conpal CerbalOn

Operating system logon with smart cards - The safe way to the Windows logon

Secure logon to the PC is one of the core requirements of every business and every organization., Every day, every computer user faces the challenge to gain access to systems using different methods, from the employee ID card at the workplace entrance to signing on to different PC applications by means of passwords. However, there is no authentication method available that can be used across systems.

The proliferation of enterprise smart cards and national initiatives to introduce electronic identity cards (eIDs) to all (state) citizens now for the first time provide the opportunity to use a single authentic solution to meet different needs within an organization.

conpal **CerbalOn** provides this important security application to smart card users. It ensures comfortable logon to the Microsoft Windows operating system. In doing so, conpal **CerbalOn** replaces the Windows logon password with a secure value generated by an operation in the smart card so that a user no longer needs the Windows password. Whereas a user previously had to remember two passwords for the smartcard and Windows logon, he can now do without the Windows password.

With conpal CerbalOn, companies noticeably increase their security level with a two-factor authentication of smart card and PIN. The passing on of the Windows password by the user is excluded. At the same time, help desk costs are noticeably reduced because forgotten passwords - caused by complex password rules and forced, regular password changes - are a thing of the past with conpal CerbalOn.

conpal CerbalOn supports all common smart cards, such as those issued by trust centers and those used as a passport in national eID projects. Incidentally, not only smart cards can be used for convenient operating system logon, but also the popular USB tokens. in addition to the Windows password, conpal CerbalOn can generate additional passwords (eg for Lotus Notes), and uses this authentication strength particularly well in conjunction with conpal's single sign-on solution.

About conpal

conpal specializes in the management of user infrastructures and the development of secure system environments. conpal offers solutions for identity management, enterprise SSO, strong authentication and control of IT infrastructures. These are easy to integrate into existing system landscapes and are transparent to the user. Our customers appreciate the reliability and simplicity as well as the long-term investment security of our security solutions. conpal stands for recognized product quality, user-friendliness of the software, excellent support and a market-driven offer.

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Information Security Systems.

Vorteile

High security

- Nahtlose Einbindung in bestehende Strong 2-factor authentication using smart cards or tokens
- Support for the automated exchange of Windows passwords
- Protection of the Windows passworts against common forms of attack by corresponding password strength
- Fast desktop lockdown after removal of the smart card

EasyIntegration

- Sicherheitsinfrastrukturen Seamless integration with existing security infrastructures
- Support of common national ID cards, physical access and much more.

User transparency

- No training required for end users
- Reduction of the necessary passwords for the user to the PIN of the smartcard
- A noticeable PIN for electronic signatures, encryption and Windows logon
- Certificate-based login to Windows, also for mobile clients
- Use of certificates issued by any trust center
- Use of smart cards and tokens from different manufacturers is possible

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Features

Security

- Significant increase of the security of the logon with a two-factor authentication with smart card or USB token
- conpal CerbalOn replaces traditional Windows passwords with certificate-based values, thus protecting users against compromising of their operating system passwords
- Passwords generated by CerbalOn are not saved
- A Windows password is unknown to anyone and therefore cannot be shared
- Protects against dictionary attacks and other threats
- Validation of used certificates with CRLs

Compatibility

- Support of all cards with electronic chip with standard certificates (X.509v3; no certificate extensions needed)

Examples of supported national ID cards:

- Belgian eID card
- Estonian ID-card
- Finnish FINEID card
- Austrian citizen card
- Swedish SEIS card
- And many others

Examples of supported trust center cards:

- Information Services (Bulgaria)
- TIKS, Netkey (Germany)
- TC-Trust (Germany)
- s-Trust (Germany)
- datev (Germany)
- A-Trust (Austria)
- MAV Informatica (Hungary)
- and many others

System Administration

- Windows Installer (MSI)-based installation
- Microsoft Management Console (MMC) configuration
- Auto-enrollment allows users to use their smart card without the need for a central OS logon
- Requires no additional server components

User comfort

- Automated Windows password change
- Easy desktop lock by pulling the card

System requirements

Hardware

- Requirements typical of Windows operating system
- PC with Intel Pentium or compatible processor
- At least 25 MB of free memory capacity

Operating Systems

- Microsoft Windows 10 / 8.1 / 7 / XP

Network

- All networks supported by Windows

Complementary products

- conpal AuthomaticOn (SSO):
  Enterprise single log-on to the automated log-on to various platforms and applications
- conpal AccessOn:
  Policy enforcement for applications and memory management

Third-party manufacturers

- Smartcards or USB tokens are integrated via PKCS #11 and CSP - interfaces (PKCS #11 and CSP are not included, but are available at the relevant smart card issuing Office)

Interfaces

- Microsoft Credential Provider
- PKCS#11
- Cryptographic Service Providers (CSP)

Supported Standards/Protocols

- PC/SC
- X.509v3 Zertifikate
- Certificate Revocation Lists (CRL)
- PKCS#1

Language versions

- English, German

New features

- Integration functions with AuthomaticOn
  For example, Notes logon with CerbalOn
- µCerbalOn:usable in conjunction with AuthomaticOne.g. on ThinClients for desktop logins through CerbalOn
- Customizable bitmap at login
- Optional forced logout when another card is
* Creation of the history in the PIN-protected **area**
* PIN lifecycle
* PIN policy with active directory support
* Certificate life cycle
* C/R screen (preparation for help desk solution)
* Single sign-on for a limited number of logins (e.g., PIN dialogs)
* Secure PIN Store
  *(as from Windows 7)