

# Time-Stamping Authority PKI by PrimeKey

## Trusted Time- Stamping Authority when reliable time is important

PrimeKey Time-Stamping solution meets all your time-stamping needs, including standard compliant RFC3161 time-stamps and MS Authenticode time-stamps.



# Time-Stamp Server by SignServer Enterprise

PrimeKey Time-Stamping solution will efficiently assist you in setting up a Time-Stamping Authority (TSA) for creating your own trusted time-stamps.

Computer programs and documents that are digitally signed with trusted time-stamps, play an important role in high-value transaction security, or whenever other sensitive business is conducted over the Internet. The trusted time-stamp proves that a contract, invoice, tax declaration, receipt or software was signed at a certain date and time.

## Meets all your time-stamping needs

PrimeKey Time-Stamping solution meets all your time-stamping needs, including standard compliant RFC3161 time-stamps and MS Authenticode time-stamps. Multiple time-stamping needs can be managed in one installation and thus reduce maintenance and significantly lower your costs. PrimeKey Time-Stamping solution is based on SignServer Enterprise.

## Highest security while saving costs

The PrimeKey Time-Stamping solution is based on a centralized time-stamp solution model. This means that you can manage different services from a single location, while significantly reducing the risk of time-stamping keys being lost or stolen. The usage of HSM (Hardware Security Model) assures the highest level of protection for the time-stamping keys. Users of the services can be controlled in different ways by

for example mandating users to authenticate to certain services and allowing some users free access to other time-stamp services.

## Policy and audit compliance

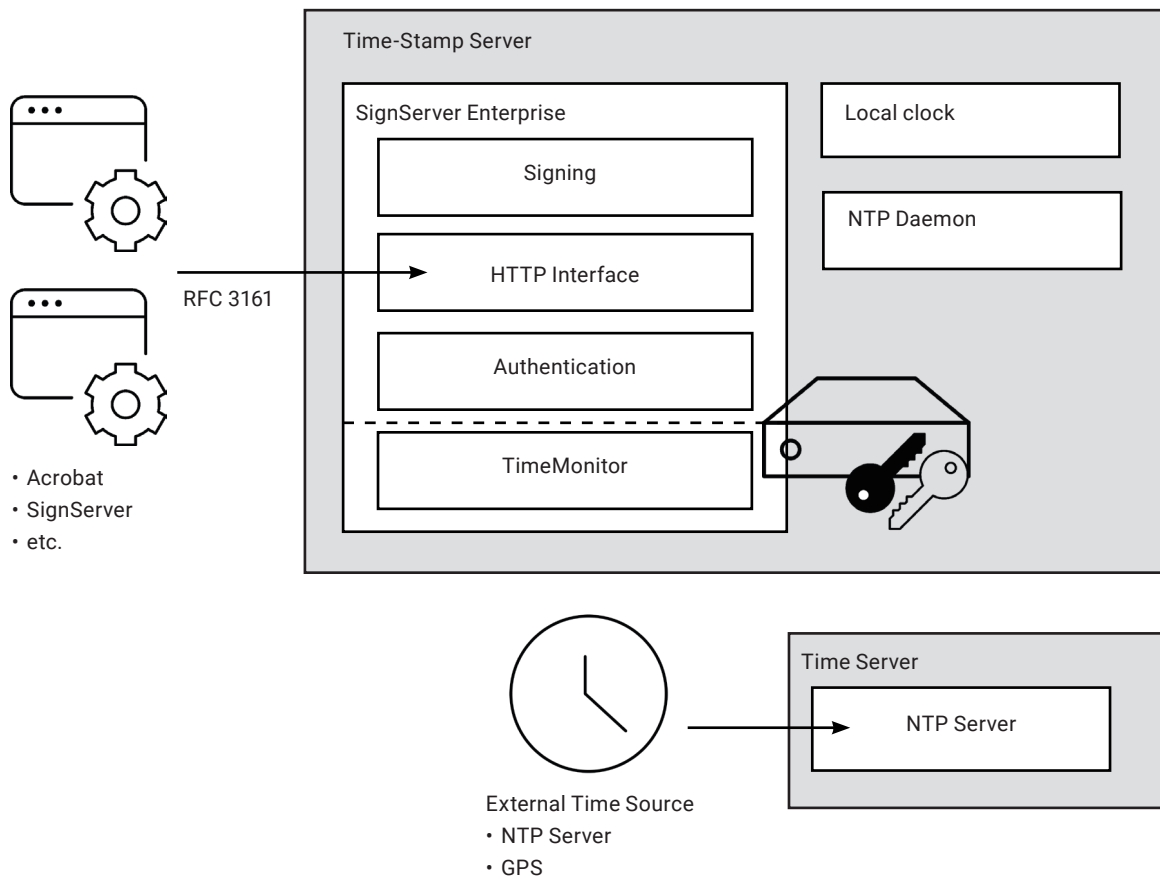
Maintaining trust in a time-stamping service is crucial, and both policy and audit requirements must be observed when running a Time-Stamping Authority. The PrimeKey Time-Stamping solution is designed with audit compliance in mind, making it easy to achieve and enforce a strict audit record of each time-stamp produced, and easy to comply with international requirements such as ETSI TS 119422.

## Deploy in Software, Appliance or Cloud

PrimeKey understands that organizations have unique business challenges, including security requirements, budgets and the availability of internal resources. We give you the choice of and the choice to combine – Software, hardware Appliance and Cloud deployments for your PKI solution. This means the infrastructure can be deployed in the manner best suited to your business needs and can grow flexibly and expand over time.

## Use Case Examples

- eIDAS qualified time-stamps of legally binding documents for eInvoicing, eGovernment, etc.
- Long term validation of digital signatures for documents and software
- MS-Authenticode time-stamps
- Time-stamping and signing of digital receipts
- Time-stamping of lottery slips and other gambling data



## Time-Stamping Features

- MS Authenticode-compliant time-stamps
- Standard compliant RFC3161 time-stamps
- Leap second handling
- Configurable audit and transaction logging
- Archiving module for the central storage of all time-stamps
- Multiple time-stamp policies and signature algorithms
- Configurable NTP time sources and monitoring of time synchronization (EN 319 421 - ETSI and EN 319 422 - ETSI)
- eIDAS compliant including time monitoring and eIDAS certificate extension support
- Hardware Security Module (HSM) protecting signing keys
- Support for multiple HSM from different vendors
- Secure software based storage of keys
- Highly configurable audit and transaction logging
- Built in health check used by load balancers and for monitoring
- Linear scalability for performance and high availability by adding multiple nodes
- Certificate-based authentication

## About PrimeKey

PrimeKey is one of the world's leading PKI solutions providers and has developed a number of innovative products, including EJBCA Enterprise, SignServer Enterprise, EJBCA Appliance, PrimeKey SEE, and Identity Authority Manager. As a pioneer in open-source security software, PrimeKey provides global businesses and organizations the ability to implement vital security solutions, such as e-ID, e-Passports, authentication, digital signatures, unified digital identities, and validation. PrimeKey products are Common Criteria and FIPS-certified, the company's internal processes are ISO 9001, 14001, and 27001 certified, and it has numerous Webtrust/ETSI and eIDAS-audited installations.

PrimeKey has offices in Stockholm, Sweden; Aachen, Germany; San Mateo, USA; and Melbourne, Australia. Together with a global network of technology and reselling partners, the company supports a customer roster that includes industry-leading companies and institutions across the IT, telecommunications, industry, finance and public sectors.

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