

INFORMATION ITEM



REPORT OF		MEETING	DATE	ITEM NO
OFFICE OF THE CHIEF EXECUTIVE		AUDIT AND STANDARDS COMMITTEE	28 JULY 2016	9
STRATEGIC RISK REGISTER UPDATE				

PUBLIC ITEM

This item is for consideration in the public part of the meeting.

SUMMARY OF INFORMATION

This report summarises the current position of the 'Strategic Risk Register' in relation to the Cyber Attack Prevention up to June 2016. The work has been undertaken by the Council's Corporate Support Officer.

SOURCE OF INFORMATION

Updated Strategic Risk Register.

LINK TO INFORMATION

[2016/2017 Risk Register - Cyber Attack Prevention Action Plan No: 1](#)

WHY IS THIS INFORMATION BEING GIVEN TO THE COMMITTEE?

As part of the Council's Risk Management Strategy, strategic risks are identified and reviewed on a regular basis with the involvement of Members and Officers to review the identification of the risks.

FURTHER INFORMATION

Contact Gary Marcus, Corporate Support Officer.

2016/2017 Risk Register

Cyber Attack Prevention Action Plan No: 1

Champion – Director of Resources

Issue Description	Cyber Attack Prevention
Council Objective	Value for money

EXISTING CONTROLS IN PLACE
<ul style="list-style-type: none">✓ Two corporate firewalls in place, with redundancy should one be compromised or fail✓ Separate firewall for PSN (Public Services Network secure) originated traffic✓ Proxy server and separate web filters based on user profiles✓ Desktop Anti-virus (McAfee)✓ Wave safe end control (end point security for restricting/ blocking USB devices)✓ Intrusion Protection (IPS)✓ Application control (Deep pack inspection including SSL traffic)✓ Appsure Backup solution✓ Virus awareness communications✓ Web logs (monitoring)✓ CERT UK, networking, attending conferences✓ Patch policy, every Tuesday from Microsoft/ application vendors for security updates ☐ Test environment for enable new patches or updates✓ Data Leak Prevention (DLP)✓ Anti-virus/ anti-malware at the firewall level✓ Fusemail spam and email filtering✓ Fortimail internally hosted spam and email filtering for PSN (Public Services Network secure) originated email exchange✓ Network address translation (NAT) across all firewalls to 'hide' our network IP ranges behind outward facing Public ones✓ Network connection redundancy through a separate link to the outside from the Cem and Crem✓ SSID filtering and secure authentication through Cisco wireless controller✓ Demilitarized zone for outward facing web servers✓ Reverse proxy for outward facing web services, that are required to be hosted internally

Required action / control	Responsible for action	Risk Action	Progress	Status	Due Dates
Staff engagement & awareness programme of potential cyber threats	A. Scrivens	Review existing ICT Computer Security Policy with assistance from Blackpool Policy services.	Current Policy has been reviewed with ICT & Blackpool's Policy Team. The conclusion was the policy was and still is fit for purpose. However, when the new ICT manager starts in August, once this person is settled they would be in the best position to determine how this should be developed. The long term action for this post will be to ultimately review and maintain this policy going forward.	COMPLETE	April 2016
	A. Scrivens / R. Mckelvie	Review current ICT Security iPool module content, contact Blackpool to see if there has been any updates to their content since original version done (2011). Liaise with ICT to add wording for Fylde and make any relevant or necessary changes etc. Re-vamp and modernise content.	The decision was made to use to dedicated LearningPool.com version which is a standardised format design especially for all Local Government Authorities containing all the latest best practices. Allan Oldfield has communicated this new course to all staff, also adding about the requirement for completing this new course with a deadline date of October 2016.	COMPLETE	April 2016
	A. Scrivens	Use recent PowerPoint slides and quiz published by ICT to show what virus look like, add onto new iPool module as a quiz.	Available online. This is now live and published for staff to complete. Allan Oldfield has sent round comms for all staff to complete by October 2016.	COMPLETE	April 2016

	A. Scrivens	Relaunch ICT Security iPool Module, setup as next compulsory course for all staff to complete.	This is now live and published for staff to complete. Allan Oldfield has sent round comms for all staff to complete by October 2016.	COMPLETE	May 2016
	R. Mckelvie	IT network policy enforcement logon software	Log on prompt has been reviewed. Options will be explored to further improve additional policy information at log on.	COMPLETE	May 2016
	R. Mckelvie	ICT to attend team briefs, undertake as an action once for all team briefs (AUG),	<i>Not yet due for reporting</i>	<i>Not yet due for reporting</i>	<i>August 2016</i>
	R. Mckelvie	Assess the impacts from team briefs via surveymonkey to analysis findings	<i>Not yet due for reporting</i>	<i>Not yet due for reporting</i>	<i>September 2016</i>
	R. Mckelvie	Mystery Shopping exercise with website checks by staff.	<i>Not yet due for reporting</i>	<i>Not yet due for reporting</i>	<i>March 2017</i>
Next Generation Threat Control	R. Mckelvie	Establish quotes for product (<i>approx. £15,000</i>)	<p>The Fortigate unit which provides our main Unified Threat Management also includes this feature so after looking at options and comparing functionality and cost; this solution is the most logical and fits in with our wider application/ appliance consolidation and rationalisation strategy.</p> <p>In implementing the virtual appliance to existing assets for both email and network infrastructure security we have been able to procure a robust solution for £1,552.80- a</p>	COMPLETE	March 2016

			<p>significantly lower cost than purchasing a standalone new appliance.</p> <p>This also reduces support considerations as the technology is already familiar to employees.</p>		
	R. Mckelvie	Purchase and deploy	<p>The Fortisandbox solution has been purchased and implemented by ICT services.</p> <p>By using an existing platform and not procuring an additional appliance for this security element the solution is fit for purpose and will also modularly cover our secure email space for GCSX adding an additional layer where our most sensitive and protected communication takes place.</p>	COMPLETE	April 2016
	R. Mckelvie	Publicise this via Vine & Directorate communications	<p>A Vine article has been produced and communications to the directorate via 5 points have been circulated to staff.</p> <p>These provide a high level overview to the staff using our infrastructure assets of the technology and security considerations we undertake and help move the awareness and education agenda for this space forward.</p>	COMPLETE	April 2016
Baseline network/ check for changes to	M. Don	Re-deploy existing software to detect file / network changes	Network monitoring via PRTG software is in place and installed on our infrastructure server- which includes our full server space, switches and routers.	COMPLETE	April 2016

files/ configuration.			This allows us to monitor changes and take action before malicious infections or exploits spread if introduced to our network.		
	R. Mckelvie	Prioritise backups, the way which areas are selected first based on the Business Continuity Plan.	<p>The initial action has been completed with backups being prioritised according to the BIA spreadsheet, an action which also came out of the external ICT audit.</p> <p>This will require periodic review to ensure that the backup arrangements in place meet the organisation/ service managers' expectations around how often they are taken.</p>	COMPLETE	May 2016
Block certain high risk sites.	R. Mckelvie	Web filtering software in place, review and implement	<p>Web filtering software is now in place and all high risk sites have been blocked.</p> <p>Further testing will continue going forward, the first date for testing will be on July 23rd (provisional date) where ICT will be migrating our Checkpoint firewalls which currently provide firewall protection and network address translation to our Fortigate 100D.</p> <p>In doing this we will also be implementing a new Fortigate 100D and pairing the two devices for high availability, performance and resilience.</p> <p>Robust web filtering via Fortigate 100d appliance is in place with rule sets set up for</p>	COMPLETE	April 2016

			groups according to access needs with the policy of least privilege applied.		
Review ICT Strategy / Plan	R. Mckelvie	Make sure virus controls are highlighted as high risks, ensure capacity within department is set at the appropriate level to reach maintain set standards	McAfee anti-virus software is in place across our virtual desktop infrastructure, server space, and on laptop devices when issued. AV policies have been reviewed and hardened according to best practice following the cryptomalware exploits introduced to the network.	COMPLETE	May 2016
CERT liaison, to implement best practice advice	R. Mckelvie	Implement any actions through network groups, lean on Wyre & BLP ICT for council advice where possible.	<i>Not yet due for reporting</i>	<i>Not yet due for reporting</i>	March 2017
Server consolidation excise	R. Mckelvie	Continue to reduce the amount of servers to eliminate virus, storage, backup constraints	<i>Not yet due for reporting</i>	<i>Not yet due for reporting</i>	March 2017