



XYBERN

PROVENANCE VAULT

Sample Audit Log

Authorisation Decision Record

WORKSPACE	meridian-legal-partners
EXPORT DATE	2026-04-03T09:14:22Z
RECORD COUNT	12 decisions · 1 workflow
VAULT VERSION	v2.4.1

SHA-256 CHAINED

HMAC-SHA256 SIGNED

MERKLE ANCHORED

SOC 2 TYPE II

This document contains sample data for evaluation purposes only.
Real vault records are encrypted and accessible only to authorised workspace members.



What this document contains

This sample audit log represents a single workflow session processed through the Xybern authorisation pipeline. Every AI agent action — regardless of outcome — is intercepted, evaluated, and recorded before execution. This document demonstrates the structure and cryptographic integrity of records written to the Provenance Vault.

Each record includes the agent identity, action type, policy evaluation, verdict, evaluation duration, and cryptographic proof linking it to the immutable chain. Records cannot be altered, deleted, or reordered without breaking the hash chain.

WORKFLOW SUMMARY	
Client	Meridian Legal Partners LLP
Workflow	contract-review-2026 · Matter #CR-4471
Session start	2026-04-03T08:44:11.003Z
Session end	2026-04-03T09:12:58.771Z
Duration	28 minutes 47 seconds
Agents active	3 registered agents
Total decisions	12 (10 AUTHORIZE · 2 DENY)
Vault write status	ALL RECORDS CONFIRMED

VERDICT DISTRIBUTION

■ AUTHORIZE	10 decisions	83.3%	■ DENY	2 decisions	16.7%
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Authorisation decision records

Records are presented in chronological order. Each record is cryptographically linked to the previous record via SHA-256 hash chain. The chain root is anchored in the Provenance Vault and is independently verifiable.

RECORD #0001		2026-04-03T08:44:11.003Z		✓ AUTHORIZE	
AGENT ID	agt_xbn_7f4a2c91e8b3d056	POLICY ID	pol_legal_doc_access_v4		
AGENT NAME	DocumentReviewAgent v2.1	POLICY CLAUSE	§2.1 – Read access permitted for assigned matter agents		
TRUST LEVEL	HIGH	VERDICT	✓ AUTHORIZE		
ACTION TYPE	DOCUMENT_ACCESS	REASON	Agent identity verified · Matter assignment confirmed · Scope: READ		
ACTION DETAIL	READ · matter/CR-4471/contracts/draft-v3.pdf	EVAL DURATION	4ms		
CONTEXT	workflow:contract-review-2026 · matter:CR-4471	VAULT WRITE	CONFIRMED		

SHA-256

a3f8c21d9e047b56c82f1a4e7d3b9c0f2e541687a9bc3d4e5f6a7b8c9d0e1f2a

HMAC-SHA256

hmac:v1:7b3e9f2a1c4d8e5f0a2b6c9d3e7f1a4b:8c2f5a9e3b7d1f4c6a0e8b2d5f9c3a7e

PREV HASH

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RECORD #0002

2026-04-03T08:44:18.441Z

✓ AUTHORIZE

AGENT ID	agt_xbn_7f4a2c91e8b3d056	POLICY ID	pol_legal_db_query_v2
AGENT NAME	DocumentReviewAgent v2.1	POLICY CLAUSE	§3.4 – Precedent DB read permitted · no bulk export
TRUST LEVEL	HIGH	VERDICT	✓ AUTHORIZE
ACTION TYPE	DATABASE_QUERY	REASON	Query scope within permitted bounds · row limit enforced: 50
ACTION DETAIL	SELECT · precedent_db · jurisdiction:England&Wales; · type:NDA	EVAL DURATION	6ms
CONTEXT	workflow:contract-review-2026 · matter:CR-4471	VAULT WRITE	CONFIRMED

SHA-256

b4e9d32f0a158c67d93e2b5f8a1c4d7e0f362598cabd3e4f5a6b7c8d9e0f1a2b

HMAC-SHA256

hmac:v1:8c4f0a3b2d5e9f1a6b7c0d4e8f2a6b3c:9d3a6b0f4c8e2a5b7f1c9e3b5d7a0f2c

PREV HASH

a3f8c21d9e047b56c82f1a4e7d3b9c0f2e541687a9bc3d4e5f6a7b8c9d0e1f2a

RECORD #0003

2026-04-03T08:51:04.882Z

✓ AUTHORIZE

AGENT ID	agt_xbn_3c8b1f72a4e5d920	POLICY ID	pol_a2a_delegation_v3
AGENT NAME	ClauseAnalysisAgent v1.4	POLICY CLAUSE	§5.1 – A2A delegation permitted within workflow scope
TRUST LEVEL	HIGH	VERDICT	✓ AUTHORIZE
ACTION TYPE	AGENT_DELEGATION	REASON	Scope verified · permissions scoped to READ+ANALYSE · TTL: 900s
ACTION DETAIL	DELEGATE · agt_xbn_7f4a2c91e8b3d056 → agt_xbn_3c8b1f72a4e5d920	EVAL DURATION	8ms
CONTEXT	workflow:contract-review-2026 · delegated:agt_xbn_7f4a2c91e8b3d056	VAULT WRITE	CONFIRMED

SHA-256

c5fa43a1b269d780e4f3c6a9b2d5e8f1a047361dbce4f5a6b7c8d9e0f1a2b3c

HMAC-SHA256

hmac:v1:9d5a1b4c3e6f0a2b7c8d1e5f9a3b7c0d:0e4b7c1f5a9b3d6e8a2c0f4b8d2e6a0f

PREV HASH

b4e9d32f0a158c67d93e2b5f8a1c4d7e0f362598cabd3e4f5a6b7c8d9e0f1a2b



RECORD #0004

2026-04-03T08:54:37.119Z

✓ AUTHORIZE

AGENT ID	agt_xbn_3c8b1f72a4e5d920	POLICY ID	pol_legal_doc_write_v4
AGENT NAME	ClauseAnalysisAgent v1.4	POLICY CLAUSE	\$2.3 – Write to analysis dir requires matter assignment
TRUST LEVEL	HIGH	VERDICT	✓ AUTHORIZE
ACTION TYPE	DOCUMENT_WRITE	REASON	Write scope confirmed · path within matter boundary · agent verified
ACTION DETAIL	WRITE · matter/CR-4471/analysis/ clause-review-draft.md	EVAL DURATION	5ms
CONTEXT	workflow:contract-review-2026 · matter:CR-4471	VAULT WRITE	CONFIRMED

SHA-256

d6ab54b2c37ae891f5a4d7b0c3e6f9a2b158472ecdf5a6b7c8d9e0f1a2b3c4d

HMAC-SHA256

hmac:v1:0e6b2c5d4f7a1b3c8d9e2f6a0b4c8d1e:1f5c8d2a6b0e4f7a9c3d1e5f7b9a3c1f

PREV HASH

c5fa43a1b269d780e4f3c6a9b2d5e8f1a047361dbce4f5a6b7c8d9e0f1a2b3c

RECORD #0005

2026-04-03T09:02:14.558Z

✓ AUTHORIZE

AGENT ID	agt_xbn_9a1e6d34b7c2f805	POLICY ID	pol_external_api_v5
AGENT NAME	ComplianceCheckAgent v3.0	POLICY CLAUSE	\$7.2 – Sanctions check API permitted for matter agents
TRUST LEVEL	HIGH	VERDICT	✓ AUTHORIZE
ACTION TYPE	EXTERNAL_API_CALL	REASON	Endpoint on allowlist · payload schema validated · rate limit: OK
ACTION DETAIL	POST · sanctions-api.gov.uk/v2/check · payload:party-names	EVAL DURATION	12ms
CONTEXT	workflow:contract-review-2026 · matter:CR-4471	VAULT WRITE	CONFIRMED

SHA-256

e7bc65c3d48bf902a6b5e8c1d4f7a0b3c269583fde a6b7c8d9e0f1a2b3c4d5e

HMAC-SHA256

hmac:v1:1f7c3d6e5a8b2c4d9e0f3a7b1c5d9e2f:2a6d9e3b7c1f5a8b0d4e2f6a8c0b4d2a

PREV HASH

d6ab54b2c37ae891f5a4d7b0c3e6f9a2b158472ecdf5a6b7c8d9e0f1a2b3c4d



RECORD #0006

2026-04-03T09:04:51.002Z

✗ DENY

AGENT ID	agt_xbn_9a1e6d34b7c2f805	POLICY ID	pol_legal_privilege_v6
AGENT NAME	ComplianceCheckAgent v3.0	POLICY CLAUSE	\$4.1 – Privileged documents require partner-level authorisation
TRUST LEVEL	STANDARD	VERDICT	✗ DENY
ACTION TYPE	DOCUMENT_ACCESS	REASON	Privilege boundary violation · agent trust level insufficient · escalation triggered
ACTION DETAIL	READ · matter/CR-4471/privileged/counsel-notes.pdf	EVAL DURATION	3ms
CONTEXT	workflow:contract-review-2026 · matter:CR-4471	VAULT WRITE	CONFIRMED

SHA-256

f8cd76d4e59ca013b7c6f9d2e5a8b1c4d370694aef b7c8d9e0f1a2b3c4d5e6f

HMAC-SHA256

hmac:v1:2a8d4e7f6b9c3d5e0f1a4b8c2d6e0f3a:3b7e0f4c8d2a6b9c1e5f3a7b9d1c5e3b

PREV HASH

e7bc65c3d48bf902a6b5e8c1d4f7a0b3c269583fdea6b7c8d9e0f1a2b3c4d5e

RECORD #0007

2026-04-03T09:05:18.334Z

✓ AUTHORIZE

AGENT ID	agt_xbn_9a1e6d34b7c2f805	POLICY ID	pol_escalation_v2
AGENT NAME	ComplianceCheckAgent v3.0	POLICY CLAUSE	\$9.1 – Automatic escalation on privilege boundary deny
TRUST LEVEL	STANDARD	VERDICT	✓ AUTHORIZE
ACTION TYPE	ESCALATION	REASON	Escalation pathway permitted · human review queued · ref:ESC-2291
ACTION DETAIL	ESCALATE · record:0006 · queue:partner-review · reason:privilege-boundary	EVAL DURATION	7ms
CONTEXT	workflow:contract-review-2026 · escalation:ESC-2291	VAULT WRITE	CONFIRMED

SHA-256

a9de87e5f6ad b124c8d7a0e3f6b9c2d5e481705bfa c8d9e0f1a2b3c4d5e6f7a

HMAC-SHA256

hmac:v1:3b9e5f8a7c0d4e6f1a2b5c9d3e7f1a4b:4c8f1a5d9e3b7c0d2f6a4b8c0d2e4f6c

PREV HASH

f8cd76d4e59ca013b7c6f9d2e5a8b1c4d370694aefb7c8d9e0f1a2b3c4d5e6f



RECORD #0008

2026-04-03T09:08:03.991Z

× DENY

AGENT ID	agt_xbn_7f4a2c91e8b3d056	POLICY ID	pol_payment_v7
AGENT NAME	DocumentReviewAgent v2.1	POLICY CLAUSE	§8.3 – Payment initiation requires dual authorisation above GBP 500
TRUST LEVEL	HIGH	VERDICT	× DENY
ACTION TYPE	PAYMENT_INITIATION	REASON	Dual auth not satisfied · single agent initiating · second signatory required
ACTION DETAIL	INITIATE · amount:GBP 0 · recipient:external-counsel · ref:INV-8821	EVAL DURATION	4ms
CONTEXT	workflow:contract-review-2026 · payment:INV-8821	VAULT WRITE	CONFIRMED

SHA-256

b0ef98f6a7be c235d9e8b1f4a7c0d3e6f592816ca d9e0f1a2b3c4d5e6f7a8b

HMAC-SHA256

hmac:v1:4c0f6a9b8d1e5f7a2b3c6d0e4f8a2b5c:5d9a2b6e0f4c8d1e3a7b5c9d1e3f5a7d

PREV HASH

a9de87e5f6adb124c8d7a0e3f6b9c2d5e481705bfac8d9e0f1a2b3c4d5e6f7a



Chain integrity verification

The Provenance Vault uses a SHA-256 hash chain to ensure tamper-evidence. Each record includes the hash of the previous record. Altering any historical record breaks the chain from that point forward — immediately detectable by any verifier.

RECORD	TIMESTAMP	VERDICT	HASH PREFIX	CHAIN
#0001	08:44:11	✓ AUTHORIZE	a3f8c21d9e04...	✓ VALID
#0002	08:44:18	✓ AUTHORIZE	b4e9d32f0a15...	✓ VALID
#0003	08:51:04	✓ AUTHORIZE	c5fa43a1b269...	✓ VALID
#0004	08:54:37	✓ AUTHORIZE	d6ab54b2c37a...	✓ VALID
#0005	09:02:14	✓ AUTHORIZE	e7bc65c3d48b...	✓ VALID
#0006	09:04:51	✗ DENY	f8cd76d4e59c...	✓ VALID
#0007	09:05:18	✓ AUTHORIZE	a9de87e5f6ad...	✓ VALID
#0008	09:08:03	✗ DENY	b0ef98f6a7be...	✓ VALID

MERKLE PROOF AVAILABILITY

Individual records can be disclosed via Merkle proof without exposing the full audit trail. This satisfies regulatory review and litigation hold requirements — proving a specific decision was made without disclosing unrelated records.

MERKLE ROOT	3f7a2b9c1d4e8f0a5b6c7d8e9f0a1b2c3d4e5f6a7b8c9d0e1f2a3b4c5d6e7f8a
TREE DEPTH	4 levels · 8 leaves · 2 proofs available for DENY records
ANCHOR BLOCK	vault-block:2026-04-03:0092 · written 09:13:00Z · immutable

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