digicert WebPKI Is Breaking its Limits

10X Scale Is Now Mandatory

CA/Browser Forum policy changes are shrinking certificate lifetimes and exploding operational demands.

TLS certificate validity by 2029

Domain & IP validation by 2029

398 Days

47 Days

10 Days

398 Days

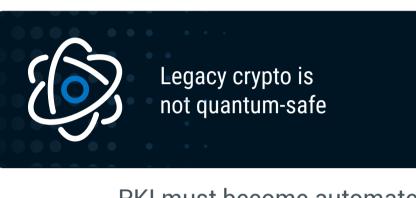




Why Traditional PKI Fails at 10X Scale









PKI must become automated, distributed, and intelligence-driven.

How DigiCert Is Engineering WebPKI for 10X Scale

Massively Scaled Infrastructure

- High-performance signing clusters
- Global HSM networks
- Elastic compute and storage
- 99.99% SLA

Resilience

Global

- Multi-availability zones
- WebTrust-compliant data centers
- No single point of failure
- Continuous operations during upgrades

Always-On **Trust Services**

- **Scaled Certificate** Transparency logs
- Global OCSP and CRL delivery
- Multi-CDN architecture
- Sub-100ms global performance

Takeaway:

10X issuance requires infrastructure built for constant load, not peak exceptions.

Trust Must Scale Without Compromise

Multi-Perspective Issuance Corroboration (MPIC): Multiple geographic DNS checks

- Detects poisoned DNS caches
- Blocks regional MITM attacks
- Prevents inconsistent
- **DNS** responses

Cryptography (PQC): PQC-ready HSMs

Dedicated PQC private roots

Post-Quantum

- Support for all
 - NIST-approved algorithms · Hybrid and pure PQC certificates
- available today Insight:

Scaling trust means validating from everywhere—and preparing for quantum now.

Automation Is the Only Way to Survive Short Lifecycles

Open-Source Domain

Control Validation:

Hardened DNS and

Validation: Faster OV and EV issuance

AI-Driven

- Automated document parsing
- Al-based fraud and anomaly detection

HTTP validation Standardized.

- auditable logic
- Enterprise-scale automation
 - support



Industry-Leading **Net Promoter Score**

Operational

Proof Point:

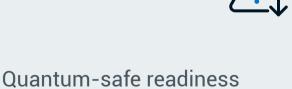
(+08)

What This Means for Enterprises

No manual renewals

Outcomes:





Fewer outages



Unified PKI and DNS operations

Continuous compliance





digicert ONE

- Automates discovery, issuance, renewal, and revocation

ACME-enabled by default

hybrid, and air-gapped environments

Scales across cloud, on-prem,



DigiCert Isn't Adapting to the Future of WebPKI-It's Defining It

A 10X world demands automated, resilient, intelligent, and quantum-ready trust infrastructure.

Source: Upgrading WebPKI for 10X Scale - DigiCert White Paper