

Phase 2 Tasks

Aa Task ID	# Phase	🕒 Checkpoint ID	🕒 Status	≡ Task	≡ Notes	🕒 Component	🕒 Area	🕒 Section
P2-A-001		P2-A	Not Started	Redis keys (additions):			Standards	0) Conventions
P2-A-002		P2-A	Not Started	API conventions : Small, versioned REST APIs ; SIW E endpoints are public-facing and protected by policy/CSRF; CCI D/KYC and Compliance Adapter are internal-internal (or auth			Standards	0) Conventions

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				enti cate d) with Auth N mid dle war e.				
P2- A- 003		P2-A	Not Started	Egre ss allo w- list: KYC /KY B prov ider, Chai nlin k CCI D, and Chai nlin k ACE per envi ron men t.			Infra	1) Google Cloud
P2- A- 004		P2-A	Not Started	Ingr ess cont rols: fron t SIW E and CCI D/K YC publ ic end poin ts with TLS, COR S/C SRF,			Infra	1) Google Cloud

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				opti onal Clou d Arm or/I AP; kee p Com pli ance Ada pter inter nal.				
P2- A- 005		P2-A	Not Started	Artif act Regi stry: repo sitor ies for 'wall et- sign in', 'cci d- kyc' , and 'co mpli anc e- ada pter' .			Infra	1) Google Cloud
P2- A- 006		P2-A	Not Started	Cre ate tabl es and inde xes:		Cloud Spanner (identity & compliance)	Data Model	2) Data Stores -
P2- A- 007		P2-A	Not Started	Coll ecti ons: smal l poli cy doc ume nts		Firestore (policy/config)	Data Infra	2) Data Stores -

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				(e.g. , SIW E allo wed 'do mai ns', 'orig ins', 'uris 'cha inId s'), ada pter poli cy thre shol ds.				
<u>P2-A-008</u>		P2-A	Not Started	Redi s: non ce/s essi on cac hes, web hoo k ded upe keys , ACE toke n buc kets .		Memorystore and GCS	Data Infra	2) Data Stores -
<u>P2-A-009</u>		P2-A	Not Started	GCS : opti onal stor age for prov ider doc ume nts poin		Memorystore and GCS	Data Infra	2) Data Stores -

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				ters if required (no PII).				
P2-A-010		P2-A	Not Started	Service accounts: `sa-wall-et-signin`, `sa-ccid-kyc`, `sa-compliance-adapter`.			Security	3) Security & IA
P2-A-011		P2-A	Not Started	Least-privilege roles:			Security	3) Security & IA
P2-A-012		P2-A	Not Started	No new topics for Phase 2: SIW E, CCI D/K YC, and Compliance Adapter are API-driven;			Messaging	4) Pub/Sub Eve

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				exist ing bus rem ains.				
P2- A- 013		P2-A	Not Started	Rep osit orie s & pipe lines : buil d, tag, pus h, and depl oy 'wall et- sign in', 'cci d- kyc' , 'co mpli anc e- ada pter' .			CI/CD	5) CI/CD & Runt
P2- A- 014		P2-A	Not Started	Runt ime conf igs:			CI/CD	5) CI/CD & Runt
P2- A- 015		P2-A	Not Started	Das hbo ards : p95 late ncy and erro r- rate for SIW E, CCI D/K YC			Observability	7) Observability

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				(start + web hook), Compliance Adapter check; cache-hit ratio for Adapter.				
P2-A-016		P2-A	Not Started	Alerts: Adapter check errors/latency; CCI D issue/refresh failures; invalid SIWE verifications.			Observability	7) Observability
P2-A-017		P2-A	Not Started	SLO targets: SIWE verify server-side p95 ≤ 150			Observability	7) Observability

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				ms (ex-wall et time). Com plia nce cac he-hit p95 ≤ 50 ms; fres h path off hot path .				
<u>P2-A-018</u>		P2-A	Not Started	Secr ets: JWT sign ing keys and coo kie secr ets pres ent.		Wallet Sign-In (SIWE)	Auth	8) Component-I
<u>P2-A-019</u>		P2-A	Not Started	Con fig: allo wed `do mai ns`, `orig ins`, `uris`, `cha inId s`; non ce/s essi on TTL s; coo kie		Wallet Sign-In (SIWE)	Auth	8) Component-I

Aa Task ID	# Phase	🕒 Checkpoint ID	🕒 Status	≡ Task	≡ Notes	🕒 Component	🕒 Area	🕒 Section
				flags; COR S/H STS.				
P2-A-020		P2-A	Not Started	Spanner tables: `siw_e_nonce`, `sessions`, `wallets` with indexes as above.		Wallet Sign-In (SIWE)	Auth	8) Component-I
P2-A-021		P2-A	Not Started	Redis: nonces/session caches and rate limits enabled.		Wallet Sign-In (SIWE)	Auth	8) Component-I
P2-A-022		P2-A	Not Started	AuthN middleware: validate access JWT; loads `account		Wallet Sign-In (SIWE)	Auth	8) Component-I

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				_id' / 'wall et_i d'.				
<u>P2-A-023</u>		P2-A	Not Started	Secr ets: prov ider keys + web hoo k sign ing; Chai nlin k CCI D cred enti als.		CCID/KYC Service	Identity	8) Component-I
<u>P2-A-024</u>		P2-A	Not Started	Con fig: prov ider web hoo k → 'cci d/w ebh ook/ prov ider' ; poli cy reso lver ena bled .		CCID/KYC Service	Identity	8) Component-I
<u>P2-A-025</u>		P2-A	Not Started	Spa nner tabl es: 'kyc _ses sion s', 'cci d_at test atio ns',		CCID/KYC Service	Identity	8) Component-I

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				`kyb _do cs_ met a`.				
P2- A- 026		P2-A	Not Started	Web hoo k sec urity : sign atur e verif icati on and Redi s ide mpo tenc y key `cci d:w ebh ook: {pro vide r_se ssio n_id }`.		CCID/KYC Service	Identity	8) Component-I
P2- A- 027		P2-A	Not Started	Com plia nce trigg ers: call Ada pter `inv alid ate/r efre sh` on issu e/re vok e/ex piry.		CCID/KYC Service	Identity	8) Component-I
P2- A- 028		P2-A	Not Started	Secr ets: ACE		Compliance Adapter	Compliance	8) Component-I

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				credentials and limits.				
P2-A-029		P2-A	Not Started	Config: cache TTLs; trigger thresholds; background sweep cadence; request debounce.		Compliance Adapter	Compliance	8) Component-I
P2-A-030		P2-A	Not Started	Spanner table: `compliance_cache` with unique `account_id` and index on `expiry_at`.		Compliance Adapter	Compliance	8) Component-I
P2-A-031		P2-A	Not Started	ACE client: timeouts/QP		Compliance Adapter	Compliance	8) Component-I

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				S/re tries with OTE L.				
<u>P2-A-032</u>		P2-A	Not Started	Inte grati on: syn chro nou s call to Com plia nce Ada pter per pre-trad e che ck; fail-clos ed on non - ALL OW or ada pter erro r.		Risk Engine (update)	Risk	8) Component-I
<u>P2-A-033</u>		P2-A	Not Started	`GE T /siw e/no nce` retu rns sing le-use non ce; Spa nner & Redi s refle ct it.		SIWE Flow	Validation	9) Smoke Tests

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P2-A-034		P2-A	Not Started	'POST /siwe/verify' mint tokens, persists session, marks nonce used; 'wallets' bound to 'accounts'.		SIWE Flow	Validation	9) Smoke Tests
P2-A-035		P2-A	Not Started	'POST /ccd/start' creates 'kyc_sessions' and returns provider URL /token.		KYC & Attestation Flow	Validation	9) Smoke Tests
P2-A-036		P2-A	Not Started	Signed web hook to '/ccd/webhook/provider'		KYC & Attestation Flow	Validation	9) Smoke Tests

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				updates `kyc` _sessions`.				
P2- A- 037		P2-A	Not Started	`POST` /ccd/issue_ or_refre sh` creates `ccd_at testatio ns` (non- PII); triggers Adapter refresh.		KYC & Attestation Flow	Validation	9) Smoke Tests
P2- A- 038		P2-A	Not Started	`GET` /compliance/{a ccount_id}`: first call miss →ACE →cache write; second call hit→ fast path`.		Compliance Verdict	Validation	9) Smoke Tests
P2- A-		P2-A	Not Started	Push		Risk Engine Integration	Validation	9) Smoke Tests

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<u>039</u>				`account. internet.ready` ; Risk logs show Compliance Adapter check prior to decision ; proceed only on `ALLOW` .				
<u>P2-A-040</u>		P2-A	Not Started	Define Redis keys for SIWE.	siwe: nonce: {nonce}, siwe: session: {session_id}, siwe: r: {ip origin}.	Redis	Conventions	0) Conventions
<u>P2-A-041</u>		P2-A	Not Started	Define Redis keys for CCI D/KYC.	ccid: webhook: {provider_session_id} (idempotency), ccid:issue:	Redis	Conventions	0) Conventions

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					{account_id} (issuance lock).			
P2-A-042		P2-A	Not Started	Define Redis keys for Compliance Adapter & ACE rate limits.	comp:refresh: {account_id}, comp:check: {account_id}, ace:qps:*	Redis	Conventions	0) Conventions
P2-A-043		P2-A	Not Started	Update egress allow-lists per env for KYC /KYB, Chainlink CCI D, and Chainlink ACE.		VPC/Egress	Networking	1) GCP & Netwo
P2-A-044		P2-A	Not Started	Harden public ingress for SIWE and CCI	TLS, CORS /CSRF, optional Cloud Armor/IAP.	Edge	Networking	1) GCP & Netwo

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				D/K YC; keep Compliance Adapter internal.				
<u>P2-A-045</u>		P2-A	Not Started	Create Artifact Registry repos for wall et-sign in, ccid - kyc, compliance-adapter.		Artifact Registry	CI/CD	1) GCP & Netwo
<u>P2-A-046</u>		P2-A	Not Started	Create service accounts: sa-wall et-sign in, sa-ccid - kyc, sa-compliance-adapter.		IAM	Security	3) Security & IA
<u>P2-A-047</u>		P2-A	Not Started	Allow Risk Engi		IAM	Security	3) Security & IA

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				ne prin cipa l to call inter nal Com plia nce Ada pter and (opti onal ly) read Com plia nce Cac he.				
P2- A- 048		P2-A	Not Started	Prov ision secre ts in Secr et Man ager : SIW E JWT /coo kies; CCI D/K YC prov ider +we bho ok+ CCI D cred s; Com plia nce Ada pter ACE cred s.		Secret Manager	Security	3) Security & IA

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P2-A-049		P2-A	Not Started	Add service directories: services/wallet-sign in, services/ccid-kyc, services/compliance-adapter.		Repo Layout	CI/CD	5) CI/CD & Runt
P2-A-050		P2-A	Not Started	Build/tag/push images; deploy per env with runtime configs and Secret Manager mounts.		Cloud Build/Run	CI/CD	5) CI/CD & Runt
P2-A-051		P2-A	Not Started	Configure SIWE runtime policy.	Allowed domains, origins, uris, chain ids; nonc	SIWE Config	Runtime	5) CI/CD & Runt

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					e/ses sion TTLs; cooki e flags.			
<u>P2-A-052</u>		P2-A	Not Started	Con figur e CCI D/K YC runti me setti ngs and web hoo k secre t.		CCID/KYC Config	Runtime	5) CI/CD & Runt
<u>P2-A-053</u>		P2-A	Not Started	Con figur e Com plia nce Ada pter runti me setti ngs.	Cach e TTL defau lts, trigge r thres holds (e.g., large order notio nal), ACE endp oints/ QPS/ retrie s.	Adapter Config	Runtime	5) CI/CD & Runt
<u>P2-A-054</u>		P2-A	Not Started	Add das hbo ards for SIW E, CCI D/K YC (star t+w ebh ook) , Com		Dashboards	Observability	7) Observability

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				pliance Adapter check; include cache- hit ratio .				
P2- A- 055		P2-A	Not Started	Set alerts for adapter check latency/ error, CCID issue/ refresh failures, invalid SIWE verifications.		Alerts	Observability	7) Observability
P2- A- 056		P2-A	Not Started	Adopt Phase-2 SLO baselines: SIWE verify p95 ≤ 150 ms; Compliance		SLOs	Observability	7) Observability

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				nce cac he- hit p95 ≤ 50 ms.				
P2- A- 057		P2-A	Not Started	Veri fy SIW E secre ts pres ent: JWT sign ing keys and coo kie secre ts.		SIWE	Preflight	8) Preflight — S
P2- A- 058		P2-A	Not Started	Veri fy SIW E conf ig allo w- lists and TTL s; COR S/H STS ena bled .		SIWE	Preflight	8) Preflight — S
P2- A- 059		P2-A	Not Started	Ena ble Redi s cac hes and rate limit s for SIW E.		Redis	Preflight	8) Preflight — S

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P2-A-060		P2-A	Not Started	Verify CCI D/KYC secrets (provide r keys , web hook signing, Chai nlink CCI D).		CCID/KYC	Preflight	8) Preflight — C
P2-A-061		P2-A	Not Started	Enforce web hook signature verification and Redis idempotency ccid :webhook: {provide r_session_id }.		Security	Preflight	8) Preflight — C
P2-A-062		P2-A	Not Started	Verify ACE client credenti		Adapter	Preflight	8) Preflight — A

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				als and limits in secrets.				
P2-A-063		P2-A	Not Started	Wire internal ACE Integration client with timeouts/QP S/retries.		Adapter	Preflight	8) Preflight — A
P2-A-064		P2-A	Not Started	GET /siw/e/nounce returns single-use nonce; MongoDB/Redis show TTL.		SIWE	Testing	9) Smoke Tests
P2-B-009		P2-B	Not Started	Standardize error model and logging.	NONCE_ID, SIGNATURE_INVALID, POLICY_VIOLATION, CHAIN_DENIED, ACC	Error Model	Identity	1) Development

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					OUN T_BL OCKE D, REFR ESH_ REVO KED; inclu de correl ationI d.			
P2- B- 010		P2-B	Not Started	Loa d secre ts and run time conf igur atio n.	JWT signi ng keys, cooki e secre ts; polic y allow -lists; TTLs; rotati on wind ow; rate limits; CORS /HST S.	Config/Secrets	Security	1) Development
P2- B- 012		P2-B	Not Started	Har den coo kies and CSR F/C ORS .	HTTP -only, Secur e cooki es; Same Site Lax/S trict; enabl e CSRF token or Same Site Strict ; enfor ce HSTS	Edge	Security	Security & Hard

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					and TLS 1.2+.			
P2-B-013		P2-B	Not Started	Can onic alize addr esses and mini mize iden tifiers.	Lowercase wallet addresses; hash/salt IP/device fingerprints before storing; exact domain binding from nonce to verify.	Sanitization	Security	Security & Hard
P2-B-014		P2-B	Not Started	Meet Phase-2 SIWE p95 ≤ 150 ms server-side (exclude wallets signing).	Keep nonce/session hot paths Redis-backed; persist to MongoDB for durability.	SLOs	Observability	SLOs & Perform
P2-B-015		P2-B	Not Started	Verify SIWE secrets present		Secrets	Preflight	8) Component-I

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				(JWT signing keys, cookie secrets).				
P2-B-016		P2-B	Not Started	Verify config allow-lists, TTLs, cookie flags, and CORS/HTTPS.		Runtime Config	Preflight	8) Component-I
P2-B-018		P2-B	Not Started	Redis caches and rate limits enabled for non-ces session.		Redis	Preflight	8) Component-I
P2-B-020		P2-B	Not Started	GET /siwe/no nce returns single-use non ce with TTL; visib		API	Testing	9) Smoke Tests

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				le in Redis/Mongo.				
P2-C-001		P2-C	Not Started	Public API (versioned path permitted):		CCID/KYC Service	Contracts	1) Development
P2-C-002		P2-C	Not Started	Session management ('/ccid/start') : Resolve required KYC level by jurisdiction/entity type ; open a provider session; persist to `kyc_session` ; return handoff token/U		CCID/KYC Service	Contracts	1) Development

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				RL. (Aut h requ ired via SIW E sess ion.)				
P2- C- 003		P2-C	Not Started	Web hoo k han dlin g (`/cc id/w ebh ook/ prov ider`): Veri fy sign atur e; ded upe via Redi s ide mpo tenc y key `cci d:w ebh ook: {pro vide r_se ssio n_id }`; upd ate `kyc _ses sion s` with nor mali zed		CCID/KYC Service	Contracts	1) Development

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				deci sion .				
P2- C- 004		P2-C	Not Started	Evid enc e reda ctio n: Com pute salt ed has hes for sen sitiv e iden tifier s; stor e no raw PII. Kee p only poin ters/ dige sts in 'kyb _do cs_ met a'.		CCID/KYC Service	Contracts	1) Development
P2- C- 005		P2-C	Not Started	CCI D issu anc e (`iss ue_ or_ refre sh` path): Map prov ider deci sion into		CCID/KYC Service	Contracts	1) Development

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				a CCI D clai m, call Chai nlin k CCI D, ups ert 'cci d_at test atio ns{a cco unt_ id,w allet _ad dres s,att esta tion _id, ...}' , opti onal ly verif y imm edia tely, and sch edul e refr esh by 'exp ires_ at'. Gua rd issu anc e with 'cci d:iss ue: {acc ount				

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				Compliance triggers: On issue/revoke/expire (or level/jurisdiction change), call Compliance Adapter 'invalidate/refresh' so Risk sees a fresh verdict when needed.				
P2-C-006		P2-C	Not Started			CCID/KYC Service	Contracts	1) Development
P2-C-007		P2-C	Not Started	Collections & indexes (must exist):		CCID/KYC Service	Contracts	1) Development
P2-C-008		P2-C	Not Started	Security, secr		CCID/KYC Service	Contracts	1) Development

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				ets, and egre ss: Prov ider & CCI D keys in Secr et Man ager ; sign ed web hoo ks; allo w- list egre ss to prov ider and Chai nlin k CCI D.				
<u>P2- C- 009</u>		P2-C	Not Started	Ide mpo tenc y & con curr enc y: Web hoo ks ded upe d by (pr ovid er_s essi on_i d, sign atur e`;		CCID/KYC Service	Contracts	1) Development

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				issu anc e path seri alize d by 'cci d:iss ue: {acc ount _id}' ; ups erts key ed by '{ac cou nt_i d,w allet _ad dres s}' for safe retri es.				
<u>P2- C- 010</u>		P2-C	Not Started	Obs erva bilit y: Stru ctur ed logs with 'cor relat ionl d'; cou nter s for start s, appr oval s, reje cts; late ncy/ erro r		CCID/KYC Service	Contracts	1) Development

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				das hbo ards per end poin t. (Ad apte r refr esh es are also logg ed/o bser vabl e.)				
P2- C- 011		P2-C	Not Started	Unit test s: Web hoo k sign atur e verif icati on, evid enc e has hing /red acti on, CCI D clai m con stru ctio n and map ping .			Validation	2) Testing & Val
P2- C- 012		P2-C	Not Started	See d data : Use			Validation	2) Testing & Val

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				an `account_id` obtained from the SIWE flow.				
<u>P2-C-013</u>		P2-C	Not Started	Call `POST /ccd/start` with a valid SIWE access token → expect session URL /token and a `kyc_session` {status: "created"} record.			Validation	2) Testing & Val
<u>P2-C-014</u>		P2-C	Not Started	POST a valid, signed web hook payload			Validation	2) Testing & Val

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				oad indi cati ng "ap prov ed" to 'cci d/w ebh ook/ prov ider' ; exp ect 200 OK, sign atur e verif ied in logs , and 'kyc _ses sion s{st atus :"co mpl eted , deci sion :...}'.				
<u>P2- C- 015</u>		P2-C	Not Started	Veri fy a suc cess ful call to the (san dbo x/m ock ed) Chai nlin k CCI D			Validation	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				API; check `ccd_attestations` upsert `{attestation_id, ...}` (non-PII only).				
<u>P2-C-016</u>		P2-C	Not Started	`GET /ccd/status` returns the newly created attestation summary.			Validation	2) Testing & Val
<u>P2-C-017</u>		P2-C	Not Started	`POST /ccd/invalidate` marks it revoked (and upstream if supported).			Validation	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
<u>P2-C-018</u>		P2-C	Not Started	If `expires_at` is near , background scheduler runs `issue_or_refresh` .			Validation	2) Testing & Val
<u>P2-C-019</u>		P2-C	Not Started	Send a webhook with an invalid signature → 401/403 and no state change; confirm idempotency did not ingest the payload.			Validation	2) Testing & Val
<u>P2-C-020</u>		P2-C	Not Started	After issuance,			Validation	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				confirm the service called Compliance Adapter 'invalidate/refresh'; adapter logs show cache refresh on next check.				
P2-C-021		P2-C	Not Started	Use Redis idempotency for provider webhooks and issuance locks.	ccid: webhook: {provider_session_id} for webhook dedupe; ccid: issue: {account_id} to serialize issuance.	Redis	Reliability	Conventions
P2-C-022		P2-C	Not Started	Implement /ccid/webhook	Verify provider signature;	Webhook Handler	Compliance	1) Development

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				ook/ prov ider with sign atur e verif icati on and Redi s ded upe.	dedu pe via ccid: webh ook: {prov ider_ sessi on_id }; norm alize decisi on into kyc_s essio ns.			
P2- C- 023		P2-C	Not Started	Loa d prov ider & CCI D cred s; allo w- list prov ider and Chai nlin k CCI D egre ss.		Secret Manager & Networking	Security	1) Development
P2- C- 024		P2-C	Not Started	Add stru ctur ed logs , cou nter s, and late ncy/ erro r das hbo		Dashboards & Logs	Observability	1) Development

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				ards for eac h end poin t; incl ude corr elati onId .				
<u>P2- C- 025</u>		P2-C	Not Started	CCI D/K YC serv ice depl oye d and oper atio nal in dev; end -to- end onb oard ing to atte stati on com plet es with non -PII pers iste nce.		System	Exit	3) Exit Criteria
<u>P2- D- 001</u>		P2-D	Not Started	API end poin t (inte rnal, vers ione d path per		Compliance Adapter Service	Contracts	1) Development

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				mitt ed):				
<u>P2-D-002</u>		P2-D	Not Started	Serv e-first cac hing logi c:		Compliance Adapter Service	Contracts	1) Development
<u>P2-D-003</u>		P2-D	Not Started	Refr esh on miss /stal e:		Compliance Adapter Service	Contracts	1) Development
<u>P2-D-004</u>		P2-D	Not Started	ACE Inte grati on (clie nt libra ry):		Compliance Adapter Service	Contracts	1) Development
<u>P2-D-005</u>		P2-D	Not Started	Coll ecti ons & inde xes:		Compliance Adapter Service	Contracts	1) Development
<u>P2-D-006</u>		P2-D	Not Started	Erro r han dlin g & poli cy:		Compliance Adapter Service	Contracts	1) Development
<u>P2-D-007</u>		P2-D	Not Started	Obs erva bilit y & SLO s:		Compliance Adapter Service	Contracts	1) Development
<u>P2-D-008</u>		P2-D	Not Started	Inte grati on poin t:		Risk Engine (modification)	Contracts	1) Development
<u>P2-D-009</u>		P2-D	Not Started	Fail-clos ed logi c:		Risk Engine (modification)	Contracts	1) Development
<u>P2-D-010</u>		P2-D	Not Started	Hot-path		Risk Engine (modification)	Contracts	1) Development

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				latency:				
<u>P2-D-011</u>		P2-D	Not Started	Unit tests:			Validation	2) Testing & Val
<u>P2-D-012</u>		P2-D	Not Started	Manual trigger:			Validation	2) Testing & Val
<u>P2-D-013</u>		P2-D	Not Started	Risk calls Adapter; Adapter logs show cache miss, ACE Context build, and ACE call.			Validation	2) Testing & Val
<u>P2-D-014</u>		P2-D	Not Started	`ComplianceCache` updated with `{verdict, expiry_at, policy_version}`; response returned			Validation	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				rns `cac he_ hit: fals e`.				
P2- D- 015		P2-D	Not Started	Ada pter retu rns ALL OW; Risk proc eed s and publ ishe s `risk .app rove d`.			Validation	2) Testing & Val
P2- D- 016		P2-D	Not Started	Publ ish anot her `acc ount .inte nt.re ady` ; Ada pter logs cac he hit, no ACE call; Risk appr ove s agai n, dem onst ratin g low- late ncy			Validation	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				path .				
<u>P2-D-017</u>		P2-D	Not Started	Set the test user's `ComplianceCache.verify = DENY`; publish another `account.intent.ready` .			Validation	2) Testing & Val
<u>P2-D-018</u>		P2-D	Not Started	Risk immediately emits `risk.rejected`; snapshot includes compliance reason.			Validation	2) Testing & Val
<u>P2-D-019</u>		P2-D	Not Started	Induce adapter 5xx/timeout; verify Risk			Validation	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	= Task	= Notes	⦿ Component	⦿ Area	⦿ Section
				reje cts with 'CO MPL IAN CE_ UNA VAIL ABL E' and pers ists the sna psh ot.				
P2- D- 020		P2-D	Not Started	On emp ty/st ale cac he: acq uire com p:re fres h: {acc ount _id}, load profi le (acc ount s) and CCI D ref (cci d_at test atio ns), buil d ACE Con text, call ACE via Inte grati	Upse rt {verdi ct, reaso ns, expir y_at, polic y_ver sion, updat ed_at , sourc e="fr esh"} .	Compliance Adapter	Compliance	1) Compliance A

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	= Task	= Notes	⦿ Component	⦿ Area	⦿ Section
				on Contract, upsert Compliance Cache and return cac_he_hit=false.				
P2-D-021		P2-D	Not Started	Use ACE Integration Contract for secure, rate-limited calls with short timeouts, bounded retries, and response mapping.	Map {verdict, reasons[], ttl_highest_seconds, policy_version}; clamp TTLs; export traces/metrics.	ACE Integration Contract	Compliance	1) Compliance A
P2-D-022		P2-D	Not Started	Emit traces (ace.evaluate		Dashboards & Tracing	Observability	1) Compliance A

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				e) with corr elati on IDs; mon itor p95 late ncy, erro r rate, cac he- hit ratio , refr esh late ncy.				
P2- D- 023		P2-D	Not Started	Trea t Ada pter as cac he- serv ed; do not inlin e ACE calls insi de Risk to pres erve Pha se-1 SLO s.		Risk Engine	Risk	1) Risk Engine –
P2- D- 024		P2-D	Not Started	Ada pter: cac he serv e/mi ss path s,		CI	Testing	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	≡ Task	≡ Notes	⦿ Component	⦿ Area	⦿ Section
				TTL calc , ACE Con text buil d, erro r map ping ; Risk : fail- clos ed inte grati on & reje ctio n reas ons.				
P2- D- 025		P2-D	Not Started	Risk calls Ada pter → Ada pter sho ws cac he miss , buil ds ACE Con text, calls ACE ; Com plia nce Cac he ups erte d; Ada pter retu		Adapter & Risk	Testing	2) Testing & Val

Aa Task ID	# Phase	⦿ Checkpoint ID	⦿ Status	= Task	= Notes	⦿ Component	⦿ Area	⦿ Section
				rns ALL OW; Risk publ ishe s risk. appr ove d.				
<u>P2-D-026</u>		P2-D	Not Started	Com plia nce Ada pter depl oye d and serv ing verd icts from Com plia nce Cac he with bac kgro und refr esh on TTL /trig ger.		System	Exit	3) Exit Criteria