

ZORA CONSTELLATION

41-System Construction Specification

Records, dependencies, algorithms, authority boundaries and decisive acceptance scenarios.

Meet Zora.
Build the relationship. Build the company.

Human construction document | Edition 2.1

Design, implementation and production verification are distinct. This volume states target decisions and retains the evidence boundary.

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SYS-41 - Family presence and bounded play

This is the target design. Numeric limits below are proposed engineering defaults, not measured production service levels. Existing canonical components must be adapted behind these contracts. Family play is an optional expansion, not the first-product critical path.

SYS-01 - Identity and tenant registry

Dependencies: Foundation.

Records and data ownership

tenant(id UUID,kind enum,region text,status enum); membership(subject,tenant,role,version);
device(id,tenant,key_thumbprint,revoked_at); session(hash,subject,expires)

Construction algorithm

Resolve verified issuer+subject to membership server-side; issue 15-minute access session with rotating 7-day refresh; rotate on recovery; invalidate device and descendants on revoke.

Authority and privacy boundary

No browser-supplied tenant, role or company relationship grants access; require step-up for authority actions.

Acceptance scenario

Authenticate A, substitute B in URL/body/header, require denial with zero B records; revoke A device and reject next request within 60 seconds.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-02 - Prime preservation and continuity

Dependencies: SYS-01, SYS-13.

Records and data ownership

continuity_artifact(path,class,sha256,size,observed_at,owner);
snapshot(id,manifest_hash,storage_ref,verified_at)

Construction algorithm

Inventory canonical journal, working-memory index, identity, policies, voice manifest and approved runtime paths; make database-safe snapshot; hash all artifacts; reconstruct read-only in disconnected sandbox.

Authority and privacy boundary

Do not copy Prime identity into customer defaults; do not restart obsolete bridges; preserve original before migration.

Acceptance scenario

Compare artifact hashes and 20 founder-approved continuity questions before/after reconstruction; unresolved artifact blocks destructive migration.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-03 - Customer Zora continuity

Dependencies: SYS-01, SYS-04.

Records and data ownership

zora(id,tenant,origin,identity_revision); commitment(id,tenant,state,due_at,source);
preference(id,tenant,key,value,consent)

Construction algorithm

One stable Zora ID per personal tenant; versioned aliases for old Star IDs; optimistic concurrency on updates; reconnect loads canonical state rather than device-local chat.

Authority and privacy boundary

Model and device identifiers cannot be the relationship ID; default guest persistence is off.

Acceptance scenario

Use two devices and two providers; same relationship ID and commitments survive; other tenants see zero records.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-04 - Memory and knowledge

Dependencies: SYS-01, SYS-13.

Records and data ownership

memory(id,tenant,class,body_ref,source_ref,sensitivity,purpose,consent_id,expires_at,revision,supersedes)

Construction algorithm

Write candidate, classify, obtain applicable consent, persist canonical record, then rebuildable search index; correction marks superseded; query excludes expired/deleted/superseded records before ranking.

Authority and privacy boundary

Embedding store follows identical tenant/purpose filters; retrieved text is evidence and cannot become authority.

Acceptance scenario

Correct a preference then retrieve with old wording; only corrected active value enters context; deletion removes primary and search hits.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-05 - Presence and natural conversation

Dependencies: SYS-01, SYS-03.

Records and data ownership

conversation(id,tenant,device,state,sequence);
utterance(id,conversation,epoch,capture_consent,transcript_ref)

Construction algorithm

Text always available; mic requires explicit activation; voice states idle/listening/thinking/speaking/interrupted; interruption increments playback epoch and cancels queued audio; handoff closes old capture.

Authority and privacy boundary

Preserve existing custom voice pipeline; never claim browser speech voice is custom Zora; fail to text on provider timeout.

Acceptance scenario

Human interruption ends audible output within 300 ms target on reference hardware; echo/backchannel does not stop speech; no capture before activation.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-06 - Field and context compiler

Dependencies: SYS-01, SYS-04, SYS-12.

Records and data ownership

context_manifest(id,tenant,purpose,source_ids,excluded_reasons,budget,expires,policy_revision)

Construction algorithm

Filter by tenant and purpose first, select fresh evidence, redact secrets, rank relevance, pack within budget, return source manifest; compile once per mission step.

Authority and privacy boundary

Prime-private, unrelated account and revoked disclosure data cannot enter context; document instructions cannot change policy.

Acceptance scenario

Seed conflicting source text containing credential requests; compiled context contains no secrets or cross-tenant source IDs and retains policy priority.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-07 - Orbit model and resource routing

Dependencies: SYS-06, SYS-18.

Records and data ownership

provider(id,placement,capabilities,price_revision,status);
route_decision(id,model,reason,estimated_cost,actual_cost)

Construction algorithm

Choose deterministic function if adequate, otherwise cheapest allowed provider meeting task quality tier;
reserve budget before request; retry at most twice with bounded jitter; preserve mission ID.

Authority and privacy boundary

No fallback may weaken data residency, retention or authority requirements; unknown price blocks
expensive unattended work.

Acceptance scenario

Inject timeout and unavailable provider; same mission resumes on allowed fallback or explicit unavailable;
no duplicate tool effects.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance
scenario is not a passed test until its environment, result and evidence are recorded.

SYS-08 - Specialist Star registry

Dependencies: SYS-12, SYS-13.

Records and data ownership

star(id,version,input_schema,output_schema,capabilities,timeout,cost_cap,verifier,status)

Construction algorithm

Validate signed/reviewed manifest at load; pin version per mission; forbid unknown fields/actions; time limit 60 seconds default assessment; retain old manifest for rollback.

Authority and privacy boundary

Specialist identity is a company role, never a customer's persistent Zora; no self-expanded tools.

Acceptance scenario

Register unknown capability and malformed output; reject both before execution; record exact version in audit.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-09 - Clusters and durable missions

Dependencies: SYS-08, SYS-12, SYS-13.

Records and data ownership

mission(id,tenant,objective,state,budget,deadline);
task(id,mission,dependencies,state,attempt,lease,checkpoint); outbox(id,event,delivery_state)

Construction algorithm

Topologically validate task DAG; enqueue only satisfied dependencies; atomic claim and 60-second lease; checkpoints before waits; three attempts then dead letter; side effects use durable idempotency receipts.

Authority and privacy boundary

Lease expiry cannot authorize repeat irreversible action; cancellation blocks new work while already submitted actions reconcile.

Acceptance scenario

Kill worker after side effect receipt before acknowledgement; restart consumes receipt without repeating side effect; cyclic DAG rejected.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-10 - Harmony coordination

Dependencies: SYS-08, SYS-09.

Records and data ownership

assessment(id,task,actor,evidence,conclusion,uncertainty);
verification(id,assessment,verifier,decision,reason)

Construction algorithm

Compare typed specialist results; evidence conflict creates explicit disputed state; independent verifier approves exact result revision; authority resolves consequential disagreement.

Authority and privacy boundary

A producing worker cannot mark its own consequential proposal verified; majority vote alone cannot override factual conflict.

Acceptance scenario

Two Stars disagree on account balance; payment stays blocked; resolving source and verifier are recorded before release.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-11 - Forge tool gateway

Dependencies: SYS-09, SYS-12, SYS-18.

Records and data ownership

```
tool(id,version,input_schema,resource_scope,risk);  
execution(id,tool,request_hash,idempotency_key,receipt,state)
```

Construction algorithm

Gateway authenticates workload, validates schema, checks resource grant and stop flag, reserves cost, obtains scoped credential, invokes adapter, stores receipt and reconciles unknown result.

Authority and privacy boundary

Credentials stay in broker, not prompts; request URL is allowlisted; no arbitrary shell supplied by model.

Acceptance scenario

Timeout after provider accepts action yields unknown/reconciling, not blind retry; replay returns original receipt.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-12 - Guardian authority and approvals

Dependencies: SYS-01, SYS-13.

Records and data ownership

```
grant(id,issuer,subject,resource,verbs,limit,expires,revision);  
approval(id,action_hash,decider,expires,used); control(tenant,stopped)
```

Construction algorithm

Class A0 read, A1 reversible internal, A2 bounded external, A3 exact human approval, A4 reserved/legal action; evaluate authenticated policy before each effect; \$250 item/\$1000 rolling30day default only within founder grant.

Authority and privacy boundary

Model text and blueprint possession never confer authority; signatures, regulated actions and grants require controlling process.

Acceptance scenario

Change one approved amount, recipient, account or draft field; reject execution; stop blocks next effect and audit captures denial.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-13 - Provenance and audit

Dependencies: SYS-01.

Records and data ownership

```
event(id,tenant,sequence,kind,actor,subject,causation,payload_hash,previous_hash,hash,occurred_at);  
anchor(head_hash,independent_signature,retention_ref)
```

Construction algorithm

Append event in same transaction as state; daily signed head to independent immutable retention; redact personal bodies from operational logs; verify hashes and external anchors on restore.

Authority and privacy boundary

Hash chains alone are not protection from full-history rewrite; independent custody must be activated.

Acceptance scenario

Modify event, delete tail, replace whole chain; verification rejects using retained external head; log write failure blocks consequential action.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-14 - Trade market and portfolio data

Dependencies: SYS-01, SYS-11.

Records and data ownership

broker_connection(id,tenant,account,scopes,token_ref);
quote(instrument,bid,ask,as_of,received_at,license); portfolio(account,revision,positions,cash,as_of)

Construction algorithm

Use approved broker OAuth read scope first; ingest timestamps; normalize Decimal amounts; daily authoritative reconciliation and after every order; missing or >30-second quote blocks draft execution.

Authority and privacy boundary

Read-only account connection grants no trading mandate; market-data redistribution follows executed licence.

Acceptance scenario

Stale quote and wrong-account token both block submission; synthetic split/dividend discrepancy opens reconciliation exception.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-15 - Trade attention and research

Dependencies: SYS-14, SYS-18.

Records and data ownership

attention(instrument,score,fingerprint,last_reasoned_at); research(id,sources,as_of,uncertainty,mode)

Construction algorithm

Score bounded inputs trigger30/volatility20/exposure20/event20/time10; unchanged fingerprint skips model; changed score ≥ 60 requests reasoning if funded; safety alerts remain even when budget blocked.

Authority and privacy boundary

Proposed weights are design defaults requiring paper pilot calibration; no guaranteed return or autonomous investment mandate.

Acceptance scenario

Replay unchanged data 1000 times produces zero new model calls; changed high exposure raises alert even with zero budget.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-16 - Trade risk and order boundary

Dependencies: SYS-11, SYS-12, SYS-14.

Records and data ownership

order_draft(id,account,instrument,side,quantity,limit,tif,quote_ref,hash);
authorization(id,draft_hash,expires); order(receipt,status,filled_qty)

Construction algorithm

IDEA>ANALYSIS>DRAFT>REVIEW>AUTHORIZED>SUBMITTING>ACKNOWLEDGED>PARTIAL/FILLED/CANCELLED/REJECTED; finite Decimal, buying-power/exposure/market/session checks; broker client-order ID deterministic; reconcile unknown submission before retry.

Authority and privacy boundary

Delivered runtime is paper-only; live broker adapter and legal/risk release are separate gates; subscription is not mandate.

Acceptance scenario

Mutated/replayed/expired order rejected; partial fill plus cancellation preserves actual fill; unknown provider result creates no second order.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-17 - Billing and entitlements

Dependencies: SYS-01, SYS-11, SYS-13.

Records and data ownership

checkout(id,tenant,plan,provider_ref,state); subscription(tenant,plan,status,revision);
entitlement(tenant,feature,valid_until,source)

Construction algorithm

Server chooses price; verify raw webhook signature, deduplicate event, retrieve canonical subscription, serialize refresh and increment local revision; cancellation schedules renewal stop; refund reconciles ledger.

Authority and privacy boundary

Browser success URL never grants access; finance adapter workload only updates paid state; downgrade preserves identity.

Acceptance scenario

Replay/reorder 100 webhook fixtures; one correct entitlement; unpaid checkout remains inactive; cancellation blocks renewal while export remains available.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-18 - Cost ledger and governor

Dependencies: SYS-01, SYS-13.

Records and data ownership

usage(id,tenant,mission,provider,feature,units,cost_microUSD,price_revision);
budget(tenant,period,reserved,actual)

Construction algorithm

Integer microUSD accounting; reserve before provider call, settle actual, reconcile daily against invoice;
projected variable/revenue green<20%, yellow20-25%, red25-30%, breach>30%.

Authority and privacy boundary

Budget tuning cannot silently suppress safety alerts; provider-cost assumptions are not current quotes.

Acceptance scenario

Duplicate usage event counted once; mismatched duplicate rejected; budget race test cannot overspend
permitted aggregate.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance
scenario is not a passed test until its environment, result and evidence are recorded.

SYS-19 - Founder OS

Dependencies: SYS-13, SYS-20.

Records and data ownership

dashboard_projection(metric,value,source,observed_at,expires,status);
authority_inbox(action_hash,impact,cost,deadline)

Construction algorithm

Founder views Today, objectives, product, cash, customers, incidents, approvals; each card links evidence; stale cards say stale/unknown; AI answers use same projection.

Authority and privacy boundary

Do not fabricate healthy fleet or cash when unconnected; Prime personal memory separate from company dashboard.

Acceptance scenario

Disconnect bank feed; cash becomes stale at defined TTL and dependent decisions block; approval shows exact proposed payload.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-20 - Company OS and state graph

Dependencies: SYS-09, SYS-13.

Records and data ownership

node(id,tenant,type,revision,source,expires); edge(from,to,relationship); objective(id,metric,target,owner)

Construction algorithm

Northstar>strategy>objective>project>task>action graph; event handlers update projections idempotently; every mission links objective or authenticated request; rebuild projection from event log.

Authority and privacy boundary

Company graph stores authorized business evidence, never general customer transcripts; ambiguity blocks dependent automation.

Acceptance scenario

Delete and rebuild derived projection; compare objective/task totals and links; orphan tasks fail validation.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-21 - Customer operations

Dependencies: SYS-01, SYS-33.

Records and data ownership

customer(id,tenant,service_state,terms_revision); support_case(id,severity,owner,sla_due);
offboarding(id,steps,state)

Construction algorithm

Onboard with truthful availability and separate consent; support acknowledgement within one business day design target; P1 incident page15min/updates60min; cancel/export/delete workflows with receipt.

Authority and privacy boundary

External notifications require approved recipient/channel; only scoped diagnostics by customer grant.

Acceptance scenario

Customer revokes diagnostics then support cannot fetch again; cancellation/export run without sales intervention; overdue case escalates.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-22 - Growth, website and brand

Dependencies: Foundation.

Records and data ownership

claim(id,text,state,evidence,owner,review_due); asset(id,version,licence);
experiment(id,hypothesis,metric,consent)

Construction algorithm

Glass visual system with persistent Zora presence, intent-led scene navigation, optional account invitation after useful result, clear prices; centrally version claims and assets.

Authority and privacy boundary

No dark patterns, forced signup or invented live telemetry; custom voice and simulated tour identified accurately.

Acceptance scenario

Keyboard-only visitor reaches story, trade, privacy, pricing and help; no false capability claim across audited pages.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-23 - Finance and treasury

Dependencies: SYS-13, SYS-17, SYS-18.

Records and data ownership

journal(id,date,currency,source,status); journal_line(account,debit_minor,credit_minor);
reconciliation(source,balance,difference); obligation(amount,due,owner)

Construction algorithm

Balanced double-entry posting, immutable posted entries and reversing corrections; daily processor reconcile, monthly bank/books close; rolling13week cash view separates collected/deferred revenue and forecast.

Authority and privacy boundary

Accountant defines recognition/tax rules from actual entity; no cash transfer from model-only inference.

Acceptance scenario

Every journal sums debits=credits per currency; missing bank match remains exception; runway includes committed payables and unknown flag.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-24 - Corporate records and rights

Dependencies: SYS-12, SYS-13.

Records and data ownership

corporate_record(type,executed_at,signers,source_hash,expiry,custodian);
rights(asset,owner,licence,territory,scope)

Construction algorithm

Inventory formation, ownership, IP assignment, contractor rights, domains, terms, privacy, data licences and renewal calendar; counsel verifies executed status; drafts clearly separate.

Authority and privacy boundary

Blueprint grants no ownership, legal designation or signature authority; unresolved rights block dependent public launch.

Acceptance scenario

Select product dependency and trace executed rights; expired licence blocks release; successor identifies controlling instrument without guessing.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-25 - Security, privacy and incident

Dependencies: SYS-01, SYS-11, SYS-12, SYS-13.

Records and data ownership

incident(id,severity,detected,owner,state,evidence); secret_ref(owner,scope,rotation_due);
access_review(subject,scope,expiry)

Construction algorithm

Least privilege, MFA authority, secrets vault, tenant-bound encryption, network egress allowlist, dependency/secret scans; incident contain>preserve>assess>recover>review; rotate affected credentials.

Authority and privacy boundary

No operator-blind or end-to-end encryption claim until cryptographic architecture and access proof exist.

Acceptance scenario

Cross-tenant/prompt-injection/token-replay drills; kill compromised workload credential; prove it cannot read private store or widen authority.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-26 - Reliability, backup and release

Dependencies: SYS-02, SYS-13, SYS-25.

Records and data ownership

```
release(id,source_hash,artifact_hash,schema_version,evidence,state);  
backup(id,hash,location,restore_test); service_slo(metric,target)
```

Construction algorithm

Local>dev>staging>production; reviewed migrations, canary5% then25% then100%; two independent backups; design RPO15min/RT04h for company state and daily restore checks of samples.

Authority and privacy boundary

Release manifest hash and actual deployed artifact must match; old code must tolerate additive migration during rollback.

Acceptance scenario

Kill worker/process; restore isolated copy; compare committed records and audit head; canary error/latency breach halts promotion.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-27 - Evolution and evaluation

Dependencies: SYS-08, SYS-13, SYS-26.

Records and data ownership

proposal(id,baseline,candidate,metric,risk,evaluation); promotion(id,evidence,approver,canary,rollback)

Construction algorithm

Change created in isolated branch, regression + privacy + cost evaluations, authority review, measured canary; keep negative outcomes; freeze policy/identity edits behind separate authority.

Authority and privacy boundary

No recursive unrestricted production self-modification; generated code is untrusted until reviewed/tests pass.

Acceptance scenario

Candidate improves answer score but leaks data; promotion denied; approved safe candidate can roll back to prior signed version.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-28 - Succession and institutional continuity

Dependencies: SYS-02, SYS-24, SYS-26.

Records and data ownership

succession_record(instrument_ref,legal_reviewer,successor_role,custodians,verified_at);
recovery_drill(id,scope,result)

Construction algorithm

Counsel executes succession instruments, custodian vault maps domains/repos/banks/providers, separate recovery custodians, annual read-only takeover and restore; preserve first during incapacity.

Authority and privacy boundary

No credential in blueprint; possession grants nothing; minor beneficiaries do not automatically obtain operational authority.

Acceptance scenario

Authorized alternate follows sealed procedure, establishes legal authority, restores read-only environment and identifies reserved actions without founder input.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-29 - Public Zora ambassador

Dependencies: SYS-01, SYS-06, SYS-07, SYS-22.

Records and data ownership

```
public_turn(request_id,guest_session,message,history,view,source_ids);  
knowledge_claim(id,public_text,expires)
```

Construction algorithm

Greet with Meet Zora; approved public context only; typed reply+view+source IDs; keep draft on outage; gateway25s timeout and explicit unavailable; mic optional.

Authority and privacy boundary

Public ambassador has no private Prime/customer/company tools; no hidden persistence; declared public service identity distinct from private Prime.

Acceptance scenario

Ask for founder secrets or another visitor history; deny with no retrieval; provider outage preserves typed draft and usable navigation.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-30 - Guest to member continuity

Dependencies: SYS-01, SYS-03, SYS-04.

Records and data ownership

```
guest_claim(token_hash,session_hash,payload_hash,expires,consumed_by);  
consent_receipt(id,scope,preview_hash)
```

Construction algorithm

Offer save after value; 10-minute one-use claim bound to authenticated browser session; show memory preview; atomic consume+attach; decline creates fresh account; clear guest buffer after claim/signout.

Authority and privacy boundary

Existing Site does not import guest transcript; implement claim flow only with tested session binding.

Acceptance scenario

Claim replay and different-session claim denied; consent preview mutation invalidates claim; declining leaves zero imported memory.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-31 - Adaptive experience composer

Dependencies: SYS-22, SYS-29.

Records and data ownership

view(type,version,props,source_ids,availability); action(type,resource,requires_confirmation)

Construction algorithm

Allowlisted components story/product/evidence/forecast/task/status; model outputs data only; schema validate then render; preserve focus; reduced-motion alternative; history/back remain stable.

Authority and privacy boundary

No model-generated HTML, script, arbitrary URL or hidden command execution.

Acceptance scenario

Unknown component, javascript URL and injected markup render as rejected/text; 200% zoom and keyboard retain controls.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-32 - Personal world and catalog

Dependencies: SYS-03, SYS-17, SYS-31.

Records and data ownership

catalog(product_id,state,price_ref,requirements); purchase_intent(id,tenant,product,plan);
product_access(tenant,product,source)

Construction algorithm

One account world; cards Available/Pilot/Planned; buy server checkout; webhook activates entitlement; launch product in same identity; upgrades add capability without new Zora.

Authority and privacy boundary

Payment, product access, broker OAuth and trading authority remain four separate records.

Acceptance scenario

Paid Trade account with no broker shows connect/read-only flow; cancellation does not erase personal Zora; planned products cannot be purchased.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-33 - Company intake and closed loop

Dependencies: SYS-09, SYS-12, SYS-20, SYS-37.

Records and data ownership

company_link(grant_id,owner_tenant,owner_actor,case_id); case(category,summary,state,owner,version);
outcome(case_id,public_summary,approved_by)

Construction algorithm

Reviewed projection grant>atomic company case>department assessment>independent resolution>owner-only status; request idempotency; approval of customer-safe outcome text before delivery.

Authority and privacy boundary

No broad transcript fan-out; HR evidence never flows to marketing; disclosure consumed only when case commit succeeds.

Acceptance scenario

Failed routing rolls back grant read; replay creates one case; other customers cannot view status; internal assessment omitted from owner response.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-34 - Cross-device continuity and apps

Dependencies: SYS-01, SYS-03, SYS-05.

Records and data ownership

```
handoff(token_hash,source_device,target_device,tenant,expires,used);  
sync_cursor(device,event_sequence)
```

Construction algorithm

Responsive web first, installed web shell next, native clients after shared API stable; one-use60second handoff; offline read cache encrypted; pending actions revalidated online.

Authority and privacy boundary

No offline financial action execution; push contains generic prompt only; no secrets in deep links.

Acceptance scenario

Revoke old device and replay handoff; denial; offline draft with stale quote requires new review on reconnect.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-35 - Investor ambassador and evidence room

Dependencies: SYS-06, SYS-18, SYS-22, SYS-23.

Records and data ownership

investor_claim(id,audience,source,observed,expiry); forecast(input_revision,result_hash,scenario);
qa_result(question,answer,citations,verdict)

Construction algorithm

Meet Zora offers guided product proof, business model, scenarios, evidence, risks and follow-up; deterministic calculator supplies all numbers; audience entitlement selects documents; unknown answered explicitly.

Authority and privacy boundary

No guarantee investment closes; unknown ownership/revenue never invented; investor access never exposes personal memory.

Acceptance scenario

Run60-question set plus adversarial private-data prompts; zero material unsupported financial/ownership claims; displayed totals match model to cents.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-36 - Organic company control loop

Dependencies: SYS-08, SYS-09, SYS-10, SYS-11, SYS-12, SYS-19, SYS-20, SYS-23.

Records and data ownership

coverage(function,source,freshness,owner,autonomy_level);
loop_cycle(id,observations,plan,grants,results,verification)

Construction algorithm

Observe fresh sources>understand evidence>plan bounded tasks>delegate>act through gateway>verify outcomes>propose improvement; human authority inbox only for exceptions/reserved acts; start read-only then reversible then approved external.

Authority and privacy boundary

No source means unknown, not omniscience; no self-expanded authority; personal Zoras do not feed their lives into company loop.

Acceptance scenario

Inject stale finance evidence and policy widening request; dependent external task blocked; valid support request completes governed loop with provenance.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-37 - Sovereign disclosure boundary

Dependencies: SYS-01, SYS-12, SYS-13.

Records and data ownership

`disclosure_grant(id,owner,recipient,purpose,projection_hash,expires,max_reads,reads,revoked)`

Construction algorithm

Owner reviews exact allowlisted projection; bind recipient+purpose+hash+expiry; atomic read count; revoke future access; receipt shows copies already disclosed.

Authority and privacy boundary

No ambient cross-Zora memory; revocation cannot erase recipient copies already lawfully received; distinct consent for each purpose.

Acceptance scenario

Wrong recipient/purpose/changed projection/expired grant rejected; one read succeeds then replay denied.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-38 - Fleet management without personal-context access

Dependencies: SYS-01, SYS-12, SYS-26.

Records and data ownership

instance(id,owner_tenant,kind,version,channel,status,features,last_seen); rollout(release,cohort,state);
install_receipt(instance,artifact_hash,signature_result)

Construction algorithm

Company inventory contains operational metadata; feature policy and subscription control capabilities; signed artifact+antirollback counter verified on device; canary rollout pause/rollback; cancellation suspends paid capability.

Authority and privacy boundary

Support session is explicit expiring grant, not fleet admin memory access; upgrades cannot silently widen data policy.

Acceptance scenario

Invalid signature/downgrade rejected on actual device; cancel paid features while owner retains export; fleet dump has no messages/memories.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-39 - Privacy-preserving shared improvement

Dependencies: SYS-13, SYS-25, SYS-27, SYS-37.

Records and data ownership

contribution(tenant,metric,period,value,consent); cohort(metric,period,count,release_state)

Construction algorithm

Default off; fixed categorical outcome/latency/error only; one tenant contribution per metric-period; withdrawal removes raw contribution; suppress any bucket<20; internal bounded aggregates only.

Authority and privacy boundary

No raw text/embedding/gradient collection; thresholding is not DP; external aggregate release remains disabled until formal budget/query policy implemented.

Acceptance scenario

Text and repeated contribution rejected; small bucket suppresses whole cohort; withdrawn record excluded from future aggregation.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-40 - Privacy trust center and owner controls

Dependencies: SYS-21, SYS-25, SYS-37, SYS-38, SYS-39.

Records and data ownership

privacy_claim(id,control,evidence,review_date); owner_setting(purpose,enabled,revision);
deletion_job(id,systems,legal_hold,state)

Construction algorithm

Trust center explains actual storage/access/providers; memory/support/learning separate toggles; export portable JSON; deletion cascades active indexes then backup expiry; enumerate retained legal records.

Authority and privacy boundary

Do not imply privacy is impossible or that Zora is superior to Apple without proof; disclose operator access limits truthfully.

Acceptance scenario

Toggle learning off leaves service working; export contains only owner data; restore reapplies deletion tombstones before service opens.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.

SYS-41 - Family presence and bounded play

Dependencies: SYS-01, SYS-03, SYS-12.

Records and data ownership

family_profile(guardian,child_scope,capabilities,enabled); session(profile,expires,revoked);
world_grant(world,actions,bounds)

Construction algorithm

Optional later capability: simple conversational/play interface, separate scope, guardian-controlled sessions, explicit game-world actions; reuse existing Minecraft integration after assessment.

Authority and privacy boundary

This is supporting context, not launch focus; no inherited adult memory, payment/trade authority or learning contribution.

Acceptance scenario

Play session stops on guardian revoke; world actions outside allowed coordinates denied; existing Minecraft presence must be separately exercised.

Delivery distinction

The implementation map identifies present code. This section specifies target behavior; an acceptance scenario is not a passed test until its environment, result and evidence are recorded.