

QUSCOR SNAPSHOT • QUANTUM READINESS ASSESSMENT

Quantum Readiness *Snapshot*

A fixed-scope assessment of cryptographic-risk exposure and quantum-readiness, structured to accompany an organization's SOC 2 Type II reporting package and insurer underwriting documentation.

PREPARED FOR

Meridian Digital Custody, Inc.
(fictitious entity — illustrative sample)

PREPARED BY

Owlpha Labs LLC
QuScor Scoring Engine

ASSESSMENT PERIOD

May 18 – Jun 15, 2026

REPORT ID

QRS-2026-000147

SAMPLE

71

OVERALL QUANTUM READINESS SCORE (QRS) / 100

DEVELOPING

EXECUTIVE SUMMARY

Meridian Digital Custody, Inc. scores 71/100 overall (Developing) on the QuScor Snapshot Custodian overlay. The organization demonstrates strong cryptographic asset inventory and monitoring practices, but a documented post-quantum migration plan and HSM-backed key-rotation testing remain open gaps with insurer and audit relevance.

SCOPE & METHODOLOGY

Structured self-attested questionnaire, six-category weighted scoring engine (Custodian overlay), scored against NIST SP 1800-38 and FIPS 203/204/205 guidance. Evidence tier: self-reported (Tier 1).
Crosswalk: AICPA SOC 2 Trust Services Criteria (CC6, CC7, CC9).

READINESS SCORE BY CATEGORY

CATEGORY	SCORE	STATUS
Cryptographic Asset Inventory	82	ON TRACK
Algorithm Agility & Migration Plan	38	WATCH
Key Custody Architecture	65	DEVELOPING
Harvest-Now-Decrypt-Later Exposure	45	DEVELOPING
Vendor / Third-Party PQC Dependency	60	DEVELOPING
Monitoring & Incident Readiness	74	ON TRACK

KEY FINDINGS

SEV.	FINDING	CROSSWALK	RECOMMENDED REMEDIATION
HIGH	No documented post-quantum migration plan or crypto-agility roadmap on file.	CC6 Risk Mitigation	Adopt a phased ML-KEM / ML-DSA migration roadmap; QuScor KEEP / AEGIS provide a drop-in hybrid coverage path.
MED	Long-lived encrypted records (cold backup) not inventoried for HNDL exposure.	CC6 Logical & Physical Access	Complete data-classification pass on archival / cold-storage tiers; prioritize by retention horizon.
MED	Primary HSM vendor roadmap for PQC support not yet confirmed in writing.	CC7 System Operations	Request written PQC roadmap attestation from HSM vendor; document in vendor risk file.
LOW	Crypto-agility testing not yet included in change-management procedures.	CC7 System Operations	Add algorithm-agility regression check to existing change-control checklist.