



Comhairle nan Eilean Siar
Internal Audit Follow Up Review
Cyber Attack Response – Additional Follow Up
Final Report – FU08-24/25

23 May 2025

COMHAIRLE NAN EILEAN SIAR
INTERNAL AUDIT FOLLOW UP REPORT
CYBER ATTACK REPSONSE

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SECTION 1: EXECUTIVE SUMMARY

Introduction

- 1.1 The Report has been prepared for the Comhairle's Audit and Scrutiny Committee. The original report advised of 10 recommendations made in the Cyber Attack Response report which was issued on 23 October 2024. The previous follow up was completed in January 2025. The follow up review was undertaken in accordance with the operational annual internal audit plan for 2024/25.

Internal Audit Objective

- 1.2 Following up internal audit reports and assessing the level of compliance with recommendations made is an important part of the internal audit function.
- 1.3 In accordance with the remit detailed in the operational annual internal audit plan for 2024/25, our internal audit work was designed to obtain assurance that the original recommendations have been implemented. We obtained this assurance through internal audit testing and undertaking discussions with key personnel.
- 1.4 The main recommendations in the original report are all detailed in sections 1.5 and section 2 of this report.

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Detailed Findings

- 1.5 The current status of progress against the original recommendations can be summarised as follows:

Key to Status



Fully implemented;





Partly implemented, although further work is required to meet the objective of the recommendation; or



Insufficient progress to date

Recommendations	Action to Date	Status
It is recommended to increase IT resiliency from cyber incidents to an appropriate level	Fully implemented	
Implement the advice of the NCSC as well as following industry best practices in order to implement a series of additional security measures which are up to current global standards	Partly implemented	
Install and train IT staff on the use of immutable backups, and ensure these are functional and up to date	Fully implemented	
Undertake a review of systems which are not cloud based in order to ensure the still provide strong business continuity should we be subjected to a further attack. Cloud based systems already in place should also be reviewed to ensure they are adequate for the same business continuity requirements	Fully implemented	
As recommended by NCSC and the ICO, implement 24/7 endpoint monitoring as a permanent security solution	Fully implemented	
Any future merger of the corporate and schools IT sections should ensure that they are maintained on separate networks to minimise any future cyber-attack impacts	Partly implemented	
Where further improvements to IT security can be made, consider that these should be put forward to CMT and, if required, Members at the earliest opportunity should the costs involved be significant to the Comhairle	Fully implemented	
Investment in training and development should be planned as part of IT workforce plans from a staffing resiliency perspective	Partly implemented	

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Recommendations	Action to Date	Status
Ensure that training on cyber resiliency and awareness is mandatory for all staff and monitored closely to ensure the training itself remains relevant and that staff are undertaking said training	Partly implemented	
Cyber Disaster Recovery Plans and Cyber Incident Response Plans as detailed in previous Audit Scotland recommendations, should be prepared and tested, primarily as a measure to enable appropriate responses to future attacks, attempted or actual	Partly implemented	

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Concluding Remarks

- 1.6 The original report was issued on the 23 October 2024, with an initial Follow Up undertaken in January 2025. Recovery work is still ongoing. From our follow up testing so far, we note that out of the 10 recommendations made in the original report 5 have now been fully implemented as far as is possible and work is underway on the remainder. We will continue to track progress.
- 1.7 For Comhairle Nan Eilean Siar Internal Audit Section

Internal Audit
Comhairle Nan Eilean Siar
Sandwick Road
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23 May 2025

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SECTION 2 - DETAILED FINDINGS AND RECOMMENDATIONS

Action Recommended	Action By	Progress to Date	Action Outstanding
2.1			
It is recommended to increase IT resiliency from cyber incidents to an appropriate level	IT Manager	<p>Key high value systems have been moved to the cloud and secured by the supplier. Further systems like website and forms also hosted off network and secured by the supplier. Network architecture made more secure. Ability to recover quicker implemented. Backups secured both on and off network. Monitoring and Logging 24/7 offsite implemented. Email security product implemented. The changes put in place spread the risk so any future incident should be isolated to a smaller part of the Comhairle's estate, the attack vector has also been significantly reduced due to the measures implemented.</p> <p>13/03/2025 – Work is ongoing on DR and CIRP plans and on track for approval at next committee.</p> <p>22/05/2025 – Due to the continued improvements that have been carried I believe the Comhairle's resiliency to cyber incidents is at an appropriate level. I consider this action point complete. DR and CIRP have been completed for this committee.</p>	None

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Action Recommended	Action By	Progress to Date	Action Outstanding
2.2			
Implement the advice of the NCSC as well as following industry best practices to implement a series of additional security measures which are up to current global standards	IT Manager	<p>Please see here for full details of the NCSC cyber security principals. 10 Steps to Cyber Security - NCSC.GOV.UK</p> <p>Engagement and Training – Information Security Training course updated. IT Manager engaging with Improvement Service regarding cyber security training to allow the usage of funding for section online training for whole department. IT regularly send out security updates to all staff.</p> <p>13/03/2025 – Training deployed</p> <p>Architecture and configuration – A redesign of our architecture was carried out and a multi-layer secure configuration put in place. Immutable backups on prem and in the cloud deployed and tested weekly. Email is protected via the Email Security blue print. Lateral movement significantly reduced. MXDR deployed. Management network significantly restricted.</p>	Risk Management – Detailed specific cyber security risks to be added to departmental risk register.

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		<p>Vulnerability Management – We run ad hoc Nessus scans across the network. Notifications from the Scottish Government monitored, 3rd party Cyber security sites regularly used to inform on latest threats.</p> <p>Identity and access management – Geo locked MFA in place for all users including M365 admin users. Some systems do not have MFA capabilities built into them. Nobody is given access to data they don't need access.</p> <p>Data Security – Valuable cloud data is protected at rest and in transit via various methods: disk encryption, SSLVPN, IPSEC VPN. Only authorised users have access to council data. Email is protected via the Email Security blue print. Immutable backups on prem and in the cloud deployed and tested weekly.</p> <p>Logging and Monitoring – 24/7/365 Monitoring and logging has been put in place.</p> <p>Incident management – Cyber incident response plan currently being developed Supply Chain Security – Systems and Software are generally known as good, the Comhairle does not use unknown software on its estate, any cloud systems that are procured are asked for their responses to the</p>	<p>Testing and Exercise in a box when plans are complete.</p>
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		<p>NCSC 13 cloud principles and also their compliance with CAIQ framework is checked.</p> <p>Generally, IT systems and products are bought through government frameworks which have additional controls in place for supply chain security.</p> <p>13/03/2025 – Training deployed & Monitoring fully implemented.</p> <p>22/05/2025 – Asset management is available via a number of tools that IT use so this point is completed, Exercise in a box is something that will be planned in before the end of 2025, Nessus Scans will be run quarterly and the denial of service attack process is documented in the CIRP. IT Manager will add detailed cyber risks to departmental risk register by end of July 2025</p>	
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Action Recommended	Action By	Progress to Date	Action Outstanding
2.3			
Install and train IT staff on the use of immutable backups, and ensure these are functional and up to date	IT Manager	Immutable backups deployed; responsible staff have been trained on the backup system.	None

Action Recommended	Action By	Progress to Date	Action Outstanding
2.4			
Undertake a review of systems which are not cloud based in order to ensure the still provide strong business continuity should we be subjected to a further attack. Cloud based systems already in place should also be reviewed to ensure they are adequate for the same business continuity requirements	IT Manager	No progress to date due to on premise still being rebuilt. 13/03/2025 – All on prem systems are backed up on prem and in cloud and backups regularly tested to ensure data availability, in the event of a requirement to restore on prem systems they would be restored from back up.	None

Action Recommended	Action By	Progress to Date	Action Outstanding
2.5			
As recommended by NCSC and the ICO, implement 24/7 endpoint monitoring as a permanent security solution	IT Manager	This is 95% complete the final element is to go through an onboarding exercise with the supplier to create customised playbooks for incidents detected and ensure configuration of the endpoint protection and alerting is correct. 13/03/2025 – onboarding complete and incident response tested.	None

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Action Recommended	Action By	Progress to Date	Action Outstanding
2.6			
Any future merger of the corporate and schools IT sections should ensure that they are maintained on separate networks to minimise any future cyber-attack impacts	Chief Officer Assets & Infrastructure/ Chief Officer Education & Children's Services	Document being prepared for consultation to commence January 2025.	For this action to complete the potential merger process needs to be looked at in more detail. No further action required at this time.

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Action Recommended	Action By	Progress to Date	Action Outstanding
2.7			
Where further improvements to IT security can be made, consider that these should be put forward to CMT and, if required, Members at the earliest opportunity should the costs involved be significant to the Comhairle	IT Manager	<p>No work has been carried out on this action point.</p> <p>13/03/2025 IT Manager and Infrastructure and Security Manager meet monthly to discuss current security issues and future security requirements, along with reviews of how current security products are performing, a report will be produced for CMT seeking additional funding for additional security measures.</p> <p>22/05/2025 At present we have not identified any new additional security products that would require additional funding via CMT, during recovery CMT approved funding for a number of additional tools that have been deployed and we have added a few additional monitoring tools through our existing budget, however this is an ongoing process due to the continually changing threat landscape, we will continue to review the security threats and if we feel additional tools are required a report will be presented to CMT for consideration. I consider this action point complete.</p>	<p>Request to CMT / Members for additional funding for security products only when required.</p> <p>No further action at present.</p>

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Action Recommended	Action By	Progress to Date	Action Outstanding
2.8			
Investment in training and development should be planned as part of IT workforce plans from a staffing resiliency perspective.	IT Manager	<p>IT Manager engaging with Improvement Service regarding cyber security training to allow the usage of funding to be used for a subscription to an online training platform so all the IT Section can benefit and upskill, if unsuccessful IT Manager will request budget to procure the platform internally.</p> <p>13/03/2025 – No funding is available from the Improvement service as it is being directed to other public sector bodies. IT Manager to report to Head of Service to request additional funding for an Online training platform for IT staff with mandatory cyber training and personal development training.</p> <p>22/05/2025 – A training plan will be produced detailing IT training requirements and suitable training will be put in place before the end of 2025.</p>	Investment in training and development

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Action Recommended	Action By	Progress to Date	Action Outstanding
2.9			
Ensure that training on cyber resiliency and awareness is mandatory for all staff and monitored closely to ensure the training itself remains relevant and that staff are undertaking said training.	Chief Officer HR & Performance	<p>Internal Training and IT are developing an updated training course on cyber security. List of mandatory training courses now on LearnPro.</p> <p>13/03/2025 – Information security training has been rolled out to all staff and has received high praise, training department to follow up with end users who have not completed the course.</p> <p>The IT Manager conducted a Phishing exercise organisation wide, breached users were directed to a phishing training exercise, IT manager followed up the exercise with results, further instruction and a reminder to complete the phishing training.</p>	Training department to follow up with users who have not completed the training on learn pro

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Action Recommended	Action By	Progress to Date	Action Outstanding
2.10			
Cyber Disaster Recovery Plans and Cyber Incident Response Plans as detailed in previous Audit Scotland recommendations, should be prepared and tested, primarily as a measure to enable appropriate responses to future attacks, attempted or actual	IT Manager	<p>Cyber incident response plan, Disaster recovery plan and Business continuity plan are all currently in development.</p> <p>13/03/2025 – Plans continue to be written.</p> <p>22/03/2025 – Plans will be available for June committees’ Testing will be an ongoing process carried out throughout the year.</p>	Testing to be carried out.

RESPECTIVE RESPONSIBILITIES OF MANAGEMENT AND INTERNAL AUDIT

Responsibility in Relation to Internal Controls

It is the responsibility of the Comhairle's management to maintain adequate and effective financial systems and to arrange for a system of internal controls. Our responsibility as internal auditors is to evaluate the financial systems and associated internal controls. In practice, we cannot examine every financial implication and accounting procedure within an activity, and we cannot substitute for management's responsibility to maintain adequate systems of internal controls over financial systems. We therefore may not identify all weaknesses that exist in this regard.

Responsibilities in Relation to Fraud and Corruption

The prime responsibility for the prevention and detection of fraud and irregularities rests with management. They also have a duty to take reasonable steps to limit the opportunity for corrupt practices. It is our responsibility to review the adequacy of these arrangements, but our work does not remove the possibility that fraud, corruption or irregularity may have occurred and remained undetected.

We nevertheless endeavour to plan our internal audit work so that we have reasonable expectation of detecting material fraud, but our examination should not be relied upon to disclose all such material frauds that may exist.