WHERE TRUST BEGINS

PROTECTING THE CONNECTED ECOSYSTEM

The connected computing reality has changed our lifestyles while creating new needs and expectations. While constant Internet access offers many benefits, including instant access to data and connectivity among many kinds of devices, there are downsides.

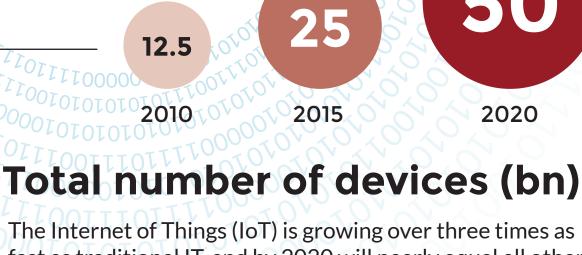


According to IDC, in 2013 there were almost as many bits

of data in the Digital Universe as known stars in the physical universe, and by the year 2020 the Digital Universe is expected to reach 44 Zb

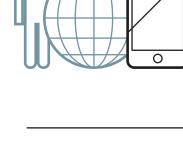
(ten times the size of 2013)

Contributing significantly to the vast streams of data created today are increasing numbers and kinds of devices. According to



fast as traditional IT, and by 2020 will nearly equal all other IT spending. Research conducted by Cisco Systems indicates

as many as 50 billion installed connected things by 2020.



exceed the world population in 2014. Most of that data (about 2/3) is created by the individual consumer, but 85% of all the content falls within the responsibility of the enterprises acting as owners/custodians of:

estimates, the number of mobile phones will



reach the 2 billion mark next year.

26.5%

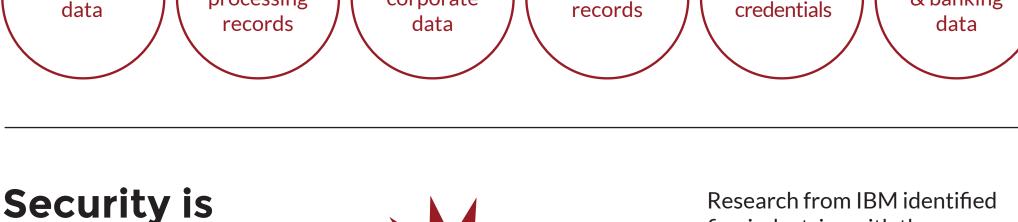
Computers

in use will

personal data

85%

payment proprietary financial medical authentication processing corporate & banking credentials records records data data





mission critical

2005, the Privacy Rights Clearinghouse reports that 536,508,478 records have been breached from unencrypted drives that were lost, stolen or hacked.

Consider the Heartbleed

breach at Target and the

recently reported eBay

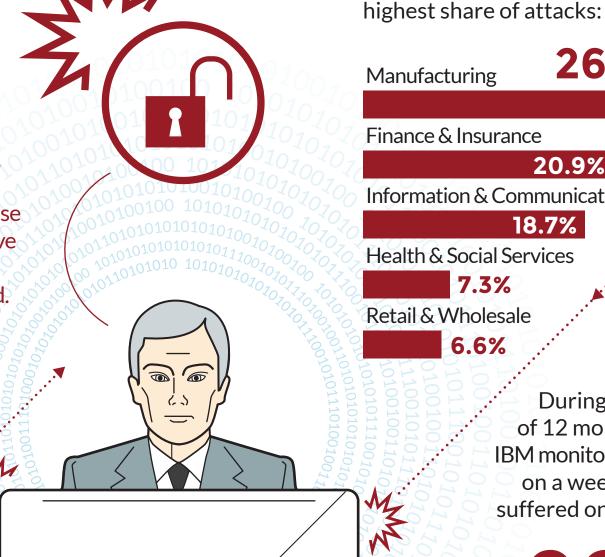
phishing scams. It turns out

vulnerability, the massive data

almost half of the attacks are classified as opportunistic - an attack that takes advantage of existing vulnerabilities or weaknesses without any specific motivation. Furthermore, IBM ranks the human factor as the most prevalent element contributing to vulnerability of an average organization: 42% misconfigured

system or application

3.32



31%

targeted attack -

(exploited)

20.9% Information & Communication 18.7%

five industries with the

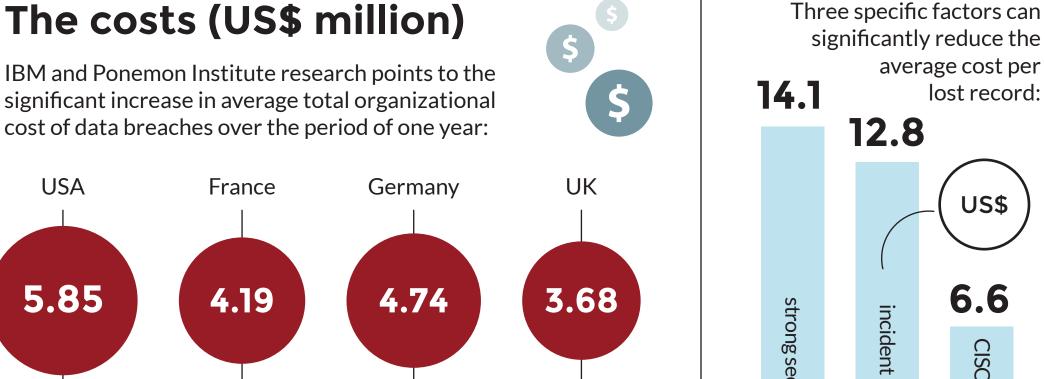
7.3% Retail & Wholesale 6.6% During a period of 12 months, any IBM monitored client on a weekly basis

> security incidents 15%

> > undetermined

suffered on average

malicious attacks



1.64

Trust for Devices and Transactions

6%

end-user -

1.59

error

vulnerable

code

The big chunk of it relates to the average "lost business" cost

The Trusted Computing Group (TCG) enables a

its open, vendor-neutral industry specifications

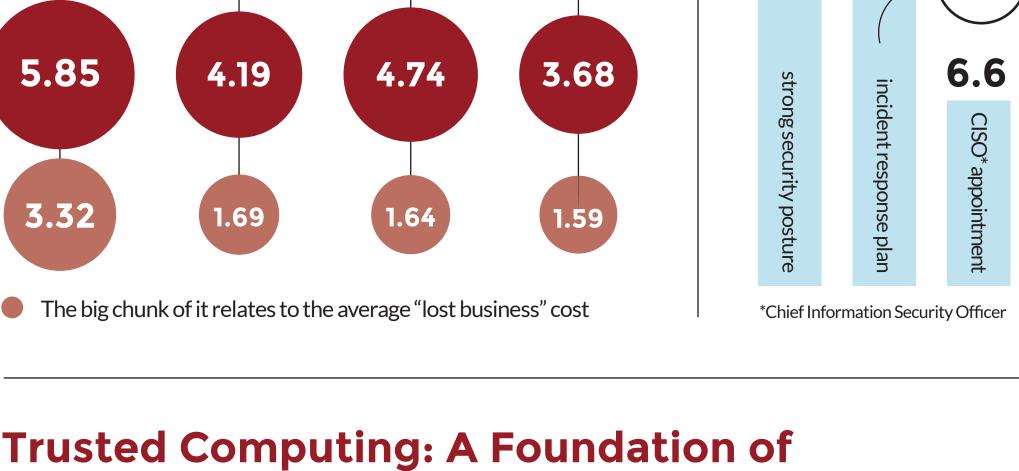
include the TPM for establishing a root of trust,

secure foundation for all types of computing;

as well as software interface specifications

across multiple platforms and operating

1.69



520

Self-encrypting drive

on TCG specifications

encryption and access

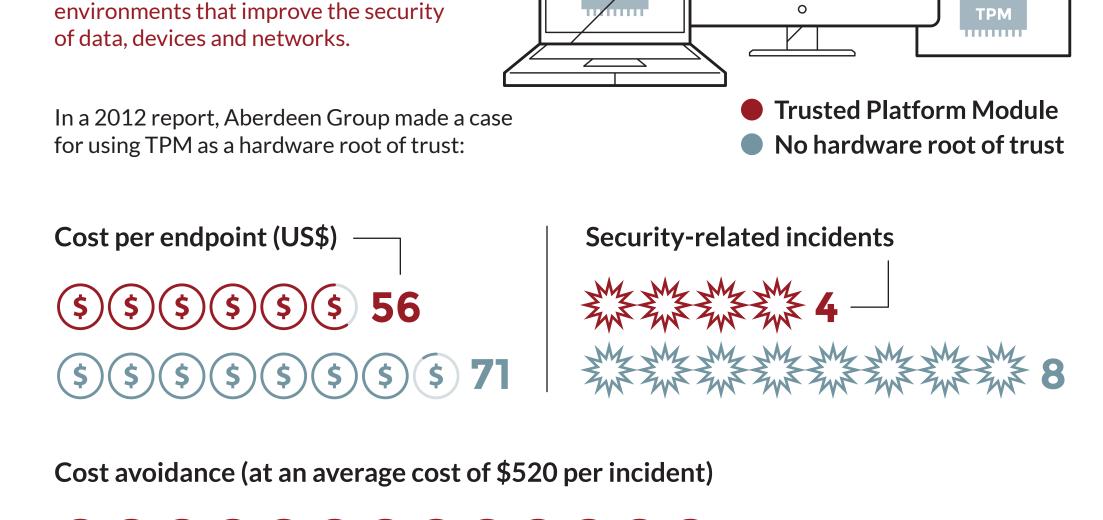
SED solutions based

enable integrated

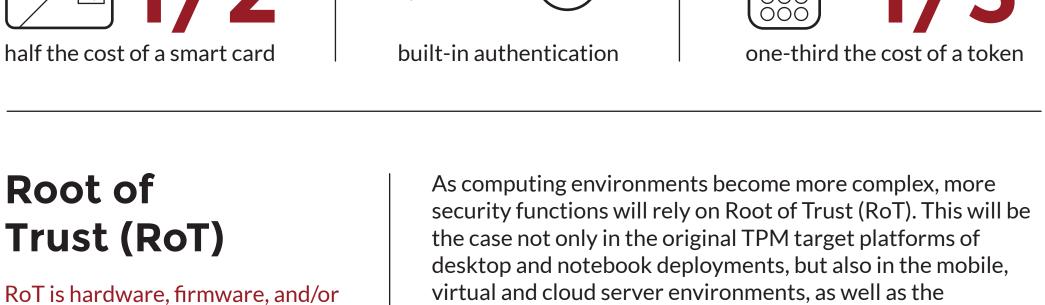
control within the

protected hardware

4



Data, devices and networks are insecure. The TPM provides embedded security including:



TPM Mobile

TPM Mobile offers a

transaction, secure

storage of keys and

integrity assurance

certificates and

hardware root of trust

in the device for secure

Cloud Computing

trust, exchange information about

the platforms they use and assure

With that in mind, TCG offers a broad

Pervasive

Not just in

PCs, but in a

wide range

of devices,

deployment of

TCG technology

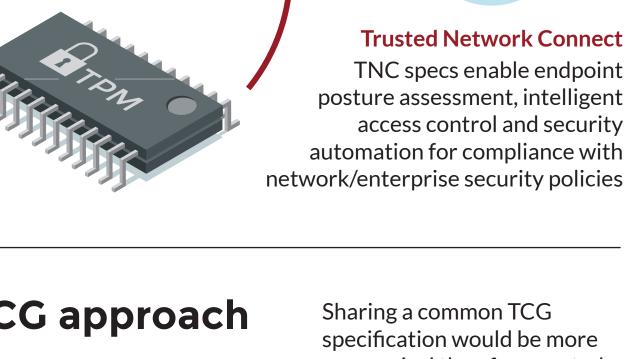
compliance to agreed policies

Trusted Computing concepts allow cloud users to establish

software that is inherently trusted

to perform a vital security function.

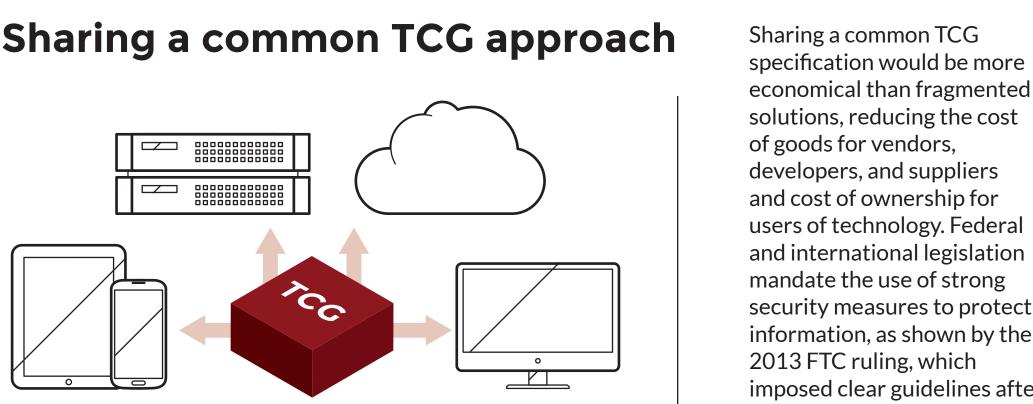
Some of the TPM



of the drive applications devised and endorsed by the members of TCG

embedded computing space and IoT devices ranging from

cars to factories to appliances and more.



foundation of support for now and the future: The evolution of trusted computing and TCG:

Expand trusted

computing to

virtualization,

the more

complex

systems

Servers,

mandate the use of strong security measures to protect information, as shown by the 2013 FTC ruling, which imposed clear guidelines after a "failure to take reasonable steps to secure the software it developed placed sensitive information about millions of consumers at risk". Connect **Build** networks resilient security and systems

Create

a robust,

proactive

security

standards-based

ecosystem for

including mobile the Cloud networking storage, and the cloud secure I/O infrastructure JOIN the quest to develop and promote trusted computing

Creation

of the

trusted

platform

BIOS, TXT,

operating

systems,

TRUSTED **COMPUTING GROUP**[™]

Including

of Things

(IoT) and

the Internet

technologies, and become a part of the global circle of trust. SOURCES: Abderdeen Group, Bloomberg, Cisco Systems, ComputerWorld, Ericsson, Federal Trade

Commission, Forbes, IBM, IDC, Ponemon Institute,

Trusted Computing Group, Verizon, Wall Street Journal