

# Phase 2 Tasks

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

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				enti cate d) with Auth N mid dle war e.				
P2- A- <u>003</u>	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- <u>004</u>	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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				optional Cloud Armor/IAP; keep Compliance Adapter internal.				
P2-A- <u>005</u>	P2-A		Not Started	Artifact Registry: repositories for 'wall-et-signin', 'cci-d-kyc', 'and 'compliance-adapter'.			Infra	1) Google Cloud
P2-A- <u>006</u>	P2-A		Not Started	Create tables and indexes:	Cloud Spanner (identity & compliance)	Data Model	2) Data Stores -	
P2-A- <u>007</u>	P2-A		Not Started	Collections: small policy documents	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.			
P2- A- <u>008</u>	P2-A		Not Started	Redis: non ce/s essi on cac hes, web hoo k ded upe keys ,	Memorystore and GCS	Data Infra	2) Data Stores -	
P2- A- <u>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 requ ired (no PII).				
P2- A- <u>010</u>	P2-A		Not Started	Serv ice acc ount s: 'sa- wall et- sign in', 'sa- ccid- kyc' , 'sa- com plia nce- ada pter' .			Security	3) Security & IA
P2- A- <u>011</u>	P2-A		Not Started	Lea st- privi lege role s:			Security	3) Security & IA
P2- A- <u>012</u>	P2-A		Not Started	No new topi cs for Pha se 2: SIW E, CCI D/K YC, and Com plia nce Ada pter are API- driv en;			Messaging	4) Pub/Sub Eve

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				existing bus remains.				
P2-A-013	P2-A		Not Started	Repositoires & pipelines : build, tag, push, and deploy 'wall-e' - sign in, 'cci d-kyc', 'compliance-adapter' .			CI/CD	5) CI/CD & Runt
P2-A-014	P2-A		Not Started	Runtime configs:			CI/CD	5) CI/CD & Runt
P2-A-015	P2-A		Not Started	Dashboards : p95 latency and error rate for SIWE, 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

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				ms (ex-wall et time ). Com plia nce cac he-hit p95 ≤ 50 ms; fres h path off hot path .				
P2-A-018	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	
P2-A-019	P2-A		Not Started	Con fig: allo wed `do mai ns`, `orig ins`, `uris` , `cha inld s`; non ce/s essi on TTL s; coo kie	Wallet Sign-In (SIWE)	Auth	8) Component-I	

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				flag s; COR S/H STS .				
P2- A- 020	P2-A		Not Started	Spa nner tabl es: 'siw e_n onc es', 'ses sion s', 'wall ets' with inde 	Wallet Sign-In (SIWE)	Auth	8) Component-I	
P2- A- 021	P2-A		Not Started	Redi s: non ce/s essi on cac hes and rate limi t s ena bled .	Wallet Sign-In (SIWE)	Auth	8) Component-I	
P2- A- 022	P2-A		Not Started	Auth N mid dle war e: vali date s acc ess JWT ; load s 'acc ount	Wallet Sign-In (SIWE)	Auth	8) Component-I	

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				_id`/ 'wall et_i d`.				
P2- A- 023	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	
P2- A- 024	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	
P2- A- 025	P2-A		Not Started	Spa nn er tab les: 'kyc _ses sion s', 'cci d_at test atio ns',	CCID/KYC Service	Identity	8) Component-I	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
P2-A-026	P2-A		Not Started	`kyb _do cs_ met a`.	Web hook sec urity : sign atur e verif icati on and Redis ide mpo tentc 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	Sec rets: ACE	Compliance Adapter	Compliance	8) Component-I	

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P2- A- <u>029</u>	P2-A		Not Started	creden tials and limit s.	Con fig: cac he TTL s; trigg er thre shol ds; bac kgro und swe ep cad enc e; requ est deb oun ce.	Compliance Adapter	Compliance	8) Component-I
P2- A- <u>030</u>	P2-A		Not Started	Span ner tabl e: 'co mpli anc e_ca che' with uniq ue 'acc ount '_id' and inde x on 'exp iry_a t'.	Compliance Adapter	Compliance	8) Component-I	
P2- A- <u>031</u>	P2-A		Not Started	ACE cli ent: time outs /QP	Compliance Adapter	Compliance	8) Component-I	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
P2-A-032	P2-A		Not Started	S/retries with OTEL.	Integrati on: synchro nous call to Compliance Adapter per pre-trad e check; fail-clos ed on non - ALL OW or adapter erro r.	Risk Engine (update)	Risk	8) Component-I
P2-A-033	P2-A		Not Started	`GET /siwe/no nce` retu rns sing le-use non ce; Spa nner & Redi s refle ct it.	SIWE Flow	Validation	Validation	9) Smoke Tests

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P2- A- <u>034</u>	P2-A		Not Started	'PO ST /siw e/ve rify' mint s toke ns, pers ists sess ion, mar ks non ce use d; 'wall ets' bou nd to 'acc ount s'.		SIWE Flow	Validation	9) Smoke Tests
P2- A- <u>035</u>	P2-A		Not Started	'PO ST /cci d/st art' crea tes 'kyc _ses s' and retu rns prov ider URL /tok en.		KYC & Attestation Flow	Validation	9) Smoke Tests
P2- A- <u>036</u>	P2-A		Not Started	Sign ed web hoo k to '/cci d/w ebh ook/ prov ider'		KYC & Attestation Flow	Validation	9) Smoke Tests

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
P2-A-037	P2-A		Not Started	updates `kyc_sessions`.	`POST /cci/d/is_sue_or_refresh` creates `cci_d_at testations` (non-PII); triggers Adapter refresh.	KYC & Attestation Flow	Validation	9) Smoke Tests
P2-A-038	P2-A		Not Started	`GET /compliance/{a_cco_un_id}`: first call misses → 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>				'acc ount .inte nt.re ady' ; Risk logs sho w Com plia nce Ada pter che ck prio r to deci sion ; pro ceed only on 'ALL OW' .				
<u>P2- A- 040</u>		P2-A	Not Started	Defi ne Redi s keys for SIW E.	siwe: nonc e: {nonc e}, siwe: sessi on: {sess ion_id }, siwe: rl: {ip or igin}.  Redis	Redis	Conventions	0) Conventions
<u>P2- A- 041</u>		P2-A	Not Started	Defi ne Redi s keys for CCI D/K YC.	ccid: webh ook: {prov ider_ sessi on_id } (idem poten cy), ccid:i ssue:	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 limit s.	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	Har den publ ic ingr ess for SIW E and CCI	TLS, CORS /CSR F, optio nal Cloud Armo r/IAP.	Edge		Networking	1) GCP & Netwo

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				D/K YC; kee p Com plia nce Ada pter inter nal.				
P2- A- <u>045</u>	P2-A		Not Started	Create Artif act Regi stry repo s for wall et- sign in, ccid - kyc, com plia nce- ada pter.	Artifact Registry	CI/CD	1) GCP & Netwo	
P2- A- <u>046</u>	P2-A		Not Started	Create serv ice acc ount s: sa- wall et- sign in, sa- ccid - kyc, sa- com plia nce- ada pter.	IAM	Security	3) Security & IA	
P2- A- <u>047</u>	P2-A		Not Started	Allo w 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 secr ets 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-signin, services/cci/d-kyc, services/compliance/adeapter.		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.	Allow ed domains, origins, uris, chain lds; nonc	SIWE Config	Runtime	5) CI/CD & Runt

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					e/session TTLs; cookie flags.			
P2-A- <u>052</u>	P2-A		Not Started	Configure CCI D/K YC runtime settings and web hook secret.	CCID/KYC Config		Runtime	5) CI/CD & Run
P2-A- <u>053</u>	P2-A		Not Started	Configure Compliance Adapter runtime settings.	Cache TTL defaults, trigger thresholds (e.g., large order notional), ACE endpoints/ QPS/ retrieves.	Adapter Config	Runtime	5) CI/CD & Run
P2-A- <u>054</u>	P2-A		Not Started	Add dashboards for SIWE, CCI D/K YC (start+webhook), Com	Dashboards		Observability	7) Observability

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				plia nce Ada pter che ck; incl ude cac he- hit ratio . .				
P2- A- <u>055</u>	P2-A		Not Started	Set alert s for ada pter che ck late ncy/ erro r, CCI D issu e/re fres h failu res, inval id SIW E verif icati ons.	Alerts		Observability	7) Observability
P2- A- <u>056</u>	P2-A		Not Started	Ado pt Pha se-2 SLO bas elin es: SIW E verif y p95 ≤ 150 ms; Com plia	SLOs		Observability	7) Observability

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				nce cac he- hit p95 ≤ 50 ms.				
P2- A- 057	P2-A		Not Started	Veri fy SIW E secr ets pres ent: JWT sign ing keys and coo kie secr ets.	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 limi ts for SIW E.	Redis		Preflight	8) Preflight — S

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P2- A- <u>060</u>		P2-A	Not Started	Veri fy CCI D/K YC secr ets (pro vide r keys, web hoo k sign ing, Chai nlin k CCI D).		CCID/KYC	Preflight	8) Preflight — C
P2- A- <u>061</u>		P2-A	Not Started	Enfo rce web hoo k sign atur e verif icati on and Redi s ide mpo tenc y ccid :we bho ok: {pro vide r_se ssio n_id }.		Security	Preflight	8) Preflight — C
P2- A- <u>062</u>		P2-A	Not Started	Veri fy ACE clie nt cred enti		Adapter	Preflight	8) Preflight — A

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				als and limit s in secr ets.				
P2- A- <u>063</u>	P2-A		Not Started	Wire internal ACE Inte grati on clie nt with time outs /QP S/re tries .	Adapter		Preflight	8) Preflight — A
P2- A- <u>064</u>	P2-A		Not Started	GET /siw e/no nce retu rns sing le- use non ce; Mon go/ Redi s sho w TTL.	SIWE		Testing	9) Smoke Tests
P2- B- <u>009</u>	P2-B		Not Started	Stan dard ize erro r mod el and logg ing.	NON CE_I NVAL ID, SIGN ATUR E_IN VALI D, ing. POLI CY_VI OLAT ION, CHAI N_DE NIED, ACC	Error Model	Identity	1) Development

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					OUN T_BL OCKE D, REFR ESH_ REVO KED; inclu de correl ationl d.			
P2- B- 010	P2-B		Not Started	Loa d secr ets and runti me 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 es and mini miz e iden tifier s.	Lowe rcase wallet addre sses; hash/ salt IP/de vice finge print s befor e storin g; exact doma in bindi ng from nonc e to verify .	Sanitization	Security	Security & Hard
P2- B- 014	P2-B		Not Started	Mee t Pha se-2 SIW E p95 ≤ 150 ms serv er- side (exc lude s wall et sign ing).	Keep nonc e/ses sion hot paths Redis - 	SLOs	Observability	SLOs & Perform
P2- B- 015	P2-B		Not Started	Veri fy SIW E secr ets pres ent		Secrets	Preflight	8) Component-l

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				(JW T sign ing keys ,				
P2- B- <u>016</u>	P2-B		Not Started	T sign ing keys ,	coo kie secr ets).			
P2- B- <u>018</u>	P2-B		Not Started	Veri fy conf ig allo w- lists, TTL s, coo kie flag s, and COR S/H STS .		Runtime Config	Preflight	8) Component-I
P2- B- <u>020</u>	P2-B		Not Started	Redi s cac hes and rate limi ts ena bled for non ce/s essi on.		Redis	Preflight	8) Component-I
				GET /siw e/no nce retu rns sing le- use non ce with TTL; visib		API	Testing	9) Smoke Tests

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				le in Redis/ Mongo. o.				
P2- C- 001	P2-C	Not Started		Publ ic API (ver sion ed path per mitt ed):		CCID/KYC Service	Contracts	1) Development
P2- C- 002	P2-C	Not Started		Ses sion man age men t (`/cc id/st art`) : Res olve requ ired KYC level by juris dicti on/e ntity type ; ope n a prov ider sess ion; pers ist to `kyc _ses sion s`; retu rn han doff toke n/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 din 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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P2- C- <u>004</u>	P2-C		Not Started	decision .	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 poi nters/ dige sts in `kyb _do cs_ met a`.	CCID/KYC Service	Contracts	1) Development
P2- C- <u>005</u>	P2-C		Not Started	CCI D issu anc e ('iss ue_ or_r efre 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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P2-C-006	P2-C		Not Started	_id}; .Compliance triggers: On issue/revoke/expire (or level/jurisdiction change), call Compliance Adapter `invalid ate/reset` so Risk sees a fresh verdict when needed.		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.				
P2- C- 009	P2-C		Not Started	Ide mpo tent 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 'cc id:iss ue: {acc ount _id}' ; ups erts key ed by '{ac cou nt_i d,w allet _ad dres s}' for safe retri es.				
P2- C- 010	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- <u>011</u>	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- <u>012</u>	P2-C		Not Started	See d data : Use			Validation	2) Testing & Val

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				an 'account_id' obtained from the SIWE flow .				
P2-C-013	P2-C		Not Started	Call 'POST /ccid/start' with a valid SIWE access token → expect session URL /token and a 'kyc_session_status:"created"' record.			Validation	2) Testing & Val
P2-C-014	P2-C		Not Started	POST a valid, signed webhook payload			Validation	2) Testing & Val

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section	
				oad indi cati ng "ap prov ed" to '/cc 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 ...}'.					
P2- C- <u>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; che ck 'cci d_at test atio ns' ups ert '{att esta tion _id, ...}' (non -PII only ).				
P2- C- 016		P2-C	Not Started	`GE T 'cci d/st atus' retu rns the new ly crea ted atte stati on sum mar y.			Validation	2) Testing & Val
P2- C- 017		P2-C	Not Started	`PO ST 'cci d/in vali date' mar ks it revo ked (and upst rea m if sup port ed).			Validation	2) Testing & Val

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
P2- C- <u>018</u>		P2-C	Not Started	If 'exp ires_ at' is near ,bac kgro und sch edul er runs 'issu e_or _refr esh' .			Validation	2) Testing & Val
P2- C- <u>019</u>		P2-C	Not Started	Sen d a web hoo k with an inval id sign atur e → 401/ 403 and no stat e cha nge; conf irm ide mpo tenc y did not inge st the payl oad.			Validation	2) Testing & Val
P2- C- <u>020</u>		P2-C	Not Started	Afte r issu anc e,			Validation	2) Testing & Val

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				conf irm the serv ice calle d Com plia nce Ada pter 'inv alid ate/r efre sh'; ada pter logs sho w cac he refr esh on next che ck.				
P2- C- 021	P2-C		Not Started	Use Redi s ide mpo tent ency for prov ider web hoo ks and issu anc e lock s.	ccid: webh ook: {prov ider_ sessi on_id } for webh ook dedu pe; ccid:i ssue: {acco unt_i d} to serial ize issua nce.	Redis	Reliability	Conventions
P2- C- 022	P2-C		Not Started	Impl eme nt /cci d/w ebh	Verif y provi der signa ture;	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- <u>023</u>	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- <u>024</u>	P2-C		Not Started	Add stru ctur ed logs ,	Dashboards & Logs	Observability	1) Development	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				ards for eac h end poi nt; includ e corr elati onid .				
P2- C- 025	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 sti on com plet es with non -PII pers iste nce.	System	Exit	3) Exit Criteria	
P2- D- 001	P2-D		Not Started	API end poi nt (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):				
P2- D- 002	P2-D		Not Started	Serv e- first cac hing logi c:		Compliance Adapter Service	Contracts	1) Development
P2- D- 003	P2-D		Not Started	Refr esh on miss /stal e:		Compliance Adapter Service	Contracts	1) Development
P2- D- 004	P2-D		Not Started	ACE Inte grati on (cli ent libra ry):		Compliance Adapter Service	Contracts	1) Development
P2- D- 005	P2-D		Not Started	Coll ecti ons & inde xes:		Compliance Adapter Service	Contracts	1) Development
P2- D- 006	P2-D		Not Started	Error han din g & poli cy:		Compliance Adapter Service	Contracts	1) Development
P2- D- 007	P2-D		Not Started	Obs erva bilit y & SLO s:		Compliance Adapter Service	Contracts	1) Development
P2- D- 008	P2-D		Not Started	Inte grati on po int:		Risk Engine (modification)	Contracts	1) Development
P2- D- 009	P2-D		Not Started	Fail- clos ed logi c:		Risk Engine (modification)	Contracts	1) Development
P2- D- 010	P2-D		Not Started	Hot- path		Risk Engine (modification)	Contracts	1) Development

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				late nacy:				
P2- D- 011		P2-D	Not Started	Unit test s:			Validation	2) Testing & Val
P2- D- 012		P2-D	Not Started	Man ual trigg er:			Validation	2) Testing & Val
P2- D- 013		P2-D	Not Started	Risk calls Ada apter; Ada apter logs sho w cac he miss ,ACE Con text buil d, and ACE call.			Validation	2) Testing & Val
P2- D- 014		P2-D	Not Started	'Co mpli anc eCa che` ups erte d with '{ve rdict ,expi ry_a t, poli cy_v ersi on}` ; respo ns e retu			Validation	2) Testing & Val

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				rns 'cac he_ hit: fals e'.				
P2- D- <u>015</u>	P2-D		Not Started	Ada pter retu rns ALL OW; Risk proce eds and publ ishe s 'risk .app rove d'.			Validation	2) Testing & Val
P2- D- <u>016</u>	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
P2- D- <u>017</u>	P2-D		Not Started	path . Set the test user 's 'Co mpli anc eCa che. verd ict = DEN Y'; publ ish anoth er 'acc ount .inte nt.re ady' .			Validation	2) Testing & Val
P2- D- <u>018</u>	P2-D		Not Started	Risk imm edia tely emit s 'risk .reje cted '; sna psh ot incl ude s com plia nce reas on.			Validation	2) Testing & Val
P2- D- <u>019</u>	P2-D		Not Started	Indu ce ada pter 5xx/ time out; verif y Risk			Validation	2) Testing & Val

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				rejects with 'COMPLIANCENE_VAILABL' and persists the snapshot.				
P2-D-020	P2-D	Not Started	On entity/stale cache: acquire, compare, refresh: {account_id}, load profile (accounts) and CCI_D ref (ccid_at testations), build ACE Context, call ACE via Integrati	Update {verdict, reasons, expiry_at, policy_version, updated_at, source="fresh"}.	Compliance Adapter	Compliance	1) Compliance A	

Aa Task ID	# Phase	⌚ Checkpoint ID	⌚ Status	= Task	= Notes	⌚ Component	⌚ Area	⌚ Section
				on Con tract ,ups ert Com plia nce Cac he and retu rn cac he_ hit=f alse.				
P2- D- 021	P2-D		Not Started	Use ACE Inte grati on Con tract for sec ure, rate - limi ted calls with shor t time outs ,bou nde d retri es, and res pons e map ping .	Map {verdi ct, reaso ns[], ttl_hi nt_se cond s, polic y_ver sion}; clam p TTLs; expor t trace s/met rics.	ACE Integration Contract	Compliance	1) Compliance A
P2- D- 022	P2-D		Not Started	Emit trac es (ace .eva luat		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.				
P2- D- 026	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	