

CYCITY INC. (USA) & CYCITY INTERNATIONAL PRIVATE LIMITED

MASTER 10-STANDARD VERIFICATION MATRIX & COMPLIANCE DOSSIER

Formal Verification Matrix: Domain Scope, Exact Implementation Status, Server PDF Artifacts & Authoritative Standards

PLATFORM: CyCity Quantum Web Standard (CQWS)		DOCUMENT ID: CY-CQWS-10-STD-2026-09		CLASSIFICATION: Formal Institutional Audit Record		OPENSSF BADGE: GOLD TIER (Project #15095)	
#	Standard & Framework	Domain & Specification Scope	Exact CQWS Status	Offline Artifact (On Server)		Online Live Link & Authority Spec	
1	X.509 Composite PKI IETF LAMPS / RFC 5280	Digital PKI & Hybrid Certificates: ASN.1 SPKI dual-stack encoding combining Classical (RSA/ECDSA) + PQC (ML-DSA) into unified X.509 certificates.	■ 100% VALIDATED Dual-Stack SPKI	public/CYCITY_CQWS_IETF_LAMPS_COMPOSITE_PKI_COMPLIANCE_DOSSIER.pdf		• Live: cycity.cloud/...DOSSIER.pdf • Spec: datatracker.ietf.org/doc/draft-ietf-lamps-pq-composite-sigs	
2	NIST SP 800-208 Hash-Based Signatures	Firmware & Kernel Signing: NIST recommendation for stateful hash-based digital signatures (LMS/HSS and XMSS/XMSS-MT).	■ 100% TESTED SLH-DSA & LMS	public/CQWS_CRYPTOGRAPHY_BILL_OF_MATERIALS.pdf public/CQWS_CRYPTOGRAPHY_BILL_OF_MATERIALS.json		• Live: cycity.cloud/...BILL_OF_MATERIALS.pdf • Spec: csrc.nist.gov/pubs/sp/800-208/final	
3	ISO/IEC 18033-2 Asymmetric Ciphers & KEM	Key Encapsulation Mechanisms: International standard for asymmetric encryption algorithms and Post-Quantum KEMs (ML-KEM / Classic McEliece).	■ 100% VALIDATED ML-KEM + X25519	public/CYCITY_CQWS_CYCLONEDX_CBOM_CERTIFICATE_OF_CONFORMITY.pdf		• Live: cycity.cloud/...CONFORMITY.pdf • Spec: iso.org/standard/39875.html	
4	ISO/IEC 18033-3 Block Ciphers	Symmetric Block Ciphers: International standard for 256-bit and 512-bit block ciphers and authenticated Galois/Counter Mode (AES-256-GCM).	■ 100% VALIDATED AES-256-GCM	public/CQWS_CRYPTOGRAPHY_BILL_OF_MATERIALS.pdf public/CQWS_CRYPTOGRAPHY_BILL_OF_MATERIALS.json		• Live: cycity.cloud/...BILL_OF_MATERIALS.pdf • Spec: iso.org/standard/54531.html	
5	FIPS 140-3 (NIST ACVP) Algorithm Validation	Cryptographic Core Testing: Benchmark test suite covering Known Answer Tests (KATs), Monte Carlo tests, and zero bit-flip validation for FIPS 203/204.	■ 4,100 KATs Passed 0 Bit Flips	public/CYCITY_CQWS_NIST_ACVP_FIPS203_204_ALGORITHM_VALIDATION_REPORT.pdf public/CQWS_NIST_ACVP_VECTOR_TEST_REPORT.json		• Live: cycity.cloud/...VALIDATION_REPORT.pdf • Spec: csrc.nist.gov/projects/acvp	
6	NIST CMVP FIPS Module Validation	Formal Module Certification: NIST/CCCS testing for cryptographic boundaries, physical security, entropy health tests (SP 800-90B), and key zeroization.	■ Lab Submitted atsec NVLAP Lab	public/CYCITY_CQWS_NIST_ACVP_FIPS203_204_ALGORITHM_VALIDATION_REPORT.pdf		• Lab: info@atsec.com (NVLAP: 200529-0) • Program: csrc.nist.gov/projects/cmvp	
7	Linux Foundation OpenSSF Best Practices Badge	Software Supply Chain Governance: Comprehensive security hygiene, static/dynamic crypto analysis, branch protection, and vulnerability disclosure SLAs.	■ GOLD BADGE Awarded #15095	public/CYCITY_CQWS_OPENSSF_BEST_PRACTICES_SECURITY_ATTESTATION.pdf		• Registry: bestpractices.dev/en/projects/15095 • SVG: bestpractices.dev/projects/15095/badge	
8	CycloneDX v1.6 (ECMA-424) & PCAOB AS 1215 CBOM & Audit Evidence Pack	CBOM & Audit Documentation: Machine-readable cryptographic inventory sealed under PCAOB AS 1215 & RFC 3161 Merkle ledger proof.	■ 100% VALIDATED AS 1215 Sealed Pack	public/CYCITY_CQWS_CYCLONEDX_CBOM_CERTIFICATE_OF_CONFORMITY.pdf public/CQWS_CRYPTOGRAPHY_BILL_OF_MATERIALS.json public/cycity_cbom_sealed.zip (AS 1215)		• Live: cycity.cloud/cycity_cbom_sealed.zip • Spec: pcaobus.org/oversight/standards/auditing-standards/details/AS1215	
9	CISA & OMB M-22-18 NIST SP 800-218 SSDF	US Federal Producer Attestation: Compliance with Executive Order 14028 for secure software development life cycle, provenance, and SBOM/CBOM integrity.	■ ATTESTED Form CISA-2023-0001	public/CYCITY_CQWS_CISA_OMB_M2218_SOFTWARE_PRODUCER_ATTESTATION.pdf		• Live: cycity.cloud/...ATTESTATION.pdf • Portal: cisa.gov/secure-software-development	
10	ISO/IEC 27001:2022 & SOC 2 Management & Trust Criteria	Organizational ISMS & Audit: Enterprise information security management systems, access controls, risk management, and independent external CPA audit.	■ Phase 2 Roadmap Commercial Phase	public/CYCITY_CQWS_GLOBAL_CERTIFICATION_AND_COMPLIANCE_ROADMAP.pdf		• Live: cycity.cloud/...ROADMAP.pdf • Spec: iso.org/standard/27001	
EXECUTIVE ATTESTATION: This Master Verification Matrix reflects the true, verified, and testable cryptographic compliance status of CyCity Quantum Web Standard (CQWS) v4.2-PROD . All listed PDF dossiers and JSON schemas are signed, hash-anchored, and hosted on sovereign production nodes. Executive Lead: Merwyn Furtado, Chief Executive Officer & Chief Architect Corporate Entities: CyCity Inc. (USA) & CyCity International Pvt. Ltd. (India) Official Verification Portal: https://cycity.cloud Official Inquiries: info@cycity.space						★ CYCITY CQWS ★ MASTER COMPLIANCE SEAL 10-STANDARD AUDITED OpenSSF Gold Tier #15095 SHA256: 7f83a...902bf	