

CERTIFICATE LIFECYCLE MANAGEMENT: A SMARTER APPROACH



Most Communication Service Providers manage hundreds, if not thousands, of digital certificates.

When handled manually, this process is both time-consuming and highly susceptible to human error. Several converging trends are further amplifying this challenge. The CA/Browser Forum is actively shortening certificate lifecycles, with mandatory 47-day renewal cycles set to take effect in 2029. At the same time, the rapid adoption of mutual TLS (mTLS) across 5G interfaces requires client and server certificates to be managed in tandem, effectively doubling the volume of certificates in play. Together, these developments render manual management increasingly impractical, underscoring the urgent need for an automated, scalable solution.

THE SS8 SOLUTION

SS8 addresses these challenges with a mission-critical Public Key Infrastructure (PKI) platform engineered to provide a dedicated, high-assurance Lawful Interception Certificate Authority (LI CA). This automated and secure approach to certificate lifecycle management is ETSI compliant, works in any network, and ensures the authenticity, integrity, and non-repudiation of the electronic warrants.

Our platform enables fully programmatic, machine-to-machine certificate operations — no human signatures, no email chains, no single points of failure.

- **Initialize, request, and receive certificates automatically** — end entities interact directly with the platform without manual intervention
- **Trigger renewals proactively** — certificates are renewed automatically as expiration approaches, eliminating the risk of unexpected outages
- **Enforce certificate profiles consistently** — authenticated, auditable exchanges ensure every certificate meets your standards
- **Provision and revoke certificates on demand** — respond to changing needs in real time, at scale

THE RESULT: COST-EFFECTIVE OPERATIONAL RESILIENCE

With SS8, unplanned certificate expirations become a thing of the past. Your teams have increased visibility across all certificates issued by the CA, with automated monitoring, notifications, and reporting for certificates approaching expiration and after renewal and your organization gains the automated foundation it needs to stay secure, compliant, and continuously available.

BENEFITS



SECURITY: Eliminates human error, provides consistent enforcement, and drives faster revocation



RELIABILITY & UPTIME: Prevents outages caused by certificate expirations and removes dependency on individuals



SCALABLE: Able to handle large volumes of certificates, works in any network types, and supports rapid spin ups



COMPLIANCE & AUDITABILITY: ETSI compliant, provides consistent audit trails, enforces shorter lifetimes, and accelerates reporting

Learn how we can help you make lawful and location intelligence simple, efficient, compliant, and scalable.

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