



Nexus products secure generations



Deutsche Rentenversicherung

The Deutsche Rentenversicherung (DRV) as Europe's largest provider of statutory retirement insurance manages data of at least three quarters of all German citizens. Enormous amounts of sensitive personal data is gathered here, including information about peoples financial affairs and health status.

"The introduction of multi-functional employee smart cards with qualified signatures is the basis for a secure, efficient and fully electronic business process management in the state retirement pension sector."

RONALD GRUNERT,
HEAD OF THE TRUST CENTRE
AT DEUTSCHE RENTENVERSICHERUNG

WITH THE DEVELOPMENT AND POSSIBILITIES of the latest technology, not only the administration and data management, but consequentially also admission to buildings, rooms and workplaces should be electronically secured.

This meant in practice the buildup of a trust centre in order to provide the employees of the DRV-Bund and the Insurance Agencies with multi-functional smart cards that also enable digital signatures.

Increase efficiency with own trust centre

The Deutsche Rentenversicherung with over 57 Million policy holders is Europe's largest provider of pension insurance. Provisions comprise individual advisory services in all pension matters including medical and professional rehabilitation and, of course, pension payments to policy holders or their relatives. The Deutsche Rentenversicherung directs a network of 1,000 information centres with 65,000 employees.

Efficient processes for an organisation of this scale have a tremendous impact. Thus, the administration

staff is already being electronically supported with IT solutions to deal with their tasks. The implementation of digital signatures simplifies and expedites current administration processes. Procedures that require authorisation with a personal signature (e.g. payments) can now be processed without any media conversion.

The production and administration of the employee smart card with signature functionality required the establishment of a trust centre. While the highly secure high-availability systems for the certificate authority (CA), directory and revocation service should be operated centrally at DRV Bund, the actual smart card for the employees should be locally produced and issued by the individual providers.

Task definition

The buildup and the startup of the trust centre, which is the basis for the implementation of electronic business processes complying with the German Signature Law, was carried out by Siemens. The evaluation of necessary software solutions incor-





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porated among other criteria the following specific requirements:

- Multiclient capable CA platform for the insurance agencies
- High availability with clusters and load balancers
- Flexibility and high scalability for the adaptation to the complex IT environment
- Peripheral components for registration, personalisation, card issuance and revocation of the smart cards
- PKI and RFID functionality for every card
- Notification of certificate expiration and automated certificate renewal processes

Solution and implementation

Products of several providers were combined into a complex solution. Nexus Certificate Manager was chosen for the production, issuance and administration of the certificates. These clients were selected to take over the certificate publication and revocation.

The deployment and integration of Nexus system components as well as the adaptation of the software functionality to the special requirements of the DRV IT environment could be carried out with cost and time efficiency.



Technical and economical benefits

The employee smart cards for admission, time registration, login at the workplace PCs and authentication for specific data and IT application increase security and data protection significantly.

With the implementation of digital signatures fully electronic administrative business processes can be realized without changes of media. This leads to considerably shorter processing times and, accordingly, to lower administrative costs with still higher quality.

Products in service

Nexus Certificate Manager

- Nexus Certificate Manager handles the issuance and the lifecycle management of all certificates for the Deutsche Rentenversicherung employee smart cards.
- Nexus Certificate Manager's security has been Common Criteria EAL3+ evaluated and approved according to the German Signature Law (SigG).
- The multiclient capability and the flexibility with regard to role definition, policies, certificate formats and the integration with a card management system, the directory and status information systems were DRV's crucial parameters for the choice.
- Nexus Certificate Managers' high-availability architecture supports a smooth "24/7" permanent operation.

