

Srasta — SOC 2 Common Criteria Controls Matrix



Version: 1.0 · **Last updated:** 2026-04-29 · **Scope:** Srasta v1.x platform (control plane + audit + identity + workload routing)

This document is the **first-read artifact** for any security conversation with a prospective customer, design partner, or auditor. Each row maps a SOC 2 Common Criteria (CC) control to Srasta's current implementation, evidence pointers, and a status flag.

It is **honest** about what's shipped, what's planned, and what's out of scope at the seed stage. Over-claiming is not a control — it is a finding. Anything marked "planned post-Type-I" is roadmap, not roadmap-in-flight.






For the seed-stage compliance posture this matrix supports, see [docs/roadmap/compliance-roadmap.md](#) (anchor doc) and [docs/strategy/seed-momentum-plan.md](#) ticket #4. The vertical compliance frameworks (HIPAA, PCI DSS, FedRAMP) are tracked in [docs/compliance/controls-matrix.md](#) — they are post-seed concerns per the seed-momentum anchor's Mandate 5 (regulated-adjacent ICP, no compliance runway).

Status legend

Symbol	Meaning
✓	Shipped in production, verifiable today
🔄	Partially shipped — gap documented in the row
 Q3	On the seed-execution roadmap; target Q3 2026
 post-Type-I	Will land after the SOC 2 Type I audit (post-seed)
👤 customer	Customer's responsibility — Srasta runs inside their perimeter

CC1 — Control Environment



The control environment is the foundation: integrity, ethical values, governance structure, accountability. At seed stage (solo-founder + small-org buyers) most of these controls are formally documented commitments rather than headcount-based processes.

CC	Control	Status	Implementation	Evidence
CC1.1	Integrity & ethical values	 17 post-Type-I	Code of Conduct + acceptable-use policy committed to repo at Type-I prep.	docs/security/code-of-conduct.md (planned)
CC1.2	Board independence + oversight	 17 post-Type-I	N/A pre-seed (no board of directors). Investor advisory function tracked once seed closes.	—
CC1.3	Reporting structures + authority		Solo-founder org with clear escalation: customer issue → Prem (founder); legal → outside counsel. Codified in docs/security/incident-response.md once #157 ships.	docs/security/incident-response.md (with #157)
CC1.4	Competence		Hiring criteria + role expectations documented at the time of first hire. Pre-seed: solo-founder competency demonstrated by the platform itself + commit history.	git log; docs/strategy/seed-momentum-plan.md
CC1.5	Accountability		Every change is committed to GitLab with the author, the issue reference, and the GitLab MR review trail. No hot-patch-without-source-commit policy (Mandate 3).	git log ; the no-tactical-drift policy


CC2 — Communication and Information

CC	Control	Status	Implementation	Evidence
CC2.1	Internal info quality		All operational decisions are made on the basis of audited data: audit feed, control-plane inventory, security-panel findings. No verbal-only operational state.	Admin UI Activity tab; the shared audit-log module
CC2.2	Internal communication		Strategy, roadmaps, security posture all in repo (docs/strategy/ , docs/roadmap/ , docs/security/). Single source of truth, no Slack-only decisions per Mandate 6.	docs/strategy/seed-momentum-plan.md ; this matrix
CC2.3	External communication		Privacy policy + DPA template land via #158. Security questionnaire (CAIQ Lite) drafted via #158. Public landing pages at srasta.ai already communicate scope + posture. Operational telemetry to Gandiva (counts + shapes only, never customer data) documented in docs/legal/privacy-policy.md Section 3.4 + DPA Annex 4 (#173 / #174).	docs/legal/privacy-policy.md ; docs/security/caiq-lite.md

CC3 — Risk Assessment

CC	Control	Status	Implementation	Evidence
CC3.1	Specifies objectives	✓	Seed-momentum plan + per-roadmap docs make objectives explicit at each level (anchor + sub-roadmap + ticket).	<code>docs/strategy/seed-momentum-plan.md</code>
CC3.2	Identifies + analyzes risk	 Q3	Formal risk register lands during Type-I prep. Pre-seed: tactical risk-tracking via the <code>feedback_*</code> memory files + active-tickets list.	<code>docs/security/risk-register.md</code> (planned Q3)
CC3.3	Considers fraud risk	 post-Type-I	Fraud-specific controls land once we have a finance + payment surface (post-seed).	—
CC3.4	Assesses change-related risk	✓	Every CI pipeline runs <code>validate: fresh-install</code> , <code>validate: no-hardcoded-ips</code> , <code>validate: ruff</code> , <code>validate: version gates</code> . Security-panel findings re-evaluated on every config change.	<code>.gitlab-ci.yml</code> <code>validate</code> stage; the admin security panel

CC4 — Monitoring Activities

CC	Control	Status	Implementation	Evidence
CC4.1	Ongoing/separate evaluations	✓	Continuous monitoring via the admin UI Activity tab (#147 canonical event taxonomy: auth / inference / tool / admin) + security-panel findings (the admin license-expiry check, etc.). Live-tail audit JSONL with filters + CSV export (#144–#147).	the audit-event canonical classifier (#147); <code>admin/static/index.html</code> Activity tab
CC4.2	Communicates deficiencies		Security findings surface in admin UI in real time. Formal escalation runbook lands with #157 (architecture PDF) — covers who is notified for which severity.	<code>docs/security/incident-response.md</code> (with #157); the admin security panel

CC5 — Control Activities

CC	Control	Status	Implementation	Evidence
CC5.1	Selects + develops control activities	✓	Operator-configurable policy profiles (<code>baseline / hipaa / pci / fedramp</code>) via <code>SRASTA_POLICY</code> env var. Stricter value wins on conflict. Policy enforcement runs as middleware in <code>srasta-api gateway, rag-api, tool-gateway</code> .	the policy engine config; <code>policy.yaml.example</code>
CC5.2	General controls over technology	✓	Signed Docker images (cosign keyless via Sigstore + GitLab OIDC), per-image SBOMs (Syft), CVE scans (Grype), digest-pinned images in customer compose.	<code>release/services.yaml</code> ; <code>.gitlab-ci.yml</code> sign + sbom + scan jobs
CC5.3	Deploys via policies + procedures	✓	Deployment via <code>scripts/install.sh</code> → <code>setup.sh</code> → <code>docker compose up -d</code> . Customer compose generated from <code>release/services.yaml</code> (single source of truth). Mandate 2: every policy is operator-configurable, never code-baked.	<code>scripts/install.sh</code> ; <code>setup.sh</code> ; <code>release/services.yaml</code>

CC6 — Logical and Physical Access Controls

This is the most code-relevant criterion for Srasta — most of these land directly on the control plane.

CC	Control	Status	Implementation	Evidence
CC6.1	Logical access security software	✓	OIDC authentication via Zitadel (v4.13.1). JWT signed + verified at the gateway (srasta-api). Forwarded principal headers (X-Srasta-User-Id , X-Srasta-Tenant-Id , X-Srasta-Roles , HMAC-signed) propagate identity to internal services.	the gateway authentication layer; the gateway forwarded-header builder; Zitadel pinned in docker-compose.yml
CC6.2	Identifies + authenticates users	✓	Zitadel issues JWTs after the OIDC dance. AUTH_MODE=oidc enforces verification on every gateway request. AUTH_MODE=none is a dev-only mode that emits a startup WARN.	the gateway OIDC auth provider
CC6.3	Authorizes + manages access changes	✓	Three layers: (1) Zitadel-managed roles per user; (2) per-role model whitelist (platform_config.model_access table, gateway-enforced via the gateway per-role model authorization, admin UI grid); (3) per-persona tool access (setup/tool_policy.yaml , tool-gateway-enforced).	the admin service model-access endpoints (#148-#151); the gateway per-role model authorization; setup/tool_policy.yaml
CC6.4	Restricts physical access	∅ customer	Srasta runs inside the customer's infrastructure perimeter. Physical access to the host is the customer's responsibility.	Customer deployment plan
CC6.5	Manages access for joiners/movers/leavers	🔄	Admin UI exposes invite + revoke flows backed by Zitadel. Quarterly access reviews land post-Type-I (process gap, not feature gap).	the admin service invite/revoke endpoints; docs/security/access-review-procedure.md (post-Type-I)
CC6.6	External-use access controls	✓	srasta-api is the single external entry point (Mandate 1). Every external request transits this gateway: auth → authz → license → rate-limit → forwarded headers → upstream. No bypass routes.	the gateway request middleware; the audit-thesis design principle
CC6.7	Restricts data movement	✓	TLS termination at nginx (Let's Encrypt wildcard or operator BYOC); private Docker bridge network for inter-service traffic; audit-forwarder ships logs out only via operator-configured S3/SIEM endpoints.	setup/nginx/ ; docker-compose.yml:networks.srasta ; the audit-forwarder daemon
CC6.8	Prevents + detects malicious software	✓	Image vulnerability scanning (Grype in CI, blocks merge on CRITICAL). SBOM published per image (Syft).	.gitlab-ci.yml grype + sign jobs; scripts/verify-release-

CC	Control	Status	Implementation	Evidence
			Cosign signature verification on every customer install (<code>scripts/verify-release-bundle.sh</code>). Tool-gateway enforces tool-execution policy with persona-scoped allowlists.	<code>bundle.sh</code> ; the tool-gateway policy enforcement

CC7 — System Operations

CC	Control	Status	Implementation	Evidence
CC7.1	Detects + monitors vulnerabilities	✓	Grype scans every image in CI. License validation on the audit-feed UI (the admin license-expiry check). Per-release SBOMs. License posture monitoring built into the gateway (60s revalidator) + admin (#169).	<code>.gitlab-ci.yml</code> ; the admin security panel; the license-validation library
CC7.2	Monitors components/operation	✓	Hash-chained audit log covers every API request, auth event, authz denial, rate-limit hit, license denial, and admin action. Canonical event taxonomy (#147) routes events into auth/inference/tool/admin classes. Live tail in admin UI Activity tab. Audit-forwarder optionally ships to SIEM via Vector. Daily operational-telemetry phone-home (Phase 2 of #173) ships counts + shapes only — never customer data — to Gandiva for engagement signal; opt-out via <code>SRASTA_TELEMETRY=off</code> .	the shared audit-log module; the audit-event canonical classifier; the audit-forwarder daemon; <code>setup/vector/vector.toml</code> ; <code>docs/legal/privacy-policy.md</code> Section 3.4 (telemetry)
CC7.3	Evaluates security events	🔄	Real-time evaluation via security-panel findings + audit-feed filters. Severity-driven escalation procedure lands with #157.	the admin security panel; <code>docs/security/incident-response.md</code> (with #157)
CC7.4	Responds to security incidents	📅 Q3	Formal incident-response runbook lands during Type-I prep. Pre-seed: ad-hoc response by Prem with audit-log forensics.	<code>docs/security/incident-response-runbook.md</code> (planned Q3)
CC7.5	Recovers from security incidents	✓	Backup procedure (<code>scripts/backup.sh</code>) writes Postgres + Milvus metadata + .env snapshot to MinIO. <code>scripts/restore.sh</code> is the inverse. <code>scripts/rollback.sh</code> reverts the last upgrade. Hash-chained audit means a tampered log is detectable.	<code>scripts/backup.sh</code> ; <code>scripts/restore.sh</code> ; <code>scripts/rollback.sh</code>

CC8 — Change Management

CC	Control	Status	Implementation	Evidence
CC8.1	Authorizes + tests + documents changes	✓	All changes flow through GitLab MR with required reviewers. Every commit references a GitLab issue (the commit-issue-ref policy). CI gates: ruff, validate-version, validate-no-hardcoded-ips, validate-fresh-install, sbom + sign + smoke. Cosign-signed releases on every git tag. <code>scripts/upgrade.sh</code> runs the canary-then-full-deploy with <code>scripts/rollback.sh</code> available.	<code>.gitlab-ci.yml</code> ; the <code>commit-issue-ref</code> policy; <code>scripts/upgrade.sh</code>

CC9 — Risk Mitigation

CC	Control	Status	Implementation	Evidence
CC9.1	Business disruption risk	🔄	Backup + restore mechanics shipped (CC7.5). Formal BCP/DR plan with RTO/RPO targets lands with #157 architecture doc. Multi-region failover is a paying-customer-driven decision.	<code>scripts/backup.sh</code> ; <code>docs/security/bcp-dr-plan.md</code> (with #157)
CC9.2	Vendor/business-partner risk	🔴 17 post-Type-I	Vendor risk-assessment process tied to onboarding workflow. Pre-seed dependencies (Zitadel, Postgres, MinIO, Milvus, vLLM, etc.) tracked in <code>docs/roadmap/platform-architecture-roadmap.md</code> .	<code>docs/roadmap/platform-architecture-roadmap.md</code>

Cross-cutting controls (not strictly CC-keyed)

These are controls that customers ask about by feature name and that don't map cleanly onto a single CC.

Control	Status	Implementation	Evidence
Audit log integrity	✓	Hash chain (SHA-256(prev_hash + entry_json)) on every entry. verify_chain() returns errors on any tamper. Files mode 0644 owned by srasta:1000 in a shared volume (#164).	the audit-log chain-verification routine; chmod 644 post-#164
License posture enforcement	✓	RS256-signed JWTs verified offline. Trial / valid / 14-day-warn / 7-day-grace / hard-expired states. Gateway blocks inference + tools when hard-expired (#169 Phase 2). Admin UI write-block on hard-expired or enterprise-edition + no-key. License events in audit feed: granted / renewed / cleared / denied.	the license-validation library; the gateway license-block check; docs/roadmap/licensing-roadmap.md
Secret rotation	✓	scripts/rotate-secrets.sh rotates Tool Gateway API keys, Langfuse secrets, MinIO credentials with .env backup + service restart + post-rotation smoke test.	scripts/rotate-secrets.sh
Release provenance	✓	Every git tag produces a Cosign-keyless-signed bundle on GitLab Releases. Per-image SBOMs ship alongside. scripts/verify-release-bundle.sh validates the bundle locally before extraction.	.gitlab-ci.yml release:*:prod jobs; scripts/verify-release-bundle.sh
PII detection	✓	Regex-based detection of email, US phone, IPv4, passport, driver's license, SSN, credit-card PAN, CVV. Configurable action (redact / flag / block). PCI policy profile blocks PAN/CVV in inputs + outputs.	the PII/PHI/PAN detection library; the policy engine config
Rate limiting	✓	Per-user, per-tenant, per-IP rate limits enforced at the gateway (Valkey-backed counters). Configurable via RATE_LIMIT_PER_USER , RATE_LIMIT_PER_TENANT .	the gateway rate limiter; docker-compose.yml
Operator audit log access	✓	Admin UI Activity tab (live tail + filters + CSV export). Hash-chain verification CLI. Optional SIEM forwarding via audit-forwarder + Vector.	admin/static/index.html Activity tab; the audit-log chain-verification routine; the audit-forwarder daemon

Evidence collection (audit-engagement runbook)

For a SOC 2 Type I audit engagement, collect the following artifacts. All are reproducible from the running system without extra tooling.

Artifact	Collection method
Audit log sample (90 days, hash-chained)	<code>cp /var/log/srasta/audit.jsonl /tmp/audit-sample.jsonl</code>
Hash-chain integrity proof	<code>python3 -c "from audit.audit_log import AuditLog; ok,e = AuditLog().verify_chain(); print('PASS' if ok else e)"</code>
Backup verification report	<code>./scripts/backup.sh && ./scripts/verify-backup.sh \ tee /tmp/backup-verify-\$(date +%Y%m%d).txt</code>
Release SBOMs + signatures	<code>cosign download sbom srasta/srasta-api:<version> + cosign verify srasta/srasta-api:<version></code>
Active policy profile	<code>docker compose exec srasta-api env \ grep SRASTA_POLICY</code>
License posture snapshot	<code>curl -s http://localhost:8200/api/license \ jq</code>
Running service inventory	<code>docker compose ps</code>
Per-role model whitelist	<code>curl -s http://localhost:8200/api/platform/model-access \ jq</code>
Tool-gateway policy	<code>docker compose exec tool-gateway cat /app/tool_policy.yaml</code>
Container CVE scan	CI artifact: GitLab pipeline <code>grype</code> job per release
Rotation log	<code>./scripts/rotate-secrets.sh --dry-run \ tee /tmp/rotation-\$(date +%Y%m%d).txt</code>

Roadmap dependencies

The "🚧" planned" rows above resolve as the following tickets ship:

- **#157** Architecture + data-flow PDF — closes documentation gaps in CC1.3, CC4.2, CC7.3, CC9.1.
- **#158** Privacy policy + CAIQ Lite — closes CC2.3 (external communication).
- **#159** SOC 2 Type I commitment + Drata vendor selection — moves the Type-I-prep timeline into a dated commitment.
- **Q3 risk-register doc** — closes CC3.2.
- **Q3 incident-response runbook** — closes CC7.3, CC7.4.
- **Post-Type-I access reviews** — closes CC6.5.
- **Post-Type-I governance docs** — closes CC1.1, CC1.2, CC3.3, CC9.2.

Discipline (the "always honor these" rules)

1. **No over-claiming.** A row marked "✅ shipped" is a verifiable fact in the running system. Anything aspirational uses the 🚧 icon. If a row turns out to be over-claimed, it gets corrected here before any external conversation that depends on it.
2. **One source of truth.** This document is the anchor for every security conversation. When a customer asks "do you do X?", the answer comes from this matrix, not a Slack DM or a calendar recollection.
3. **Evidence is reproducible.** Every cited evidence path resolves to source code, a runtime command, or a CI artifact. No "ask Prem" entries.

4. **Customer perimeter is sacred.** Every row keeps the architectural invariant that customer data stays in customer infrastructure. Any control that breaks that invariant is a roadmap violation, not a control.

Related documents

- [docs/strategy/seed-momentum-plan.md](#) — the seed-stage execution anchor. This matrix is the deliverable for closure-boundary item #4 (was anchor-ticket #4, GitLab #156).
- [docs/roadmap/compliance-roadmap.md](#) — Phase 0 (paper artifacts)
- post-seed compliance runway.
- [docs/security/architecture.md](#) — single-page architecture + trust-boundary diagram. Lands with #157.
- [docs/security/caiq-lite.md](#) — CAIQ Lite ~40-question response set. Lands with #158.
- [docs/legal/privacy-policy.md](#) — privacy policy + DPA. Lands with #158.
- [docs/compliance/controls-matrix.md](#) — multi-framework reference (HIPAA / PCI DSS / FedRAMP). Out of seed-stage scope; resumes post-seed for vertical compliance work.
- [docs/roadmap/audit-infrastructure-roadmap.md](#) — the long-form audit-pipeline roadmap. CC7.2 + CC7.5 evolve as this lands.
- [docs/roadmap/auth-and-identity-roadmap.md](#) — identity stack evolution (Phase H single-gateway target post-seed).
- [docs/roadmap/licensing-roadmap.md](#) — license-posture design contract. Drives the CC7.1 license-monitoring row.