

# Cyber incident management

Are you prepared for a cyber failure?

April 2019



# What are the challenges?

Cyber based services touch almost every part of our professional and private lives, with increasing dependency. As our reliance grows, organisations need to be prepared for outages and have plans in place to restore business as usual. It is important to understand these risks and implement appropriate controls to protect IT infrastructure and services.

A cyber incident is one where systems, networks or IT services have been breached, either through malicious attack, technical failure, human error or misconduct. While strong perimeter defences and effective controls are the foundation of good cyber security, they are not a guarantee against a cyber incident.

Organisations should have robust incident management processes in place to protect their data, clients and reputation in the event of an outage. These should be integrated with crisis management, business continuity and IT disaster recovery arrangements.

Failure to prepare may create the following impacts:

- Reputational damage – high profile incidents can be embarrassing and may lead to loss of client confidence and a drop in share value.
- Compromised client information and confidential data – leading to potential personal distress for clients and loss of sensitive company information.
- Legal implications - relating to the General Data Protection Regulation (GDPR) or the Directive on security of network and information systems (NIS Directive)
- Regulatory censure or fines – inadequate controls may lead to large fines or trading restrictions.
- Business disruption – business as usual may not be possible, leading to immediate financial losses.
- Increased operating costs – the initial cost of dealing with a major cyber incident is estimated to be between €30k- €40k in the first 48 hours.

## Cyber response planning



**Data mapping**



**Adequate security controls and penetration testing**



**Related policies and procedures**



**Breach response team procedures and contingency planning**



**Cyber insurance**



**Scenario testing**



**Audit**



### Case study:

Cyber incident management following a ransomware attack

Our banking client received a ransom email, as opposed to traditional ransomware. We provided initial crisis management support and investigated the incident further. Unbeknownst to our client, the cyber criminals had built an entire virtual infrastructure over several months and had used this to attack the organisation from the inside. We contained the infection and confirmed the source and duration of the attack. Our experts helped to restore business operations and advised our client on how to minimise reputational damage.

# Our Integrated Incident Management approach

In the event of a cyber incident, it is easy to focus the investigation on what happened, at the expense of managing the full spectrum of the impact, including business disruption. We have adopted an innovative approach to cyber incident management, addressing the full range of issues.

Our Integrated Incident Management (IIM) response methodology aims to understand the event and proactively manage it to reduce the impact. Once the situation is under control, we examine the root cause and identify lessons to be learned to reduce the risk of similar incidents occurring in the future.



# How can we help?

Many cyber incidents may be averted and we can help to secure your organisation and reduce your risk. In the event of a breach, we can help you minimise the impact to facilitate an effective business recovery. Our extensive range of subject matter experts can guide you through each stage of the IIM response.

Cyber incidents are inherently complex in nature and require specialist, diverse skill sets to resolve. Each incident will have unique characteristics and challenges, and no single person will have all the necessary skills for the most effective response. We have staffed our incident response team with an appropriate breadth of skill sets and proven experience, to help your business recover from a cyber incident.

We can help you prepare for these challenges through:

- Cyber risk and threat identification and assessment
- Network and system vulnerability assessments and penetration testing
- Business continuity and IT disaster recovery benchmarking and planning
- Data landscape mapping and privacy assessments
- GDPR compliance assessment and remediation work
- Incident and crisis management programme assessments, development and improvement
- Incident and crisis management support services
- Cyber-crime investigations, evidence preservation and gathering services
- Incident root cause analysis reviews and reporting
- Staff training and awareness
- Incident response exercising, testing and wargaming

For further information, please contact:



**Christos Makedonas**  
Managing Director  
Technology Risk Services  
T +357 22600000  
E [Christos.Makedonas@cy.gt.com](mailto:Christos.Makedonas@cy.gt.com)



**Grant Thornton**  
An instinct for growth™

[grantthornton.com.cy](http://grantthornton.com.cy)

© 2019 Grant Thornton (Cyprus) Cybersecurity Limited.

'Grant Thornton' refers to the brand under which the Grant Thornton member firms provide assurance, tax and advisory services to their clients and/or refers to one or more member firms, as the context requires. Grant Thornton (Cyprus) Cybersecurity Limited is a member firm of Grant Thornton International Ltd (GTIL). GTIL and the member firms are not a worldwide partnership. GTIL and each member firm is a separate legal entity. Services are delivered by the member firms. GTIL does not provide services to clients. GTIL and its member firms are not agents of, and do not obligate, one another and are not liable for one another's acts or omissions. This publication has been prepared only as a guide. No responsibility can be accepted by us for loss occasioned to any person acting or refraining from acting as a result of any material in this publication.