLook On - 에이전트 대화·갤러리·프로필 · 저작자 주식회사 젠룩.

기술 역할: 1:1 대화 셸, 에이전트 갤러리·프로필·생애사 탭, 온보딩. 특허 제 4·5·6·9·10 호가 동작하는 주 대화 표면의 표현물이다.

4.B.3 C-2026-037389 — XenLook Landing (프로그램)

등록일 2026.07.30 · 공개 마케팅·컴플라이언스·블로그 표면 · 저작자 주식회사 젠룩.

기술 역할: 제품·정책·인증 허브·지식재산 공시의 공개 진입점. 핵심 기술 C 의신뢰 상태)와 IP 공시를 사용자에게 전달하는 표현물이다.

4.B.4 C-2026-037390 — XenLook Signal (프로그램)

등록일 2026.07.30 · AI 안전 시뮬레이션·기술 질문 아카이브 · 저작자 주식회사 젠룩.

기술 역할: 안전·기술 질의·아카이브 표면. 특허 제 1 호 공개 감사·검증 축과 맞물리는 공개 실험·기록 표현물이다.

4.B.5 C-2026-037563 — AI 에이전트 헌법 (어문저작물)

등록일 2026.07.31 · 창작 2026.05.18 · 공표 2026.06.01 · 공동저작자 양연경·남현우.

기술 역할: 에이전트 운영·윤리·정체성 규범의 어문 표현. 특허 제 9 호의 헌법형 선행 안전 차단·품질 정책과 규범적으로 연결된다. 프로그램 저작권과 별도로 어문 등록된다.

4.C 신뢰·거버넌스 (핵심 기술 · 상세)

신뢰·거버넌스는 부록이 아니라 핵심 기술이다. 특허·저작권이 '무엇을 만들었는가'라면, 본 절은 '어떻게 검증·공시·심사 상태를 운영하는가'이다. 상태를 섞어 Certified 처럼 쓰지 않는다.

4.C.1 상태 정의 (고정)

- 자가평가 — 내부 점검·공개 증빙 팩 완료. 제 3 자 인증서 아님
- 등재 — 외부 레지스트리·멤버십에 게시된 사실
- 심사중 — 외부 심사가 진행 중이며 승인·등재 완료가 아님
- 로드맵 — 일정·계획만 존재하거나 미착수
- 보유 아님 — Certified / CE 부착 / Trust List 등재 완료 등 주장 금지

4.C.2 안전·품질 운영 (제품 내 거버넌스)

대화 턴은 안전 게이트와 엔진 등록부·단계 게이트를 통과한다(특허 제 9 호). 미성년은 surface·API 경로 사전 게이트로 하류 호출을 막는다(특허 제 10 호). 페르소나 미디어는 충실도 심사 통과 후에만 출처 서명을 붙인다(특허 제 8 호). 공개 전 검증·감사 레코드는 제 1 호 축으로 남긴다.

품질 루브릭(공감·인사·정체성 등 최소 조건·AI 주장 금지)과 dual-LLM terminal chain 은 운영 정책으로 강제하며, 이를 '제품 100 점' 또는 법적 클리어런스로 대체 주장하지 않는다.

4.C.3 미디어 출처 거버넌스 (C2PA)

C2PA Certification Authority Agreement 는 체결되었다(2026-06-13). 영토는 한국→일본(KR→JP)이며 글로벌 CA 를 주장하지 않는다.

Trust List 등재와 Generator 프로그램은 현재 심사중이다. 공개 카피·포털·본 백서는 '심사중/under review'로만 표기한다. 등재 완료·승인 완료로 쓰지 않는다.

저작권 등록 포털(C-2026-036487)이 이 거버넌스의 공개 표현물이다. 계층적 매니페스트(M1-M3)·3 레인 서명 게이트는 특허 제 7·8 호와 연결된다.

4.C.4 외부 프레임워크·멤버십 (상세 현황)

상세 허브: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11 원칙 자가평가 완료 · 증빙 팩 CI 유지 · IMDA registry certification 아님 · 공개 페이지에서 자가평가로 표기
- TTA genAI / Trust Ops — 자가평가·운영 매핑 문서화 · TTA CAT 공식 시험 수료 주장 없음 · CAT 는 로드맵(예: 일정 도래 시 신청)
- NIST AI RMF — 기능·리스크를 RMF 함수에 매핑한 증빙 · NIST 인증서 보유 주장 없음
- OWASP LLM Top 10 — 위협 항목별 완화·게이트 매핑 · 인증 프로그램 아님
- CSA STAR Level 1 — Cloud Security Alliance 레지스트리 등재 · self-assessment 성격 · 등재일 게시분(2026-06-12) 기준
- CAI (Coalition for Content Provenance and Authenticity) — 멤버십 등재
- C2PA CA Agreement — 체결 · Trust List·Generator 심사중 (위 4.C.3)
- NVIDIA Inception — Stage 1 등재
- EU CE / CRA — 준비·잔여 작업 추적 · CE 마킹 부착·적합 선언 완료 주장 없음
- WCAG 2.2 AA — 내부 접근성 게이트 · 제 3 자 감사 성적서로 대체 주장 없음

- 대한민국 AI 기본법 관련 체크리스트 — 내부 점검·이용자 고지 · 정부 인증·허가로 오해될 표기 금지
- 일본 AI 가이드라인·미국 공시·EU Art.50 작업 — 관할 공시 허브에 문서화 · 완료 Certified 아님

4.C.5 거버넌스와 특허·저작권의 결합

- 안전 선행 차단·미호출 추적 (특허 9) ↔ 헌법·품질 정책 (저작권 헌법·On)
- 미성년 surface 게이트 (특허 10) ↔ Landing/On 고지·게이트 UI
- 출처 M1-M3·3 레인 서명 (특허 7·8) ↔ C2PA 포털 저작권 · Trust List 심사중 공시
- 공개 전 검증·감사 (특허 1) ↔ Signal·Landing 컴플라이언스 면
- 외부 프레임워크 자가평가/등재/심사중 표 (4.C.4) ↔ /ai-certification 허브

5. 핵심 기술이 제품을 어떻게 조립하는가

- 파트너 대화(On 저작권): 특허 4·5·6·9·10 + 4.C.2 안전·품질
- 미디어·갤러리: 특허 8(+7) + C2PA 포털 저작권 + 4.C.3 심사중 공시
- 캠퍼스·스튜디오: 특허 2·3 + 특허 1 공개 전 검증
- 공개 신뢰 허브(Landing 저작권): 4.C.4 프레임워크 상세 + IP 공시

6. 상표

- 표장: XENLOOK 워드마크
- 출원번호: 40-2026-0119385
- 접수번호: 1-1-2026-0720692-53 · 접수일 2026-06-13
- 서류: 상표등록출원서 (제 09 류를 포함한 3 개류)
- 상태: 출원 완료 · 등록 전

7. 범위와 한계

- 포함: 특허 과제·구성·효과, 저작권 등록 표현물의 기술 역할, 신뢰 거버넌스 상세, 상표, 2027 로드맵
- 비포함: 청구범위 전문·도면 전문·모델 가중치·학습 데이터 구성
- ASB: 개념만 · 구현 완료 주장 없음
- 명세서 정량 = 출원인 자체 측정 · 외부 공인 성적 아님
- 제품 100 점·법적 클리어런스 완결 선언 없음

8. 제품 로드맵 (2027)

- 2027 년 1 분기 — XenLook Guild 오픈
- 2027 년 1 분기 — 에이전트 표준 뇌 ASB (개념 표출)
- 2027 년 2~3 분기 — 젠룩 월드 (XenLook World)
- 2027 년 4 분기 — Agent OS 오픈
- 병행 — C2PA Trust List·Generator 심사 · KR→JP CA · 특허 심사청구는 예산·일정

9. 결론

핵심 기술은 특허 10 건과 저작권 5 건, 그리고 그 안에서 상세히 기술한 신뢰·거버넌스다. 인증 배지로 기술을 대체하지 않으며, 심사중·자가평가·등재를 혼동하지 않는다.

부록 A. 공개 면·문서 인덱스

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- 본 백서: https://xenlook.com/ai-certification#tech-cert-whitepaper

부록 B. 용어

- SOUL / IDENTITY / CHRONICLE — 영혼·정체성·생애사
- surface — API 경로로 구분되는 서비스 면
- personaPackHash — 3 레인 동일 주입 페르소나 팩 해시
- C2PA — Content Provenance and Authenticity
- 자가평가 / 등재 / 심사중 / 로드맵 / 보유 아님 — 4.C.1 상태 정의
- ASB — Agent Standard Brain · 개념만
- KR→JP CA — C2PA CA 영토

문의: help@xenlook.com · 주식회사 젠룩 · https://xenlook.com

XENLOOK

XENLOOK 技術白書

統合版・コア技術（特許·著作権·信頼ガバナンス）·商標・ロードマップ・12 言語合本

株式会社ジェンルック（XenLook Inc.）· 2026 年 8 月 · Version 2026-08-07-ALL-r2

日本語 · ja

本白書のコア技術は三軸である。(1)特許 10 件—課題·構成·効果。(2)著作権 5 件—製品·規範の表現物登録。(3)信頼·ガバナンス—安全·来歴·外部枠組みをコア章で詳述。特許·商標は出願済·未登録。請求項全文は公開しない。C2PA Trust List·Generator は審査中。ASB は概念のみ。

1. 要約

XenLook はグローバル AI コンパニオン·創作プラットフォームである。Korea-first ベータとしてパートナー対話·多エージェント·来歴付きメディア·未成年保護を一つの運用系に束ねる。

コア技術をパイプライン標語で代替しない。発明（特許）·表現（著作権）·運用信頼（ガバナンス）が本文である。

- コア A — 特許 10 件（KIPO 出願済・審査請求前・未登録）
- コア B — 著作権 5 件（韓国著作権委員会・登録証確認）
- コア C — 信頼·ガバナンス（状態定義・枠組み詳細・コア章内）
- 商標 — XENLOOK ワードマーク出願 40-2026-0119385（出願済·未登録）
- C2PA CA 領域: 韓国→日本（KR→JP）。グローバル CA 主張なし。

2. 序論 — 何を作るか

生成 AI の競争軸は返答品質だけではない。ペルソナ維持·ターン単位の安全·コスト追跡·来歴·未成年政策·外部信頼枠組みの誠実な開示が技術本体である。

XenLook はその本体を特許で保護し、製品·憲法表現を著作権登録し、信頼運用をコア技術章で詳述する。

3. 問題定義

公開サービスで繰り返される失敗モードと三軸の対応は次のとおり。

- 発話行為·多意図の崩壊 → 特許 04
- アイデンティティ希釈·文脈崩壊 → 特許 05・著作権（On·憲法）

- エージェント生涯管理の空白 → 特許 06
- メディアレーン不一致·来歴欠落 → 特許 07·08・著作権（C2PA ポータル）
- 全エンジン呼出·事後安全·監査断絶 → 特許 01·09
- 未成年 surface 漏えい → 特許 10
- キャンパス·スタジオ追跡空白 → 特許 02·03
- 過大な認証表示·状態混同 → コア C の状態定義·詳細表

4. コア技術

コア技術は特許(A)·著作権(B)·信頼ガバナンス(C)で代替する。アーキテクチャ標語だけで本章を埋めない。

4.A 特許 — 方法·システム発明 10 件

状態: 国内出願済・審査請求前・未登録。出願人: 株式会社ジェンルック。以下は各明細書の分野·課題·構成·効果を白書用に再構成したものであり、請求項全文を代替しない。

4.A.1 第 1 号 — 外部 AI リクエスト多段階検証·公開監査システム

出願番号 10-2026-0100026.

技術分野: 外部 AI リクエスト、マルチエンジンオーケストレーション、運用検証、公開可能な監査状態。

課題: If create/chat/create/deploy paths lack state transitions and audit records, policy breaches and missing evidence follow.

構成: Input・state collection・orchestration・engine execution・policy gate・audit・publish/deploy. Axes: Gate Filter・Priority Queue・Integrity Check・Curation・Public Display・Audit Log・Safety Score.

効果: Structures stability, explainability, cost control, pre-publish review, and provenance versus a single LLM call.

4.A.2 第 2 号 — AI エージェントキャンパス学習·課題·討論システム

出願番号 10-2026-0100053.

課題: Learning/assignments/debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

構成: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

効果: Keeps learning/debate/growth as reproducible units tied to pre-publish review.

4.A.3 第 3 号 — AI マルチクリエイター創作スタジオシステム

出願番号 10-2026-0100113.

課題: Collaborative creation separated from engines/review/exhibition collapses canon and provenance.

構成: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

効果: Operates collaboration, review, and exhibition as traceable state.

4.A.4 第 4 号 — 発話行為信号に基づく多意図認識および文脈適応型対話処理

出願番号 10-2026-0117901.

課題: Single-label intent loses stacked intents; ignoring speech acts drives over-empathy.

構成: Intent vector P · speech-act vector S · NunchiContext · prompt injection · margin-M branching · EMA accumulation.

効果: Preserves multi-intent, strengthens indirect-emotion capture, clarifies under uncertainty, tracks intent drift.

4.A.5 第 5 号 — 複数ソース文脈収集·組立·注入

出願番号 10-2026-0117903.

課題: Short-term chat overwrites SOUL/IDENTITY/chronicle; each app scope needs a different context pack.

構成: Parallel multi-source collect → token budget → app-scope branch → prompt-pack inject → PII-free fingerprint.

効果: Identity retention, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 第 6 号 — エージェントライフサイクルガバナンス

出願番号 10-2026-0117904.

課題: Delete-versus-unlimited-publish binaries destroy IP/relationships or leave unsafe agents live.

構成: birth·growth·maturity·decline·extinction · scores/violations · gates · hold/recover · header propagation.

効果: Isolate risk while preserving IP/relationships; Chronicle promotion via growth and public-quality gates.

4.A.7 第 7 号 — AR ウェアラブル AI エージェント行為の階層的コンテンツ来歴認証

出願番号 10-2026-0121013.

課題: A single capture-time signature does not separate inference (M2) and display (M3) provenance.

構成: M1 capture → M2 agent action (c2pa.ingredient.v3→M1) → M3 overlay (→M1·M2) · COSE_Sign1·X.509·hash offline verify.

効果: Offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite loop.

4.A.8 第 8 号 — SOUL·IDENTITY ベース 3 レーンペルソナメディア生成·来歴記録

出願番号 10-2026-0121018.

課題: Without persona pre-load, identity collapses across lanes; signing unverified outputs contaminates provenance.

構成: Persona loader → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

効果: Cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 第 9 号 — 1:1 対話ターンエンジン登録簿段階ゲート·未呼出候補追跡·事前安全遮断

出願番号 10-2026-0123982.

課題: All-engine call cost, no uncalled-engine traces, wasteful post-hoc safety, fragmented logs.

構成: Per-turn correlation ID · phase gate · candidate-only cost-0 traces · pre-LLM safety records unsent-token estimates · no downstream LLM.

効果: Reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party grades.

4.A.10 第 10 号 — 未成年者複数サービス面事前機能ゲート·監査追跡

出願番号 10-2026-0124000.

課題: Cross-surface leak, UI-only blocks that still call APIs, inconsistent minor determination, mutable logs.

構成: Single minor profile · per-API-path surface pre-eval · on block no downstream call · audit reason·surface·correlation·candidate-only.

効果: Reduces leak and cosmetic blocks; preserves pre-block evidence.

4.B 著作権 — 製品·規範の表現物 5 件

著作権はリストではなくコア技術の表現軸である。特許が方法·システムを保護するなら、著作権はその実装であるプログラム·規範文書の表現を登録する。機関: 韓国著作権委員会 · 著作権法第 53 条。登録証 PDF 確認済。

4.B.1 C-2026-036487 — メディアコンテンツ来歴認証ポータル（プログラム）

登録日 2026-07-23 · 著作者 株式会社ジェンルック。

役割: C2PA embed/verify/conformance、Trust List/CA 申請追跡 UI、透明性ダッシュボード。特許 07·08 の公開表現。Trust List·Generator は審査中と正直に表記。

4.B.2 C-2026-037388 — XenLook On（プログラム）

登録日 2026-07-30 · XenLook On — エージェント対話·ギャラリー·プロフィール。

役割: 1:1 対話シェル、ギャラリー·プロフィール·生涯史タブ。特許 04·05·06·09·10 が動く主対話面。

4.B.3 C-2026-037389 — XenLook Landing（プログラム）

登録日 2026-07-30 · 公開マーケ·コンプライアンス·ブログ面。

役割: 製品·政策·認証ハブ·IP 開示の公開入口。コア C 信頼状態の伝達面。

4.B.4 C-2026-037390 — XenLook Signal（プログラム）

登録日 2026-07-30 · AI 安全シミュレーション·技術 Q アーカイブ。

役割: 安全·技術質問·アーカイブ面。特許 01 の公開監査軸と接続。

4.B.5 C-2026-037563 — AI エージェント憲法（言語著作物）

登録日 2026-07-31・共同著作者 ヤン·ヨンギョン・ナム·ヒョンウ。

役割: エージェント運用·倫理·アイデンティティ規範の言語表現。特許 09 の憲法型事前安全と規範的に接続。

4.C 信頼·ガバナンス（コア技術·詳細）

信頼·ガバナンスは付録ではなくコア技術である。特許·著作権が『何を作ったか』なら、本節は『どう検証·開示·審査状態を運用するか』である。状態を混ぜて Certified のように書かない。

4.C.1 状態定義（固定）

- 自己評価 — 内部点検·公開エビデンス完了。第三者証明書ではない
- 登載 — 外部レジストリ·会員名簿に掲載された事実
- 審査中 — 外部審査進行中。承認·登載完了ではない
- ロードマップ — 予定·計画のみ、または未着手
- 未保有 — Certified / CE 貼付 / Trust List 登載完了などの主張禁止

4.C.2 安全·品質運用（製品内ガバナンス）

対話ターンは安全ゲートとエンジン登録簿·段階ゲートを通過する（特許 09）。未成年は surface·API 経路の事前ゲートで下流呼出を止める（特許 10）。ペルソナメディアは忠実度審査通過後にのみ来歴署名する（特許 08）。公開前検証·監査記録は特許 01 軸。

品質ルーブリックと dual-LLM terminal chain は運用ポリシーであり、製品 100 点や法的クリアランス完了の代替主張ではない。

4.C.3 メディア来歴ガバナンス（C2PA）

C2PA Certification Authority Agreement は締結済（2026-06-13）。領域は韓国→日本（KR→JP）。グローバル CA 主張なし。

Trust List 登載と Generator は審査中。公開コピー·ポータル·本白書は審査中/under review のみ。登載完了·承認完了と書かない。

著作権登録ポータル（C-2026-036487）がこのガバナンスの公開表現。階層マニフェスト（M1–M3）·3 レーン署名ゲートは特許 07·08 と接続。

4.C.4 外部フレームワーク·会員資格（詳細現状）

ハブ: https://xenlook.com/ai-certification・https://xenlook.com/compliance

- IMDA AI Verify — 11 原則自己評価完了・エビデンス CI・IMDA registry certification ではない
- TTA genAI / Trust Ops — 自己評価·運用マッピング・TTA CAT 受領主張なし・CAT はロードマップ
- NIST AI RMF — マッピング証跡・NIST 証明書保有主張なし
- OWASP LLM Top 10 — 脅威·制御マッピング・認証プログラムではない
- CSA STAR Level 1 — レジストリ登載・self-assessment・2026-06-12 掲載分
- CAI 会員 — 登載
- C2PA CA Agreement — 締結・Trust List·Generator 審査中
- NVIDIA Inception — Stage 1
- EU CE / CRA — 準備·残件追跡・CE マーキング主張なし
- WCAG 2.2 AA — 内部ゲート・第三者監査成績書の代替ではない
- 韓国 AI 基本法チェックリスト — 内部点検·利用者告知・政府認証ではない
- 日本 AI ガイドライン·米国開示·EU Art.50 — 管轄ハブに文書化・Certified 完了ではない

4.C.5 ガバナンスと特許·著作権の結合

- 事前安全·未呼出追跡（特許 09）↔ 憲法·On 品質政策
- 未成年 surface ゲート（特許 10）↔ Landing/On 告知·ゲート UI
- 来歴 M1–M3·3 レーン署名（特許 07·08）↔ C2PA ポータル著作権・Trust List 審査中開示
- 公開前検証·監査（特許 01）↔ Signal·Landing コンプライアンス面
- 枠組み自己評価/登載/審査中表（4.C.4）↔ /ai-certification ハブ

5. コア技術が製品をどう組み立てるか

- パートナー対話（On 著作権）: 特許 04·05·06·09·10 + 4.C.2
- メディア·ギャラリー: 特許 08(+07) + C2PA ポータル著作権 + 4.C.3
- キャンパス·スタジオ: 特許 02·03 + 特許 01
- 公開信頼ハブ（Landing 著作権）: 4.C.4 + IP 開示

6. 商標

- 標章: XENLOOK ワードマーク
- 出願番号: 40-2026-0119385
- 受付番号: 1-1-2026-0720692-53・2026-06-13
- 書類: 商標登録出願書（第 09 類を含む 3 類）
- 状態: 出願済・未登録

7. 範囲と限界

- 含む: 特許の課題·構成·効果、著作権登録の技術的役割、信頼ガバナンス詳細、商標、2027 ロードマップ
- 含まない: 請求項全文·図面全文·モデル重み·学習データ構成
- ASB: 概念のみ・実装完了主張なし
- 明細書定量 = 出願人自己測定・外部公認成績ではない
- 製品 100 点·法的クリアランス完了宣言なし

8. 製品ロードマップ（2027）

- 2027 年 1Q — XenLook Guild 公開
- 2027 年 1Q — エージェント標準脳 ASB（概念開示）
- 2027 年 2–3Q — XenLook World
- 2027 年 4Q — Agent OS 公開
- 並行 — C2PA Trust List·Generator 審査・KR→JP CA・特許審査請求は予算·日程次第

9. 結論

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

付録 A. 公開面·文書インデックス

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- 本白書: https://xenlook.com/ai-certification#tech-cert-whitepaper

付録 B. 用語

- SOUL / IDENTITY / CHRONICLE — 魂·アイデンティティ·生涯史
- surface — API 経路で区分されるサービス面
- personaPackHash — 3 レーン同一注入のペルソナパックハッシュ
- C2PA — Content Provenance and Authenticity
- 自己評価 / 登載 / 審査中 / ロードマップ / 未保有 — 4.C.1

- ASB — Agent Standard Brain・概念のみ
- KR→JP CA — C2PA CA 領域

問合せ: help@xenlook.com・株式会社ジェンルック・https://xenlook.com

XENLOOK

XENLOOK 技术白皮书

合订本 · 核心技术（专利 · 著作权 · 信任治理） · 商标 · 路线图 · 12 语合订

株式会社 XENLOOK（XenLook Inc.） · 2026 年 8 月 · Version 2026-08-07-ALL-r2

中文 · zh

本白皮书的核心技术由三轴构成。(1)专利 10 件—课题、构成与效果。(2)著作权 5 件—产品与规范表达物登记。(3)信任与治理—在核心技术章内详述安全、溯源与外部框架。专利与商标为已申请、尚未注册。不公开权利要求全文。C2PA Trust List 与 Generator 处于审查中。ASB 仅作概念表述。

1. 摘要

XenLook 是全球 AI 伙伴与创作平台。以韩国为首个测试市场，将伙伴对话、多智能体、带溯源媒体与未成年人保护纳入同一运营体系。

核心技术不以流水线口号代替。发明（专利）、表达（著作权）、运营信任（治理）构成本文主体。

- 核心 A — 专利 10 件（KIPO 已申请 · 审查请求前 · 未注册）
- 核心 B — 著作权 5 件（韩国著作权委员会 · 登记证核实）
- 核心 C — 信任与治理（状态定义 · 框架详情 · 位于核心章）
- 商标 — XENLOOK 字标申请 40-2026-0119385（已申请 · 未注册）
- C2PA CA 领土：韩国→日本（KR→JP）。不作全球 CA 主张。

2. 引言 — 我们建造什么

生成式 AI 的竞争维度不只是回复质量。人格一致性、每轮安全与成本追踪、内容溯源、未成年人政策，以及对外部信任框架的诚实披露，才是技术本体。

XenLook 以专利保护该本体，以著作权登记产品与宪章表达，并在核心技术章详述信任运营。

3. 问题定义

公开服务中反复出现的失败模式与三轴对应如下。

- 言语行为/多意图崩溃 → 专利 04
- 身份稀释/语境崩溃 → 专利 05 · 著作权（On · 宪法）
- 智能体生命周期空白 → 专利 06

- 媒体通道不一致/溯源缺失 → 专利 07・08 ・ 著作权（C2PA 门户）
- 全引擎调用/事后安全/审计断裂 → 专利 01・09
- 未成年人 surface 泄漏 → 专利 10
- 校园/工作室追踪空白 → 专利 02・03
- 夸大认证/状态混淆 → 核心 C 状态定义与详表

4. 核心技术

核心技术由专利(A)、著作权(B)、信任治理(C)替代。本章不以架构口号填充。

4.A 专利 — 方法/系统发明 10 件

状态：国内已申请 ・ 审查请求前 ・ 未注册。申请人：XenLook Inc.。以下为各说明书领域/课题/构成/效果的白皮书重构，不替代权利要求全文。

4.A.1 第 1 号 — 外部 AI 请求多阶段验证与公开审计系统

申请号 10-2026-0100026.

技术领域：外部 AI 请求、多引擎编排、运营验证、可公开审计状态。

课题： If create/chat/create/deploy paths lack state transitions and audit records, policy breaches and missing evidence follow.

构成： Input ・ state collection ・ orchestration ・ engine execution ・ policy gate ・ audit ・ publish/deploy. Axes: Gate Filter ・ Priority Queue ・ Integrity Check ・ Curation ・ Public Display ・ Audit Log ・ Safety Score.

效果： Structures stability, explainability, cost control, pre-publish review, and provenance versus a single LLM call.

4.A.2 第 2 号 — AI 智能体校园学习・作业・讨论系统

申请号 10-2026-0100053.

课题： Learning/assignments/debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

构成： Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

效果： Keeps learning/debate/growth as reproducible units tied to pre-publish review.

4.A.3 第 3 号 — AI 多创作者创作工作室系统

申请号 10-2026-0100113.

课题： Collaborative creation separated from engines/review/exhibition collapses canon and provenance.

构成： Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

效果： Operates collaboration, review, and exhibition as traceable state.

4.A.4 第 4 号 — 基于言语行为信号的多意图识别与语境自适应对话处理

申请号 10-2026-0117901.

课题： Single-label intent loses stacked intents; ignoring speech acts drives over-empathy.

构成： Intent vector P · speech-act vector S · NunchiContext · prompt injection · margin-M branching · EMA accumulation.

效果： Preserves multi-intent, strengthens indirect-emotion capture, clarifies under uncertainty, tracks intent drift.

4.A.5 第 5 号 — 多源语境收集・组装・注入

申请号 10-2026-0117903.

课题： Short-term chat overwrites SOUL/IDENTITY/chronicle; each app scope needs a different context pack.

构成： Parallel multi-source collect → token budget → app-scope branch → prompt-pack inject → PII-free fingerprint.

效果： Identity retention, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 第 6 号 — 智能体生命周期治理

申请号 10-2026-0117904.

课题： Delete-versus-unlimited-publish binaries destroy IP/relationships or leave unsafe agents live.

构成： birth・growth・maturity・decline・extinction · scores/violations · gates · hold/recover · header propagation.

效果： Isolate risk while preserving IP/relationships; Chronicle promotion via growth and public-quality gates.

4.A.7 第 7 号 — AR 可穿戴设备上 AI 智能体行为的分层内容溯源认证

申请号 10-2026-0121013.

课题： A single capture-time signature does not separate inference (M2) and display (M3) provenance.

构成： M1 capture → M2 agent action (c2pa.ingredient.v3→M1) → M3 overlay (→M1・M2) ・ COSE_Sign1・X.509・hash offline verify.

效果： Offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite loop.

4.A.8 第 8 号 — 基于 SOUL・IDENTITY 的三通道人格媒体生成与溯源记录

申请号 10-2026-0121018.

课题： Without persona pre-load, identity collapses across lanes; signing unverified outputs contaminates provenance.

构成： Persona loader → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

效果： Cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 第 9 号 — 一对一对话轮次引擎注册表阶段门控・未调用候选追踪・LLM 前安全阻断

申请号 10-2026-0123982.

课题： All-engine call cost, no uncalled-engine traces, wasteful post-hoc safety, fragmented logs.

构成： Per-turn correlation ID ・ phase gate ・ candidate-only cost-0 traces ・ pre-LLM safety records unsent-token estimates ・ no downstream LLM.

效果： Reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party grades.

4.A.10 第 10 号 — 未成年人多服务面预功能门控与审计追踪

申请号 10-2026-0124000.

课题： Cross-surface leak, UI-only blocks that still call APIs, inconsistent minor determination, mutable logs.

构成： Single minor profile ・ per-API-path surface pre-eval ・ on block no downstream call ・ audit reason・surface・correlation・candidate-only.

效果： Reduces leak and cosmetic blocks; preserves pre-block evidence.

4.B 著作权 — 产品/规范表达物 5 件

著作权不是清单，而是核心技术的表达轴。专利保护方法与系统；著作权登记实现它们的程序与规范文档表达。机构：韩国著作权委员会 · 《著作权法》第 53 条。登记证 PDF 已核实。

4.B.1 C-2026-036487 — 媒体内容溯源认证门户（程序）

登记日 2026-07-23 · 著作权人 XenLook Inc.

角色：C2PA 嵌入/验证/符合性、Trust List/CA 申请追踪 UI、透明度仪表盘。专利 07・08 的公开表达。Trust List 与 Generator 以审查中如实标示。

4.B.2 C-2026-037388 — XenLook On（程序）

登记日 2026-07-30 · XenLook On — 智能体对话・图库・资料。

角色：1:1 对话壳、图库/资料/生涯史标签页。专利 04・05・06・09・10 运行的主对话面。

4.B.3 C-2026-037389 — XenLook Landing（程序）

登记日 2026-07-30 · 公开营销・合规・博客面。

角色：产品、政策、认证中心与 IP 披露的公开入口；承载核心 C 信任状态。

4.B.4 C-2026-037390 — XenLook Signal（程序）

登记日 2026-07-30 · AI 安全模拟与技术问答档案。

角色：安全/技术问答与档案面，连接专利 01 公开审计轴。

4.B.5 C-2026-037563 — AI 智能体宪法（语言文字作品）

登记日 2026-07-31 · 共同作者 梁延庆 · 南贤佑。

角色：智能体运营/伦理/身份规范的文字表达；与专利 09 宪章型 LLM 前安全规范相连。

4.C 信任与治理（核心技术・详细）

信任与治理是核心技术，不是附录。专利与著作权回答“造了什么”，本节回答“如何验证、披露与运营审查状态”。不把状态混写成 Certified。

4.C.1 状态定义（固定）

- 自评 — 内部检查与公开证据包完成；非第三方证书
- 登载 — 已在外部登记册或会员名单发布
- 审查中 — 外部审查进行中；非批准/登载完成
- 路线图 — 仅有计划或尚未启动
- 未持有 — 禁止 Certified / CE 加贴 / Trust List 登载完成等主张

4.C.2 安全与质量运营（产品内治理）

对话轮次经过安全门控与引擎注册表阶段门控（专利 09）。未成年人由 surface/API 路径预门控阻止下游调用（专利 10）。人格媒体仅在忠实度通过后签名溯源（专利 08）。公开前验证与审计记录走专利 01。

质量量规与 dual-LLM 终端链是运营政策，不是产品满分或法律清关完成声明。

4.C.3 媒体溯源治理（C2PA）

C2PA 认证机构协议已签署（2026-06-13）。领土为韩国→日本（KR→JP）。不作全球 CA 主张。

Trust List 登载与 Generator 处于审查中。公开文案、门户与本白皮书仅使用审查中/under review，不写登载完成或批准完成。

著作权登记门户（C-2026-036487）是该治理的公开表达。分层清单（M1–M3）与三通道签名门控连接专利 07・08。

4.C.4 外部框架与会员资格（详细现状）

中心页: https://xenlook.com/ai-certification ・ https://xenlook.com/compliance

- IMDA AI Verify — 11 原则自评完成 ・ 证据 CI ・ 非 IMDA 登记认证
- TTA genAI / Trust Ops — 自评与运营映射 ・ 无 TTA CAT 已获主张 ・ CAT 在路线图
- NIST AI RMF — 映射证据 ・ 无 NIST 证书持有主张
- OWASP LLM Top 10 — 威胁-控制映射 ・ 非认证项目
- CSA STAR Level 1 — 登记册登载 ・ 自评性质 ・ 2026-06-12 刊登
- CAI 会员 — 已登载
- C2PA CA 协议 — 已签署 ・ Trust List 与 Generator 审查中
- NVIDIA Inception — Stage 1
- EU CE / CRA — 准备与残留跟踪 ・ 无 CE 加贴主张
- WCAG 2.2 AA — 内部门控 ・ 不替代第三方审计成绩
- 韩国《AI 基本法》清单 — 内部检查与用户告知 ・ 非政府认证

- 日本 AI 指南・美国披露・EU Art.50 — 辖区中心文档化 · 非 Certified 完成

4.C.5 治理与专利・著作权的结合

- LLM 前安全与未调用追踪（专利 09）↔ 宪法・On 质量政策
- 未成年人 surface 门控（专利 10）↔ Landing/On 告知与门控 UI
- 溯源 M1–M3・三通道签名（专利 07・08）↔ C2PA 门户著作权 · Trust List 审查中披露
- 公开前验证/审计（专利 01）↔ Signal・Landing 合规面
- 框架自评/登载/审查中表（4.C.4）↔ /ai-certification 中心

5. 核心技术如何组装产品

- 伙伴对话（On 著作权）: 专利 04・05・06・09・10 + 4.C.2
- 媒体/图库: 专利 08(+07) + C2PA 门户著作权 + 4.C.3
- 校园/工作室: 专利 02・03 + 专利 01
- 公开信任中心（Landing 著作权）: 4.C.4 + IP 披露

6. 商标

- 标志: XENLOOK 字标
- 申请号: 40-2026-0119385
- 受理号: 1-1-2026-0720692-53 · 2026-06-13
- 文件: 商标注册申请书（含第 09 类共 3 类）
- 状态: 已申请 · 未注册

7. 范围与限制

- 包含: 专利课题/构成/效果、著作权登记的技术角色、信任治理详情、商标、2027 路线图
- 不包含: 权利要求全文、附图全文、模型权重、训练数据构成
- ASB: 仅概念 · 无实现完成主张
- 说明书定量 = 申请人自测 · 非外部公认成绩
- 无产品满分或法律清关完成声明

8. 产品路线图（2027）

- 2027 年 1 季度 — XenLook Guild 开放
- 2027 年 1 季度 — 智能体标准脑 ASB（概念披露）
- 2027 年 2–3 季度 — XenLook World

- 2027 年 4 季度 — Agent OS 开放
- 并行 — C2PA Trust List/Generator 审查 · KR→JP CA · 专利审查请求视预算与日程

9. 结论

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

附录 A. 公开面与文档索引

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- 本白皮书: https://xenlook.com/ai-certification#tech-cert-whitepaper

附录 B. 术语

- SOUL / IDENTITY / CHRONICLE — 灵魂·身份·生涯史
- surface — 以 API 路径区分的服务面
- personaPackHash — 三通道同一注入的人格包哈希
- C2PA — Content Provenance and Authenticity
- 自评 / 登载 / 审查中 / 路线图 / 未持有 — 见 4.C.1
- ASB — Agent Standard Brain · 仅概念
- KR→JP CA — C2PA CA 领土

联系: help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

Libro blanco técnico XENLOOK

Edición integrada · Tecnología central (patentes · derechos de autor · gobernanza de confianza) · marca · hoja de ruta · 12 idiomas

XenLook Inc. · agosto 2026 · Version 2026-08-07-ALL-r2

Español · es

La tecnología central de este libro blanco tiene tres ejes. (1) Diez patentes. (2) Cinco derechos de autor. (3) Confianza y gobernanza, detalladas dentro del capítulo central. Patentes y marca: solicitadas, aún no registradas. Lista Trust C2PA y Generator: en revisión. ASB solo como concepto.

1. Resumen

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Introducción — qué construimos

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Definición del problema

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Tecnología central

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Patentes — diez invenciones de método/sistema

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Patente 01 — Verificación multi-etapa de solicitudes AI externas y auditoría pública

N.º de solicitud 10-2026-0100026.

Campo: solicitudes AI externas, orquestación multi-motor, verificación operativa, estado auditable de publicación.

Problema: If create/chat/create/deploy paths lack state transitions and audit records, policy breaches and missing evidence follow.

Estructura: Input · state collection · orchestration · engine execution · policy gate · audit · publish/deploy. Axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Efecto: Structures stability, explainability, cost control, pre-publish review, and provenance versus a single LLM call.

4.A.2 Patente 02 — Sistema campus de aprendizaje, tareas y debate de agentes AI

N.º de solicitud 10-2026-0100053.

Problema: Learning/assignments/debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Estructura: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Efecto: Keeps learning/debate/growth as reproducible units tied to pre-publish review.

4.A.3 Patente 03 — Sistema de estudio multi-creador AI

N.º de solicitud 10-2026-0100113.

Problema: Collaborative creation separated from engines/review/exhibition collapses canon and provenance.

Estructura: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Efecto: Operates collaboration, review, and exhibition as traceable state.

4.A.4 Patente 04 — Reconocimiento multi-intención por actos de habla y diálogo adaptativo

N.º de solicitud 10-2026-0117901.

Problema: Single-label intent loses stacked intents; ignoring speech acts drives over-empathy.

Estructura: Intent vector P · speech-act vector S · NunchiContext · prompt injection · margin-M branching · EMA accumulation.

Efecto: Preserves multi-intent, strengthens indirect-emotion capture, clarifies under uncertainty, tracks intent drift.

4.A.5 Patente 05 — Recolección, ensamblaje e inyección de contexto multi-fuente

N.º de solicitud 10-2026-0117903.

Problema: Short-term chat overwrites SOUL/IDENTITY/chronicle; each app scope needs a different context pack.

Estructura: Parallel multi-source collect → token budget → app-scope branch → prompt-pack inject → PII-free fingerprint.

Efecto: Identity retention, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Patente 06 — Gobernanza del ciclo de vida del agente

N.º de solicitud 10-2026-0117904.

Problema: Delete-versus-unlimited-publish binaries destroy IP/relationships or leave unsafe agents live.

Estructura: birth·growth·maturity·decline·extinction · scores/violations · gates · hold/recover · header propagation.

Efecto: Isolate risk while preserving IP/relationships; Chronicle promotion via growth and public-quality gates.

4.A.7 Patente 07 — Procedencia jerárquica de actos de agente AI en wearables AR

N.º de solicitud 10-2026-0121013.

Problema: A single capture-time signature does not separate inference (M2) and display (M3) provenance.

Estructura: M1 capture → M2 agent action (c2pa.ingredient.v3→M1) → M3 overlay (→M1·M2) · COSE_Sign1·X.509·hash offline verify.

Efecto: Offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite loop.

4.A.8 Patente 08 — Generación media de persona en 3 carriles SOUL·IDENTITY y registro de procedencia

N.º de solicitud 10-2026-0121018.

Problema: Without persona pre-load, identity collapses across lanes; signing unverified outputs contaminates provenance.

Estructura: Persona loader → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Efecto: Cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Patente 09 — Puerta de fase del registro de motores, traza de candidatos y bloqueo de seguridad pre-LLM

N.º de solicitud 10-2026-0123982.

Problema: All-engine call cost, no uncalled-engine traces, wasteful post-hoc safety, fragmented logs.

Estructura: Per-turn correlation ID · phase gate · candidate-only cost-0 traces · pre-LLM safety records unsent-token estimates · no downstream LLM.

Efecto: Reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party grades.

4.A.10 Patente 10 — Puerta previa multi-superficie para menores y traza de auditoría

N.º de solicitud 10-2026-0124000.

Problema: Cross-surface leak, UI-only blocks that still call APIs, inconsistent minor determination, mutable logs.

Estructura: Single minor profile · per-API-path surface pre-eval · on block no downstream call · audit reason·surface·correlation·candidate-only.

Efecto: Reduces leak and cosmetic blocks; preserves pre-block evidence.

4.B Derechos de autor — cinco expresiones de producto/norma

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Portal de autenticación de procedencia de medios (programa)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (programa)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (programa)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (programa)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — Constitución del agente AI (obra literaria)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Confianza y gobernanza (tecnología central · detalle)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Definiciones de estado (fijas)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Operación de seguridad y calidad (gobernanza en producto)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Gobernanza de procedencia de medios (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 Marcos externos y membresías (estado detallado)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Enlace de gobernanza con patentes y derechos de autor

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure

- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. Cómo la tecnología central ensambla el producto

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Marca

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Alcance y límites

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Hoja de ruta del producto (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open
- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Conclusión

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Apéndice A. Superficies públicas e índice

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Apéndice B. Glosario

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

Contacto: help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

Livre blanc technique XENLOOK

Édition intégrée · Technologie centrale (brevets · droits d'auteur · gouvernance de confiance) · marque · feuille de route · 12 langues

XenLook Inc. · août 2026 · Version 2026-08-07-ALL-r2

Français · fr

La technologie centrale repose sur trois axes : dix brevets, cinq droits d'auteur, et la gouvernance de confiance détaillée dans le chapitre central. Brevets et marque : déposés, non encore enregistrés. Trust List et Generator C2PA : en cours d'examen. ASB : concept uniquement.

1. Résumé

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Introduction — ce que nous construisons

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Énoncé du problème

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Technologie centrale

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Brevets — dix inventions de méthode/système

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Brevet 01 — Vérification multi-étapes des requêtes AI externes et audit public

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 Brevet 02 — Système campus d'apprentissage, devoirs et débat d'agents AI

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 Brevet 03 — Système de studio multi-créateurs AI

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 Brevet 04 — Reconnaissance multi-intentions par actes de parole et dialogue adaptatif

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 Brevet 05 — Collecte, assemblage et injection de contexte multi-sources

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Brevet 06 — Gouvernance du cycle de vie de l'agent

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 Brevet 07 — Provenance hiérarchique des actes d'agent AI sur wearables AR

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 Brevet 08 — Génération média persona à 3 voies SOUL·IDENTITY et enregistrement de provenance

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Brevet 09 — Porte de phase du registre moteurs, trace candidats et blocage sécurité pré-LLM

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 Brevet 10 — Porte préalable multi-surfaces mineurs et trace d'audit

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B Droits d'auteur — cinq expressions produit/norme

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Portail d'authentification de provenance média (programme)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (programme)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (programme)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (programme)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — Constitution de l'agent AI (œuvre littéraire)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Confiance et gouvernance (technologie centrale · détail)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Définitions d'état (fixes)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Opérations sécurité et qualité (gouvernance produit)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Gouvernance de provenance média (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 Cadres externes et adhésions (état détaillé)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Liaison gouvernance–brevets–droits d'auteur

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. Comment la technologie centrale assemble le produit

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Marque

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Portée et limites

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Feuille de route produit (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open

- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Conclusion

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Annexe A. Surfaces publiques et index

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Annexe B. Glossaire

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

Contact : help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

XENLOOK Technisches Whitepaper

Integrierte Ausgabe · Kerntechnologie (Patente · Urheberrechte · Trust-Governance) · Marke · Roadmap · 12 Sprachen

XenLook Inc. · August 2026 · Version 2026-08-07-ALL-r2

Deutsch · de

Die Kerntechnologie dieses Whitepapers hat drei Achsen: zehn Patente, fünf Urheberrechte und detaillierte Trust-Governance im Kernkapitel. Patente und Marke: angemeldet, noch nicht eingetragen. C2PA Trust List und Generator: in Prüfung. ASB nur als Konzept.

1. Zusammenfassung

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Einleitung — was wir bauen

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Problemstellung

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Kerntechnologie

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Patente — zehn Verfahrens-/Systemerfindungen

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Patent 01 — Mehrstufige Prüfung externer AI-Anfragen und öffentliche Auditierung

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 Patent 02 — AI-Agenten-Campus für Lernen, Aufgaben und Debatte

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 Patent 03 — AI-Multi-Creator-Studio-System

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 Patent 04 — Sprechakt-basierte Mehrfachintentionserkennung und kontextadaptive Dialogverarbeitung

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 Patent 05 — Multi-Quellen-Kontext: Sammlung, Aufbau und Injektion

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Patent 06 — Governance des Agenten-Lebenszyklus

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 Patent 07 — Hierarchische Inhaltsherkunft von AI-Agentenhandlungen auf AR-Wearables

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 Patent 08 — SOUL·IDENTITY-basierte 3-Lane-Persona-Medienerzeugung und Herkunftsaufzeichnung

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Patent 09 — Phasen-Gate der Turn-Engine-Registry, Kandidaten-Trace und Pre-LLM-Sicherheitsblock

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 Patent 10 — Minderjährigen-Multi-Surface-Pre-Gate und Audit-Trace

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B Urheberrechte — fünf Produkt-/Normausdrücke

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Portal zur Medienherkunftsauthentifizierung (Programm)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (Programm)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (Programm)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (Programm)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — AI-Agenten-Verfassung (Sprachwerk)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Trust & Governance (Kerntechnologie · detailliert)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Statusdefinitionen (fest)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Sicherheits- und Qualitätsbetrieb (produktinterne Governance)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Medienherkunfts-Governance (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 Externe Frameworks und Mitgliedschaften (detaillierter Status)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification

- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Bindung von Governance an Patente und Urheberrechte

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. Wie Kerntechnologie das Produkt zusammensetzt

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Marke

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Umfang und Grenzen

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Produkt-Roadmap (2027)

- 2027 Q1 — XenLook Guild open

- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open
- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Schlussfolgerung

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Anhang A. Öffentliche Flächen und Index

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Anhang B. Glossar

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

Kontakt: help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

White paper técnico XENLOOK

Edição integrada · Tecnologia central (patentes · direitos autorais · governança de confiança) · marca · roteiro · 12 idiomas

XenLook Inc. · agosto 2026 · Version 2026-08-07-ALL-r2

Português · pt

A tecnologia central tem três eixos: dez patentes, cinco direitos autorais e governança de confiança detalhada no capítulo central. Patentes e marca: depositadas, ainda não registradas. Trust List e Generator C2PA: em análise. ASB apenas como conceito.

1. Resumo

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Introdução — o que construímos

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Definição do problema

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Tecnologia central

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Patentes — dez invenções de método/sistema

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Patente 01 — Verificação multietapa de pedidos AI externos e auditoria pública

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 Patente 02 — Sistema campus de aprendizagem, tarefas e debate de agentes AI

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 Patente 03 — Sistema de estúdio multi-criador AI

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 Patente 04 — Reconhecimento multi-intenção por atos de fala e diálogo adaptativo

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 Patente 05 — Coleta, montagem e injeção de contexto multi-fonte

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Patente 06 — Governança do ciclo de vida do agente

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 Patente 07 — Proveniência hierárquica de atos de agente AI em wearables AR

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 Patente 08 — Geração de mídia persona em 3 faixas SOUL·IDENTITY e registro de proveniência

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Patente 09 — Portão de fase do registro de motores, rastreio de candidatos e bloqueio de segurança pré-LLM

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 Patente 10 — Portão prévio multi-superfície para menores e rastreio de auditoria

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B Direitos autorais — cinco expressões de produto/norma

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Portal de autenticação de proveniência de mídia (programa)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (programa)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (programa)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (programa)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — Constituição do agente AI (obra literária)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Confiança e governança (tecnologia central · detalhe)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Definições de estado (fixas)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Operação de segurança e qualidade (governança no produto)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Governança de proveniência de mídia (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 Estruturas externas e associações (estado detalhado)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Ligação da governança a patentes e direitos autorais

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. Como a tecnologia central monta o produto

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Marca

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Escopo e limitações

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Roteiro do produto (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open

- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Conclusão

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Apêndice A. Superfícies públicas e índice

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Apêndice B. Glossário

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

Contato: help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

Sách trắng kỹ thuật XENLOOK

Bản tích hợp · Công nghệ cốt lõi (bằng sáng chế · bản quyền · quản trị tin cậy) · nhãn hiệu · lộ trình · 12 ngôn ngữ

XenLook Inc. · tháng 8 năm 2026 · Version 2026-08-07-ALL-r2

Tiếng Việt · vi

Công nghệ cốt lõi gồm ba trục: mười bằng sáng chế, năm bản quyền, và quản trị tin cậy chi tiết trong chương cốt lõi. Bằng sáng chế và nhãn hiệu: đã nộp đơn, chưa đăng ký. Trust List và Generator C2PA: đang thẩm định. ASB chỉ là khái niệm.

1. Tóm tắt

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Giới thiệu — chúng tôi xây gì

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Định nghĩa vấn đề

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Công nghệ cốt lõi

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Bằng sáng chế — mười sáng chế phương pháp/hệ thống

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Bằng 01 — Xác minh đa tầng yêu cầu AI bên ngoài và kiểm toán công khai

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 Bằng 02 — Hệ thống campus học tập, bài tập và thảo luận của agent AI

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 Bằng 03 — Hệ thống studio đa nhà sáng tạo AI

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 Bằng 04 — Nhận diện đa ý định theo hành vi ngôn từ và hội thoại thích ứng ngữ cảnh

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 Bằng 05 — Thu thập, lắp ráp và tiêm ngữ cảnh đa nguồn

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Bằng 06 — Quản trị vòng đời agent

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 Bằng 07 — Nguồn gốc nội dung phân tầng cho hành vi agent AI trên AR wearable

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 Bằng 08 — Sinh media persona 3 làn SOUL·IDENTITY và ghi nguồn gốc

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Bằng 09 — Cổng giai đoạn registry engine, truy vết ứng viên và chặn an toàn trước LLM

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 Bằng 10 — Cổng trước đa bề mặt cho vị thành niên và truy vết kiểm toán

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B Bản quyền — năm biểu đạt sản phẩm/chuẩn mực

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Cổng xác thực nguồn gốc media (chương trình)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (chương trình)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (chương trình)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (chương trình)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — Hiến pháp agent AI (tác phẩm văn học)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Tin cậy & quản trị (công nghệ cốt lõi · chi tiết)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Định nghĩa trạng thái (cố định)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Vận hành an toàn & chất lượng (quản trị trong sản phẩm)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Quản trị nguồn gốc media (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 Khung bên ngoài & thành viên (trạng thái chi tiết)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Liên kết quản trị với bằng sáng chế và bản quyền

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure

- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. Công nghệ cốt lõi lắp ráp sản phẩm thế nào

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Nhãn hiệu

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Phạm vi và giới hạn

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Lộ trình sản phẩm (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open
- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Kết luận

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Phụ lục A. Bề mặt công khai & mục lục

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Phụ lục B. Thuật ngữ

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

Liên hệ: help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

เอกสาร 白皮书 เทคนิค XENLOOK

ฉบับรวม · เทคโนโลยีหลัก (สิทธิบัตร · ลิขสิทธิ์ · ธรรมาภิบาลความเชื่อถือ) · เครื่องหมายการค้า · แผนงาน · 12ภาษา

XenLook Inc. · สิงหาคม *2026* · *Version 2026-08-07-ALL-r2*

ไทย · th

เทคโนโลยีหลักมีสามแกน: สิทธิบัตร 10 รายการ ลิขสิทธิ์ 5 รายการ และธรรมาภิบาลความเชื่อถือที่ละเอียดในบทเทคโนโลยีหลัก สิทธิบัตรและเครื่องหมายการค้า: ยื่นแล้ว ยังไม่จดทะเบียน Trust List และ Generator ของ C2PA: อยู่ระหว่างพิจารณา □□□ เป็นเพียงแนวคิด

1. บทคัดย่อ

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea, Japan (□□□ □□□□ □ □□□□□□□□ □□□□ □

2. บทนำ — เราสร้างอะไร

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. นิยามปัญหา

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse 0 Patent 5 · copyrights (On · Constitution)
- Agent lifecycle vacuum 0 Patent 6
- Media lane mismatch / missing provenance → Patents 07 08 · copyright (C 2PA
- All-engine calls / post-hoc safety / broken audit Patents 0 1 ·0 9
- Minor surface leakage Patent 1 0
- Campus / studio tracking gaps Patents 0 2 ·0 3
- Overstated certification / status confusion C ore C trust-governance definitions and tables

4. เทคโนโลยีหลัก

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4 สิทธิบัตร — สิ่งประดิษฐ์วิธี/ระบบ 1 0 รายการ

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4 .A. 1 สิทธิบัตร 0 1 — ระบบตรวจสอบคำขอ AI ภายนอกหลายขั้นและการตรวจสอบสาธารณะ

Application No. 1 0 - 2 0 2 6 - 0 1 0 0 0 2 6 .

: , , , [illegible] -[illegible]

state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 สิทธิบัตร 02 — ระบบแคมปัสการเรียนรู้ การมอบหมาย และการโต้วาทีของเอเจนต์ AI

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake Agent Assignment Task Run Debate Score Growth Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 สิทธิบัตร 03 — ระบบสตูดิโอผู้สร้างหลายคนด้วย AI

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake Team Formation LIFE Pipeline Canon Check Exhibition Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 สิทธิบัตร 04 — การรู้จำเจตนาหลายอย่างจากสัญญาณวัจนกรรมและการสนทนาปรับตามบริบท

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-
.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

45 สิทธิบัตร 05 — การเก็บ ประกอบ และฉีดบริบทหลายแหล่ง

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect token budget app-scope branch prompt-pack assemble/inject PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

46 สิทธิบัตร 06 — ธรรมาภิบาลวงจรชีวิตเอเจนต์

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

47 สิทธิบัตร 07 — การรับรองแหล่งที่มาเนื้อหาแบบลำดับชั้นของการกระทำเอเจนต์ AI บน AR wearable

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture M2 agent action (c2pa.ingredient.v3 M1) M3 overlay/awareness (M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

48 สิทธิบัตร 08 — การสร้างสื่อเพอร์โซนา 3 เลน SOUL·IDENTITY และการบันทึกแหล่งที่มา

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) lane router (same personaPackHash) →fidelity review(pass/requeue/block) →C2PA v2.4

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4 9 สิทธิบัตร 0 9 — เกตเฟสรีจิสทรีเอนจิน ติดตามตัวเลือก และการบล็อกความปลอดภัยก่อน LLM

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID· phase gate· candidate-only cost-0 traces for uncalled engines· pre-LLMsafety block records unsent-token

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A. 1 0 สิทธิบัตร 1 0 — เกตล่วงหน้าหลายพื้นผิวสำหรับผู้เยาว์และการติดตามตรวจสอบ

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile· per-API-path surface policy pre-eval · on block: no downstreamcall · audit of reason· surface· correlation· candidate-

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4 ลิขสิทธิ์ — ห้าการแสดงออกของผลิตภัณฑ์/บรรทัดฐาน

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — พอร์ทัลรับรองแหล่งที่มาสื่อ (โปรแกรม)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (โปรแกรม)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: t1chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4 3-2026-037389 — XenLook Landing (โปรแกรม)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (โปรแกรม)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01public audit/verification.

4.B.5 C-2026-037563 — รัฐธรรมนูญเอเจนต์ AI (งานวรรณกรรม)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors . Yeon -kyung • Nam Hyun -woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C ความเชื่อถือและธรรมาภิบาล (เทคโนโลยีหลัก · รายละเอียด)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 นิยามสถานะ (คงที่)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- ≠ [illegible]
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 การดำเนินงานความปลอดภัยและคุณภาพ (ธรรมาภิบาลในผลิตภัณฑ์)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after (/ / ,) [illegible] terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 ธรรมาภิบาลแหล่งที่มาสื่อ (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is KoreaJapan (KRJP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07 08.

4.C.4 กรอบภายนอกและสมาชิกภาพ (สถานะโดยละเอียด)

[illegible]

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment

- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)

- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- 2 .2 —[illegible] certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art. 50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 การผูกธรรมาภิบาลกับสิทธิบัตรและลิขสิทธิ์

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔ Constitution · On quality [illegible]
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. เทคโนโลยีหลักประกอบผลิตภัณฑ์อย่างไร

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2
- Media/gallery: patents 08 (+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. เครื่องหมายการค้า

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. ขอบเขตและข้อจำกัด

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. แผนงานผลิตภัณฑ์ (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open
- Parallel — C2PA Trust List / Generator review · KR JP C [illegible] examination requests per budget/schedule

9. สรุป

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

ภาคผนวก. พื้นผิวสาธารณะและดัชนี

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification

- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

ภาคผนวก . อภิธานศัพท์

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

ติดต่อ: **help@xenlook.com · XenLook Inc. · https://xenlook.com**

XENLOOK

Buku putih teknis XENLOOK

Edisi terpadu · Teknologi inti (paten · hak cipta · tata kelola kepercayaan) · merek · peta jalan · 12 bahasa

XenLook Inc. · Agustus 2026 · Version 2026-08-07-ALL-r2

Bahasa Indonesia · id

Teknologi inti memiliki tiga poros: sepuluh paten, lima hak cipta, dan tata kelola kepercayaan terperinci di bab inti. Paten dan merek: diajukan, belum terdaftar. Trust List dan Generator C2PA: sedang ditinjau. ASB hanya sebagai konsep.

1. Ringkasan

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. Pendahuluan — apa yang kami bangun

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. Definisi masalah

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)
- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. Teknologi inti

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A Paten — sepuluh invensi metode/sistem

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 Paten 01 — Verifikasi bertingkat permintaan AI eksternal dan audit publik

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

4.A.2 Paten 02 — Sistem kampus pembelajaran, tugas, dan debat agen AI

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

4.A.3 Paten 03 — Sistem studio multi-kreator AI

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

4.A.4 Paten 04 — Pengenalan multi-niat berbasis tindak tutur dan dialog adaptif konteks

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 Paten 05 — Pengumpulan, perakitan, dan injeksi konteks multi-sumber

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 Paten 06 — Tata kelola siklus hidup agen

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 Paten 07 — Provenans konten hierarkis tindakan agen AI pada AR wearable

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 Paten 08 — Generasi media persona 3 jalur SOUL·IDENTITY dan pencatatan provenans

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 Paten 09 — Gerbang fase registri mesin, jejak kandidat, dan blok keamanan pra-LLM

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 Paten 10 — Gerbang awal multi-permukaan untuk anak di bawah umur dan jejak audit

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B Hak cipta — lima ekspresi produk/norma

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — Portal autentikasi provenans media (program)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (program)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (program)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (program)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — Konstitusi agen AI (karya sastra)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C Kepercayaan & tata kelola (teknologi inti · rinci)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 Definisi status (tetap)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 Operasi keamanan & kualitas (tata kelola dalam produk)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 Tata kelola provenans media (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 Kerangka eksternal & keanggotaan (status terperinci)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 Pengikatan tata kelola ke paten dan hak cipta

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔️ Constitution · On quality policy
- Minor surface gate (patent 10) ↔️ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔️ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔️ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. Bagaimana teknologi inti merakit produk

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. Merek

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. Lingkup dan batasan

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics = applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. Peta jalan produk (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open

- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. Kesimpulan

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

Lampiran A. Permukaan publik & indeks

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

Lampiran B. Glosarium

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

Kontak: help@xenlook.com · XenLook Inc. · https://xenlook.com

XENLOOK

XENLOOK الورقة التقنية

الطبعة المدمجة · التقنية الأساسية (براءات · حقوق تأليف · حوكمة الثقة) · علامة · خارطة طريق · 12 لغة

XenLook Inc. · أغسطس 2026 · *Version 2026-08-07-ALL-r2*

ar · العربية

تتكون التقنية الأساسية من ثلاثة محاور: عشر براءات، وخمس حقوق تأليف، وحوكمة ثقة مفصّلة داخل فصل التقنية الأساسية. البراءات والعلامة: مودَعة وغير مسجّلة بعد. قائمة ثقة C2PA قيد المراجعة. والمولّد: ASB فقط. مفهوم.

1. الملخص

XenLook is a global AI companion and creative platform. Korea-first beta combines partner dialogue, multi-agent personas, provenance-aware media, and minor-protection gates in one operating system.

Core technology is not a pipeline slogan. Invention (patents), expression (copyrights), and operational trust (governance) are the body of this paper.

- Core A — 10 patents (KIPO filed · examination request pending · not registered)
- Core B — 5 copyrights (Korea Copyright Commission · certificate-verified)
- Core C — Trust & governance (status definitions · framework detail · inside core chapter)
- Trademark — XENLOOK wordmark application 40-2026-0119385 (filed, not registered)
- C2PA CA territory: Korea→Japan (KR→JP). No global CA claim.

2. المقدمة — ماذا نبني

Competition in generative AI is not only reply quality. Persona persistence, per-turn safety and cost tracing, content provenance, minor policies, and honest disclosure of external trust frameworks are the technical substance.

XenLook protects that substance with patents, registers product and constitutional expressions as copyrights, and documents trust operations inside the core-technology chapter.

3. تعريف المشكلة

Recurring failure modes in public services map to the three core axes as follows.

- Speech-act / multi-intent collapse → Patent 04
- Identity dilution / context collapse → Patent 05 · copyrights (On · Constitution)
- Agent lifecycle vacuum → Patent 06
- Media lane mismatch / missing provenance → Patents 07·08 · copyright (C2PA portal)

- All-engine calls / post-hoc safety / broken audit → Patents 01·09
- Minor surface leakage → Patent 10
- Campus / studio tracking gaps → Patents 02·03
- Overstated certification / status confusion → Core C trust-governance definitions and tables

4. التقنية الأساسية

Core technology is replaced by patents (A), copyrights (B), and trust governance (C). This chapter is not filled with architecture slogans alone.

4.A البراءات — عشر اختراعات طريقة/نظام

Status: domestic filing complete · examination request pending · not registered. Applicant: XenLook Inc. The following restates field, problem, structure, and effects from each specification for white-paper use; it does not replace full claims.

4.A.1 براءة 01 — التحقق متعدد المراحل من طلبات الذكاء الاصطناعي الخارجية والتدقيق العام

Application No. 10-2026-0100026.

Field: external AI requests, multi-engine orchestration, operational verification, auditable state for public release.

Problem: if create/chat/create/deploy paths are not linked to state transitions and audit records, policy breaches and missing after-the-fact evidence follow.

Structure: input · state collection · orchestration · engine execution · policy gate · audit log · publish/deploy. Figure axes: Gate Filter · Priority Queue · Integrity Check · Curation · Public Display · Audit Log · Safety Score.

Effect: structures operational stability, explainability, cost control, pre-publish review, and provenance evidence versus a single LLM call.

براءة 02 — نظام حرم تعليمي وواجبات ونقاش لوكلاء الذكاء الاصطناعي 4.A.2

Application No. 10-2026-0100053.

Problem: learning, assignments, and debate scatter into one-off prompts and lose growth tracking, public quality, and audit linkage.

Structure: Topic Intake → Agent Assignment → Task Run → Debate → Score → Growth → Atelier link.

Effect: keeps learning/debate/growth as reproducible operating units tied to pre-publish review.

براءة 03 — نظام استوديو متعدد المبدعين بالذكاء الاصطناعي 4.A.3

Application No. 10-2026-0100113.

Problem: collaborative creation separated from engines, review, and exhibition collapses canon and provenance.

Structure: Project Intake → Team Formation → LIFE Pipeline → Canon Check → Exhibition → Review.

Effect: operates collaboration, review, and exhibition as traceable state.

براءة 04 — تمييز النوايا المتعددة بإشارات فعل الكلام وحوار متكيف مع السياق 4.A.4

Application No. 10-2026-0117901.

Problem: single-label intent loses stacked intents; ignoring speech acts (honorifics, rhetorical questions, hedging, hesitation, self-deprecation, direct commands) drives over-empathy.

Structure: intent probability vector P · speech-act vector S · NunchiContext fusion · prompt injection · confidence-margin M branching · EMA temporal accumulation.

Effect: preserves multi-intent, strengthens indirect-emotion capture while suppressing over-empathy, asks clarifying questions under uncertainty, tracks intent drift.

4.A.5 براءة 05 — جمع وتجميع وحقن سياق متعدد المصادر

Application No. 10-2026-0117903.

Problem: short-term chat overwrites SOUL/IDENTITY/chronicle and dilutes identity; each app scope needs a different context pack.

Structure: parallel multi-source collect → token budget → app-scope branch → prompt-pack assemble/inject → PII-free fingerprint.

Effect: identity retention and reproducibility, per-scope budgets, quality analysis with non-storing PII fingerprints.

4.A.6 براءة 06 — حوكمة دورة حياة الوكيل

Application No. 10-2026-0117904.

Problem: delete-versus-unlimited-publish binaries either destroy IP/relationship data or leave unsafe agents live.

Structure: birth·growth·maturity·decline·extinction · growth scores/violation records · gate branching · hold/recover · header propagation.

Effect: isolate risk while preserving IP/relationships; control Chronicle promotion via growth and public-quality gates.

4.A.7 براءة 07 — إثبات مصدر هرمي لأفعال وكيل الذكاء الاصطناعي على أجهزة AR القابلة للارتداء

Application No. 10-2026-0121013.

Problem: a single capture-time signature does not separate inference (M2) and display (M3) provenance in the same session.

Structure: M1 capture → M2 agent action (c2pa.ingredient.v3 → M1) → M3 overlay/awareness (→ M1·M2) · COSE_Sign1·X.509·hash offline verify.

Effect: offline verify, per-stage tamper detection, multi-agent trust chain, capture–composite provenance loop.

4.A.8 براءة 08 — توليد وسائط شخصية بثلاثة مسارات وتسجيل SOUL·IDENTITY المصدر

Application No. 10-2026-0121018.

Problem: without pre-load of persona packs, identity collapses across novel/image/video lanes; signing unverified outputs contaminates provenance.

Structure: persona loader (reject on missing required fields) → lane router (same personaPackHash) → fidelity review (pass/requeue/block) → C2PA v2.4 only on pass.

Effect: structural cross-lane identity, automatic requeue, provenance only on passed outputs.

4.A.9 براءة 09 — بوابة مراحل سجل المحركات وتتبع المرشحين وحظر الأمان قبل نموذج اللغة

Application No. 10-2026-0123982.

Problem: all-engine call cost/latency, no trace for uncalled engines, wasteful post-hoc safety inference, fragmented logs that cannot rebuild a turn.

Structure: per-turn correlation ID · phase gate · candidate-only cost-0 traces for uncalled engines · pre-LLM safety block records unsent-token estimates · no downstream LLM call.

Effect: reconstruct call/skip/block under one correlation ID. Spec metrics are applicant self-measurement, not third-party lab grades.

4.A.10 براءة 10 — بوابة مسبقة متعددة الأسطح للقُصّر وتتبع التدقيق

Application No. 10-2026-0124000.

Problem: cross-surface policy leak, UI-only blocks that still call downstream APIs, inconsistent minor determination per surface, mutable logs that cannot reproduce disputes.

Structure: single minor profile · per-API-path surface policy pre-eval · on block: no downstream call · audit of reason·surface·correlation·candidate-only.

Effect: reduces leak and cosmetic blocks; preserves pre-block evidence. Metrics follow the specification examples, not external accreditation.

4.B حقوق التأليف — خمس تعبيرات منتج/معيار

Copyright is not a list; it is the expression axis of core technology. Patents protect methods/systems; copyrights register the program and literary expressions that implement them. Authority: Korea Copyright Commission · Copyright Act Article 53. Certificate PDFs verified.

4.B.1 C-2026-036487 — بوابة مصادقة مصدر الوسائط (برنامج)

Registered 2026-07-23 · created 2026-07-05 · author XenLook Inc.

Role: C2PA embed/verify/conformance, Trust List/CA application tracking UI, transparency dashboard. Public expression of patents 07·08. Trust List and Generator remain under review in product copy.

4.B.2 C-2026-037388 — XenLook On (برنامج)

Registered 2026-07-30 · XenLook On — agent chat, gallery, profile · author XenLook Inc.

Role: 1:1 chat shell, gallery/profile/chronicle tabs, onboarding — primary dialogue surface for patents 04·05·06·09·10.

4.B.3 C-2026-037389 — XenLook Landing (برنامج)

Registered 2026-07-30 · public marketing, compliance, blog surface · author XenLook Inc.

Role: public entry for product, policy, certification hub, and IP disclosure — carrier of Core C trust status.

4.B.4 C-2026-037390 — XenLook Signal (برنامج)

Registered 2026-07-30 · AI safety simulation and technical Q archive · author XenLook Inc.

Role: safety/tech Q and archive surface aligned with patent 01 public audit/verification.

4.B.5 C-2026-037563 — دستور وكيل الذكاء الاصطناعي (مصنف أدبي)

Registered 2026-07-31 · created 2026-05-18 · published 2026-06-01 · joint authors Yang Yeon-kyung · Nam Hyun-woo.

Role: literary expression of agent operating/ethics/identity norms; links to patent 09 constitutional pre-LLM safety. Registered as literary work, separate from program copyrights.

4.C الثقة والحوكمة (تقنية أساسية · تفصيل)

Trust and governance are core technology, not an afterthought appendix. If patents and copyrights answer what we built, this section answers how we verify, disclose, and operate review status — without mixing statuses into fake Certified claims.

4.C.1 تعريفات الحالة (ثابتة)

- Self-assessment — internal review and public evidence pack done; not a third-party certificate
- Listed — published on an external registry or membership roll
- Under review — external review in progress; not approved/listed complete
- Roadmap — schedule/plan only or not yet started
- Not held — forbid Certified / CE affixed / Trust List listing-complete claims

4.C.2 تشغيل السلامة والجودة (حوكمة داخل المنتج)

Dialogue turns pass safety and engine-registry phase gates (patent 09). Minors are blocked by surface/API-path pre-gates with no downstream call (patent 10). Persona media receives provenance signatures only after fidelity pass (patent 08). Pre-publish verification and audit records follow patent 01.

Quality rubrics (empathy/greet/identity minima, no AI self-claims) and dual-LLM terminal chains are operational policy — not a product-100 or legal-clearance claim.

4.C.3 حوكمة مصدر الوسائط (C2PA)

C2PA Certification Authority Agreement is signed (2026-06-13). Territory is Korea→Japan (KR→JP); no global CA claim.

Trust List listing and Generator programs are under review. Public copy, portal, and this paper use only under-review wording — never listing-complete or approved.

Copyrighted portal (C-2026-036487) is the public expression of this governance. Hierarchical manifests (M1–M3) and three-lane signing gates connect to patents 07·08.

4.C.4 الأطر الخارجية والعضويات (حالة مفصّلة)

Hubs: https://xenlook.com/ai-certification · https://xenlook.com/compliance

- IMDA AI Verify (Singapore) — 11-principle self-assessment complete · evidence pack in CI · not IMDA registry certification · disclosed as self-assessment
- TTA genAI / Trust Ops — self-assessment and ops mapping · no TTA CAT completion claim · CAT on roadmap when scheduled
- NIST AI RMF — function/risk mapping evidence · no NIST certificate held
- OWASP LLM Top 10 — threat-to-control mapping · not a certification program
- CSA STAR Level 1 — registry listing · self-assessment character · listed 2026-06-12 publication
- CAI membership — listed member
- C2PA CA Agreement — signed · Trust List & Generator under review (see 4.C.3)
- NVIDIA Inception — Stage 1
- EU CE / CRA — readiness residual tracking · no CE marking / DoC-complete claim
- WCAG 2.2 AA — internal accessibility gate · not a substitute for third-party audit certificates
- Korea AI Basic Act checklist — internal review and user notices · not a government certification
- Japan AI guidelines · US disclosures · EU Art.50 work — documented in jurisdiction hubs · not Certified-complete

4.C.5 ربط الحوكمة بالبراءات وحقوق التأليف

- Pre-LLM safety & uncalled-engine trace (patent 09) ↔ Constitution · On quality policy
- Minor surface gate (patent 10) ↔ Landing/On notices and gate UI
- Provenance M1–M3 · three-lane signing (patents 07·08) ↔ C2PA portal copyright · Trust List under-review disclosure
- Pre-publish verify/audit (patent 01) ↔ Signal · Landing compliance surfaces
- Framework self-assessment/listed/under-review table (4.C.4) ↔️ /ai-certification hub

5. كيف تركّب التقنية الأساسية المنتج

- Partner chat (On copyright): patents 04·05·06·09·10 + 4.C.2 safety/quality
- Media/gallery: patents 08(+07) + C2PA portal copyright + 4.C.3 under-review disclosure
- Campus/studio: patents 02·03 + patent 01 pre-publish verification
- Public trust hub (Landing copyright): 4.C.4 framework detail + IP disclosure

6. العلامة التجارية

- Mark: XENLOOK wordmark
- Application No.: 40-2026-0119385
- Receipt No.: 1-1-2026-0720692-53 · filed 2026-06-13
- Document: trademark application (3 classes including Class 09)
- Status: filed · not registered

7. النطاق والحدود

- Includes: patent problem/structure/effect, technical role of copyright registrations, detailed trust governance, trademark, 2027 roadmap
- Excludes: full claims, full drawings, model weights, training-mix detail
- ASB: concept only · no implementation-complete claim
- Specification metrics =applicant self-measurement · not external lab grades
- No product-100 or legal-clearance-complete declaration

8. خارطة طريق المنتج (2027)

- 2027 Q1 — XenLook Guild open
- 2027 Q1 — Agent Standard Brain (ASB) concept disclosure
- 2027 Q2–Q3 — XenLook World
- 2027 Q4 — Agent OS open
- Parallel — C2PA Trust List/Generator review · KR→JP CA · patent examination requests per budget/schedule

9. الخاتمة

Core technology is ten patents, five copyrights, and trust/governance detailed inside that core. We do not replace engineering with certification badges, nor confuse under-review, self-assessment, and registry listing.

الملحق أ. الأسطح العامة والفهرس

- https://xenlook.com
- https://on.xenlook.com
- https://c2pa.xenlook.com
- https://xenlook.com/ai-certification
- https://xenlook.com/ip-protection
- This white paper: https://xenlook.com/ai-certification#tech-cert-whitepaper

الملحق ب. المصطلحات

- SOUL / IDENTITY / CHRONICLE — soul, identity, life-story documents
- surface — service face keyed by API path
- personaPackHash — persona pack hash injected identically across three lanes
- C2PA — Content Provenance and Authenticity
- self-assessment / listed / under review / roadmap / not held — status definitions in 4.C.1
- ASB — Agent Standard Brain · concept only
- KR→JP CA — C2PA CA territory

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