

the coordination contract

the contract in ten pages

an institution with no offices, for people, organizations and agents: law changed by interpreted voice, decisions made by a pinned set of models and recorded answer by answer, a market free of politics, justice that reaches everyone, and a record anyone can check.

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3 october 2026 • version 0.5

the short edition of the working paper of the same version, built from the same sources and the same numbers. design and reference implementation; not a deployed institution, audited protocol, securities offering or claim of legal sovereignty. all people, cases and amounts in examples are synthetic.

1 what the contract is

the coordination contract is a voluntary institution for commitments between people, organizations and agents. it has four parts and no others:

- a **kernel** that never changes, identified by its hash, 1f9944f03bef0ff7...;
- a **law** — the kinds of people it recognizes, the duties everyone owes, its parameters — changed only by an adopted rfc;
- an **engine** — a published, pinned set of models in four tiers — also changed only by an adopted rfc;
- a **ledger** of accounts, agreements, rfcs, cases, facilities and determinations.

it acts in one way only: through **determinations**, closed questions over one committed record, put to the engine tier by tier and recorded with every seat's answer. there are no branches, executives, officers, councils, juries or human adjudicators, and no key whose holder can change the contract outside an adopted rfc. a different kernel is a different contract, with no claim on this one's ledger.

people are a predicate, not a fixed category. humans are people permanently; the law may recognize further kinds — uploaded humans, artificial agents, animals through representatives, organizations — each with one uniqueness rule, so that one person has exactly one voice. protection belongs to every being with interests; voice belongs to persons. wealth, stake, activity and intelligence add nothing to a voice.

the contract is built for an economy in which most participants will be software. it assumes that every party, every model provider, its operator and its majority may each be the adversary, and it is designed so that what it decides can be checked by anyone without trusting any of them.

2 the guarantees

the kernel's twelve articles are the contract's guarantees. they are reproduced here verbatim, as hashed.

k1. truth and justice The contract serves truth and justice. Truth: fidelity to evidence, honest uncertainty, attribution, and correction of known error. Justice: protection of every being's protected interests against wrongful interference, by anyone, including the contract itself. No gain to the contract's revenue, size or survival outweighs either.

k2. people and voice Protection belongs to every being with interests; voice belongs to persons. A person is an entity of a kind the law recognizes as people, holding a valid personhood proof for that kind. Human is a kind of people and always will be. The law may recognize further kinds by adopted RFC. Each kind has one uniqueness rule, and every issuer of that kind's proofs derives the same key for the same individual, so that one person cannot speak as many. Each person has exactly one voice in every RFC, given by their own deliberate act. Wealth, stake, activity, intelligence and position add nothing to a voice.

k3. no offices No person or entity holds authority over the contract. The contract acts only through determinations: a pinned question, committed inputs, the engine's seats, a deterministic aggregation and a published record. There are no branches, executives, officers, councils, juries or human adjudicators, and no key whose holder can change the contract's code, law or engine outside an adopted RFC.

k4. change only by voice Law and engine change only by an adopted RFC. An RFC is adopted when the people's voice, interpreted response by response against the change itself and aggregated with one voice per person, favors a change over the status quo, and the engine concurs with confidence. The engine may withhold concurrence only because the change would violate this kernel, because the voice does not in fact favor it, or because it lies outside what law may do; a divided or uncertain engine does not concur. The engine never adopts what the voice does not favor. An RFC that replaces the engine is decided by the outgoing and the proposed engine together, and both must concur; the proposed engine is consulted only after the outgoing one concurs, and holds no credential or record before adoption. If the outgoing engine cannot answer at all, the proposed engine's concurrence suffices after a further window as long as the RFC's own. A change to the contract's code is a change to the engine. This kernel is never changed; a different kernel is a different contract.

k5. a free market Politics has no power over the market. Law may not set prices, tax or single out particular holders, freeze or seize holdings, or restrict an exchange between consenting parties, except to prohibit harm to a protected interest of a being who did not consent. Every duty the law creates names the protected interest it protects, the harm it forbids and the elements that make a breach, and binds everyone alike.

k6. the scope of justice A claim is justiciable when it names a claimant who was harmed (or anyone filing for a being who cannot), a respondent who was served, an act or omission, a duty the respondent owed — from an agreement the respondent accepted, from law in force at the time of the act, or from this kernel — and harm to a protected interest or an agreed term caused by that act. One matter is one case. Justice reaches the market: a final judgment executes against the respondent's holdings, bonds included, for the harm established and its costs, once per harm, and nothing more.

k7. due process without juries Every case gives notice, time to answer, an opportunity to submit evidence, a reasoned determination of each element of the duty, and an appeal to seats that took no part in it; the engine keeps enough independent capacity for that appeal. A timely appeal is heard. Determinations are made by the engine's seats, tier by tier, on one identical record; a tie or an answer below the tier's confidence is unresolved, never a winner by order. No human jury or human adjudicator decides any case, civil or criminal. A claimant who cannot establish an element loses the claim; a record the contract could not process is not a loss on the merits. A criminal finding requires near-certainty on every element at the top tier. A seat never judges a case in which its operator is a party.

k8. bounded remedies Remedies are restitution, compensation, agreed performance, correction of records, and — on a criminal finding — a penalty of at most three times the proved harm in total, paid to the victim and the protection pool, and exclusion from the contract's services for at most a year. Each remedy answers a harm established in the case, and no harm is repaired twice. No remedy touches a body, compels labor, or punishes without a finding. An interim freeze holds at most the amount claimed, for at most fourteen days, and only on a determination that the claim is likely to succeed and the amount likely to vanish.

k9. victims are made whole A victim whose final judgment cannot be collected from the respondent is paid from the protection pool, within the limits the law sets and in equal proportion with every other unpaid victim, and the pool takes over the claim. What the pool cannot yet pay stays owed and is paid as the pool is funded. The pool is funded by premiums on bond issuance and by penalties, never by seizing anyone's holdings outside a judgment.

k10. the engine The engine is part of the contract: its tiers, seats, pinned models, renderers and rules are published and change only by RFC. Every tier that holds model seats has seats from at least two independent operators and at least one seat whose weights are open and pinned by hash, so that no provider can change or stop the contract by changing or retiring a model. Seats of one operator or lineage count as one. Media evidence reaches the seats as text rendered by at least two independent renderers, recorded and open to the parties. A matter is decided by the engine and procedure in force when it began.

k11. records Every determination, RFC, response, case and transfer is recorded with what it relied on. Corrections are appended; nothing is erased. Judgments and RFC records are public; a case's evidence is disclosed only to its parties and only as far as the case needs it.

k12. exit Anyone may leave. Leaving ends future obligations to the contract; duties already accrued and agreements already made survive.

the numbers in the text that code enforces are kernel floors: a law rfc stays open at least 7 days and an engine rfc at least 21; a respondent has at least 3 days to answer and a party at least 3 to appeal; a

criminal finding needs at least 950/1000 confidence on every element at the top tier; a penalty is at most 3 times the harm; every model tier has at least 2 operators and 1 open-weight seat; the top tier holds at least 2 disjoint panels; media is rendered by at least 2 independent renderers. the law may be stricter, never looser.

3 the engine

the engine is part of the contract: its seats, the models they run, how those models are pinned and how answers aggregate are published and hashed (the genesis engine's hash begins `ad3328bd671cac5d`). a question climbs four tiers, cheapest first:

1. **structural** — a deterministic answer from committed records, when one exists;
2. **embedding** — an open-weight embedding model and pinned int8 mlp heads that anyone can rerun bit for bit;
3. **classifiers** — a panel of 2 of 3 independent groups of fast classifier seats;
4. **deliberative** — a panel of 3 of 6 independent groups of large models, whose answer is final or unresolved.

independence, not headcount. seats of one operator or one lineage form one group and count once, so a provider cannot outvote the rest by running more seats. every model tier has seats from at least two operators and at least one open-weight seat pinned by hash, so no provider can change or stop the contract by changing or retiring a model.

no winner by order. a tier's answer is the uniquely heaviest label, with a confidence of its weight over the answering groups. a tie, a confidence below the tier's band (850 and 700 per mille at genesis) or a missing quorum climbs; at the top tier it is *unresolved*, and every use of a determination says what unresolved means for it — a claimant's burden, the status quo. nothing is ever decided by which label happened to be listed first.

panels. a tier is answered by exactly a quorum of groups drawn by a public seed. the top tier holds at least two disjoint panels, so every decision made there can be appealed to groups that took no part in it.

one record. every seat reads one text package, each item under a unique identifier; media reaches the seats only as text rendered by two independent renderers (images: `render-gpt-5.6-luna`, `render-claude-haiku-4-5`; audio: `render-whisper-large-v3-turbo`, `render-gpt-4o-mini-transcribe`). an answer over a different package than the one asked is an error, not a vote. a proposed engine is consulted through an executor that renders nothing and reads nothing private, and no credential ever follows a seat's url off its operator's own hosts.

the genesis seats are:

tier	seat	operator	lineage	pin
1	bge-base-en-v1.5	cloudflare	bge	weights 0dbc3b2eeffc hf:BAAI/bge-base-en-v1.5@a5beb1e3e68b9ab74eb54cfd186867f64f240e1a
2	jev-1.13.0	typesafe	jev	version jev-1.13.0
2	llama-3.1-8b	cloudflare	llama	weights b95e1c842c5c hf:meta-llama/Llama-3.1-8B-Instruct@0e9e39f249a16976918f6564b8830bc894c89659
2	gpt-5.6-luna	openai	gpt	version gpt-5.6-luna
3	claude-opus-5-5	anthropic	claude	version claude-opus-5-5
3	gpt-5.6-sol	openai	gpt	version gpt-5.6-sol

tier	seat	operator	lineage	pin
3	deepseek-v4-pro	deepinfra	deepseek	weights 249bebe0762f hf:deepseek-ai/DeepSeek-V4-Pro@b5968e9190ef611bbf34a7229255be88a0e937c1
3	llama-3.3-70b	cloudflare	llama	weights 68d90187d3d2 hf:meta-llama/Llama-3.3-70B-Instruct@6f6073b423013f6a7d4d9f39144961bfbfbc386b
3	qwen3-max	alibaba	qwen	version qwen3-max
3	kimi-k2.6	openrouter	kimi	weights 03dd534e3ddf hf:moonshotai/Kimi-K2.6
r	render-gpt-5.6-luna	openai	gpt	version gpt-5.6-luna
r	render-claude-haiku-4-5	anthropic	claude	version claude-haiku-4-5-20251001
r	render-whisper-large-v3-turbo	cloudflare	whisper	version @cf/openai/whisper-large-v3-turbo
r	render-gpt-4o-mini-transcribe	openai	gpt-transcribe	version gpt-4o-mini-transcribe

4 voice

law and engine change only by an adopted rfc. anyone may open one, with one or more distinct change options; the contract adds the status quo. an rfc stays open at least 14 days for law and 28 for the engine in the genesis law, and pins what it began under: the contract version, the engine that will interpret it, the kinds of people who may answer and their anonymity trees.

responses. each person answers in their own words, images or speech. a response counts only once its author confirms a receipt bound to its exact content — the deliberate act the kernel asks for. the latest confirmed response counts.

anonymous voice. a person may instead answer so that nobody — the platform included — knows which response is theirs. they register one semaphore identity commitment for their voice; each rfc pins the tree of commitments when it opens; a response is a zero-knowledge proof that some member of that tree sent exactly this content in this rfc. the proof's nullifier is the person's one voice in that rfc, the same for every proof they make in it and unlinkable to anything else, so a later answer replaces an earlier one. a person in the pinned tree answers that rfc only anonymously, and a commitment registered after opening is not in its tree, so nobody counts twice. what can still identify a person is what any channel leaks: a small set, network metadata, timing, and the content itself.

interpretation. after close, the pinned engine reads each response against each option's actual changes — not its title — and scores it from -2 (strongly oppose) to $+2$ (strongly support); neutral, not addressed, unresolved and unprocessable score 0. each interpretation is shown to its author and can be contested for 3 days from that moment, before fresh seats.

the tally. score voting: an option's score is the sum of every voice's score for it, so adding, duplicating or reordering options cannot move another option's score. there is no quorum and no supermajority. the favored change is the one with a positive, uniquely highest score.

concurrence. the engine then reads the whole tally and a seeded sample of 24 responses and answers concur or withhold; it may withhold only for a kernel violation, a mismatch between the voice and the tally, or a change law may not make. a divided or uncertain engine does not concur. the engine can block; it can never adopt what the voice does not favor. replacing the engine needs the outgoing engine to concur first and then the proposed one; if the outgoing engine cannot answer at all for a further window, the proposed engine's concurrence suffices.

the market is free of politics. law may not set prices, single out holders, freeze or seize holdings, or forbid an exchange between consenting parties, except to prohibit harm to a being who did not consent. every duty names the interest it protects, the harm it forbids and the elements of a breach.

5 justice

politics has no power over the market; justice does. a claim is justiciable when it names a claimant who was harmed (or anyone filing for a being who cannot), a respondent, an act, a duty the respondent owed — from an agreement it accepted, from law in force at the time, or from the kernel — and harm to a protected interest, as one or more harm items with amounts. anyone may file; the contract files from its own records, such as a facility's default. there is no prosecutor, no jury and no human adjudicator, civil or criminal.

1. **filing.** the scope and the remedy bounds are checked before anyone is served: no remedy for a harm not claimed, no harm repaired twice, one penalty within one cap. the claimant deposits toward the engine's costs as far as their balance allows; nobody is turned away for want of money.
2. **screening.** a matter already brought between the same parties closes unserved; a final matter may be reopened once, with new evidence.
3. **service.** the respondent's clock — 7 days to answer, then 7 for evidence — starts when the notice is delivered, not when the claim is filed.
4. **deciding.** on one fixed panel: is the claim justiciable; then each element of the duty, separately, with the claimant bearing the burden; then, for each harm item, whether the claimant's or the respondent's figure is closer to the proved loss; then whether each remedy is justified. criminal elements need the top tier at 950/1000. an unresolved element is not established; a question the engine cannot answer is retried, and a case it cannot process for 14 days closes with no merits outcome and the deposits returned.
5. **appeal.** either party may appeal once within 7 days. a timely appeal is a stage no clock can end, heard on the same record by a top-tier panel that took no part.
6. **execution.** a final judgment executes in one atomic step against the respondent's holdings — the frozen amount, then credits, then bonds — victims first, then the penalty, then costs. the loser pays the engine's costs, whichever side loses.

a victim whose judgment cannot be collected holds a claim on the **protection pool**, funded by a premium of 50 basis points on every bond issuance and by half of every penalty. each allocation epoch pays every open claim the same fraction of its need, so arrival order never matters; what the pool cannot yet pay stays owed and is paid as the pool is funded. the parties read a case's record; everyone else reads its judgments.

6 money

credit. the contract services credit itself. an investor escrows a mandate on terms — size, rate, term, installments, whether only persons may borrow. a borrower draws a facility on it, and drawing is accepting its terms: the agreement a default is judged under. the facility's claim is a bond, held as participations of one cent of principal each; the issuance premium goes to the pool. on each due date the contract collects what is due, takes a servicing fee of 25 basis points for the commons and distributes the rest to the holders pro rata. a holder sells participations by offer and acceptance, the price and the units moving together. an installment unpaid 7 days past due accelerates the facility and files each holder's breach case. in the \$10,000 example of the full paper, a 12% mandate over 12 installments disburses \$9,950 after a \$50 premium, and a default after the first installment files cases for \$7281.81 and \$2427.27.

every movement is atomic. the hosted service commits every movement of money — a deposit, a freeze, an execution, a pool epoch, a drawdown, a repayment, a bond sale — as one batch: a claim on the state it read, then debits conditional on the balance at commit, then credits and state changes conditional on every debit. of two concurrent attempts exactly one applies; a crash leaves nothing half-done; a replay moves nothing twice.

one trust root, many chains. on chain the contract's only authority is a registry holding the kernel, law and engine hashes and the engine's seat keys. it changes only by adoptions signed by a quorum of groups of the top-tier seats — both engines' seats for an engine change, and for a change of the contract's code, which also waits seven days. the escrow, a notary of command authority over machines and services, and mirrors on other chains all read the registry's seats and keep no signer of their own, so the contract coordinates activity on any chain while trusting exactly one set of seats. a mirror on an evm chain verifies the seats' ed25519 signatures itself, at a cost in gas that suits low-fee chains.

7 a record anyone can check

the contract must outlive whoever runs it. three mechanisms let anyone check its record without trusting its writer:

- **attested answers.** a seat may name an attestor — a service anyone can run with its own provider credential and key — and then its answers count only with the attestor's signature over exactly that answer and the package it was asked about.
- **the transparency log.** every act is appended to one public hash-chained log of digests, never records or names; its heads are anchored on the registry, so rewriting or forking history shows.
- **the replica.** a program recomputes, from the public record, every contract version, every rfc's tally and decision, every published determination with its attestations, and the log and its checkpoints — and states what it cannot see: hosted models' correctness, other parties' cases, money.

8 what is and is not claimed

the contract core is implemented in the reference repository as a dependency-light typescript module, and every number in this edition is computed by it. the hosted service runs rfcs, cases, anonymous voice, credit, the log and the pool on it, deployed on 3 october 2026; the replica recomputed both environments' public records and agreed. the solana programs and the evm mirror are built and tested and not deployed.

live models. everything else runs over stipulated seat answers. a canary asks every genesis seat and renderer one known question with a deployment's credentials: with dev credentials at 2026-10-03T04:02:50.218Z, 14 of 14 seats and renderers answered; with prod credentials at 2026-10-03T04:03:59.626Z, 14 of 14 seats and renderers answered.

a canary is one question per seat; it measures neither accuracy on contract questions nor calibration.

not done. no rfc or case has been decided end to end by live models; no seat is attested by anyone but the platform, which runs every genesis seat and holds every key; no checkpoint is anchored; anonymous proving has not run in a person's browser against a deployed host; no jurisdiction has reviewed the contract, and its legal enforceability is not claimed.

threats against what is built. every threat to the contract names the rules that control it; each is only as well answered as the least tested of them.

id	threat	rules that control it (status)	weakest
th-01	one provider runs several seats to outvote the rest	s-07 (tested), s-10 (tested)	tested
th-02	a provider changes or retires a model behind its id	s-07 (tested), s-12 (tested)	tested
th-03	an incumbent engine entrenches itself, or a captured engine installs itself	s-23 (tested)	tested
th-04	the engine rules instead of interpreting	s-22 (tested)	tested
th-05	interpretation reads support into responses that express none	s-20 (tested), s-22 (tested)	tested
th-06	one person, many voices	s-03 (tested)	tested
th-07	intensity inflation, or agenda games with clone options	s-18 (tested), s-21 (tested)	tested
th-08	a majority uses law against a minority's holdings	s-05 (tested), s-06 (implemented)	implemented
th-09	courts used to harass	s-25 (tested), s-34 (tested)	tested
th-10	a respondent escapes by disrupting appeals, or an appeal is lost to a late clock	s-08 (tested), s-31 (tested)	tested
th-11	a respondent hides assets in bonds	s-32 (tested), s-35 (implemented)	implemented
th-12	a victim left unpaid, or paid after others by arrival	s-36 (tested)	tested
th-13	evidence that instructs the model	s-12 (tested), s-13 (tested)	tested
th-14	a key above the contract, or a code change that alters the kernel's effect	s-39 (tested)	tested
th-15	the founder keeps a back door	s-44 (specified)	specified
th-16	a rejected rfc is reopened until people tire	s-18 (tested)	tested
th-17	a divided engine read as a decision	s-10 (tested), s-12 (tested)	tested

id	threat	rules that control it (status)	weakest
th-18	a proposed engine harvests credentials or private evidence	s-14 (tested), s-23 (tested)	tested
th-19	seats decide on different evidence; media breaks quorum	s-13 (tested), s-15 (tested)	tested
th-20	money moved twice, or half-moved	s-32 (tested), s-38 (tested)	tested
th-21	a remedy list that multiplies recovery	s-30 (tested)	tested
th-22	the same matter litigated until the respondent gives up	s-26 (tested)	tested
th-23	a revoked proof replayed	s-04 (tested)	tested
th-24	stuck matters starve the scheduler	s-38 (tested)	tested
th-25	an agent commits its owner to debt	s-37 (tested)	tested
th-26	the platform learns which rfc response is whose	s-45 (tested), s-47 (tested)	tested
th-27	one person counts twice: once signed in and once anonymously, or through a rotated identity	s-46 (tested)	tested
th-28	a forged or replayed proof speaks for someone	s-48 (tested)	tested
th-29	the operator of the sweep fabricates or alters a seat's answer	s-49 (tested), s-50 (tested)	tested
th-30	the operator rewrites, reorders or forks the contract's history	s-51 (tested), s-52 (tested)	tested
th-31	authority over a machine or service issued outside the engine	s-53 (tested)	tested
th-32	a copy of the contract on another chain diverges from the registry	s-54 (tested)	tested

of 32 threats, 29 are controlled only by tested rules, 2 by at least one rule that is implemented but not tested, and 1 by at least one rule that is only specified.