## Treasury and Trade Solutions

# Beware of Ransomware

#### What is Ransomware?

Ransomware is a cyber-attack method. Malware which has been designed to encrypt files on a device is deployed, resulting in files and the systems that rely on them becoming inaccessible, or unusable. Cyber criminals then demand a ransom in exchange for decryption. Cyber criminals may also threaten to sell or leak the compromised data or authentication information if the ransom is not paid. Ransomware is becoming increasingly prevalent, and is often aimed at high-profile or high-value targets.

#### Ransomware in Numbers\*

An estimated

€10.1 bl was paid in ransoms in 2019 (€3.3 billion more than in 2018)

365% increase in detections in businesses in 2019

of attacked organizations paid the ransom

### **Best Practices**

- Maintain reliable back-ups: Follow the 3-2-1 rule (Maintain at least 3 copies of important files in 2 different formats, keeping 1 copy offsite/ offline). Regularly test back-ups
- Ensure your organization has a cyber incident response plan ready and that employees are aware and trained in the use of the response plan. Regularly test, update and train employees on the plan
- Undertake regular monitoring to identify vulnerabilities

- Use network segmentation, data encryption and access controls to protect data. Ensure segmentation between IT and OT networks
- Use appropriate and updated tools for ransomware protection
- Regularly patch and update software
- Undertake regular audits of remote desktop services

- Control external devices and port accessibility, ensure devices are correctly configured and that security features are enabled.
- Implement content filtering to filter out unwanted attachments and emails with malicious content
- Ensure antivirus and anti-malware software is up to date
- Ensure strong passwords are used

## What to do if you have been the victim of a ransomware attack?



**Isolate and Disconnect:** Cyber criminals may monitor your organization's activity and/or communications after an initial attack to understand if their actions have been detected. Disconnect systems and use alternative communication methods such as phone calls, so that cyber criminals do not become aware that they have been discovered. If devices cannot be disconnected from the network, power them down to avoid further spread of the ransomware infection.



**Identify critical systems:** Work with your IT department to identify critical treasury systems. This should be done in advance of any attack, as part of your organization's cyber response planning. After an attack, treasury should work with IT to restore critical systems and identify those that have been compromised



Activate the Cyber Response Plan: Ensure that your organization has a Cyber Response Plan in place, and that it is regularly tested and updated. Employees should

undertake regular training on the Cyber Response Plan, and be aware of their role in the event of an attack. In the event of a Ransomware attack, the Cyber Response Plan should be activated; including informing partners, such as banks, of the attack in a timely manner. Click here to download a sample Cyber Response Planning Checklist



Restore: Prioritize restoration and recovery based on a predefined critical asset list that identifies the systems critical for business continuation.

#### \*ENISA Threat Landscape 2020 - Ransomware

For further information and resources please visit the Cybersecurity and Infrastructure Secuity Agency (CISA) website - www.cisa.gov/publication/ransomware-threat-to-ot

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