

Secure backup Review

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PREPARED BY
MTI Technology

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1.0 SERVICE SUMMARY

Healthcare and public sector organisations are being targeted with ransomware and malware attacks designed to gain access to backup solutions and to encrypt the backup data as a precursor to a wider-scale ransomware attack. This places the utmost importance on implementing a robust backup solution that can withstand targeted cyber-attacks and enable organisations to recover when needed.

MTI's Secure Backup Review will assess your existing backup and recovery solution and highlight gaps between that and NCSC guidelines. The review starts with a workshop to gather the necessary information to implement a backup solution in a secure and resilient manner. Specifically, the workshop seeks to:

- Identify key personnel involved in backup and recovery operations
- Understand the current backup environment regarding the organisation's data, software used and hardware targets
- Understand any shortcomings or issues with the current backup process
- Perform discovery work to capture all relevant systems within the organisation (where required)
- Discuss changes and potential mitigation of cyber threats in the recovery of backup data
- Recommend technical remediation and improvements to the current backup function and recommendations in alignment with NCSC guidelines

1.1. BACKUP WORKSHOP

Assessment	Scope
Prerequisites	To ensure the Workshop proceeds smoothly and concludes within the allotted time, MTI has outlined the prerequisites below. Attendees MTI recommend the following personnel attend the workshop: • IT Manager • CISO or equivalent • Backup Administrator Due to the topics being discussed, having the following information to hand for the workshop will facilitate its smooth running: • Details of current backup software in use, including version • Network Diagram / Overview of current backup solution • Details of network segregation in place to isolate backup data stores • Details of hosts and data currently backed up • Overview of how administrative access is obtained to the backup interface • Details of any cyber recovery plan in place

Workshop

MTI will work with your IT team(s) to determine whether the current backup and recovery function meets requirements and adheres to the NCSC (National Cyber Security Centre) recommendations to mitigate the risk of cyber-attacks, such as ransomware.

The workshop is anticipated to take no more than 2 hours.

The workshop will review:

- The type and features of the controlling backup software
 - An online assessment of backup software (vendor dependent*)
- The current backup software and architecture to include:
 - Backup and media Servers
 - Target devices
 - Geographical Sites and off-site capabilities
 - Base network speeds
 - Inter-link speeds
 - Cloud provider(s)
- Front-end data volume amount (approximately) across geographical sites
- Estimated daily rates of change and Full/Incremental policy
- The data retention period for daily, weekly, monthly and yearly backups
- What data (if any) is off-line
- Future compound annual growth rate
- Data types to determine de-duplication and compression
 - Database?
 - Email?
 - General file data?
 - Images, scanned, or voice recorded data?
- Total server count and mix between virtual and physical
- Server OS types and any hot-backup modules for databases / BBB
- Application types i.e. MS SQL, Oracle etc.
- Any shortfall in coverage of the current backup system to backup clients
- Any issues with the current backup environment, for example:
 - Performance to meet backup windows
 - Capacity to hold required data retention
 - Unreliable daily backups
 - Recovery SLA issues
- What the critical data volume and servers are for a recovery operation
- Current 3-2-1 Backup conformity <https://www.ncsc.gov.uk/blog-post/offline-backups-in-an-online-world>

Security Elements to be discussed:

How do users administrate backups

- Network segregation
- Antivirus deployments
- Access Management solutions
- Logging and Alerting

*Backup software assessments (which may vary in complexity) include:

• NetWorker	• NetBackup	• Avamar	• Veeam	• CommVault
• ArcServe	• BackupExec	• MS DPM	• IBM Spectrum	• IBM TSM
• NetVault	• Data Protector	• Oracle RMAN	• Data Domain	• Unitrends

Data Discovery

To obtain the correct data to ensure that all critical systems are covered in the existing backup design, MTI will conduct a discovery exercise. This will take the form of an active scan of the environment to identify all live server hosts and the volume of data to be backed up.

The prerequisites for this Discovery Scan are:

- Remote Access via an SSL VPN or similar
- Access to a virtual desktop with the ability to install scanning software
- Full connectivity to all server subnets
- RDP access to a Domain Controller to query the hard drive capacity of Domain-joined servers
- Access to any Unix / Linux hosts
- Access to the backup administration interface

Discovery Scans

The discovery scans will identify:

- Host name and IP address of all live servers
- Operating System type
- If the host is joined to an Active Directory domain
- Disk size of all installed disks
- Consumed data capacity/volume of data to be backed up
- Extract data from the current backup solution to identify hosts omitted from the current backup regimes

The allocated consultant will conduct an initial call to outline the approach and requirements of the scan.

The output of the discovery scan is a full asset list of hosts that need to be included in the backup program, along with the volume of data that will be backed up.

Project Output	The output of the entire workshop will be a high-level architectural design with indicative costs for a backup solution that can be implemented in line with, or as close as possible, the budget, depending on NCSC's guidelines of a secure backup solution.
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2.0 ABOUT MTI

MTI Technology is a technology services and solutions provider with over 200 staff, operating across EMEA with offices in the UK and Germany. Over the last 36 years, MTI has helped thousands of organisations transform their IT operations, enabling them to leverage the latest technologies, reduce operating costs, become more flexible, and mitigate risk.

MTI has considerable experience in designing, delivering, and managing cybersecurity and data centre solutions for our customers across various industry sectors, including Commercial, NHS, central government, local government, Banking, Defence, Finance, and Insurance. This extensive experience ensures your solution is designed and installed by industry-leading MTI experts, guaranteeing a smooth, accurate, and on-time project delivery.

MTI specialise in cybersecurity, data centre modernisation, IT managed services and IT transformation. By employing proven methodologies and best practices, and adopting a consultative approach, MTI helps its customers solve business challenges and provides secure, compliant management of their applications, data, infrastructure, and system environments.

2.1. ACCREDITATIONS

MTI hold the following ISO Standards and Certifications

- ISO 27001 Information Security Management System
- ISO 9001 Quality Management System
- ISO 20000 IT Service Management
- ISO 45001 Occupational Health and Safety Management
- ISO 22301 Business Continuity Management System
- ISO 14001 Environmental Management System
- Cyber Essentials & Cyber Essentials Plus
- NCSC CHECK Scheme Member (CHECK 'Green Light' company since 2003)
- CREST Scheme Member



2.2. AWARDS

Our dedication to maintaining high standards is reflected in our numerous industry awards, including Dell Specialist Partner of the Year 2024, Dell Exceptional Services Delivery Performance 2024, Dell Advanced Services Delivery Partner 2024, Cyber Security Customer Service Award at the Computing Security Awards 2024, Cybersecurity/Data Protection Partner of the Year Award at the CRN Awards 2024, CRN MSSP/Security Reseller of the Year 2023, CRN Security Value Added Reseller (VAR) of the year for 2018, 2019, and 2020, and Penetration Tester of the Year for 2018 and 2020. We have won the UK Service Partner of the Year award twice for excellence in service delivery, in 2023/2024. MTI is committed to delivering exceptional customer service, which is why we have an industry-leading 98% customer satisfaction rating.



2.3. KEY PLATFORMS

MTI is proud to be a Dell Technologies Titanium Black Partner, the highest tier in Dell's Global Partner Program. This elite recognition positions MTI among a select group of global partners that demonstrate exceptional technical expertise, strategic alignment, and a consistent ability to deliver transformational outcomes for customers in today's data-driven, multi-cloud world.



Other key partners include:



2.4. ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG), CSR & SOCIAL VALUE

MTI integrates ESG, CSR and Social Value principles into our business values and operations to meet the expectations of customers, employees, investors, suppliers, the community, and the environment. Our Policy governs responsible and ethical conduct, a positive working environment, support for local communities, fair dealings with suppliers, and respect for human rights.

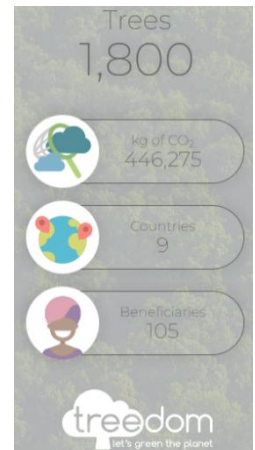
Environmental Management

MTI maintains a documented Environmental Policy Statement, approved by senior leadership, and reviewed annually. Our **ISO 14001 Environmental Management System** incorporates policies and procedures to manage, reduce, and report environmental impacts. We are committed to **Net Zero by 2050** and have achieved **EcoVadis Gold** standard for Social Value policies and procedures.



Sustainability Activities and Achievements

- **Planting of ~600 trees annually** to neutralise our carbon footprint (in partnership with Treedom). Treedom plants a tree on our behalf across Africa, South-East Asia and South America to offset MTI's carbon emissions. They are a certified B Corporation, and every tree on their site has its own online page for tracking. To date, MTI has planted 3,299 trees, resulting in a 6.17 mt CO₂e reduction and driving positive social and environmental impact.
- Reduction targets for business travel, including a digital-first approach, increased virtual meetings, and reduced travel emissions.
- **In 2023, we took one step closer as we are proud to say all our company vehicles are electric.**
- Transition to homeworking/hybrid models, reducing commuting and office energy consumption.
- Use of renewable energy sources for office electricity and optimisation of lighting, heating, and cooling systems.
- Eradication of single-use plastics in all offices.
- Implementation of cloud-based applications to reduce energy consumption.
- Collaboration with carbon-neutral suppliers and annual Supplier Sustainability Assessments.
- Comprehensive waste management systems, with recycling and mandatory staff training.
- Ongoing achievement of ISO 14001:2015 Certification.



Social Responsibility and Value Creation

- Dedicated ESG committee overseeing strategy, risk management, compliance, stakeholder engagement, and continuous improvement.
- Social Value Development Plan tracked by an ESG Manager, with regular reviews and reporting.
- Employer-supported volunteering, offering employees charity days tracked via our ESG application. MTI employees have completed 1,088 hours of volunteering.
- Initiatives supporting disadvantaged groups, including participation in the Disability Confident Scheme.

- Commitment to equal opportunity, diversity, and inclusion in the workplace.
- MTI support Cystic Fibrosis Charity through fundraising events, employee challenges and donations.

**Governance and Assurance**

- Regular supplier assurance activities and annual Supplier Code of Conduct refresh.
- Compliance with ILO standards, UN Global Compact, and Universal Declaration of Human Rights.
- Board-level reporting of CSR compliance and performance.

Public Disclosure and Transparency

- Annual publication of Carbon Reduction Plan/ESG Report on MTI's website - <https://mti.com/about/corporate-social-responsibility/>
 - https://mti.com/wp-content/uploads/2025/10/MTI_Carbon-Reduction-Plan_FY2024.pdf
- Enhanced reporting of ESG performance and promotion of industry certifications - <https://mti.com/wp-content/uploads/2025/12/ESG-Report-FY24.pdf>

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About MTI

MTI provides award-winning, end-to-end technology solutions and services across cybersecurity and data centre infrastructure, supporting customers for over 35 years. With over 250 specialists across the UK, France and Germany, we deliver expert consultancy, project delivery, and scalable managed services.

Our mission is to build a secure digital future for our customers. We do this by combining deep technical expertise with a consultative, proven approach – helping organisations accelerate and de-risk transformation while ensuring secure, compliant management of applications, data and IT systems.

