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Overview of cyber threats, trends and impact

An understanding of Information and Cyber Security (ICS) Risk

What global regulators are concerned about in managing ICS risk

resilience to all critical infrastructure







Direct Costs

Investigation & Remediation

3rd party specialist fees Maersk costs estimated at \$300m+

Indirect Costs

Increased Cyber Insurance Premium

3x increase for hacked organisations. Hiscox sees 40% annual rise in cyber insurance

Intangible Costs

Damage to Brand

Harder to attract new customers. TalkTalk loses over 100,000 customers following hack

Regulatory Sanction

GDPR breaches - 4% global revenue Tesco fined \$21.4m by FCA

Customer Fraud

Bank of Valetta suffers loss of \$14.7m in fraudulent payments following cyber attack

Heads Roll

Bangladesh Bank Chief resigns following cyber theft of \$81m

Customer & Business Redress

Health insurer Aetna agrees additional \$0.6m in settlement agreements following breach **Class Action Lawsuit**

Workers brought a claim against Morrisons after an employee stole and published data of nearly 100,000 staff Merger Value \$350m reduction in Yahoo takeover price by Verizon



ICS risk is the risk of failing to identify, assess and protect the confidentiality, integrity and availability (CIA) of information assets, information systems and technical infrastructure from internal or external threats.



RECOVERY **RESILIENCE CONTINGENCY** BUSINESS OPERATE NG INCIDENT CONTINUITY PROCEDURES RISK ORGANIZATION PREPARATION SUCCEDURES STANDARI



"Business continuity is about having a plan to deal with difficult situations, so your organization can continue to function with as little disruption as possible. Business continuity is a process-driven approach which can be standardised, and which leads an organisation out of a major incident so that it can continue operations"

Organizations today are **exposed to a wide range of risks** which if not well prepared for could **throw them out of business**. Lesser impacts could be

- loss of competitive advantage,
- fines or
- reputational damage.

Events that could impact businesses include :

Natural disasters | Cyber attacks | Pandemics | Regulatory Compliance failures | Disruptive technologies | Technology failure | Supply chain failure |

Estimated a minute of unplanned
downtime costs to
organizations, on
average*

More than of businesses will 40% never reopen after a major natural disaster*

A BCM programme is crucial. Benefits include:

- 1. Builds confidence among your customers and employees.
- 2. Mitigate risks and financial exposure
- 3. Serves to provide the organization with a competitive advantage.
- 4. Provides assurance that the organization can continue operating in disruptive events
- 5. Compliance with regulatory or legal requirements
- 6. Preserves brand value and reputation

**Source: itgovernance.co.uk/business-resilience

https://www.thebci.org/knowledge/introduction-to-business-continuity.html

https://www.gartner.com/smarterwithgartner/stress-test-your-business-continuity-management/

Business continuity management components



1

Disaster Recovery Planning:

Process focused on building continuity capabilities for critical IT infrastructure and business applications

Incident response management: Defines the necessary steps to address and minimize the negative impact of a physical or logical incident threating enterprise resources (people, physical and logical assets), e.g., theft, security breach or natural disasters



Crisis management (CM):

Defines the steps necessary to address and mitigate the effect of a negative event, often while the event is still happening (e.g., fire, tornado, earthquake, severe weather)

4

Contingency planning :

Process of developing advance arrangements and procedures that enable an enterprise to respond to an event that could occur by chance or unforeseen circumstances

Business Continuity Management

A set of processes and resources to identify possible threats, calculate their potential impact and provide the necessary practices to prevent, mitigate and recover from disruptions. The most common BCM processes include disaster recovery, crisis management, incident response management and contingency planning.



Step 1: Conduct a Risk Assessment	 A thorough assessment and evaluation of an organizations resilience exposures Assessment of the potential impact of various business disruption scenarios Prioritization of findings and development of a roadmap
Step 2 : Conduct a Business Impact Analysis (BIA)	 Critical business processes and workflows as well as the supporting production applications, internal and external dependencies. (<i>Holistic view / result is preferable</i>) Critical resources skill sets and contacts Obtaining executive sign-off of Business Impact Analysis
Step 3 : Develop the Plan	 Synthesize the Risk Assessment and BIA findings to create an actionable and thorough plan Recovery assumptions, including Recovery Point Objectives (RPO) and Recovery Time Objectives (RTO). (these targets must be validated and ensure that the plan will achieve these targets. Develop departmental plans Identify all stakeholders and actors in the plan Review plan with key stakeholders to finalize (It is necessary to get as many perspectives from various staff and all departments to get the wholistic view and buy-in for the plan.)
Step 4: Create awareness about the plan	 Executive management team reviews and signs off on the overall plan once completed. Brief and socialize plans with all actors. The plan should easily be available and readily accessible to all actors
Step 5: Test Plan & Maintenance	 Conduct periodic simulation exercises to ensure key stakeholders are comfortable with the plan steps Review the plan periodically (agreed frequency) Validate the Business Impact Assessments at least on an annual basis
	Validate the Business Impact Assessments at least on an annual basis blog/how-to-write-a-business-continuity-plan-the-easy-way

https://www.eci.com/blog/135-five-steps-of-business-continuity-planning-for-investment-firms.html

Common Challenges to a BCM programme



	Challenge	Solution
	Lack of commitment to the BCM programme Senior management too busy to oversee or participate in the programme Programme treated as a checklist project and not necessary, approached as a technology project. Delegates to lower level resource. Reduces the visibility and seriousness of the programme.	Addressed by senior management taking accountability for the programme. Appoint someone who will be responsible for the programme. Establish a formal committee or working group with the necessary terms of reference, authority, representation of key departments and stakeholders, meeting schedules, annual activity time table. Create awareness on benefits. Senior management participation in all stages is key for success .
?	Wrong assumptions used in the planning phase Inaccurate assumptions made about items such as the expectations of the various stakeholders in terms of recovery time and point objectives, criticality and availability requirements of systems, extent of dependence on 3 rd parties, internal controls of 3 rd parties,	Addressed by involving all relevant stakeholders during the BIA and development of the plan. Simulation exercises to involve these stakeholders
	Lack of a communication plan Lack of a communication plan will lead to disinformation to internal and external stakeholders during an incident. In regulated industries, there may be mandatory requirements for communicating to regulators within specified timeframes.	Addressed through preparation of adequate communication plans for all relevant stakeholders, scripted messages and templates in advance.
	Lack of awareness, training and testing Lack of awareness of role holders on what actions to take or what decisions will be required during an incident. Without routinely testing the plan, the organization cannot be sure of how well the programme will work or what challenges will be encountered in a real event.	This can be addressed by running as many possible scenarios as possible to get a sense of success or failures, identify weaknesses to your plan and make the necessary adjustments and improvement.

Using the Playbook Concept





- Term especially used in American football, a Playbook contains the team's strategies and plays.
- Essentially collections of information that outlines clarity about any given subject.
- Information must be documented to ensure that it is concise, actionable, can be communicated and used in decision making.
- Designed to guide the organization in responding to and managing crisis caused by any crises
- Focuses on crisis management during crisis events with defined impact led roles and responsibilities

"the art of war is of vital importance to the State. It is a matter of life and death, a road either to safety or to ruin. Hence it is a subject of inquiry which can on no account be neglected"

Sun Tzu, Art of War

Factors to consider during a crisis event



- Increased cyber attack opportunities
 - E.g. several COVID-19 Themed campaigns through emails, and social media.
 - Crises present opportunities for threat actors to take advantage of vulnerable people.
- Heighten cyber security awareness campaigns
- Beware of scams



- 3rd party dependence risks
- The BCM posture of critical 3rd parties has direct impacts on the organization's posture
- Opportunity to validate suppliers BCM plans and readiness

- Many requirements will arise to change normal settings to accommodate the crises situation
- Ensure a dispensation process to record and formally approve every deviation from the organization's policies and standard operating procedures.
- This will need to be reviewed after the organization gets back to normal times

Key takeaways





- 1. Assess risks and impacts holistically
- 2. Prepare a crises management response plan to each scenario
- 3. Assign roles and responsibilities
- 4. Create the right level of awareness
- 5. Test strategies for effectiveness and right fit
- 6. Incorporate the plan into your BAU





Q&A Time







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