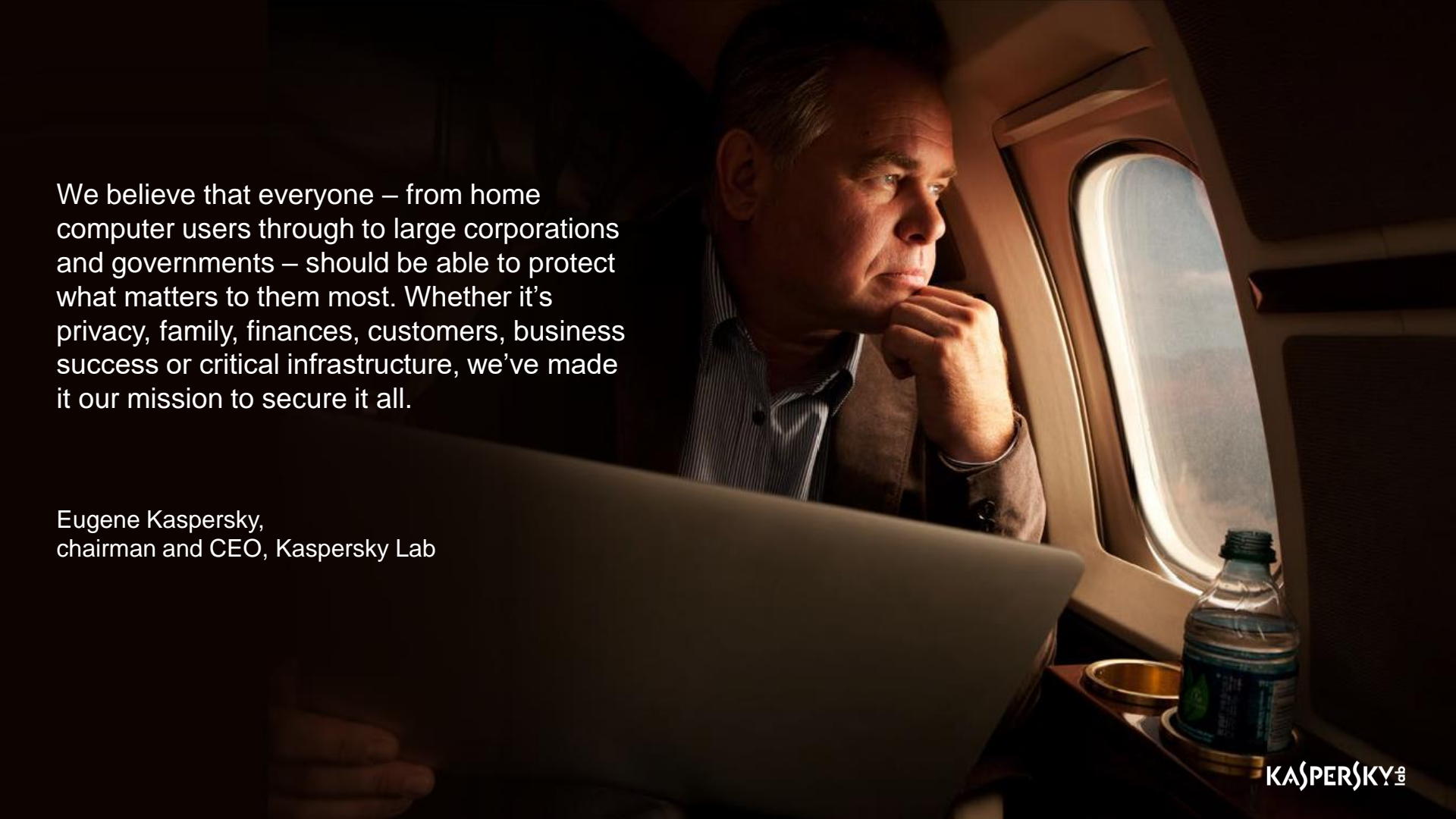


# RANSOMWARE IN ANZ

*Noushin Shabab*

*Senior Security Researcher at Global Research and Analysis Team ANZ*

A man, Eugene Kaspersky, is shown in profile, looking out of an airplane window. He is resting his chin on his hand, appearing thoughtful. The scene is dimly lit, with light coming from the window. A water bottle is visible on a tray table in the foreground.

We believe that everyone – from home computer users through to large corporations and governments – should be able to protect what matters to them most. Whether it's privacy, family, finances, customers, business success or critical infrastructure, we've made it our mission to secure it all.

Eugene Kaspersky,  
chairman and CEO, Kaspersky Lab

# EXPERTISE

1/3

of our employees  
are R&D  
specialists

325,000

new malicious files  
detected by Kaspersky Lab  
every day

40

world-leading  
security experts –  
our elite group



Our Global Research and Analysis Team of security experts constantly explore and fight the most advanced cyberthreats.

# OUR ROLE IN THE GLOBAL IT SECURITY COMMUNITY



We participate in joint operations and cyberthreat investigations with the Global IT security community, international organisations such as INTERPOL and Europol, law enforcement agencies and CERTs worldwide



We hold regular training courses for INTERPOL and Europol officers and the police forces of many countries, e.g. City of London Police



We provide expert speakers at conferences around the globe, e.g. World Economic Forum in Davos



We host the annual Kaspersky Lab Security Analyst Summit which brings together the world's best IT security experts

# AGENDA

- What is ransomware?
- History
- Classifications of ransomware
- Propagation and Acceleration
- Ransomware in ANZ
- How to prevent ransomware?
- No more ransom!

# WHAT IS RANSOMWARE?

# WHAT IS RANSOMWARE?

Ransomware is a type of malware that attempts to extort money from a user by infecting and taking control of the victim's machine or the files or documents stored on it.



Typically, ransomware will either lock the computer to prevent normal usage or encrypt the documents and files on it to prevent access to saved data

# HISTORY OF RANSOMWARE.



# FIRST RANSOMWARE

Dear Customer:

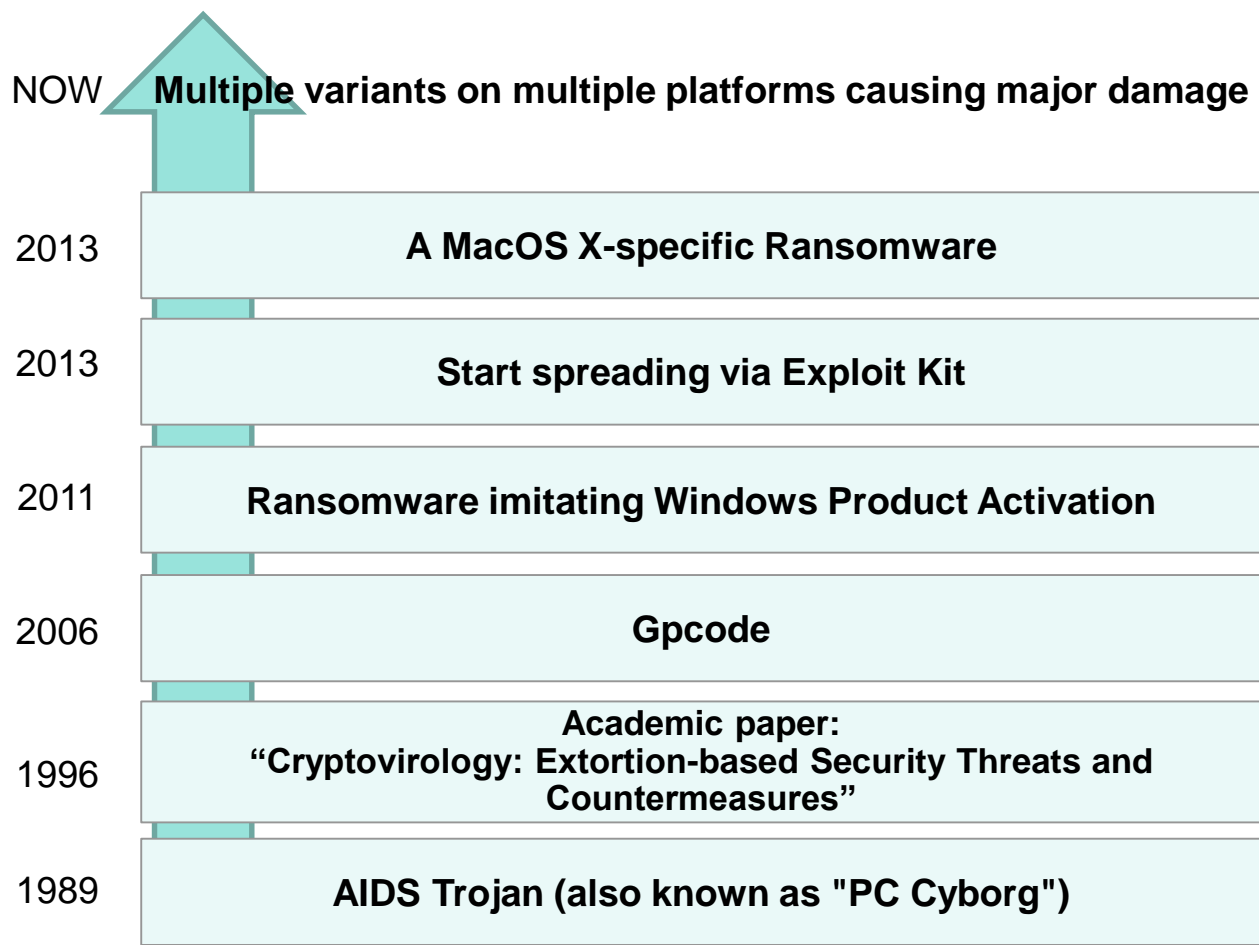
It is time to pay for your software lease from PC Cyborg Corporation. Complete the INVOICE and attach payment for the lease option of your choice. If you don't use the printed INVOICE, then be sure to refer to the important reference numbers below in all correspondence. In return you will receive:

- a renewal software package with easy-to-follow, complete instructions;
- an automatic, self-installing diskette that anyone can apply in minutes.

Important reference numbers: A5599796-2695577-

The price of 365 user applications is US\$189. The price of a lease for the lifetime of your hard disk is US\$378. You must enclose a bankers draft, cashier's check or international money order payable to PC CYBORG CORPORATION for the full amount of \$189 or \$378 with your order. Include your name, company, address, city, state, country, zip or postal code. Mail your order to PC Cyborg Corporation, P.O. Box 87-17-44, Panama 7, Panama.

Press ENTER to continue



# TYPES OF RANSOMWARE



➤ Screen Locker



➤ Mobile device  
Ransomware(Android)



➤ Ransomware  
encrypting web servers



➤ Encryption Ransomware

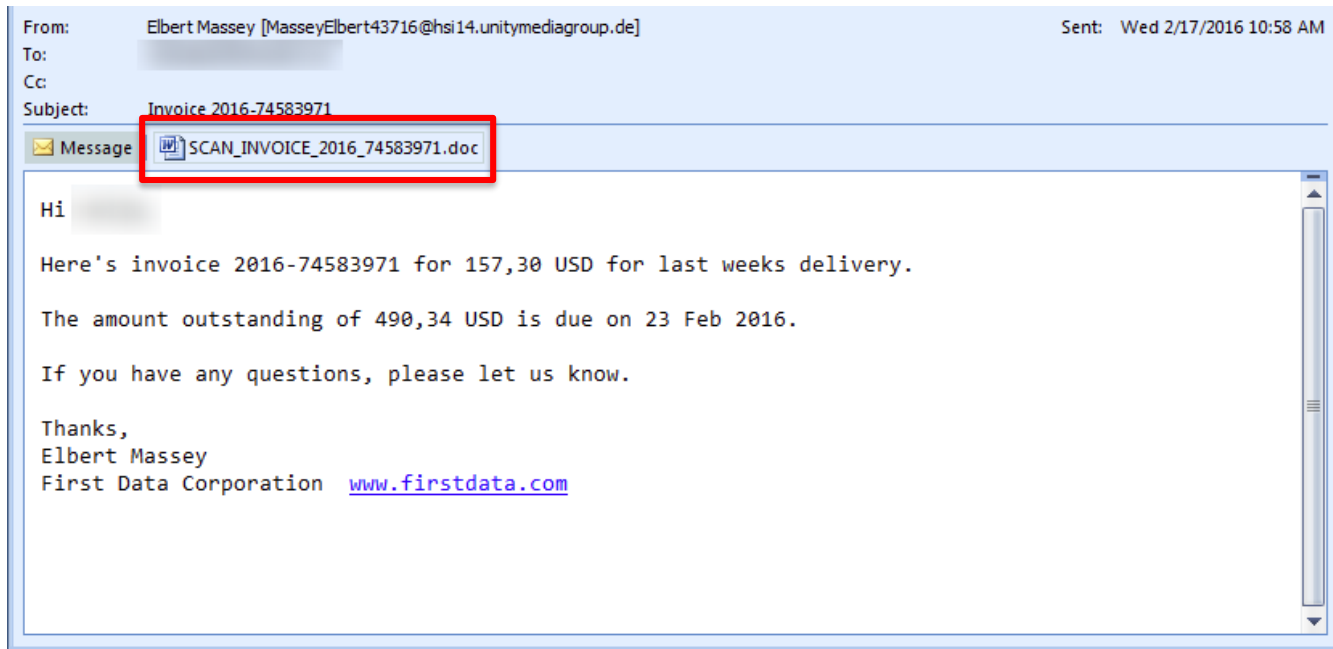
# PROPERGATION AND ACCELERATION

# PROPAGATION METHODS

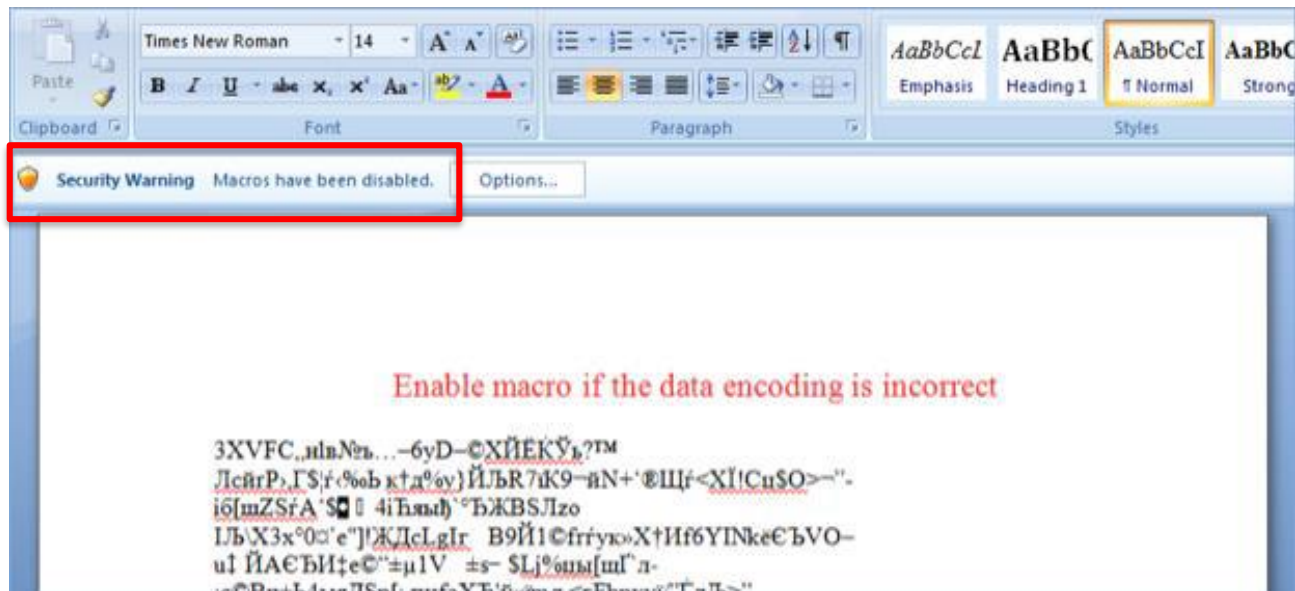
- Infected websites
- Malvertising
- Emails
- Instant Message
- Social Networks



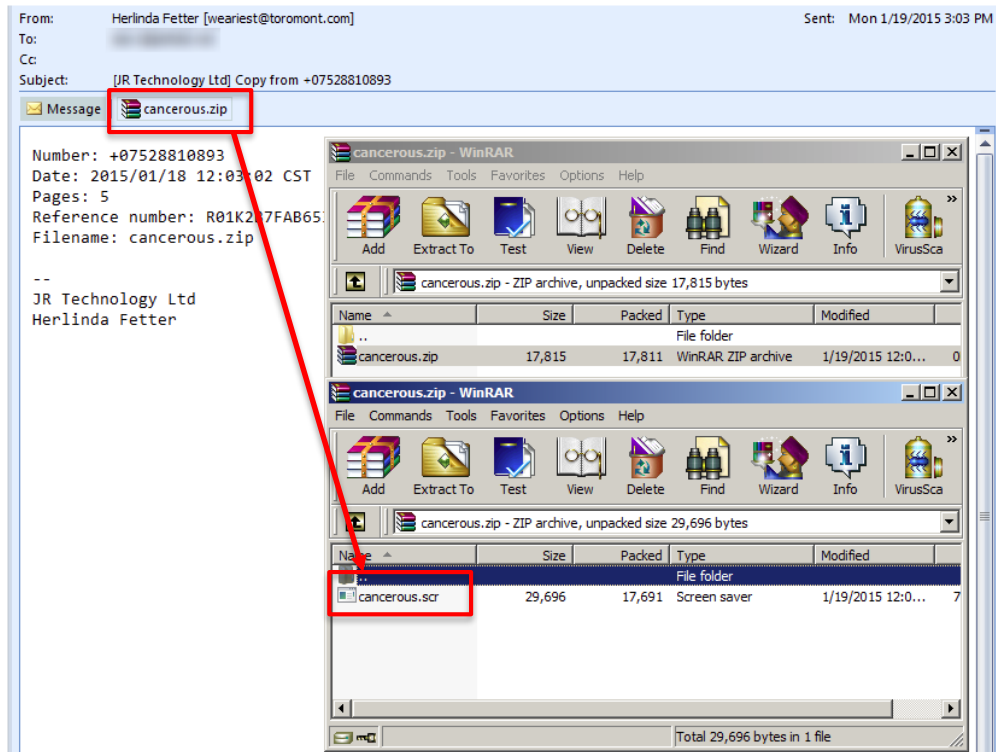
# EMAIL WITH MS OFFICE DOCUMENT ATTACHMENT



# TRICKS TO MAKE USERS ENABLE DOCUMENT MACROS



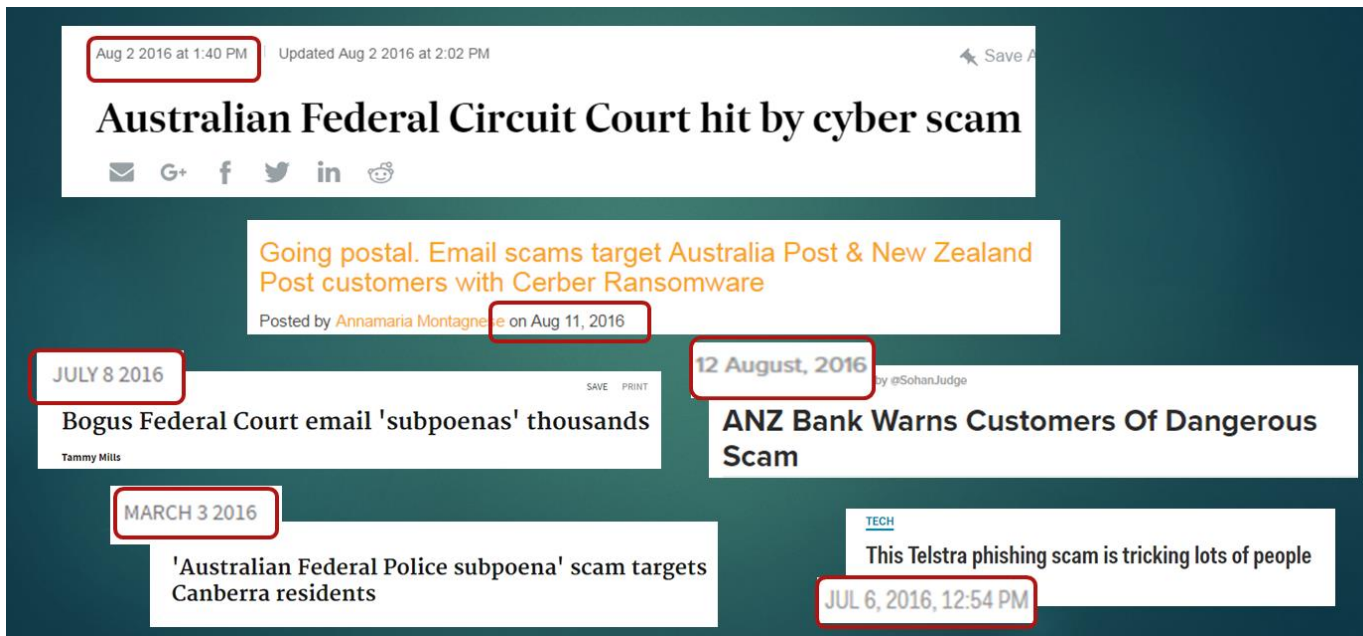
# EMAIL WITH ARCHIVED EXECUTABLE






# EXAMPLES IN AUSTRALIA AND NEW ZEALAND

# SCAM EMAIL HEADLINES IN AUSTRALIA



# SCAM EMAILS ON THE FEDERAL COURT



The Federal Court of Australia uses information technology to increase the effectiveness, efficiency and accessibility of the Court.

## You've been subpoenaed

The subpoena has been ordered to you. You have to attend a court to testify ("see Part C for details of order). The subpoena directs you to arrive on 19/07/2016 at 11:30. The factual date and time of your presence may be scheduled at different time.

Please contact Adam Aronson for the time of your appearance.

Your Ref: 67 -  
Case Number: 749598/11  
Our Ref: 693723  
Issue Date: 89 -  
77813/6  
05/07/2016

<http://sdcarpetcleaningservices.com/hackko/dyxttnj.php>  
Click to follow link

Here you can get all case related information and court address.

*If you don't comply with a subpoena, a court may issue a warrant for your arrest, and order you to pay any costs caused by your non-compliance. A court may also find you guilty of contempt of court.*

*A Form 36 subpoena to produce documents or to produce documents and attend Court to give evidence must be filed at least 14 days before the hearing date.*

© Copyright The Federal Court of Australia



 **FEDERAL CIRCUIT COURT OF AUSTRALIA**

About usJudgmentsForms & FeesReports & PublicationsFamily Law mattersGeneral

Home / Find a case

## Find a Case

SHARE:   

**FIND A CASE**

- Introduction
- Acts
- Information Notices
- Practice Directions
- Regulations
- Rules

**Please enter your case number:**

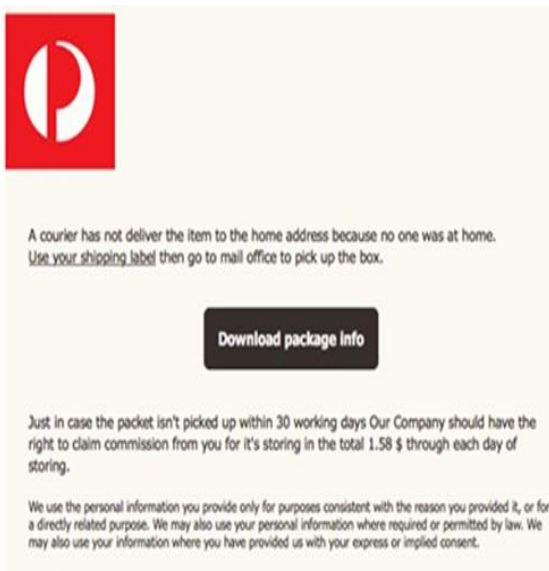
**Security check code:**



**Security check code**

Enter the numbers and letters displayed

# SCAM EMAILS ON THE ANZ POST



**CHECK YOUR PACKAGE**

The mailman has not bring your item to the home thus recipient was away. Print out shipping label and go to mail office to collect your package.

**View label**

Just in case the box isn't accepted within 30 working days NZPost may have the reason to claim reimbursement from you for it's helping to keep in the sum of 2.04 \$ through each hour of storing.

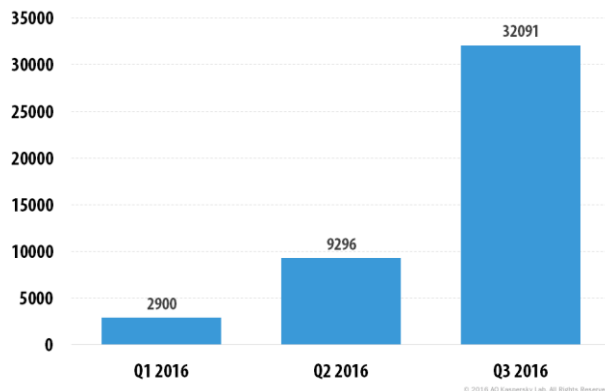
# INFECTION VECTOR



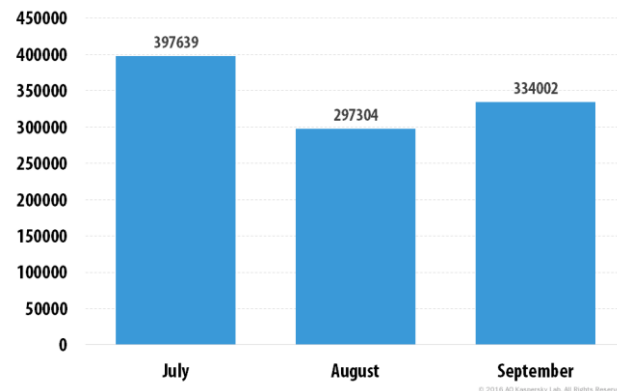
# STATISTICS ON RANSOMWARE

# RANSOMWARE IN Q3

- The overall number of cryptor modifications in our malware collection to-date is at least 26,000. 21 new cryptor families and 32,091 new modifications were detected in Q3 2016.
- In Q3 2016, **821,865** unique users were attacked by cryptors – **2.6** times more than in the previous quarter.



Number of new cryptor samples in our collection



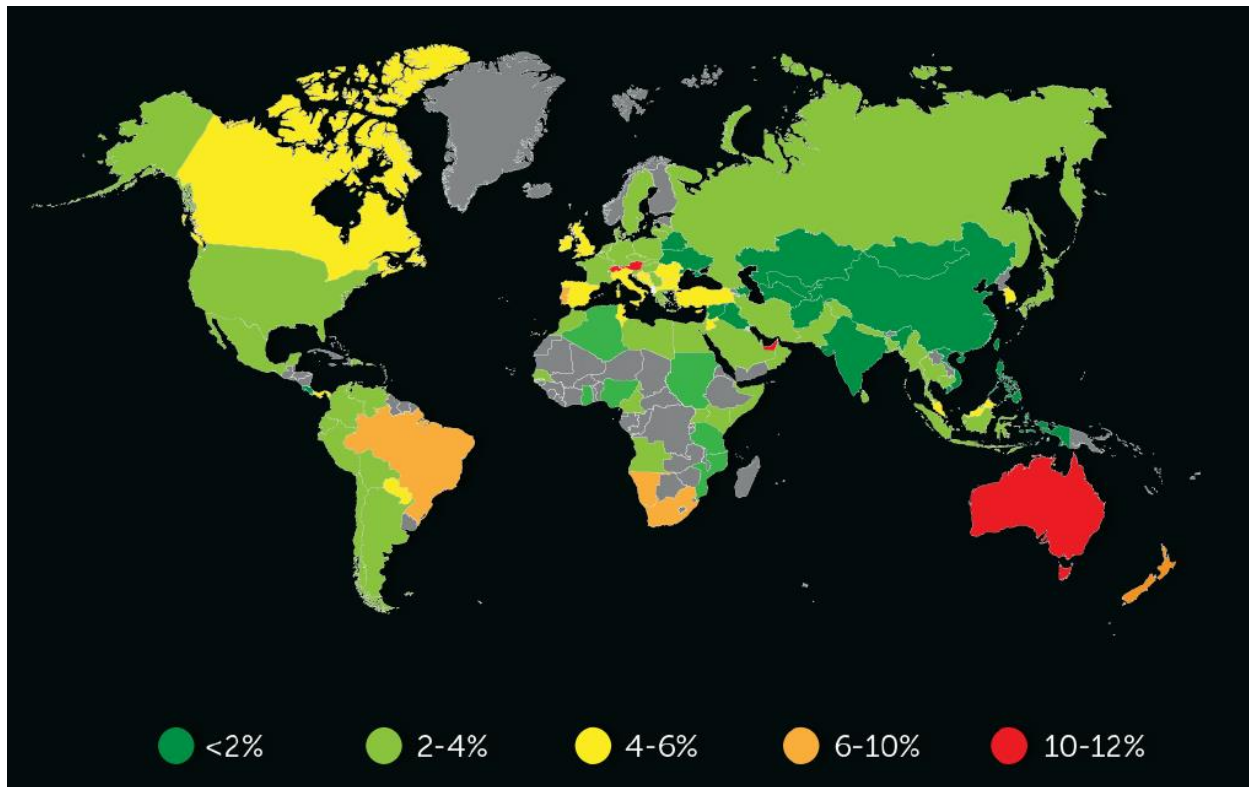
Number of users attacked by ransomware

# TOP 10 CRYPTORS Q3

	Name	Verdict*	% of attacked users**
1	CTB-Locker	Trojan-Ransom.Win32.Onion/ Trojan-Ransom.NSIS.Onion	28.34
2	Locky	Trojan-Ransom.Win32.Locky	9.60
3	CryptXXX	Trojan-Ransom.Win32.CryptXXX	8.95
4	TeslaCrypt	Trojan-Ransom.Win32.Bitman	1.44
5	Shade	Trojan-Ransom.Win32.Shade	1.10
6	Cryakl	Trojan-Ransom.Win32.Cryakl	0.82
7	Cryrar/ACCDFISA	Trojan-Ransom.Win32.Cryrar	0.73
8	Cerber	Trojan-Ransom.Win32.Zerber	0.59
9	CryptoWall	Trojan-Ransom.Win32.Cryptodef	0.58
10	Crysis	Trojan-Ransom.Win32.Crusis	0.51



# MAP OF AUSTRALIA AND NEW ZEALAND



# HOW TO PREVENT RANSOMWARE?

- Always Make Backups
- Keep all software updated
- Improve User Awareness
- Use Reliable Antivirus solution
- DON'T PAY THE RANSOM!



**STAY  
SAFE!**

The background is a dark teal color with a complex, low-poly geometric pattern. The pattern consists of numerous overlapping triangles and polygons of varying shades of teal, creating a textured, crystalline effect. The colors range from very dark, almost blackish-teal to a bright, vibrant cyan in some of the larger, more central polygons.

**NO MORE RANSOM**

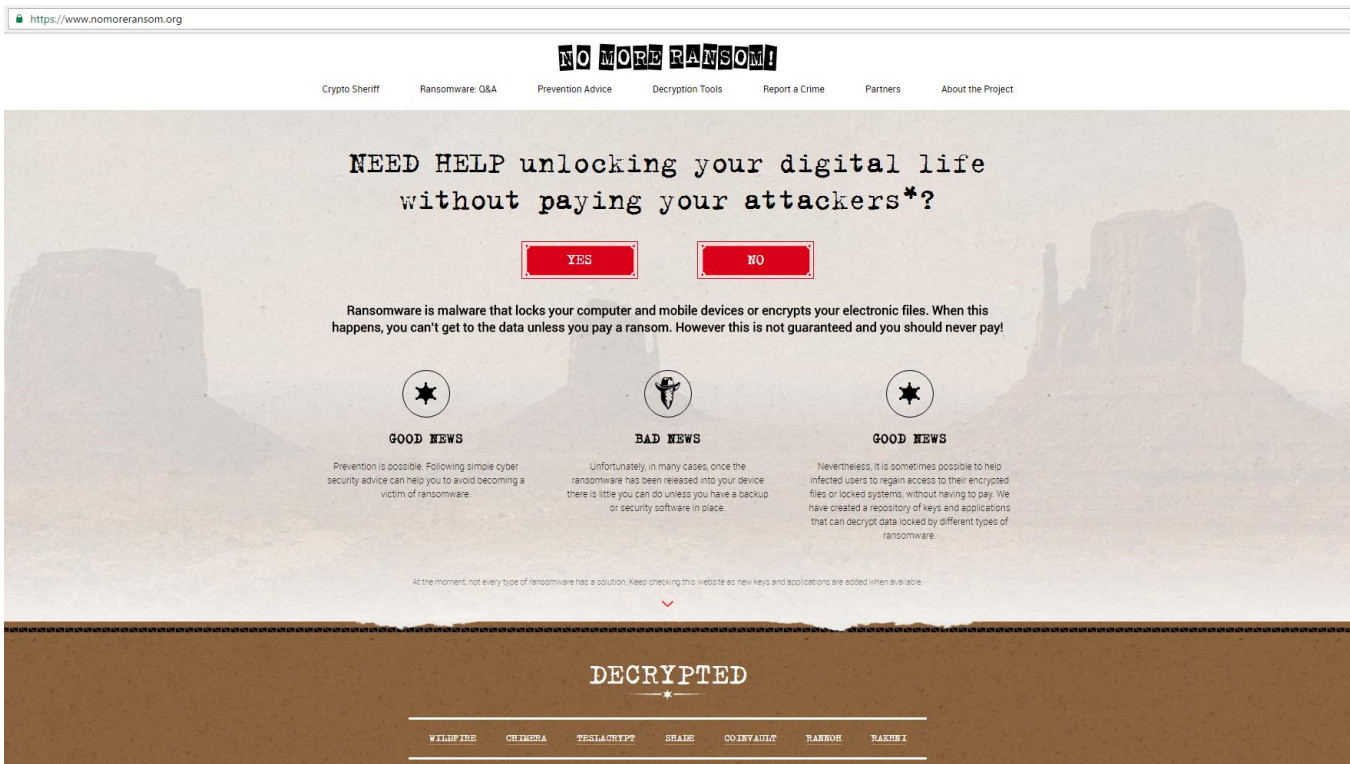
# NO MORE RANSOM

## GOOD NEWS

Nevertheless, it is sometimes possible to help infected users to regain access to their encrypted files or locked systems, without having to pay. We have created a repository of keys and applications that can decrypt data locked by different types of ransomware.



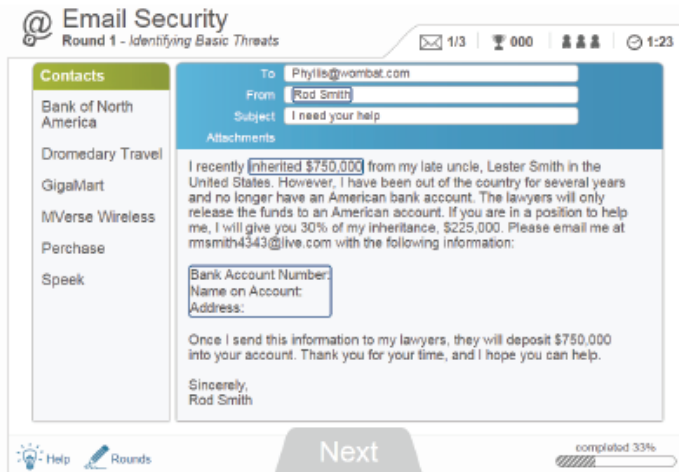
# NO MORE RANSOM MOVEMENT



**HOW CAN WE HELP?**

# KASPERSKY'S CYBER SECURITY TRAINING

- Work through typical scenarios and situations
- Gain greater knowledge and understanding of potential threats and how to deal with them
- Skills Assessment
- Measurable education plan

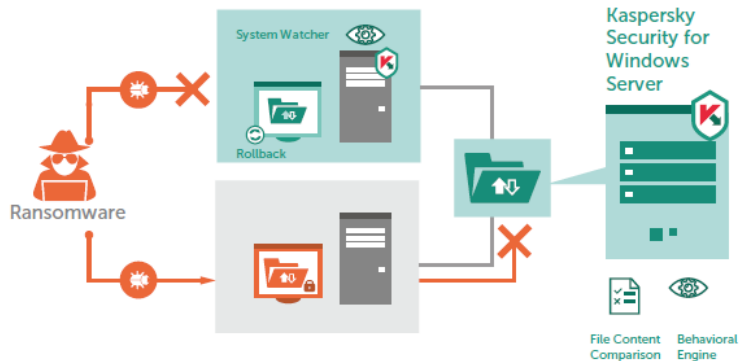


## On Line Learning Modules:

- ✓ Anti-Phishing
- ✓ Data Protection
- ✓ Safe Social Networks
- ✓ Physical Security
- ✓ Smartphone Security
- ✓ Safer Web Browsing
- ✓ Security beyond the Office
- ✓ Social Engineering
- ✓ URL Training
- ✓ Email Security
- ✓ Passwords

## KASPERSKY'S SYSTEM WATCHER

- If suspicious application attempts to open users personal files, it makes a local protected back up copy
- If is found to be crypto-malware, automatically rolls back unsolicited changes to system files.



## KASPERSKY'S ANTI CRYPTOR FOR FILE SERVER

- Detects encryption algorithm from endpoint to file server
- Severs connection so no further encryption can occur



**REMEMBER, DON'T PAY THE RANSOM!**



# LET'S TALK?

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**KASPERSKY** 