

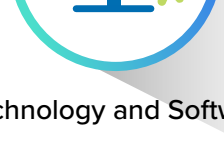
2019 GLOBAL ENCRYPTION TRENDS STUDY

Corporate data breaches are in the headlines on an almost daily basis, while business critical applications face malicious threats or are accidentally compromised by employee mistakes. Our study reveals the increased proliferation of encryption to protect data and hardware security modules (HSMs) to harden applications.

Encryption for data protection is on the rise:



SECTORS WITH HIGHEST ENCRYPTION USAGE



Technology and Software



Communications



Financial Services

COUNTRIES WITH HIGHEST ENCRYPTION USAGE



Germany



US



Australia

The challenges of encryption:

63%



of organizations have more than **6** products that perform encryption.

61%



of respondents rate the pain of encryption key management at **7** or higher on a **10** point scale.

1 = minimum impact, 10 = severe impact

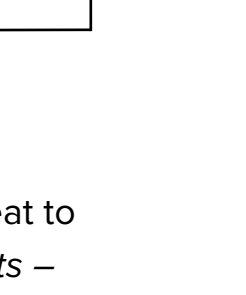


POLICY ENFORCEMENT

is rated as the most important feature of encryption solutions (**73%** of respondents rated higher than performance for the first time!)

DATA DISCOVERY

continues to be the biggest challenge in planning and executing a data encryption strategy (**69%** of respondents).



54%

Employee Mistakes

30%

External Hackers

21%

Malicious Insiders

EMPLOYEE MISTAKES

are by far the most significant threat to sensitive data (**54%** of respondents – more than external hackers and malicious insiders combined).



THE MOST IMPORTANT CLOUD ENCRYPTION FEATURES ARE:

73%

Support for the KMIP standard



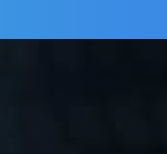
60%

SIEM integration



58%

Granular access controls



HSMs for application protection reach a new high:

HSM
(HARDWARE SECURITY MODULE)
USE GREW TO
47%

Highest year-over-year growth ever (up **6%** from **2018**)



14-YEAR HISTORY OF STUDY

A hardware security module (HSM) is a certified, trusted platform for performing cryptographic operations and protecting keys

HSM usage rates were highest in:



Financial Services



Retail



Education & Research



Technology & Software

COUNTRIES WITH HIGHEST HSM USAGE RATES



US



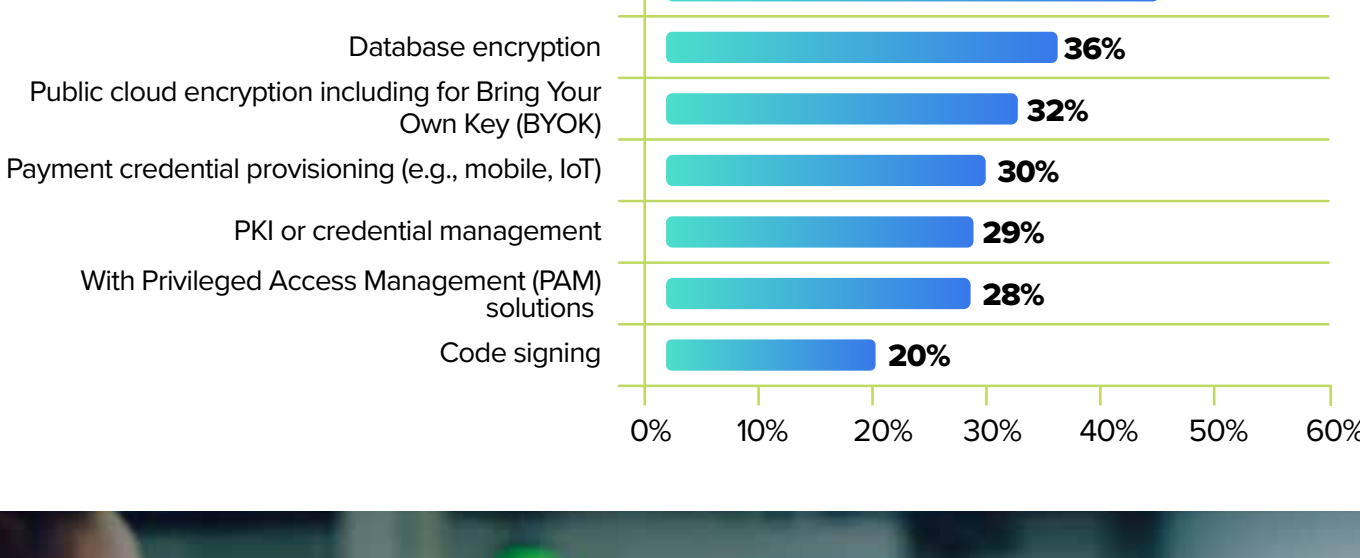
Germany



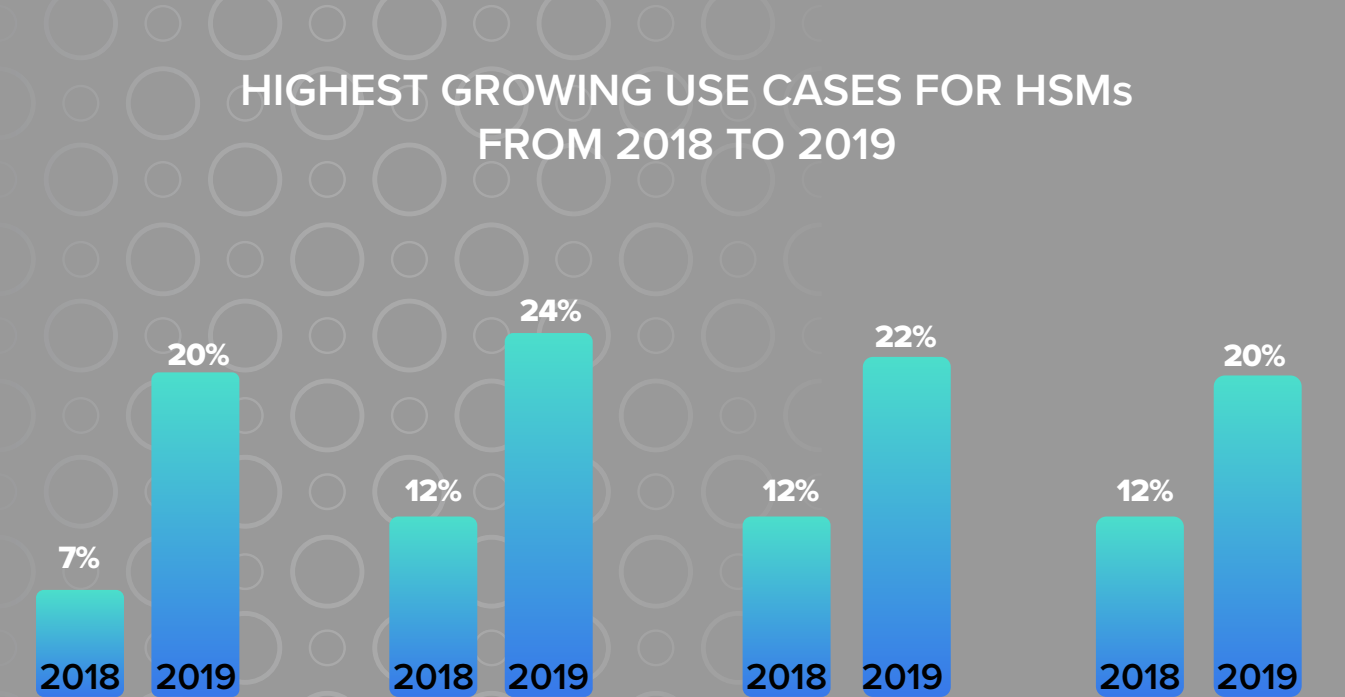
India

HSM use cases are varied:

TOP 8 USE CASES FOR HSMs IN 2019



HIGHEST GROWING USE CASES FOR HSMs FROM 2018 TO 2019



Overall importance of HSMs is growing:

THE IMPORTANCE OF HSMs TO AN ENCRYPTION OR KEY MANAGEMENT STRATEGY



Encryption for data security, HSMs for application protection – a proven combination that delivers trust, integrity and control.



CLICK TO DOWNLOAD THE FULL REPORT

Follow nCipher Security on:

