



CertControl

Fast certificate revocation
for effective risk management

CertControl



SyTrust S.A.

SyTrust Luxemburg is a leading Development Company for high tech IT-Security-Software Products. SyTrust employes a motivated, always up to date, development team.

Amongst other companies, this CertControl is already successfully in operation in major German banks, insurance companies and Internet providers.

Due to this achievement, we have already opened an office in Hallbergmoos (close to Munich airport, Germany). From here we offer our customers high level support

Since our success is very much depending on how successful you are, we do not leave you alone with any questions or queries you might have.

SyTrust Support

We offer a high level support with all our products.

You can rely on a specially trained support staff. Depending on your needs we offer different categories of support.

Bronze	Silver	Gold
<ul style="list-style-type: none"> ■ Support 9:00 to 17:00 MET every working day ■ Answer until next working day guaranteed ■ Patches free ■ Upgrades, updates and new releases must be licensed separately 	<ul style="list-style-type: none"> ■ Support 9:00 to 17:00 MET every working day ■ Answer within 4 hours after notification guaranteed ■ Updates, patches and new releases free ■ Upgrades must be licensed separately ■ Development of necessary patches immediately after locating an error 	<ul style="list-style-type: none"> ■ Support 9:00 to 17:00 MET ■ Support 24 x 7 for production problems ■ Answer within 4 hours after notification guaranteed ■ Updates, patches and new releases free ■ Upgrades must be licensed separately ■ Development of necessary patches immediately after locating an error

Prices for the individual Categories are on a separate list.

Just rely on our professional supportteam!

Overview

SyTrust CertControl is an up-to-date, secure and efficient alternative CRL technologies. There are quite a few OCSP-Responders on the market right now, having rather different architectures. SyTrust's CertControl is implemented using the Apache web server and makes use of the stability, speed, extensibility and portability of the worlds most used web server. As OCSP-Responders will evolve into one of the key-components of every PKI, a careful choice should be made.

☑ BENEFITS

Things to say

- Speed
- Stability
- Extensibility
- High availability
- Interoperability with all major operating systems
- Identrus compliant
- Efficient caching
- Open architecture
- Flexible forwarding
- Policy driven

More things to say

- Less fraud, therefore costs due to fraud can be minimized.
- High degree of confidence in transactions.
- Reduces liability
- Increases efficiency
- Helps to manage risks
- Cost effective
- HSM Support
- Less network traffic: client only requests needed information.
- Central, fast and flexible risk management
- Reduced complexity in user applications

⚠ HIGHLIGHTS

Adaptable solution

CertControl can be used on various platforms and can be adapted to specific customer requirements very easily. CertControl has been realised as Apache webserver plug-in which means that it is highly efficient at reasonable cost.

High operational stability

Through the use of proven technologies such as the Apache webserver on such platforms as Solaris, Linux and Windows NT, high operational stability can be attained, as practice has shown.

Performance / scalability

The use of the entire functionality of the Apache webserver technology and state-of-the-art crypto hardware allows for good scalability. Both the requirements of internal PKIs as well as national and international trust centers with several millions of enquiries per hour are fulfilled by CertControl.

CertControl

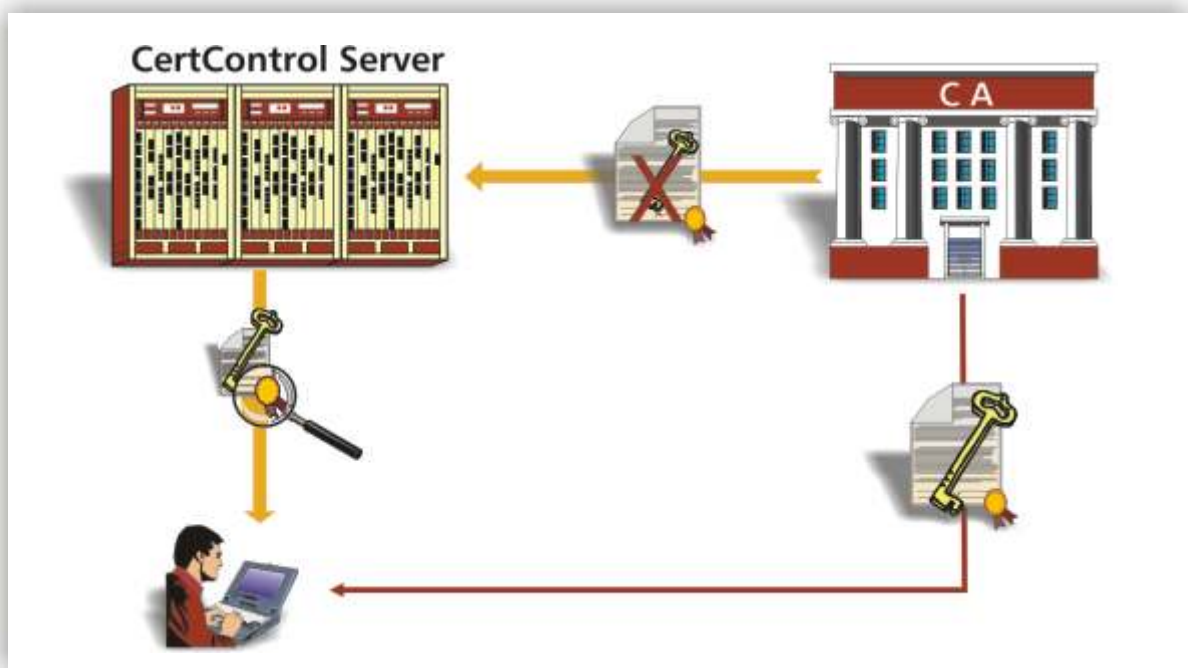


SyTrust CertControl the solution

A company that doesn't adequately validate a presented certificate may expose sensitive or valuable information. This company may then be held liable for a transaction carried out with a revoked certificate.

Having SyTrust's CertControl gives the ability to validate digital certificates in real time.

CertControl in Action





Easier programming

Implementation of own PKI Applications become easier with CertControl, because it takes care of the validation.

CertControl also provides Chain-Certificate-Validation going back to the roots of the certificate.

The new interface is a flexible universal tool, with the advantage of cost effective and short integration time into a company's internal PKI's.

Central Management

With CertControl you, as a company can be in charge of saying, whether or not a certificate is trustworthy or not. The individual employee does not have the choice.

All messages with a certificate that is not trustworthy do not even reach the employee.

Easy integration into PKI Structures

CertControl works in three steps which are as follows:

- Decodes the request and preprocesses
- Certificate Validation
- Converting and coding the answer

With CertControl, step 2 can be optimized and additional moduls can be integrated, so they are compatible with own PKI requirements, without having to invest into more hard and software components.

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The Story and why SyTrust CertControl was developed

The Online Certificate Status Protocol (OCSP) is the emerging standard for checking whether digital certificates are valid at the time of a given transaction. Before OCSP, risk managers didn't have any easy way to double-check a certificate's validity. OCSP lets these managers conduct these checks in real time, saving time and money. It provides e-businesses with a faster, easier and more dependable way of validating digital certificates than the traditional method of downloading and processing certificate revocation lists (CRL).

Issued by certificate authorities, a CRL is a list of invalid certificates. The traditional CRL fetching process is equivalent to poring over a dated computer printout to see if someone's license has been revoked. CRLs often grow long since all certificates are listed or because of the large numbers of revocations, or a sizable user base. Then they become unwieldy and present another problem:

Each CRL distribution severely taxes net bandwidth and client processing power. More over, it may take several days for a trading partner to receive notification about a revoked certificate, increasing the probability for a security breach.

OCSP gives users certificate status online in real time. As a result it is much quicker than CRL processing, without the same logistical headaches and processing overhead.

To immediately check for revocations, an organization's client application forms a request and forwards it to the relevant OCSP responder, a server application in the net that stores up-to-date revocation information. The responder replies with one of three messages about the certificate's validity: "GOOD," "REVOKED" or "UNKNOWN."

Hands-On Experience

An employer issued an employee with a certificate, which has a validity of, for example 2 years. He now hands in his notice and leaves the company. He will still be able to use his certificate. But if the recipient checks whether this certificate is still valid, he will get the message "revoked".



SyTrust Suite

Apart from CertControl we have other professional low cost security SyTrust PKI-Products in our portfolio.

TokenControl

secure SoftToken-Server, including multiple functions to support user-convenient encryption within (even SmartCard-based) PKI-Environments (key-history, key-archive), supports slow or partial SmartCard-migration or even replaces SmartCards

TransactionControl

flexible policy driven transaction coordinator, identrus compliance, allowing easy user-level extensions and connectivity to most back-end systems, including CertControl-OCSP Responder

RegistrationControl

highly automated registration system, tightly integrated into Baltimore products such as UniCERT ARM with an open database-driven connectivity towards company-internal backend-system

DeveloperSignatureControl

supporting in-house developers with crypto-libraries to utilize PKI-technologies within applications in C, C++ and Java, supports Windows, Solaris and S/390, flexible policy driven crypto-API, supporting all major standards with simplest high-level function calls



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