

2017 THALES DATA THREAT REPORT

Trends in Encryption and Data Security

MEXICO AND BRAZIL EDITION

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TRENDS IN ENCRYPTION AND DATA PROTECTION



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1,100+ SENIOR IT SECURITY EXECUTIVES SURVEYED GLOBALLY | 100 MEXICO | 500 U.S. | 100 BRAZIL, GERMANY, JAPAN, AUSTRALIA, U.K.



THE BIG DISCONNECT

“OUR 2017 REPORT FINDS A SITUATION WHERE SPENDING ON IT SECURITY IS SHARPLY INCREASED IN MEXICO – YET DATA BREACHES ARE ALSO UP SIGNIFICANTLY.”

“FUNDAMENTAL IT SECURITY STRATEGIES ARE ALSO NOT KEEPING UP WITH THE PACE OF TECHNICAL CHANGE. 75% OF MEXICAN RESPONDENTS INDICATED THAT NEW TECHNOLOGIES ARE DEPLOYED BEFORE DATA SECURITY IS IN PLACE”

“ CLEARLY, THERE’S STILL A BIG DISCONNECT.”

90%

OF MEXICAN RESPONDENTS FELT THEIR ORGANIZATIONS WERE VULNERABLE TO DATA THREATS

31%

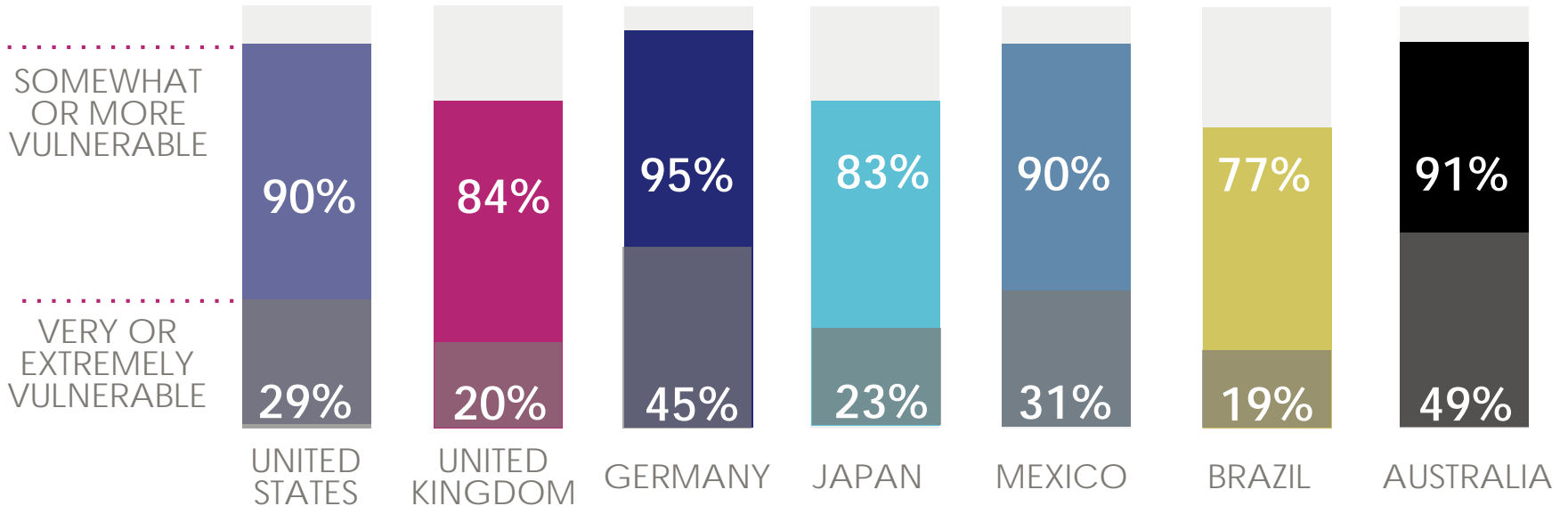
WERE VERY OR EXTREMELY VULNERABLE – MORE THAN 3X THE 10% RATE IN 2016

VULNERABILITY TO DATA THREATS

GLOBAL



REGIONAL



78%

HAVE EXPERIENCED
A DATA BREACH

- HIGHEST RATE MEASURED
- 34% IN THE LAST YEAR – UP FROM 10% IN 2016
- 19% WERE BREACHED BOTH THIS YEAR AND PREVIOUSLY

79%

EXPECT THEIR
SPENDING ON DATA
SECURITY TO
INCREASE

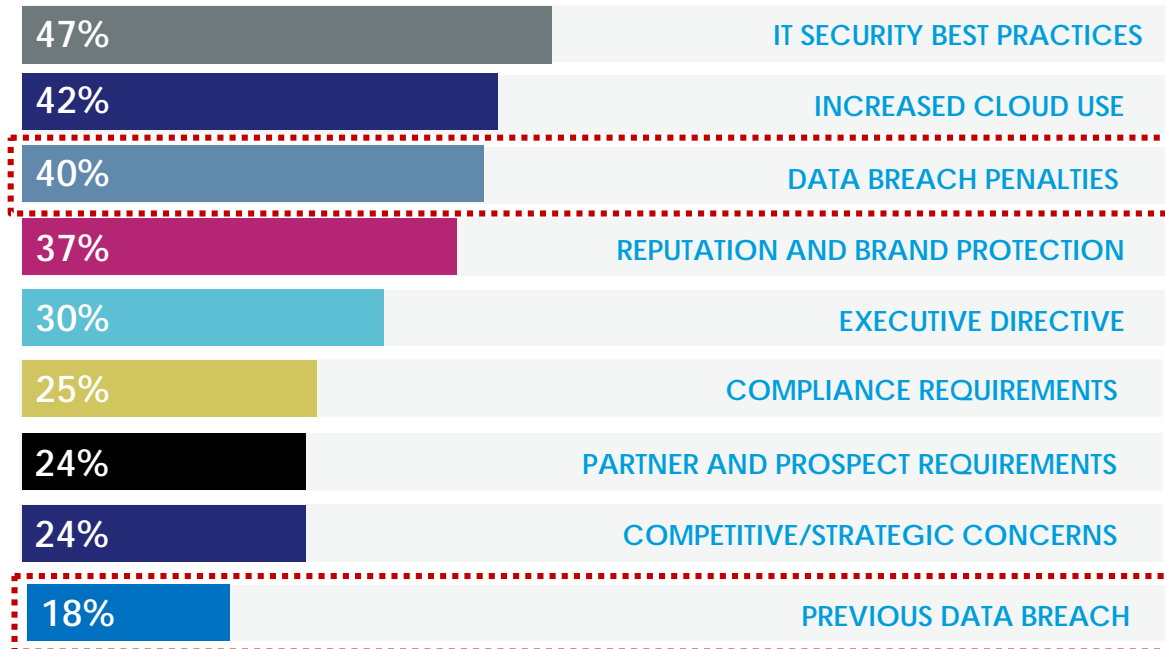
UP FROM 65% IN 2016



TOP DRIVERS FOR IT SECURITY SPENDING

EVEN WITH “LEY FEDERAL DE PROTECCIÓN DE DATOS PERSONALES EN POSESIÓN DE LOS PARTICULARES” IN PLACE – PREVENTING DATA BREACHES IS ONLY THE THIRD HIGHEST PRIORITY

IT SECURITY SPENDING PRIORITIES (RATES OF TOP 3 SELECTION)



DATA BREACH PREVENTION A LOWER PRIORITY IN SPITE OF FINES AND HIGHEST DATA BREACH RATES IN THE WORLD,

78%

HIGHEST RATE OF DATA BREACHES MEASURED

FINES UP TO 320,000 TIMES MEXICO CITY MINIMUM WAGE (LFPDPPP)

\$ 23M+ MXN

INCREASING SPENDING THE MOST WHERE DEFENSES OFTEN FAIL TO PROTECT DATA

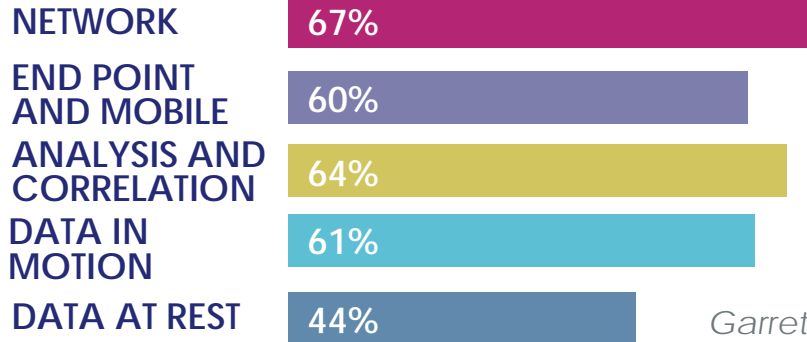
91%
+14% FROM 2016

BELIEVE NETWORK
SECURITY VERY/
EXTREMELY EFFECTIVE
AT PROTECTING DATA

77%
+15% FROM 2016

BELIEVE ENDPOINT
PROTECTION
VERY/EXTREMELY
EFFECTIVE AT
PROTECTING DATA

IT SECURITY DEFENSE SPENDING INCREASES



*Garrett Bekker,
451 Research*

“... spending on securing internal networks from external threats is less and less effective – and relevant – as both the data and the people accessing it are increasingly external.”

“... organizations keep spending on the same solutions that worked for them in the past but aren't necessarily the most effective at stopping modern breaches”

DATA PRIVACY AND SOVEREIGNTY

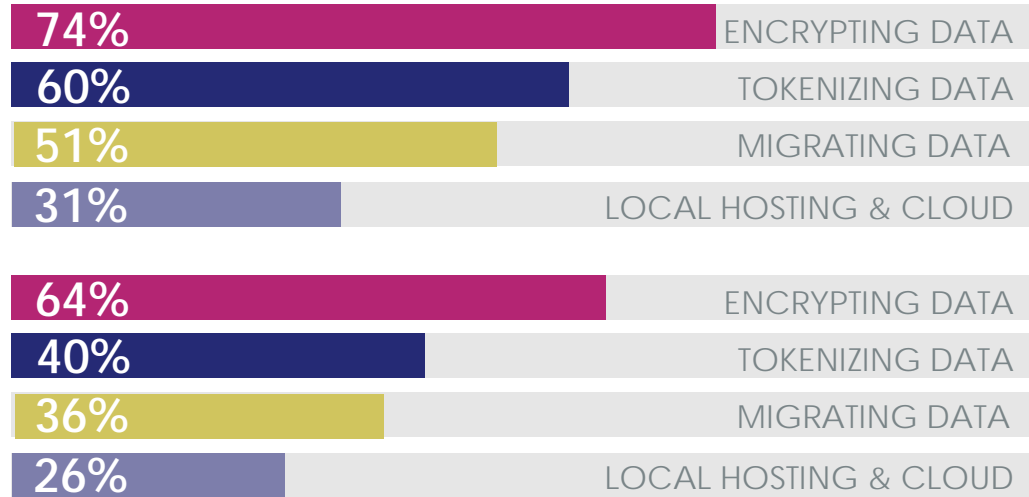
IMPACTING ENTERPRISES WORLDWIDE



79% - MEXICO
72% - GLOBAL

Impacted by Data Privacy and
Data Sovereignty

ADDRESSING REQUIREMENTS BY:



MEXICO

GLOBAL

“Data privacy has become a hot topic in light of concerns about government snooping, and not surprisingly a host of new privacy laws and regulations are in the process of being revised or enacted around the world, such as GDPR in Europe and LFPDPPP in Mexico.”

*Garrett Bekker
Principal Analyst
451 Research*

COMPLEXITY AND SKILL SHORTAGES

TOP BARRIERS TO DATA SECURITY DEPLOYMENT

PERCEPTION OF
COMPLEXITY
UNIVERSALLY THE TOP
BARRIER

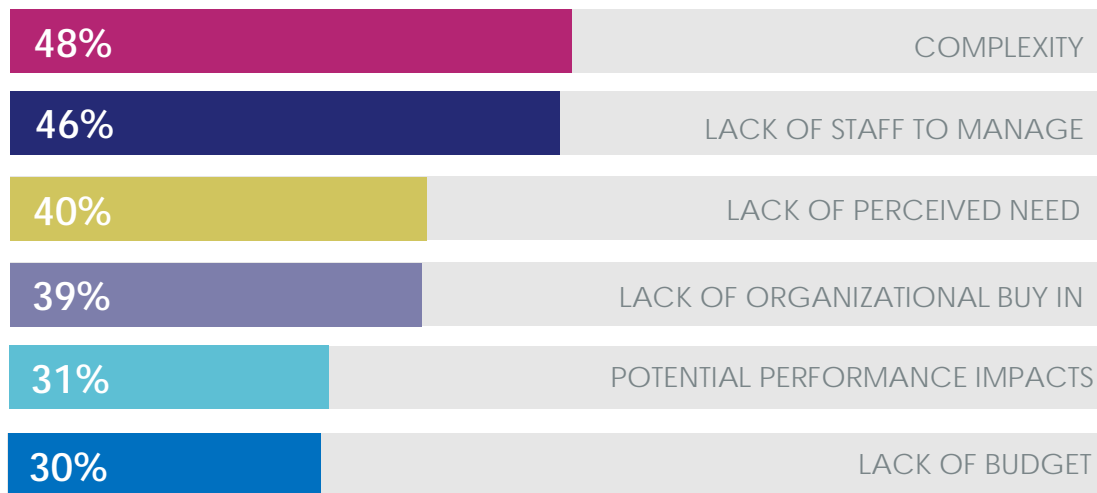
"...The lack of skilled security staff has been a consistent theme in 451's research efforts the past few years, and in conjunction with complexity, makes a strong case for data security functionality delivered as a service"

Garrett Bekker
451 Research

48%

-2% FROM 2016
GLOBAL – 50%

PERCEIVE
COMPLEXITY AS THE
TOP BARRIER TO
ADOPTION DATA
SECURITY



PERCEIVED BARRIERS TO ADOPTING DATA SECURITY

75%

OF ORGANIZATIONS SURVEYED ARE DEPLOYING NEW TECHNOLOGIES IN ADVANCE OF HAVING APPROPRIATE LEVELS OF DATA SECURITY IN PLACE

99%

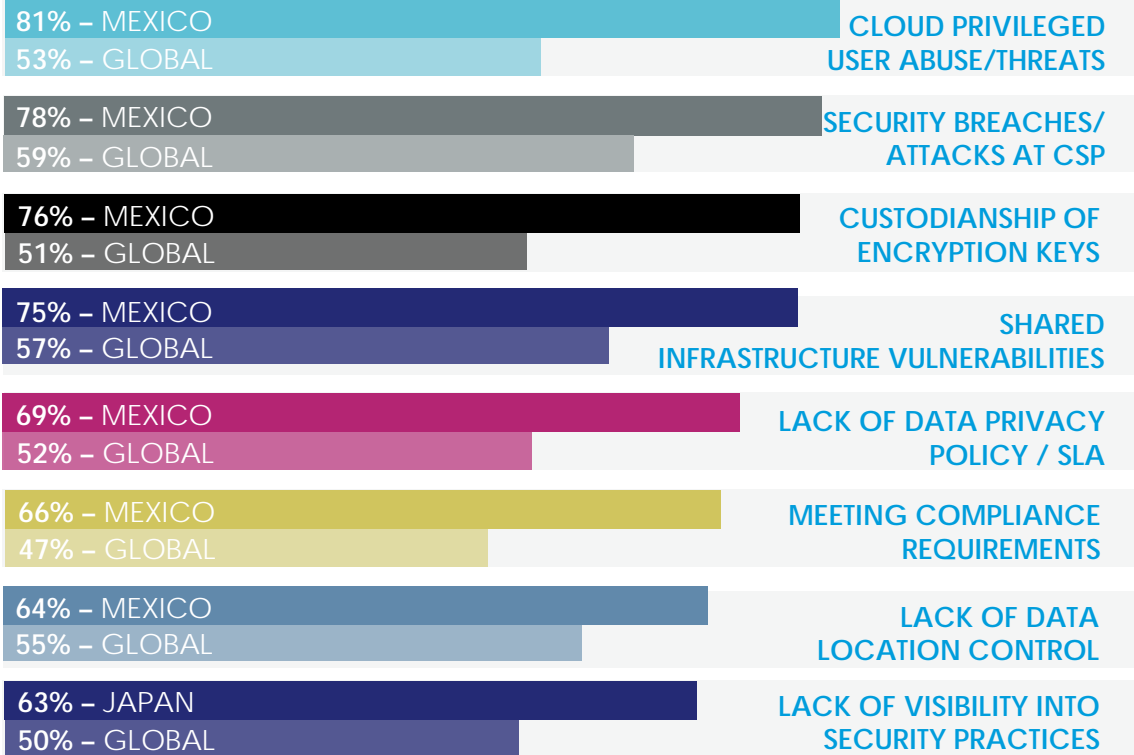
WILL USE SENSITIVE DATA IN AT LEAST ONE OF THESE ADVANCED TECHNOLOGY ENVIRONMENTS

RATES OF SENSITIVE DATA USE BY ENVIRONMENT TYPE



ENTERPRISE CONCERNS WITH CLOUD/SAAS ENVIRONMENTS

THREATS - RATES OF VERY OR EXTREMELY CONCERNED



CONCERNS WITH SENSITIVE DATA IN CLOUD ENVIRONMENTS

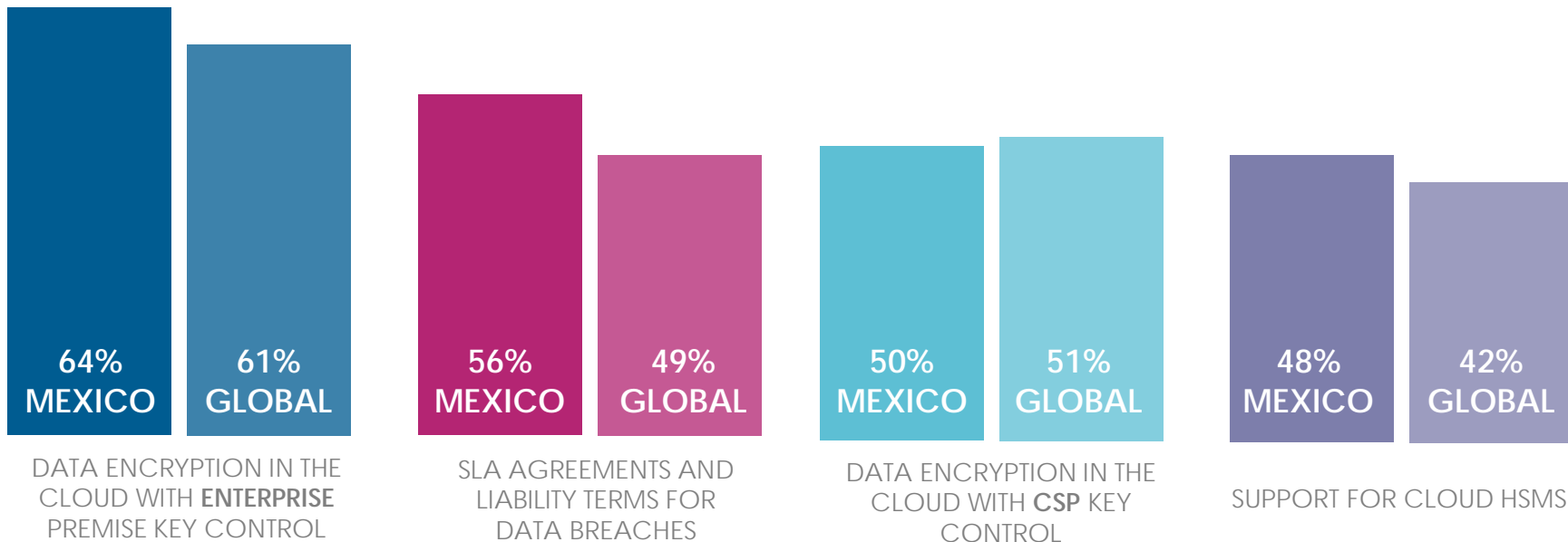
ARE ALSO HIGH, WITH OVER HALF OF RESPONDENTS LISTING THEM AS ENVIRONMENTS WHERE THEY ARE CONCERNED ABOUT USING SENSITIVE DATA

57% PAAS

56% SAAS

56% IAAS

WHAT CAN CSPs AND SAAS PROVIDERS DO TO INCREASE ENTERPRISE CLOUD ADOPTION IN MEXICO?

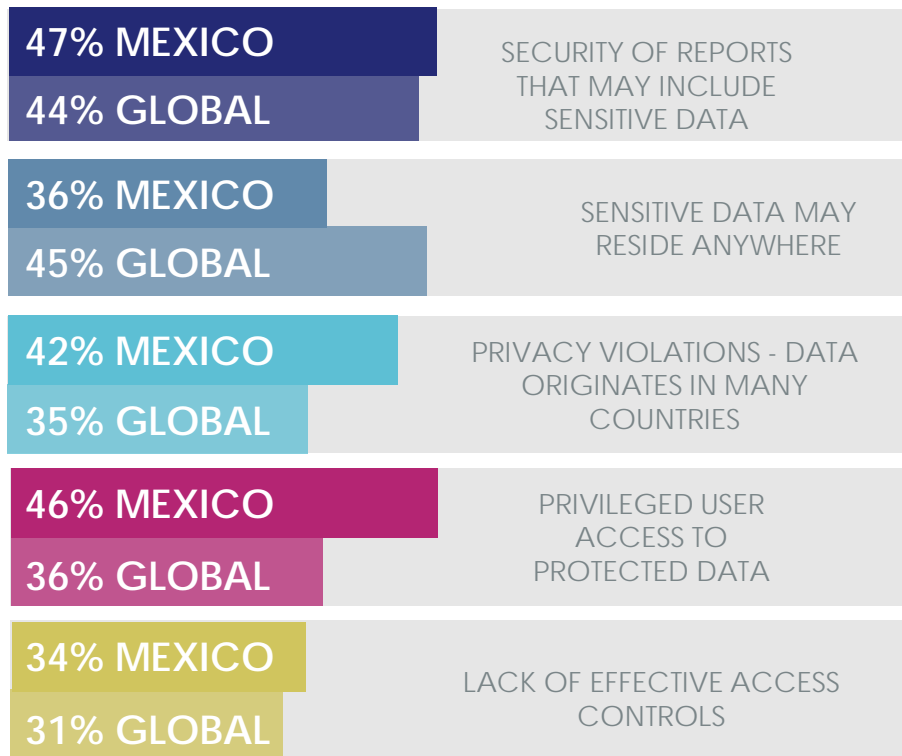


CONSISTENTLY THE FIRST OR SECOND CHOICE THAT WOULD INCREASE ENTERPRISE USE OF CLOUD WORLDWIDE IS ENCRYPTION WITH ENTERPRISE PREMISE KEY CONTROL



BIG DATA – TOP DATA SECURITY CONCERNS AND STATS

TOP 5 CONCERNS



ENTERPRISES IN MEXICO HAVE HIGH IOT ADOPTION

USE OF SENSITIVE DATA A CONCERN

95%

ADOPTING IOT
TECHNOLOGIES

27%

USING SENSITIVE
DATA IN IOT

32%

VERY CONCERNED ABOUT
SENSITIVE DATA IN IOT

TOP 5 DATA SECURITY CONCERNS FOR IOT

46% - PROTECTING SENSITIVE
DATA GENERATED BY IOT

37% - PRIVILEGED USER ACCESS
TO IOT DEVICES

32% - PRIVACY VIOLATIONS
FROM IOT DATA

30% - IDENTIFYING WHICH
DATA IS SENSITIVE

28% - IOT ATTACK OPS
IMPACT

TOP 5 CONTROLS NEEDED TO INCREASE IOT ADOPTION

67% SECURE ID AND
AUTHENTICATION

58% - IOT NETWORK
ISOLATION

57% - ENCRYPTION OF DATA

52% - ANOMALY DETECTION/
BEHAVIORAL ANALYSIS

51% - ANTI-MALWARE
FOR DEVICES

TOP SECURITY CONTROLS NEEDED TO INCREASE CONTAINER ADOPTION AND USE IN MEXICO

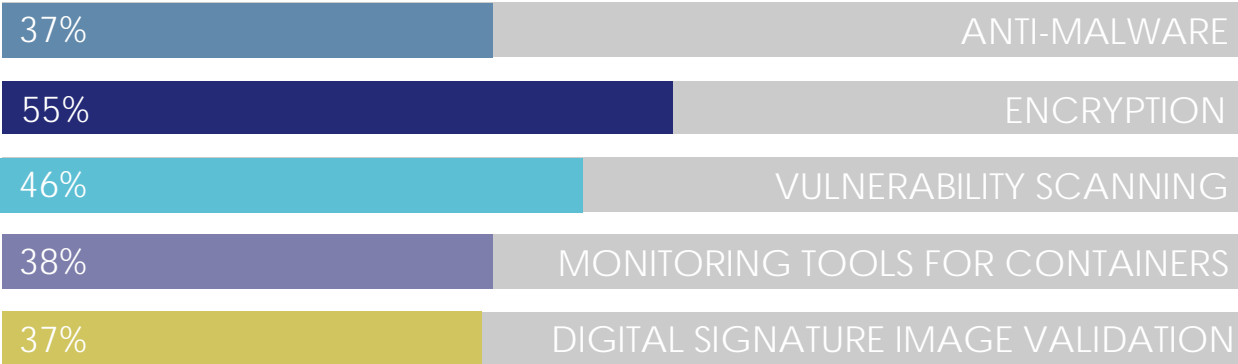
97%

PLAN TO DEPLOY
CONTAINER
TECHNOLOGY BY
END OF 2017

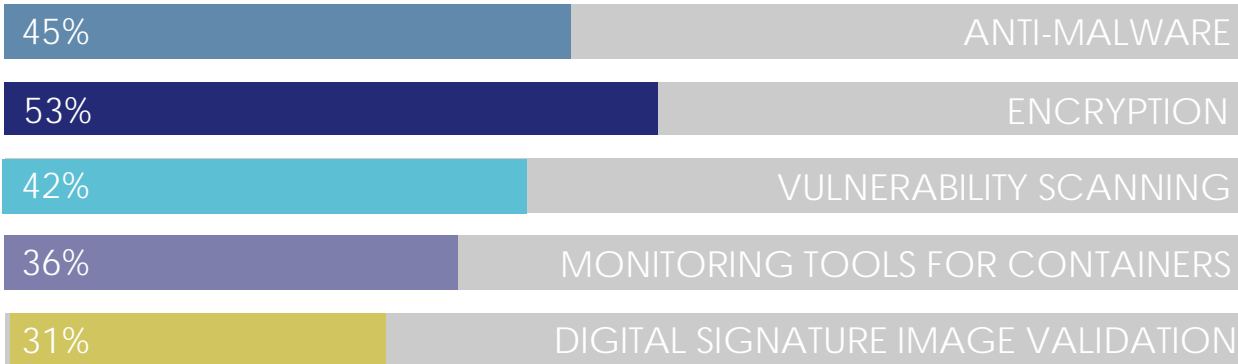
47%

SECURITY THE TOP BARRIER
TO CONTAINER
DEPLOYMENT

MEXICO

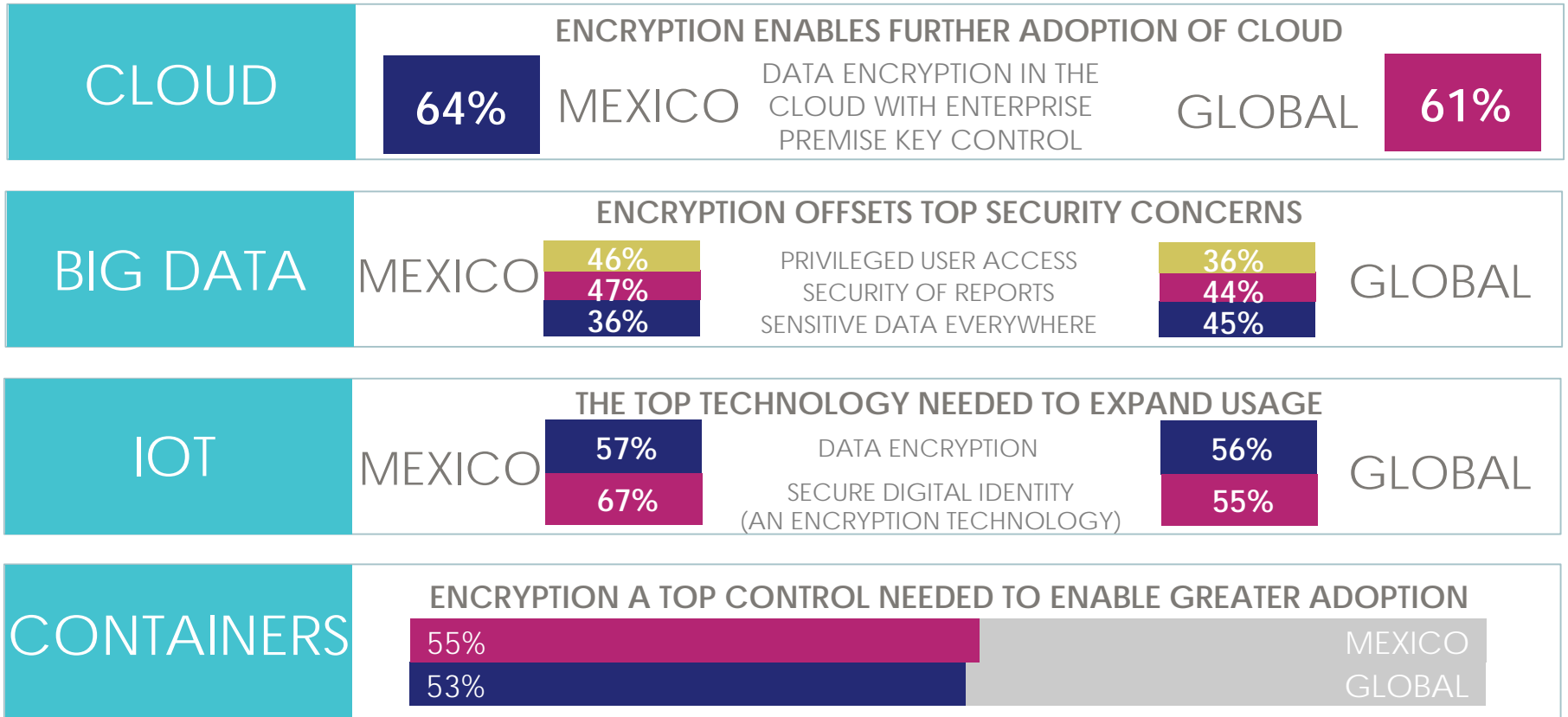


GLOBAL



ENCRYPTION ENABLES DIGITAL TRANSFORMATION

A KEY TOOL REQUIRED FOR ADVANCED TECHNOLOGY ADOPTION



BEST PRACTICE RECOMMENDATIONS

GARRETT BEKKER, 451 RESEARCH

Re-prioritize your IT security tool set

Cloud and SaaS break legacy IT Security models – Data security with encryption and access controls across environments is required. Service-based solutions and platforms that include automation are preferred for reduced costs and simplicity.

Discover and classify

Get a better handle on the location of sensitive data, particularly for Cloud, Big Data, Containers and IoT

Don't just check off the compliance box

Global and industry regulations can be demanding, but agencies should consider moving beyond compliance to greater use of encryption and BYOK, especially for cloud and other advanced technology environments.

Encryption and access control

Encryption needs to move beyond laptops and desktops.

Data center: File and application level encryption and access controls

Cloud: Encrypt and manage keys locally, BYOK enables safe SaaS, PaaS and IaaS

Big Data: Encryption and access control within the environment

Containers: Encrypt and control access to data both within containers and underlying data storage locations

IoT: Use secure device ID and authentication, as well as encryption of data at rest on devices, back end systems and in transit to limit data threats

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ABOUT THALES E-SECURITY

■ Instilling trust across the data landscape

Our powerful technology platform provides advanced data security for more servers, applications, and environments than any other security alternative

■ What we do

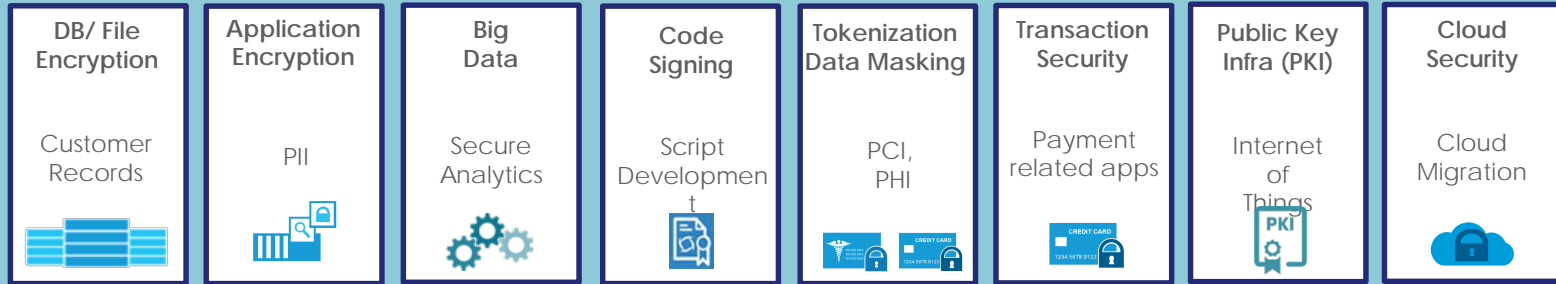
Thales e-Security provides companies everything they need to protect and manage their data and scale easily to new environments and requirements—encryption, advanced key management, tokenization, authorization, privileged user control, and HSMs.

■ Our customers

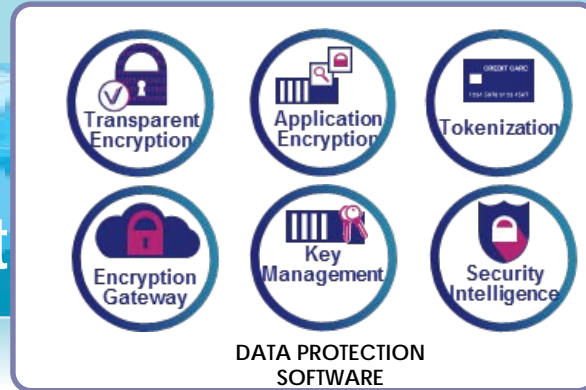
Our customers include 19 of the world's 20 largest banks, four of the world's five largest oil companies, 27 NATO country members and 15 of the Fortune 25.



Our solutions protect data while eliminating complexity, inefficiency and cost



Use Cases



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