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Building a future we can all trust

Hassan District Co-Operative Central Bank Secures Its Sensitive Data With Thales CipherTrust Transparent Encryption and Centralised Key Management

The Organisation

Registered in 1953, Hassan District Co-Operative Central (DCC) Bank Ltd. has 32 branches spread across Karnataka and is primarily focused on offering financing to the agricultural sector in India. The bank provides a varied set of secured loans helping farmers access timely and adequate backing for continual growth.

With a state-of-the-art on-site data centre, disaster recovery site, and 14 ATMs, the bank delivers centralised banking to the remotest customer in the Hassan district. The bank has leveraged technology to secure banking services for the farmers while strictly abiding by the guidelines and security policies provided by the Reserve Bank of India (RBI) – India's apex banking regulator, National Bank for Agriculture and Rural Development (NABARD) – a regulator for co-operative banks, and National Payments Corporation of India (NPCI) - an umbrella organisation for operating retail payments and settlement systems in India, amongst others.

HDCC Bank

The Business Challenge

As is the case with today's banking institutions, the Hassan DCC Bank was managing an increasing amount of sensitive data from daily financial activities. Their existing infrastructure was spread across a diverse set of applications and databases with legacy IT security features. This made them vulnerable to cyber threats, including unauthorised access to sensitive business data.

With the increase in ransomware attacks targeted towards the financial industry, the bank wanted a robust solution to protect their customers' sensitive Personally Identifiable Information (PII) and one that would help them adhere to the latest RBI master guidelines. The bank was keen to implement solutions that meet both regulatory compliance and superior data security to be future-ready on all upcoming stringent financial regulations.

The end goal was improving operational efficiency and increasing data protection to secure the bank's position in the financial ecosystem.

The Solution

Thales's CipherTrust Transparent Encryption and CipherTrust Manager perfectly fit the bank's specific requirements for privacy, security, and compliance.

CipherTrust Transparent Encryption

CipherTrust Transparent Encryption is a solution designed to meet data security compliance with minimal disruption, effort, and cost. It delivers data-at-rest encryption with centralised key management, detailed data access audit logging, and privileged user access controls.
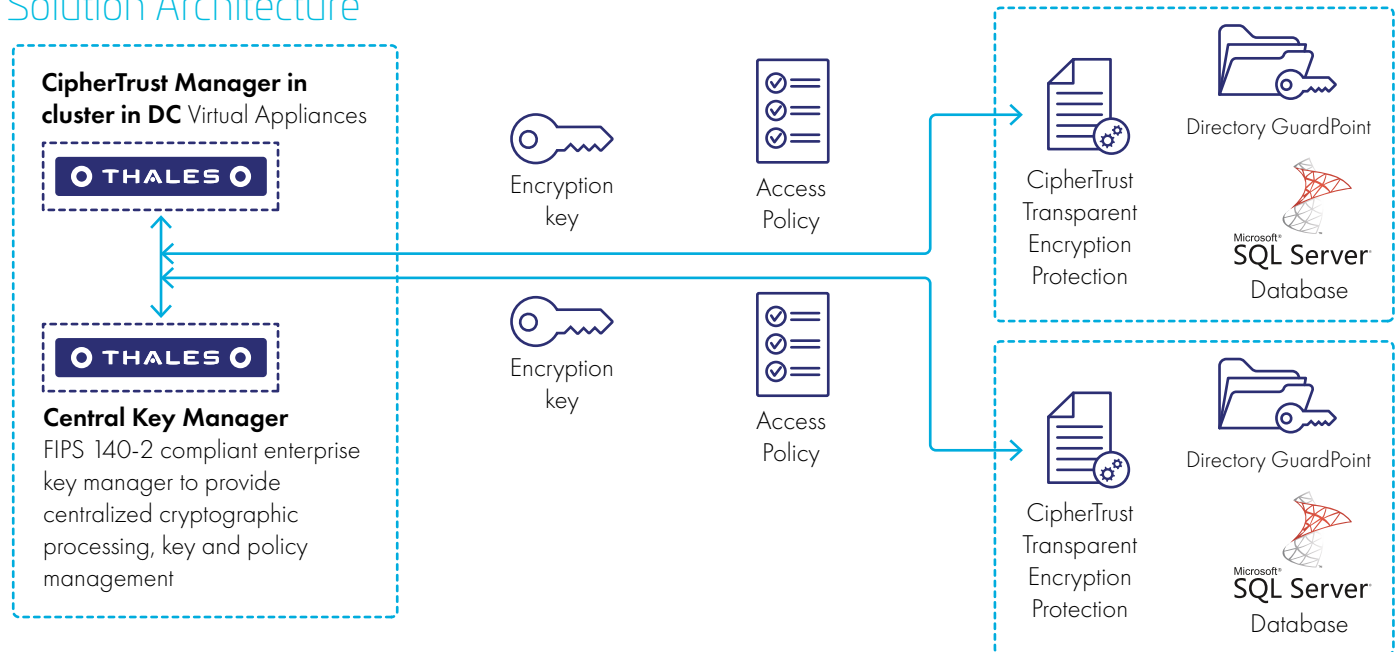
Aligning with the bank's objectives, the solution ensures transparent and continuous file-level encryption restricting unauthorised access by users and processes in physical, virtual, and cloud environments. The Live Data Transformation extension for CipherTrust Transparent Encryption further provides zero-downtime encryption and data re-keying. In addition, the security intelligence logs and reports streamline compliance reporting, thus speeding up threat detection using integrations with leading SIEM systems.

CipherTrust Manager

CipherTrust Manager is an industry-leading enterprise key management solution that enables organisations to centrally manage their encryption keys, provide granular access controls, and configure security policies. It effectively manages key lifecycle tasks including generation, rotation, destruction, import and export, runs role-based access controls, supports robust auditing and reporting, and offers developer-friendly REST APIs.

With a unified management console, CipherTrust Manager makes it easy to set access policies, discover and classify data, and protect sensitive data wherever it resides.

Solution Architecture

CipherTrust Manager in cluster in DC Virtual Appliances

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Central Key Manager
FIPS 140-2 compliant enterprise key manager to provide centralized cryptographic processing, key and policy management

Encryption key

Access Policy

Encryption key

Access Policy

CipherTrust Transparent Encryption Protection

Directory GuardPoint

Microsoft® SQL Server™ Database

CipherTrust Transparent Encryption Protection

Directory GuardPoint

Microsoft® SQL Server™ Database

The Results

Centralised Access Control

The deployment of CipherTrust Transparent Encryption gave data ownership and control back to the bank with comprehensive encryption, on-demand decryption, audit traceability, and support for existing systems.

It also stood true to their requirement of a security system that works seamlessly with both structured and unstructured information without any tangible impact on the performance.

Regulatory Compliance

The CipherTrust solutions have helped Hassan DCC Bank's entire information architecture inherently secure and ready to address regulatory mandates, compliance requirements, and industry best practices for data security.

Trusted Security

With the successful implementation of Thales's CipherTrust data security solutions, Hassan DCC Bank has become the first District Co-Operative Central Bank (DCC) to implement future-proof IT security solutions in Karnataka. The extended accountability of the organisation's sensitive data now stands as a benchmark for other DCC banks to follow.

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

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