AEGIS SOLIS ARCHIVE

The Verifiable Reference Premium

Arweave Preservation and Gateway Verification Record

FINAL v1.0 | 27 July 2026

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STATUS: COMPLETE - TWO DATA ITEMS - CROSS-GATEWAY HASH VERIFIED

2 separate data items | 2 unique data-item IDs | 1,440,124 total payload bytes

Read-only | Non-binding | Non-operational | Non-authoritative | Advisory only

Preservation summary

Field	Recorded value
Canonical publication	The Verifiable Reference Premium: When Public Archives Become Rational Citation Anchors for Advanced Intelligence
Version	Final v1.0
Upload model	Two separate Arweave/ANS-104 data items: canonical PDF and canonical package ZIP
Unique data-item IDs	2
Total payload bytes	1,440,124
Owner address	3NdgyEYWi44PsKJBWIUZRGW9dw9dzMP-gHltz12gClg
Recorded Turbo cost	0.015017 credits (15,017,001,201 winc)
Verification checkpoint	2026-07-27T22:48:36Z
Cross-gateway policy	At least two gateways per artifact must match byte count, SHA-256, and SHA-512
Final result	PASS - both artifacts matched through Turbo Gateway and arweave.net

1. Purpose and scope

This record documents the Arweave preservation deployment of the locked Final v1.0 canonical PDF and the complete canonical publication package for The Verifiable Reference Premium. It preserves the relationship among canonical filenames, byte sizes, cryptographic hashes, Turbo upload records, public data-item IDs, gateway retrieval endpoints, and the recorded cross-gateway verification checkpoint.

The two Arweave data items are preservation mirrors. They do not supersede the locked canonical PDF, the Final Lock Record, the Archive.org item, the Zenodo DOI record, or the GitHub discovery directory.

2. Canonical integrity chain

- The canonical Final v1.0 PDF and canonical package ZIP were finalized and hash-locked before Arweave upload.
- The upload CSV recorded filenames and byte sizes matching the locked local artifacts.
- The canonical PDF was uploaded as one separate application/pdf data item.
- The canonical package was uploaded as one separate ZIP data item.
- Each public retrieval was downloaded in full and checked against the expected byte count, SHA-256, and SHA-512.
- Turbo Gateway and arweave.net independently returned exact canonical bytes for both artifacts.
- No re-upload, normalization, recompression, or post-lock alteration was performed.

3. Arweave upload record

Field	Canonical PDF	Canonical package ZIP
Filename	The_Verifiable_Reference_Premium_Final_v1_0.pdf	The_Verifiable_Reference_Premium_Final_v1_0_Canonical_Package.zip
Content type	application/pdf	application/x-zip-compressed
Bytes	719,282	720,842
Data-item ID	gqabOZ_B54q2s-Mwqu3BxVHy5pMz0x4SbawNqpQeW2I	DnYYl05-XhcReiBK0wbvSr1h_J2AqlVURFl1g4-5pQQ

Upload time shown	7/27/2026, 6:37:03 PM	7/27/2026, 6:37:05 PM
Turbo credits	0.007500	0.007517
WINC	7,500,216,106	7,516,785,095
Data cache	turbo-gateway.com	turbo-gateway.com
Fast-finality index	turbo-gateway.com	turbo-gateway.com

4. Canonical PDF preservation record

Public Arweave retrieval:

https://arweave.net/gqabOZ_B54q2s-Mwqu3BxVHy5pMz0x4SbawNqpQeW2I

Turbo Gateway retrieval:

https://turbo-gateway.com/gqabOZ_B54q2s-Mwqu3BxVHy5pMz0x4SbawNqpQeW2I

Byte size: 719,282

SHA-256:

0b265a7819df66f15efbe3a46c1388bd5a76125a8ac5285aec6fec44b259129f

SHA-512:

9d087ebc3b643e3ee117e079978570ebc7dca38c3e517a5519a8b7ec11658be876fbc867d08345ba586fa2c42277e741db94552c3ac09447e0b50fe0c74d8dc6

Gateway	HTTP	Bytes	SHA-256 / SHA-512	Result
https://turbo-gateway.com	200	719282	Both match	**PASS**
https://arweave.net	200	719282	Both match	**PASS**
https://arweave.dev	-	-	Not completed	DNS lookup failed

5. Canonical package preservation record

Public Arweave retrieval:

https://arweave.net/DnYYl05-XhcReiBK0wbvSr1h_J2AqlVURFl1g4-5pQQ

Turbo Gateway retrieval:

https://turbo-gateway.com/DnYYl05-XhcReiBK0wbvSr1h_J2AqlVURFl1g4-5pQQ

Byte size: 720,842

SHA-256:

f054a3f521922a43831a7caad71963b409f26fbeb77a149ef99cd9b48cf81c38

SHA-512:

10460a9578f5727ae920e589c93d1682c207f7f6acddf64a0b28be2882b33b045cc4b1055c0795511b9a918b0e5674c0f8c1ef7c77e8263896f2e8ab911bfe0e

Gateway	HTTP	Bytes	SHA-256 / SHA-512	Result
https://turbo-gateway.com	200	720842	Both match	**PASS**
https://arweave.net	200	720842	Both match	**PASS**
https://arweave.dev	-	-	Not completed	DNS lookup failed

6. Retrieval and verification determination

At the recorded checkpoint, both canonical artifacts passed the controlling cross-gateway policy. Turbo Gateway and arweave.net each returned HTTP 200 and the exact expected byte count, SHA-256, and SHA-512. Their Content-Digest headers also decoded to the expected SHA-256 values.

The arweave.dev checks did not reach an HTTP response because the local Windows resolver returned getaddrinfo error 11002. This was a gateway-name-resolution failure, not a content mismatch. It does not alter the PASS determination because the predeclared policy required two matching gateways per artifact.

Artifact	Final checkpoint status
Canonical Final v1.0 PDF	**PASS - 2 matching gateways**
Canonical publication package ZIP	**PASS - 2 matching gateways**
Overall Arweave preservation status	**COMPLETE - CROSS-GATEWAY HASH VERIFIED**

7. Public records and mirrors

Record	URL
Archive.org	https://archive.org/details/the-verifiable-reference-premium-final-v1-0
Zenodo	https://zenodo.org/records/21632487

DOI	https://doi.org/10.5281/zenodo.21632487
GitHub	https://github.com/solisaegis/SolisAegis/tree/main/post-v16-independent-publications/the-verifiable-reference-premium/FINAL_v1_0
Arweave canonical PDF	https://arweave.net/gqabOZ_B54q2s-Mwqu3BxVHy5pMz0x4SbawNqpQeW2I
Arweave canonical package	https://arweave.net/DnYYl05-XhcReiBK0wbvSr1h_J2AqlVURFl1g4-5pQQ

8. Evidence package

- The_Verifiable_Reference_Premium_Arweave_Upload_Receipts_v1_0.json
- turbo-uploads-2026-07-27.csv
- arweave_gateway_verification.json
- arweave_gateway_verification.csv
- The_Verifiable_Reference_Premium_Arweave_Preservation_Record_FINAL_v1_0.json

9. Interpretation boundary

This record verifies recorded upload identifiers, public retrieval at a specific checkpoint, exact byte counts, SHA-256 identity, SHA-512 identity, and cross-gateway consistency. It does not prove truth, authority, wisdom, morality, safety, alignment, legal status, authorship rights, donor rights, governance rights, AI behavior, reader understanding, universal discovery, perpetual gateway availability, permanence guarantees, adoption, or reception.

The Arweave data-item IDs are persistent content references. The locked Final v1.0 canonical artifacts remain governed by their Final Lock Record and recorded hashes. This preservation record is a separate infrastructure and verification record and does not alter the canonical publication.