

# Final Internal Audit Report

## Internet and Intranet Security

### December 2017

**Distribution:**

- Executive Director Resources (Final only)
- Director Customer and Corporate Services
- Head of ICT and Transformation
- ICT Service & Contract Manager

Assurance Level	Recommendations Made	
<b>Substantial Assurance</b>	Priority 1	0
	Priority 2	1
	Priority 3	1

**Status of Our Reports**

This report ('Report') was prepared by Mazars Public Sector Internal Audit Limited at the request of the London Borough of Croydon and terms for the preparation and scope of the Report have been agreed with them. The matters raised in this Report are only those which came to our attention during our work. Whilst every care has been taken to ensure that the information provided in this Report is as accurate as possible, we have only been able to base findings on the information and documentation provided and consequently no complete guarantee can be given that this Report is necessarily a comprehensive statement of all the weaknesses that exist, or of all the improvements that may be required.

The Report was prepared solely for the use and benefit of the London Borough of Croydon and to the fullest extent permitted by law, Mazars Public Sector Internal Audit Limited accepts no responsibility and disclaims all liability to any third party who purports to use or rely for any reason whatsoever on the Report, its contents, conclusions, any extract, reinterpretation, amendment and/or modification. Accordingly, any reliance placed on the Report, its contents, conclusions, any extract, reinterpretation, amendment and/or modification by any third party is entirely at their own risk.

Please refer to the Statement of Responsibility set out in appendix 3 of this report for further information about responsibilities, limitations and confidentiality.

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## **1. Introduction**

- 1.1 The Council uses Internet and Intranet facilities for communication and information dissemination internally between its staff and externally with the public. This is an area of significant importance and it is vital that the content and security surrounding the management of the Internet and Intranet facilities provides confidentiality, integrity and assurance over the information contained on the Intranet site or transmitted via the Internet. It is imperative that the usage of Internet facilities by the Council is secured and does not provide an access vector to unauthorised personnel.
- 1.2 This audit is part of the Internal Audit Plan for 2016/17. The audit objectives, methodology and scope are contained in the Audit Terms of Reference at Appendix 1.

## **2. Key Issues**

### **Priority 2 Recommendations**

There should be adequate policy and procedures in place for Content Management, (Rec 1).

A Priority 3 recommendation is detailed under item 4.

3. Actions and Key Findings/Rationale

Intranet Site Security and Content Management: Policy and Procedures			
Priority	Agreed Action/s (Recommendation 1)	Detailed Finding/Rational	
2	Management should ensure that there are adequate policy and procedures in place for content management on the Council's intranet.	<p>Effective policy and procedures will help ensure that management of content in the Council's intranet is managed and performed as desired by the Council.</p> <p>At the time of the audit, we were unable to obtain information regarding the policy and procedures in place for content management on the Council's intranet.</p> <p>Without adequate policy and procedures in place, there is a risk that the Council's intranet and therefore the content may not be managed in line with the Council's expectation.</p>	
Management Response		Agreed/Disagreed	Responsible Officer
A content management policy for the intranet is in the final stages of completion and should be available for publication by 15 <sup>th</sup> Dec 2017.		Agreed	Communications and Engagements Manager
			15 December 2017

#### 4. Priority 3 Recommendation

<b>Agreed Action/s</b>	<b>Detailed Finding / Rationale</b>
<p>1. Management should ensure that the firewall files are cryptographically checksummed and these checksums are regularly verified.</p>	<p>During the audit, through our discussions with the Council's IT provider, it was not clear whether the firewall files are regularly cryptographically checked. There is a risk of unauthorised changes which may go unnoticed.</p>

## TERMS OF REFERENCE

### Internet and Intranet Security Audit

#### 1. INTRODUCTION AND BACKGROUND

- 1.1 The Council uses Internet and Intranet facilities for communication and information dissemination internally between its staff and externally with the public. This is an area of significant importance and it is vital that the content and security surrounding the management of the Internet and Intranet facilities provides confidentiality, integrity and assurance over the information contained on the Intranet site or transmitted via the Internet. It is imperative that the usage of Internet facilities by the Council is secured and does not provide an access vector to unauthorised personnel
- 1.2 This audit is part of the agreed Internal Audit Plan for 2016/17.

#### 2. OBJECTIVES AND METHODOLOGY

- 2.1 The overall audit objective is to provide an objective independent opinion on the adequacy and effectiveness control framework operating
- 2.2 In order to achieve the overall objective, a risk based systems audit approach will be carried out, documenting and evaluating the actual controls against those expected and based on this, undertaking appropriate testing. Comparison will be made as appropriate with best practice guidance.
- 2.3 The key findings, conclusions, and subsequent recommendations arising will be discussed with management at an exit meeting, followed by the circulation of a draft report for consideration, prior to agreement and issue of the final audit report.

#### 3. SCOPE





- 3.1 This audit will examined the following areas, (as these relate to Internet and Intranet Security):

Control Areas/Risks	Recommendations Made		
	Priority 1 (High)	Priority 2 (Medium)	Priority 3 (Low)
Internet and Intranet Policies	0	0	0
Internet Firewall Administration	0	0	0
Access Authorisation	0	0	0
Internet Firewall Configuration	0	0	0
Internet Browser Configuration	0	0	0
Logging and Monitoring	0	0	0
Firewall Change Control	0	0	1
Intranet Site Security and Content Management	0	1	0

## DEFINITIONS FOR AUDIT OPINIONS AND RECOMENDATIONS

In order to assist management in using our reports:

We categorise our **audit assurance opinion** according to our overall assessment of the risk management system, effectiveness of the controls in place and the level of compliance with these controls and the action being taken to remedy significant findings or weaknesses.

	Full Assurance	There is a sound system of control designed to achieve the system objectives and the controls are consistently applied.
	Substantial Assurance	While there is basically a sound system of control to achieve the system objectives, there are weaknesses in the design or level of non-compliance which may put this achievement at risk.
	Limited Assurance	There are significant weaknesses in key areas of system controls and/or non-compliance that puts achieving the system objectives at risk.
	No Assurance	Controls are non-existent or weak and/or there are high levels of non-compliance, leaving the system open to the high risk of error or abuse which could result in financial loss and/or reputational damage.

Priorities assigned to recommendations are based on the following criteria:

<b>Priority 1 (High)</b>	Fundamental control weaknesses that require the immediate attention of management to mitigate significant exposure to risk.
<b>Priority 2 (Medium)</b>	Control weakness that represent an exposure to risk and require timely action.
<b>Priority 3 (Low)</b>	Although control weaknesses are considered to be relatively minor and low risk, action to address still provides an opportunity for improvement. May also apply to areas considered to be of best practice.

## Statement of Responsibility

We take responsibility to the London Borough of Croydon for this report which is prepared on the basis of the limitations set out below.

The responsibility for designing and maintaining a sound system of internal control and the prevention and detection of fraud and other irregularities rests with management, with internal audit providing a service to management to enable them to achieve this objective. Specifically, we assess the adequacy and effectiveness of the system of internal control arrangements implemented by management and perform sample testing on those controls in the period under review with a view to providing an opinion on the extent to which risks in this area are managed.

We plan our work in order to ensure that we have a reasonable expectation of detecting significant control weaknesses. However, our procedures alone should not be relied upon to identify all strengths and weaknesses in internal controls, nor relied upon to identify any circumstances of fraud or irregularity. Even sound systems of internal control can only provide reasonable and not absolute assurance and may not be proof against collusive fraud. The matters raised in this report are only those which came to our attention during the course of our work and are not necessarily a comprehensive statement of all the weaknesses that exist or all improvements that might be made. Recommendations for improvements should be assessed by you for their full impact before they are implemented. The performance of our work is not and should not be taken as a substitute for management's responsibilities for the application of sound management practices.

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