

Tape Encryption and DKMS key management service

HIGHLIGHTS

The IBM TS1120 tape drives with encryption capabilities can be exploited in a variety of configurations. The service described here focus on how to use the encrypted tape drives from a system z platform with IBM cryptographic HW available through ICSF by means of the IBM Distributed Key Management System (DKMS) for managing the cryptographic keys.

DKMS is a centralized key management system that can be used to manage all keys and certificates used in an enterprise and key material exchanged with other companies.

At zOS DFSMS is using a new data class to control data that must be encrypted in the tape drive. Via the Encryption Key Manager (EKM) DFSMS gets the keys to be used in the actual session.

DKMS manages the keys that must be backed up for use in disaster recovery situation. Standard DKMS functionalities enforce dual control and audit logging in DB2 + SMF. Public keys are contained in a x509V2 certificate format and kept in a RACF keyring connected to EKM. Private keys are stored in PKDS under ICSF and crypto HW control.

IBM can help customers integrate the tape key management parts with DKMS.

BENEFITS

With DKMS you don't need to understand and use the keytool utility and RADCERT command for handling keys and certificates.

Keys and certificates for the encrypting tape drives are managed by DKMS with the policies, procedures and very secure setup used for managing other keys in the enterprise.

If already using DKMS then the backup procedures and disaster recovery mechanisms in place also applies for keys and certificates used in the tape encryption.

THE SERVICE

Installation and customisation of DKMS support for RACF keyrings to let a DKMS managed keyring be connected to the EKM software serving the encrypting tape drives.

Assistance with all key management related activities needed during the deployment of IBM tape encryption.

CONTACT INFORMATION

To get more information please contact your local IBM representative or the IBM Crypto Competence Center in Copenhagen directly – e-mail: ccc@dk.ibm.com.

ABOUT IBM CRYPTO COMPETENCE CENTER IN COPENHAGEN

The IBM Crypto Competence Center in Copenhagen (CCCC) has since the late 80'es played an important role in developing and deploying cryptographic solutions to the financial sector. CCCC is today a center with critical mass in cryptography, PKI and z/OS security and has a number of standard solutions and services designed to meet business needs.



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