

VeritasChain Protocol (VCP) Releases World-First Nasdaq OUCH/ITCH Evidence Pack

CC BY 4.0 conformance dataset for cryptographically verifiable Nasdaq OUCH/ITCH HFT audit trails at nanosecond precision, with public key + verifier.

TOKYO, JAPAN, January 7, 2026 /EINPresswire.com/ -- VeritasChain Standards Organization (VSO) today announced the public release of the VCP v1.1 "Nasdaq OUCH/ITCH Evidence Pack," an openly published conformance test dataset that demonstrates cryptographically verifiable audit trails for high-frequency trading (HFT) systems mapped to Nasdaq OUCH 5.0 (order entry) and ITCH 5.0 (market data).



This release is designed to serve as a practical, independently verifiable reference implementation for engineers, auditors, and regulators who need to validate the integrity, completeness, and traceability of trading decision and execution logs.

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Financial markets have operated on trust-based audit trails for decades. This release marks a shift to verification-based compliance—where integrity is mathematically provable, not just promised.”

*Tokachi Kamimura, Founder,
VeritasChain Standards
Organization*

Repository: <https://github.com/veritaschain/vcp-nasdaq-rta-reference>

□ World-first claim and prior-art diligence

VSO is publishing this dataset as what we believe to be the world's first openly published conformance test dataset that satisfies all of the following criteria at once:

□ Publicly available under an open license (CC BY 4.0)

- Cryptographic audit trail mechanisms included (hashes, digital signatures, Merkle proofs)
- Explicitly targets Nasdaq binary protocols (OUCH 5.0 and ITCH 5.0)
- Nanosecond-level timestamp precision demonstrated
- Independently verifiable without proprietary tools (public key + verifier scripts included)
- Published as a conformance test dataset / reference implementation (not just a paper or product claim)

To support the "world-first" assertion responsibly, VSO commissioned independent prior-art verification across four automated research systems examining 700+ sources spanning standards bodies (IETF, ISO, IEEE, FIX), academic literature (arXiv, IEEE Xplore, ACM), open-source repositories (GitHub, GitLab), regulatory documentation (SEC CAT, MiFID II RTS 25), and industry initiatives. All four systems reached unanimous agreement: no publicly available dataset was found that combines cryptographic verification with specific support for Nasdaq OUCH 5.0 and ITCH 5.0 in an open conformance test package.

The full prior-art verification report is publicly available:

https://github.com/veritaschain/vcp-nasdaq-rta-reference/blob/main/VSO-EVIDENCE-NASDAQ-001_WorldFirst_Verification_Report.pdf

As with any prior-art assessment, proprietary and unpublished internal implementations may exist. This announcement's claim is explicitly about what is openly published and verifiable in public records at the time of release.

□ What the Evidence Pack includes

The public Evidence Pack is designed for reproducible verification and interoperability testing:

- Signed VCP events demonstrating a full order lifecycle (including filled, partially filled, rejected, and cancelled scenarios)
- Ed25519 signatures with a public verification key included (PEM and JWK formats)
- A complete SHA-256 hash chain across events
- Merkle tree construction and inclusion proofs aligned with RFC 6962-style audit paths
- A file integrity manifest to validate the package contents
- Protocol mapping documentation (Nasdaq OUCH/ITCH □ VCP fields)
- A verifier script and example code to run end-to-end validation

This package is classified as:

"Conformance Test Dataset (Production Format Compliant)"

It is intentionally provided as synthetic and sanitized data suitable for public distribution and repeatable testing. It demonstrates production-grade structure and verification mechanics, without disclosing sensitive connectivity artifacts or customer identifiers.

□ What is not included in the public package

To prevent misinterpretation, VSO emphasizes the boundary between "public conformance dataset" and "full production evidence."

The public package does not include items typically required to prove real-world venue connectivity or external timestamp authority anchoring, such as:

- RFC 3161 timestamp authority tokens
- Nasdaq session establishment proof (e.g., SoupBinTCP session logs)
- Raw PCAP wire captures
- Hardware security module (HSM) attestation and key ceremony artifacts
- Third-party audit certification and chain-of-custody documentation

□ NDA production evidence package

For regulatory authorities, audit firms, and qualified institutional partners, a full production evidence package is available under NDA. This expanded set is intended for deeper investigations, supervisory proofs, and institution-grade audit requirements.

NDA inquiries: enterprise@veritaschain.org
Subject: NDA Request - Nasdaq Production Evidence Pack

□ Why this matters for markets and regulators

Global financial markets increasingly depend on automated and AI-assisted decision systems, yet most audit trails remain "trust-based" (editable logs and screenshots) rather than "verification-based" (mathematically provable integrity and completeness).

VeritasChain Protocol (VCP) is designed to function as an "AI Flight Recorder" for algorithmic trading: recording decision-making and execution outcomes in a tamper-evident, independently verifiable format. By publishing a concrete, verifiable, Nasdaq-protocol-mapped dataset, VSO aims to accelerate:

- Interoperability across vendors and internal implementations
- RegTech and audit tooling validation against a stable reference pack
- Evidence-based compliance engineering for retention, traceability, and incident reconstruction
- A shared baseline for third-party verification discussions (auditors, regulators, exchanges, and market participants)

□ About VeritasChain Protocol (VCP) and VeritasChain Standards Organization (VSO)

VeritasChain Protocol (VCP) is a global specification for recording algorithmic trading "decisions" and "execution results" in a cryptographically verifiable evidence format. VCP v1.1 defines conformance tiers (Silver, Gold, Platinum) and verification depth suitable for environments ranging from retail to exchange-grade HFT.

VeritasChain Standards Organization (VSO) maintains the VCP specification and publishes reference implementations and compliance materials. VSO operates under a vendor-neutral standards philosophy and does not claim endorsement by any exchange, vendor, or regulator.

□ License and non-endorsement

The Evidence Pack is released under CC BY 4.0.

Non-endorsement: References to Nasdaq protocols are for technical interoperability and conformance demonstration only. This project is not affiliated with, sponsored by, or endorsed by Nasdaq, Inc. or any regulatory authority. "OUCH" and "ITCH" are trademarks of Nasdaq, Inc.

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