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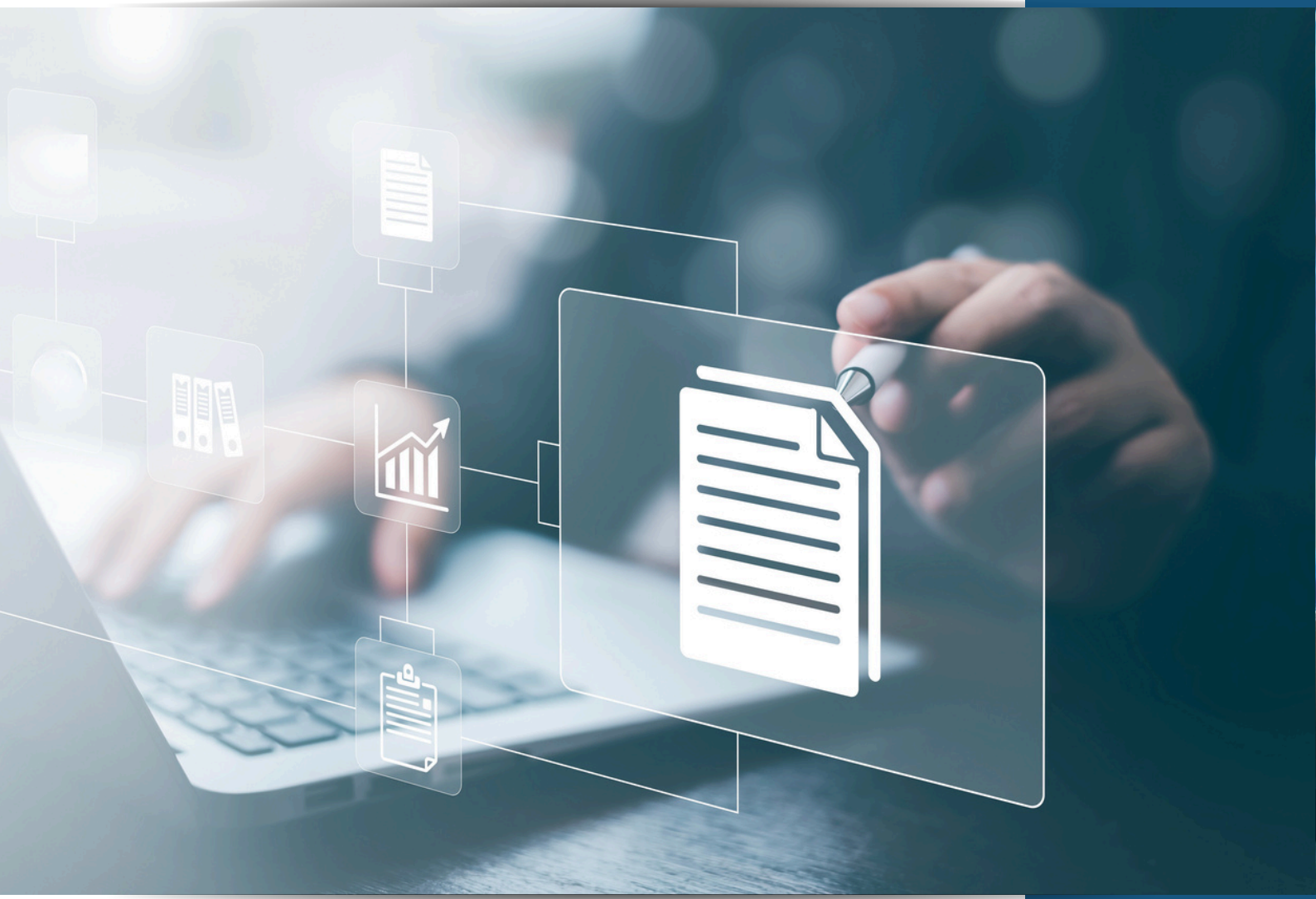
CertM

Certificate Manager

Certificate Lifecycle Management System



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Managing the digital certificates of the enterprise organization is a challenging mission:

Inactivity of services and systems

Inability to manage existing certificates and their status

Utilizing manual processes that result in issues

CertM performs an automatic scanning process that updates the validity of all certificates through a central PKI management system.

The central management system addresses challenges such as:

- Using digital processes instead of error-prone manual processes.
- Digital certificates and smart cards
- Detecting and viewing existing certificates and their status
- Maintenance optimization and efficiency
- Centralized system for managing PKI infrastructures
- Automation throughout certificate lifecycles
- Automatic certificate renewal
- Integration with HSM components
- Certificate expiration alerts
- Integration with international CA providers and organizational CA

Functionality

Monitoring and Alerts

- Reports and statistics
- Filtering and screening to generate reports based on required criteria
- Certificate expiration alerts and warnings, to facilitate timely action
- Logs collected by monitoring systems through SNMP/SYSLOG

HSM Component Integration

- Secure key storage in a dedicated physical device (HSM) with partitioning capability
- Key storage for various purposes: SSL, Code Signing, Client Authentication, Docker Container
- ComSign KSP service on servers/endpoints for communication with the central KSP Server
- Uses Reference for central HSM
- Automatic creation of a KDC authentication certificate (for LOGON) from the central HSM using ADCS

Interfaces

- System is On-Prem/SaaS
- Integrates with several CAs, organizational CA services (supports MSCA/EJBCA), external CA services (DigiCert), third-party systems, HSM components (given CSP), AD, data security and monitoring systems, external DB, REST/SOAP API

Central Management

- Easy-to-use and Intuitive Control Screen (WEB) for management
- Issues various digital certificates such as SSL, Authentication, etc.
- Digital certificate creation, configuration, signing, and issuance
- Display of all network certificates, with advanced filtering options
- Automatic certificate renewal close to expiration date (configurable)
- Alerts to system manager (via email/SMS) regarding expiring certificates
- Revocation/suspension of digital certificates
- Certificate display/download
- Full resilience

CA and Network Scanning

- Network scanning and status display of all existing digital certificates (including IIS, Apache, F5, Imperva, GigaMon)
- Verification of certificates installed on system-linked CAs
- Automatic search for certificates installed on the organizational network
- Direct scanning via an Enrollment Agent
- Certificates catalogued by the components in which they are embedded: protocols, IP addresses, ports, URLs, and more

Functionality

Automation

- Automatic digital certificate renewal
- Certificate expiration alerts
- Automated action configuration via API

Display

- All the organization's digital certificates centralized on a single screen
- Comprehensive display of all existing digital certificates on the network and CAs
- Current status of every digital certificate throughout its lifecycle

Management and Monitoring

- Digital certificate lifecycle management
- Search/filter/sort based on required criteria
- Revocation/suspension of digital certificates
- Manual/automated management

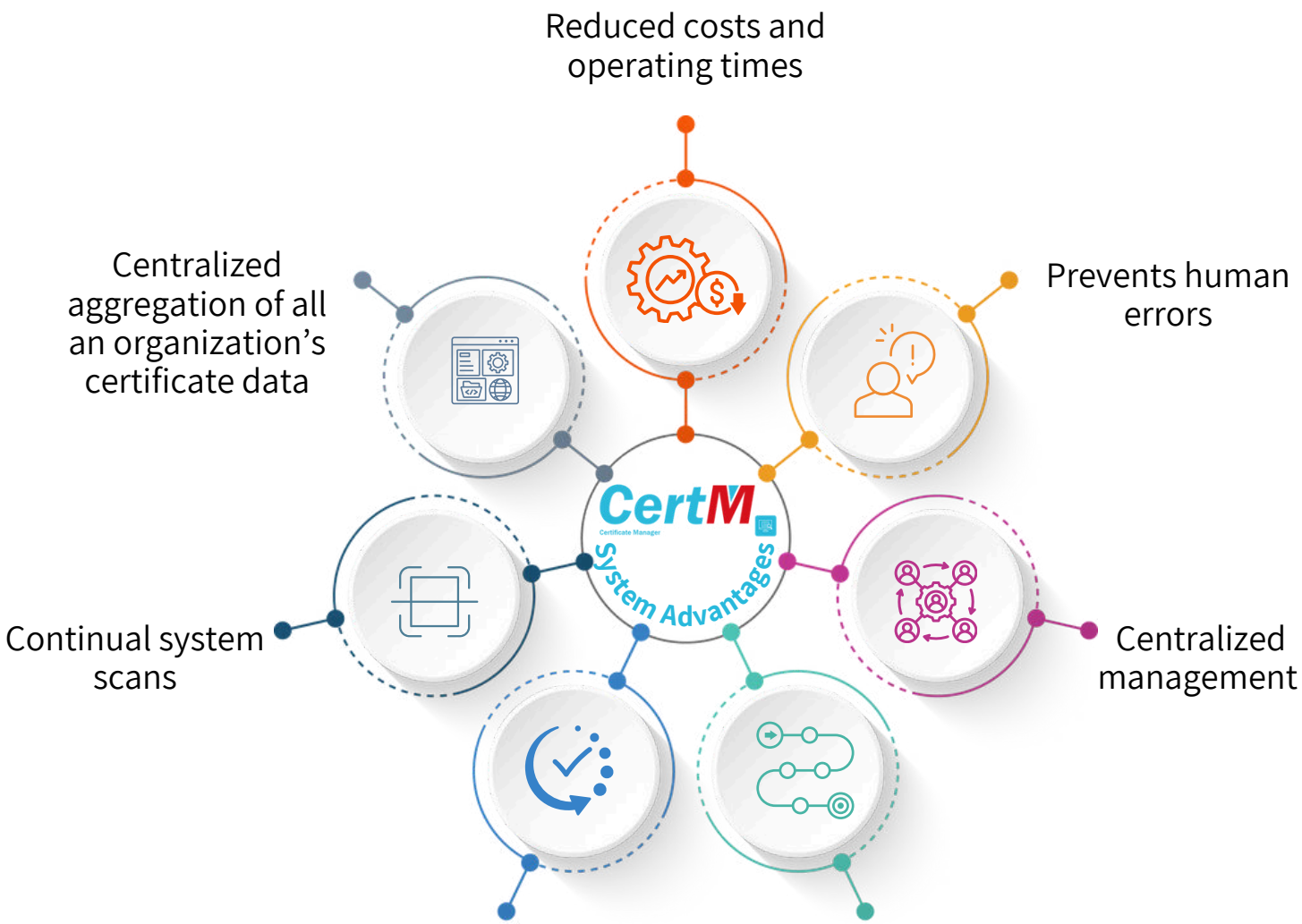
Reporting

- Digital certificate filtering by CA
- Filtering based on protocols/ports/devices and more
- Reports and statistics
- Alerts and warnings

CA and Network Scanning

- Network and CA scanning to detect all network digital certificates
- (SSL/TLS, SSH, Mobile, Kubernetes, WiFi & VPN)
- Direct scanning via an Enrolment Agent
- Integrating with Private/Public CAs
- API for interfacing with Third-Party systems
- Integrating with AD

System Advantages



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