

A photograph of a modern, multi-story brick building with large, dark-framed windows. The building is surrounded by greenery and a paved area. The sky is blue with light clouds.

Advanced Certificate Management with **essendi xc.**

With a complete digital inventory of all your certificates, you'll keep track of everything, keeping control of the growing stock of your certificates.

The duration of the certificates is getting shorter and shorter and the system environments in which they are used are becoming ever more complex. Invalid certificates lead to malfunctions.

The handling of certificates is not commonplace and requires special know-how. Systems-led support through the certification processes improves processes and reduces sources of error when dealing with them.

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Current Situation

The increasing digitalization of business models and processes imposes new challenges on companies, especially with regard to (questions of) IT security. Protecting data and data streams is more important today than it has ever been before.

Global hacker attacks threaten companies' data treasure, new laws and regulations impose growing requirements and end users are getting ever more sensitive about the topic. Besides financial losses, possible security gaps can therefore also result in serious damage to a company's reputation.

For these reasons x509 certificates' roles in almost every IT organization is rising as they guarantee more secure data traffic for internal and external communication.

Growing complexity in the handling of digital certificates.

As legal and regulatory requirements rise sharply, companies and their PKI Admins face growing complexities in the handling of digital certificates. Browser trustworthiness according to the requirements of the CA Browser Forum, the new EU-DSGVO, eIDAS conformity, etc. are just a few examples for the external influencing factors.

At the same time, within organisations the amount of digital certificates is rapidly rising. Also, while their time of validity decreases system environments becoming more and more complex. As a result, unexpectedly expired certificates can lead to operational disturbances. The damages easily add up to a million Euro amount, if, for example an important website or server is no longer accessible. To stay on top of things, companies and IT security admins need a centralised organisation-wide repository listing their complete certificate stack.

Likewise, the processes around the handling of digital certificates can become a pitfall for those involved, as well, as they're not commonplace and require special know-how. For example changing certificates (manually) can be challenging starting with the evocation of an expired password, to the issuance of a new certificate up to the actual exchange in a specific system. Specific system-guided support through the certificate processes improves and speeds up these processes and reduces sources of error.



essendi xc **The certificate manager**

To meet these challenges, essendi xc has been developed. It is a unique platform to centralise, standardise and optimise certificate management (SSL x509). essendi xc has been designed specifically to meet the needs of global operating organisations who are taking the lead in their markets.

The self-service portal allows administrators and various DevOps teams to request, approve, renew and deploy digital certificates for themselves. Individualized templates guide users through the processes and ensure compliance with in-house rules and conventions.

API's to various internal and external trust centres directly connect essendi xc to the certificate issuing organisations (CAs).

Many processes can be automated as well. To match existing organisational structures, an extensive rights and roles concept has been designed including LDAP integration. Moreover, modern user interfaces ensure intuitive handling while white label enables organisations to use their own corporate style.



Standardised, centralised and process oriented certificate management

In addition, essendi xc provides a central, company-wide repository which increases transparency and allows an in depth analysis of the existing certificate stock.

Its database is the basis for targeted risk management of the certificate portfolio

e.g. identifying critical key lengths or algorithms. Diverse reporting and controlling features as well as a management report are included. And to ensure that certificates do not expire unexpectedly, a monitoring feature including different escalation levels supports PKI admins. They all can be configured individually.

For an even higher security level in dealing with sensitive key material, essendi xc can integrate solutions of well-known HSM providers.

essendi xc exempts PKI admins from those many little daily tasks giving them time to focus their energy on the really important tasks, reduces process costs and makes processes around certificates more secure. essendi xc also offers flexibility towards public certificate providers as it is independent from a specific CA and can connect to various market players.

100% software made in Germany

essendi xc is 100% software made in Germany. The application is based on latest Java technologies and runs on-site in customers' infrastructures. This way, essendi xc's customers are successfully in control of their sensitive information and key material.



Looking for more information?

Contact us for an appointment. We're looking forward to hearing from you.

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