

# Automatic Certificate Management Environment

(ACME)

## FULLY AUTOMATED DOMAIN VALIDATION AND ISSUANCE

ACME automates the key generation, domain validation, certificate issuance, installation with the current CA chain, and restarts the server when needed, all within seconds.

## HANDS FREE RENEWAL

Once the agent is installed and configured, set the agent to automatically renew 15 or 30 days prior to certificate expiration for fully automated renewal, indefinitely.

## FULLY AGENT-AGNOSTIC

Use Certbot or any of the most popular ACME clients – whatever works best for your organization – to reach and leverage GlobalSign's ACME service

## DIFFERENT CERTIFICATE TYPES

Supports DV and OV public trust TLS certificates as well as IntranetSSL (non-public) certificates for internal endpoints.

## DO MORE WORK WITH LESS

GlobalSign's ACME service dramatically reduces the time and tedium required to manage certificates at scale.

## BETTER SECURITY POSTURE

Automation means fewer expirations and certificate-related events, which better protects against down sites, financial loss and/or compliance/regulatory penalties.

## BETTER CERTIFICATE AGILITY

GlobalSign's ACME service makes it quick and easy to get certificates with the latest profiles, key sizes and key types so you always have the most up to date TLS certificates securing your sites.

## Security Risks and Inefficiencies in Certificate Management

The use of TLS certificates is widespread for securing web communications, applications, and infrastructure. With a growing number of certificates in use and shorter certificate lifespans, Enterprises continuously face the challenge of managing digital certificates in large-scale environments. The monotonous tasks of provisioning, installing, renewing and revoking certificates is a headache for many IT teams. Throw in domain validation and this adds to the workload. Manually managing these certificates can be an inefficient and error-prone process, particularly in environments with a high volume of certificates and frequent changes.

The ACME protocol automates key parts of the lifecycle management of digital certificates, eliminating the need for manual intervention. Streamlining certificate management enhances security posture, ensuring businesses are compliant and their digital assets are secure.

## Automatic Certificate Management Environment (ACME)

GlobalSign's ACME service leverages the automation capabilities of the ACME protocol to address and overcome the challenges associated with the growing usage of certificates and their decreasing lifespans. Our service is compatible with most ACME Agents and our digital identity platform used for managing public and private digital certificates, Atlas acts as an ACME server which communicates with a user's chosen ACME Agent to automate the issuance and revocation of TLS certificates. This no-touch environment enables certificate issuance at a low cost and high speed.

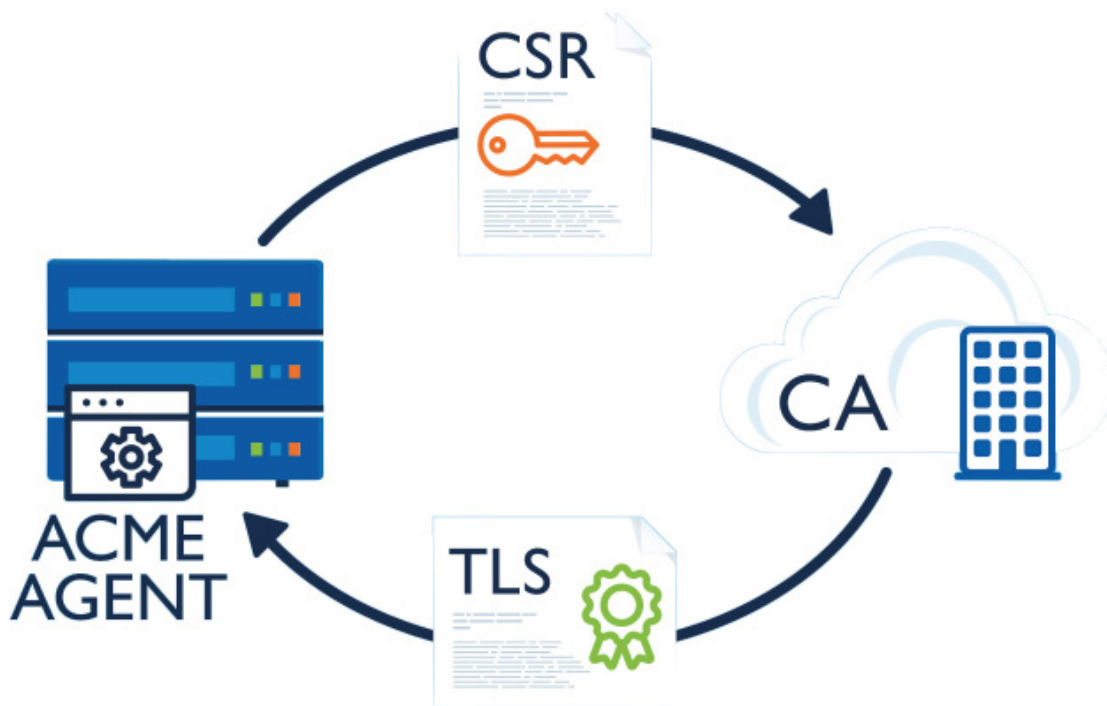


## Use Cases

- ✓ Web Server Security
- ✓ Multi Domain Certificate Management
- ✓ IntranetSSL Certificates
- ✓ TLS Certificate Automation
- ✓ Securing DevOps Pipelines
- ✓ Securing Containers & Codes
- ✓ IoT Security

## How it works

- 1** ACME Agent will generate a key pair
- 2** Agent will authenticate itself with the GlobalSign Atlas ACME server
- 3** Agent will send a CSR to the server and complete domain validation challenges
- 4** Atlas validates the CSR and issues the certificate
- 5** Agent downloads the certificate and create cronjob (scheduled task) for auto renewal



Get in touch with your local team – visit

### About GlobalSign

As one of the world's most deeply rooted Certificate Authorities, GlobalSign is the leading provider of trusted identity and security solutions enabling organizations, large enterprises, cloud-based service providers and IoT innovators worldwide to conduct secure online communications, manage millions of verified digital identities and automate authentication and encryption. Its high-scale PKI and identity solutions support the billions of services, devices, people and things comprising the IoT. A subsidiary of Japan-based GMO Cloud KK and GMO Internet Group, GMO GlobalSign has offices in the Americas, Europe and Asia.

