ICT Review (February 2014)

Risk rating	Recommendations	Accepted	Implemented	Outstanding
Red	0	0	0	0
Amber	7	7	6	1
Green	12	11	11	0
	19	18	17	1

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014)	management response	Our ent i Osition at Oeptember 2010
Recommendation 1		
Issue:		
A current ICT strategy does not exist.	The current ICT Strategy was ratified in June 2005	Recommendation implemented
	so is due for revision. The Corporate Management	
Risk:	Board has agreed that the revised strategy will be	
The lack of a current ICT strategy and therefore lack	consulted upon and produced post April 2014. This	
of planning can result in risk of failure to achieve	will give the organisation sufficient time to instigate	
business objectives.	and complete critical mail, server and infrastructure	
	improvement projects by March 2014.	
Risk rating: Amber		
	Responsibility: Frank Smith, Director, Corporate	
Recommendation:	Resources	
Formalise and document the ICT strategy in line		
with the business requirements.	Target Implementation Date: August 2014	
	Progress note (September 2014):	
	The critical projects led by the City of London ICT	
	and Agilisys had been delayed hence the delay in	
	completion of the task. The mail migration project	
	and server tasks noted were finally were only	
	delivered early September 2014 with a revised date	
	proposed of October 2014 for the infrastructure	
	recommendations. Revised date for strategy	
	completion, January 2015.	

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 2		
Issue: A staff data security and sensitive data awareness training programme does not exist thus staff potentially unaware of the data security aspects related to their environment. Risk: Data loss due to insufficient training with a potential for loss of reputation.	London Councils has been trying to implement an appropriate programme of training in line with what the City of London does for some time. However, the on-line/e-learning courses on protecting Information and Data Security which City of London employees are required to complete is only now available to London Councils staff. The DPA and FOI modules are not.	Recommendation implemented
Risk rating: Green Recommendation: LC are recommended implement an appropriate programme of training in line with industry guidelines.	A training package will be developed which combines what is available on-line via the e-portal with a bespoke London Councils element, which will be delivered to all staff at Southwark Street/Angel Square. Responsibility: Christiane Jenkins, Director, Corporate Governance Target Implementation Date: August 2014	
Recommendation 3	Target implementation Date. Adjust 2014	
Issue: Computer room does not conform to best practice guidelines and generally needs improving such as suitable preventative measures in place. For example the cooling mechanism needs an approved permanent solution, computer cables need labelling and tidying, etc. Audit is aware there is an on-going improvement programme underway in this area as part of the LC report by CoL and most parts are being already being dealt with. Risk: Partial or total loss of the computer room and/or services thus adversely affecting the business with a	All redundant kit and cabling has already been removed from the computer room and as exiting server hosts are being virtualised remaining redundant hardware will be decommissioned. The mail server hosts will be decommissioned post the Office365 migration in April/May 2014. A UPS has also been installed to support the new virtual server environment. The remaining phone and PBX servers will also be virtualised. A second permanent air cooling unit was commissioned and installed in January 2014 providing the required air cooling temperature throughout this space.	Recommendation implemented

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Risk rating: Amber Recommendation: LC are recommended to review all aspects of the computer room and improve/align them with industry best practice guidelines.	Any other required improvements are building works changes. As the building is owned by the City of London Corporation, it is suggested that the City Surveyors provide costs for these improvements, as a refurbishment of the server room together with any 3rd party equipment should be completed as a single project.	
	Responsibility: Roy Stanley, ICT & Facilities Manager	
	Target Implementation Date: January 2015	
	Progress note (September 2014)	
	Activities met February to August 20014; • Avaya PBX upgraded alongside associated patch cabling and voice networking • Three additional physical data and production servers have now been virtualised, with only one server (DOCSERVER) remaining on-site scheduled for migration to new virtual platform post the Office 365 migration September 2014. BlackBerry (BBERRY)server now decommissioned (hosted within Office 365 cloud service) and old telephone server (PHONESERVER) decommissioned and new admin and voicemail server for new Avaya phone platform rebuilt as a virtual Windows 2008 server	
	Activities to be completed post September 2014; Destruction and removal of all redundant server data on decommissioned physical servers hardware and safe collection and disposal organised	

Appendix C

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
	As part of the London Councils PATAS (parking & Traffic Appeals Service) service tender a Lot has been incorporated for the provision of a full managed ICT services at London Councils from June 2015. This would include the management and hosting of the complete London Councils server infrastructure into laaS platform which means the Southwark Street site would become infrastructure free from June 2015. We will know more regarding the award of this lot once contract has been awarded in November 2014	

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014)		
Recommendation 4		
Issue: Email is running on outdated fragile hardware.	These issues will be resolved with migration of LCs	Recommendation implemented
Email software is two versions out of date and on extended support until April 2014.	email stores to cloud storage (Office 365). This project is has been scoped in conjunction with CoL and cloud consultants Content & Code. Progress	
Email is critical to LC for performing the daily business operations.	and project plan is reviewed weekly with controls in place. Tests will begin with a testing group during February 2014 with full roll-out projected to be	
Risk:	completed early April 2014.	
Email service failure or Email is unsupported.		
	Responsibility: Roy Stanley, ICT & Facilities	
Risk rating: Amber	Manager	
\$ <mark></mark>		
Recommendation:	Target Implementation Date: April 2014	
LC and CoL are aware of the risks (from the LC		
technology report) of the current software and		
timescales. A project to replace the Email system		

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 5		
Issue: The IP network at the Southwark Street currently utilises a public IP range. The use of a public IP range is not considered best practice and can cause issues with a network that has connection to the Internet. Risk: Future IP conflicts are possible with the reallocation of the IP range. LC systems using this range will become unusable.	The London Councils network in its present topology could support multiple subnets however additional or replacement networking equipment would be required to achieve this. Agilisys, the City of London's ICT contractor can provide London Councils with a proposal for this network infrastructure upgrade and the project plan for migrating to a new IP addressing scheme. This would be a new service request that would need to be further scoped. City estimates are at present around £40,000 for this piece of work.	New firewalls and DMZ implemented at Southwark Street and DR site All LAN hardware upgraded All local area networking switched upgraded VLANs implemented per floor for added resiliency and security All services migrated to new private 10 network
Risk rating: Green Recommendation The London Councils Reports highlighted this issue however a proposed solution has not been confirmed yet. Consider implementation of a proper IP subnet to improve security and conform to best practice standards to avoid future problems.	Responsibility: Roy Stanley, ICT & Facilities Manager Target Implementation Date: January 2015 Progress note (September 2014) Cost estimates and network proposals from City of London ICT and Agilisys quoted to accomplish this activity have not altered. As an element of the London Councils PATAS service we have requested the tenders to propose options for the networking infrastructure piece so it may be prudent to explore the models and solutions being proposed by the managed service tenders if contract is awarded to another ICT provider. The tenderers on the Lot 3 shortlist have proposed solutions which we would then work on in detail post contract award in November 2014.	

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014)		-
Recommendation 6		
Issue: Password security standards for LC does not exist therefore security within a number of systems is probably less than best practice. Risk: Risk of unauthorised access to systems and sensitive data. Risk rating: Green	London Councils Active Directory domain logons follow a best practice password policy adopted from the City of London. London Councils will carry out a further scoping exercise of all our existing systems that do not meet best practice password policies and this can be managed as separate project. All staff are issued with a password and all the Internet/Email/Telephone Policy states:	Recommendation implemented
Recommendation: Establish and implement LC password security standard in line with industry best practice and apply to all systems.	"individuals are required to follow the necessary security disciplines and to keep their passwords totally confidential". London Councils will periodically remind staff that this is the case. Responsibility: Roy Stanley, ICT & Facilities Manager Target Implementation Date: January 2015	

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014)		
Recommendation 7		
Issue: Remote Access is permitted requiring only the computer IP, username and password to gain access. Additional security verification is not enforced with use of a security fob or similar. Risk:	London Councils are in the process of migrating their remote access solution onto a server farm built on Windows Server 2008. Staff will now be required to access the remote service using a secure desktop icon which contains additional security and gateway data. The IP address gateway access will	The technical solution has been implemented and system tests completed. The system is ready to be rolled out to all staff once the support arrangements with the Agilisys ICT service desk are in place. The support arrangements will be in place before the end of September 2016.
The system is less secure and vulnerable to	be switched off in March 2014.	
malicious access by allowing an easier entry point to	D 11111 D 01 1 10T 0 F 1111	
the LC systems and data.	Responsibility: Roy Stanley, ICT & Facilities Manager	
Risk rating: Green	Wallagei	
3	Target Implementation Date: March 2014	
Recommendation:		
Install suitable access measures which include two	Progress note (September 2014)	
factor authentication which requires the current user logon and password, and additionally a security fob or similar.	The above activity was completed in February 2014 and is in full use by the business.	
	However, a remote access security breach in	
	September 2014 has resulted in reconsideration of the level of risk acceptance of this area by London	
	Councils. A scoping and costing exercise for 2FA	
	has been requested from the CoL IS department as a matter of urgency.	

Appendix C

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014)		
Recommendation 8		
Issue:		
Lack of recording and monitoring of LC network	Agilysis and the City of London have been asked to	Recommendation implemented
logins.	provide a proposal for additional security for the	·
	monitoring of network logons, which will be reviewed	
Risk:	by the ICT and Facilities Manager.	
Invalid and potentially malicious access attempts	y are real and reasonanagen	
going undetected and unreported.	Responsibility: Roy Stanley, ICT & Facilities	
going undetected and unreported.		
Diels notings Organ	Manager	
Risk rating: Green	T	
	Target Implementation Date: January 2015	
Recommendation:		
LC are recommended to implement a procedure to	Progress notes (September 2014)	
include logging, monitoring and reporting to allow	Still awaiting costs and proposals from City of	
assessment of the data for corrective action.	London and Agilisys.	

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 9		
Issue: Internet access is almost unrestricted thus allowing access to unsuitable sites and social media sites. Risk: Inappropriate use of the internet and possibility of download of malware as well as wastage of staff time. Risk rating: Amber Recommendation: Create an responsible internet access policy and disseminate to staff.	London Councils has a well-documented and intranet accessible Internet/Email/telephone Policy which clearly sets out what is acceptable/not acceptable. Access to unacceptable sites was blocked in 2010 and allowable access was discussed at length by London Councils Corporate Management Board and as a consequence the Internet/Email/telephone Policy alongside the equally accessible Social Media Guidelines are considered adequate for London Councils. The current Ironport web proxy and URL filtering system is currently not filtering due to a fault. The implementation of Webroot would allow London councils to enforce its internet access policy. Webroot testing is due to start in February with implementation later that month. Responsibility: Roy Stanley, ICT & Facilities Manager Target Implementation Date: February 2014 Progress notes (September 2014) After a detailed review of projects March 2014 in particular our key infrastructure projects and deliverables being managed by the City of London and Agilisys, it was agreed that there would be reduced risk if this activity was completed post Office 365 mail migration and tenancy project. As the Office365 project only completed in September 2014 and implications for the new London Councils website and intranet portals that go live during October, deployment of Webroot across the organisation has now been rescheduled for late October 2014.	Recommendation implemented

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 10		
Issue:		
Hardware such as CD drives and USB ports are	Agilysis have been asked to provide a proposal for	Recommendation implemented
unsecured thus data can be copied onto portable devices.	installing appropriate software to make the use of portable media more secure. The proposal will be	
devices.	considered by the ICT and Facilities Manager.	
Risk:		
Sensitive data may be copied and carried off the	Responsibility: Roy Stanley, ICT & Facilities	
premises thus risking data breach.	Manager	
Risk rating: Amber	Target Implementation Date: July 2014	
and the state of t		
Recommendation:	Progress notes (September 2014)	
Consider restricting access to administration users	This task has not commenced. In conjunction with	
only and locking down PC's so data cannot be easily copied and additionally implement a process	CoL and Agilisys rescheduled for completion January 2015.	
to enable data copy requests with suitable controls.	Garidary 2013.	
Recommendation 11		
Issue: Inadequate monitoring and management of storage	Daily checks are in place monitored by the City ICT	Recommendation implemented
capacity for the email system.	team for LCCOMMS as this server has had some	Recommendation implemented
sapasky for the email eyelem.	disk space issues. Further work is due to be carried	
Risk:	out to reduce mailbox database sizes prior to	
System downtime.	migration to the cloud services. Mutiny alert	
Risk rating: Amber	software is currently used on all systems to alert on disk usage over 80%.	
Triol rating. Attibut	alon doago over 6070.	
Recommendation:	Responsibility: Roy Stanley, ICT & Facilities	
Implement suitable controls for monitoring and	Manager	
management of disk capacity for the email system and other critical systems.	Target Implementation Date: May 2014	
and other chilical systems.	ranger implementation bate. May 2014	

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014) Recommendation 12		
Recommendation 12		
Issue: The existence of an FTP server. The exact use and user restrictions are unknown and until recently it was in an unrestricted area. FTP data transfer is still possible.	This server is now decommissioned and only secure data transfer will now be permitted. Responsibility: Roy Stanley, ICT & Facilities Manager	Recommendation implemented
Risk: Transfer of data in an unsecure manner.	Target Implementation Date: December 2013	
Risk rating: Green		
Recommendation: The LC are aware of this issue from the report produced by CoL which resulted in the move of the FTP server into more secure area, however, further improvements are recommended.		
As a minimum modify the server to only allow only secure data transfer using Secure File Transfer Protocol (SFTP) as opposed to FTP. Implement a process for assessing and authorising use of this facility and document user and data transfer information.		

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 13		
Issue:		
The percentage of support calls completed within	Since January 2014 Agilisys have now have	Recommendation implemented
SLA targets is lower than expected (65-80%).	implemented a new service management tool Hornbill which will be available to provide more	
Risk:	accurate information on SLA and areas where call	
The support provided is inadequate.	resolution is not meeting targets. The ICT &	
	Facilities Manager, who is responsible for the client-	
Risk rating: Green	side management of the ICT service provided by the	
Recommendation:	City, now has access to the City's call logging portal so is now able to monitor all logged and breached	
A monthly review of support calls that exceed SLA is	incidents and service requests.	
advised with a view to identifying problem areas and	·	
acceptable delays for a more accurate assessment	Responsibility: Roy Stanley, ICT & Facilities	
of the level of service provided.	Manager	
	Target Implementation Date: February 2014	
Recommendation 14		
Issue:		
A single source of information on ICT contracts and	Contract data is being compiled and will be held in a	Recommendation implemented
agreements information does not exist. This can	single contracts register.	,
result in critical renewal dates being missed.		
Risk:		
Possible interruption of service or potentially a		
poorer service.		
B. J		
Risk rating: Green		
Recommendation:		
Consolidate important information into a ICT		
contracts register with a procedure to regularly		
review and update the contents.		

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Review (February 2014)		
Recommendation 15		
Issue:		
Security is not enforced for voicemail on telephones.	London Councils currently manage telephony and	Recommendation not accepted.
	voicemail system. All telephones are accessible for	
Risk:	all staff to use and to monitor and pick-up and to	
Private and sensitive voicemails are accessible by	ensure any voicemail messages are dealt with.	
all LC staff.	, c	
	London Councils does not consider that a voicemail	
Risk rating: Green	pin code is necessary – this will mitigate staff being	
3 3	able to cover for one another and provide a proper	
Recommendation:	service to our customers/stakeholders.	
Enforce voicemail pin code functionality which is		
already available.		
Recommendation 16:		
Troopininonauton 10.		
Issue:		
The database for the LC GIFTS system not patched	An SCCM server is currently in place and will be	Recommendation implemented
to latest security level.	configured to automate the MS Windows Server	Recommendation implemented
to latest security level.	patching.	
Risk:	patering.	
	MC COL parvara are not notabed automotically due	
The systems are exposed to known and fixable	MS SQL servers are not patched automatically due	
vulnerabilities.	to the complexity and impact of patches across a	
Did to a	MS SQL server hosting multiple databases. A	
Risk rating: Green	review of existing 3rd party database application will	
	be carried and the MS SQL server patches will be	
Recommendation:	applied	
Install latest security patches and implement a		
procedure to regularly patch all systems.	Responsibility: Roy Stanley, ICT & Facilities	
	Manager	
	Target Implementation Date: Already in place	

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 17		
Issue: There is a lack of resilience, for example, only a single firewall in place at both LC and CoL sites. Risk: Single points of failure would result in service interruption. Risk rating: Amber Recommendation: Investigate infrastructure for all points of failure and initiate a project to improve resilience otherwise include reasons for risk acceptance. In the meantime ensure the firewall configuration is backed up regularly.	The City of London site is the DR site for London Councils and the need for dual firewalls at this site may not be cost effective. The London Councils site firewall is managed by a third party (BIS) who provide backups of the firewall configuration and an SLA for hardware faults. The existing Virgin media Internet link currently has an SLA call out target of 8 hours. Aglisys have estimated an additional annual cost of £10,000 for a fully resilient internet fail-over connection. Responsibility: Roy Stanley, ICT & Facilities Manager Target Implementation Date: July 2014 Progress notes (September 2014) Cost estimates and design architecture proposed by the City of London ICT and Agilisys have not changed. As part of the London Councils PATAS service retender we have requested the tenders propose options for a fully managed or infrastructure free service for London Councils and a managed service DR site therefore it may be prudent to explore those models proposed if contract is awarded to another ICT provider. The service providers on the Lot 3 shortlist have proposed solutions which include laaS which we would then work into detail post contract award in November 2014.	Recommendation implemented New firewalls and DMZ implemented at Southwark Street and DR site All LAN hardware upgraded All local area networking switched upgraded VLANs implemented per floor for added resiliency and security All services migrated to new private 10 network

Issue, Risk & Recommendation ICT Review (February 2014)	Management Response	Current Position at September 2016
Recommendation 18		
Issue: LC BCP plan last updated 16 months ago. The Angel Square site BCP is more current but needs updating to reflect latest changes (eg staff changes).	Both documents for 59½ Southwark Street and Angel Square are in the process of consultation and review. This will be conducted in conjunction with Recommendation 19.	Recommendation implemented .
Risk: The plan is out of date and may jeopardise business continuity in a disaster. Risk rating: Green Recommendation: Update the current BCP plans and regularly review (at least annually).	Responsibility: Roy Stanley, ICT & Facilities Manager Target Implementation Date: June 2014 Progress notes (September 2014) This activity has not started due to delays and additional work required to complete Office 365 and server decommissioning projects. Revised date February 2015. The lease on Angel Square comes to an end in July 2015 therefore a new plan will be constructed for the new PATAS service, location yet to be finalised.	
Issue: A single comprehensive DR plan does not exist although some individual systems undergo DR. Risk: DR is inadequate or not possible thus recovery could be severely delayed. Risk rating: Green Recommendation: Produce a comprehensive DR plan inclusive of testing.	In conjunction with Recommendation 18 a single comprehensive DR with test plan will be devised. A test of the DR plan will be undertaken post the Office365 implementation. Responsibility: Roy Stanley, ICT & Facilities Manager Target Implementation Date: June 2014 Progress notes (September 2014) This activity has not started due to delays and additional work required to complete Office 365 and server decommissioning projects. Revised date February 2015.	Recommendation implemented

ICT Strategy (May 2016)

Risk rating	Recommendations	Accepted	Implemented	Outstanding
Red	0	0	0	0
Amber	1	1	1	0
Green	2	2	1	1
	3	3	2	1

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Strategy		
(May 2016)		
Recommendation 1		
Issue:		
No evidence was obtained of Disaster Recovery test	Recommendation accepted. London Councils have	Recommendation implemented
exercises having been performed.	added a comprehensive testing plan to be carried out in conjunction with the City of London and	As part of the key network and infrastructure
Risk:	Agilisys. The test plan along has been ratified by	upgrade works completed during the summer the
Assurance cannot be provided that the IT element of	London Councils CMB and will reside in the current	full testing of primary and DR sites were completed.
Business Continuity will ensure availability of key	Business Continuity Plan (Appendix A, page 62-63)	See Appendix A of current BCP for details
services in the event of a disaster.	activity to commence April 2016. Testing results will	
	be available in the quarterly updates of the BCP	
Risk rating: Amber	plan next due in July 2016. This will be implemented	
Recommendation:	by August 2016.	
	Deemanaihilitus Day Stanlay ICT and facilities	
Disaster Recovery test exercises should be	Responsibility: Roy Stanley, ICT and facilities	
scheduled at the earliest opportunity to ensure continuity.	manager	
•	Target Implementation Date: August 2016	

Issue, Risk & Recommendation	Management Response	Current Position at September 2016
ICT Strategy		·
(May 2016)		
Recommendation 2		
Issue: Disk storage thresholds are not documented. Additionally historical growth charts have not been provided to London Councils. Risk: Without formally documented arrangements LC cannot be sure the thresholds are as expected and potentially lower thresholds can result in system unavailability. Risk rating: Green Recommendation: Usage criteria should be formalised and regular review of storage utilisation considered by management.	Recommendation accepted. The activity will be carried out by Agilisys and reviewed at our monthly SLA meetings between CoL and Agilisys and commence during second quarter 2016/17 meetings. Responsibility: Roy Stanley, Roy Stanley, ICT and facilities manager Target Implementation Date: August 2016	Recommendation implemented With the new IP network in place (10 network) completed as part of the infrastructure and LAN upgrades, network monitoring and server alerts now in place run by VLMCMUNITY. Agilisys' staff at the Guildhall and Rochdale are able to monitor storage thresholds. Reports will be generated and reviewed at monthly service review meetings
Recommendation 3		
Issue: Checks are not performed to ensure third party compliance. Risk: Without periodic checks and provision of evidence such as compliance certificates it cannot be guaranteed that London Councils' interests are adequately safeguarded.	Recommendation accepted. Most if not all our principle third part contracts such as Lorry Control and ESP are up for renewal this year. London Councils will ensure these checks and evidence of compliance certificates are made available and incorporated into the requirements for renewal or into the new contracts. This will be actioned by September 2016	Recommendation to be implemented by September 2016. In progress
Risk rating: Green	Responsibility: Roy Stanley, Roy Stanley, ICT and facilities manager	
Recommendation: Where compliance is the responsibility of a third party an annual compliance certificate should be obtained.	Target Implementation Date: September 2016	

Appendix C

Priority risk rating key:

Low risk and/or weakness already been addressed Medium risk requiring mitigation and prompt action High risk, urgent action required <mark>Green</mark>: Amber:

Red