

Final Follow-up Report



Somerset County Council (SCC)

► Follow-up: AIS (Adults Integrated Solution)

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Final Follow-up Report

Application Review- AIS

Management Summary

As part of the 2012-2013 audit plan an audit of the AIS application was carried out at the Council.

The audit focused primarily on the following key risks;

- Application does not meet business and Data Protection requirements
- Unauthorised access and disclosure of sensitive information
- Application availability cannot be assured.

The purpose of follow-up audits, where partial assurance has been given, is to provide some assurance to the S151 Officer, Senior Leadership Team and Audit Committee that agreed actions to mitigate risk exposure have been implemented. Partial assurance was given in the original audit due to significant corporate risks identified. These included the application not meeting business and Data Protection requirements and being unable to assure application availability.

The following risk table identifies a summary of the progress made in regards to implementing controls to mitigate the risks established.

Original Priority Score	Original No. of Recommendations	Complete	In Progress	Incomplete
Priority 3	8	1	4	3
Priority 4	4	0	1	3

Conclusion



As the table above demonstrates, limited progress has been made in implementing the recommendations made in our 2012-13 audit report. Our follow up audit process requires only verbal assurances and updates for priority 3 recommendations and documentary evidence for priority 4 (and 5) recommendations. In this case we have been unable to obtain documentary evidence to support the implementation of our priority 4 recommendations. Nor have we been able to establish revised implementation dates for the outstanding recommendations. Accordingly our opinion is based on the verbal assurances provided.

Limited progress has been made in implementing the recommendations from our 2012-13 audit report and AIS performance and response times can still be less than adequate for users' needs. Southwest One are

(Audit Committee – 2 July 2015)

unwilling to develop a Service Level Agreement (SLA) specifically for the AIS application and our recommendation to use an SLA to underpin AIS performance and response times that are sufficient for Adult Social Care (ASC) operations is not feasible. We have been assured that a new test environment has been implemented and this aspect of our recommendation has therefore been progressed.

Poor response time has led to the disabling of enhanced audit trails/logs that would make it possible to trace and attribute user activity in the system. The latter point is worrying. The data handled is sensitive and personal and as such it must be surrounded by adequate security in accordance with Data Protection legislation. Given this concern, the data integrity issues flagged up in the original audit report as well as the Council's statutory responsibilities regarding vulnerable adults, SWAP recommend a further full audit of this application early in 2015/2016 to provide the Council with assurances about the accuracy and completeness of the sensitive data held.

Adults Integrated Solution (AIS)

Updated Action Plan

Finding	Recommendation	Priority Rating	Management Response	Responsible Officer	Implementation Date	Follow Up Findings
	ensure that the AIS application of ely and compliant data and manage					
Risk 1. Application	does not meet business and regul	atory red	quirements			
AIS repair reference	I recommend that the roles & responsibilities of ASC Operations, SCC Finance, SWO, ICT, the AIS Programme Board & the AIS System owner be defined to ensure effective communications and decision making. Helen Wakeling, the Caldicott guardian, has been fulfilling the role of AIS System Owner which also needs to be formalised.	4	Roles and responsibilities will be discussed at the AIS Programme Board. They will be documented and will include system ownership and the responsibility for signoffs required by ASC and SCC Finance. Update for 2 nd July: Caldicott Guardian – confirmed Mel Lock to be AIS system Owner in Nov 2014 A review of AIS with a view to possible replacement will be started as part of Transformation Programme in Q3 2015/16.	AIS Programme Board, Barrie Fitzpatrick, Helen Wakeling, SCC Finance NA A Grigg / D Cole	Complete Implementation is likely to start	INCOMPLETE: Verbal assurances were provided that the ToR for AIS Programme Board had been reviewed and that roles & responsibilities in relation to system ownership had been clarified. However, no evidence was provided to support these assurances. Update: As of November 2014, Helen Wakeling (AIS System Owner) has left SCC. The responsibility of AIS system ownership needs to be reassigned and formalised.

	SWAP Ref: 21842		AIS Review dates documented in Adults Transformation Programme Plan		implementation dependent on AIS review & business requirements to incorporate the Care Act and also the review of Children's systems.	No revised implementation date received.
1.2a AIS data quality is undermined by the lack of robust input validation.	I recommend that the AIS System Owner should require that AIS is modified to include robust validation and authentication, and should consider using a unique identifier, such as NHS or NI number, as the key. Information Management should identify potential duplicates for analysis and review by ASC Operations.	3	ASC needs the flexibility to be able to enter minimum data to ensure timely care is provided. However there is a project to validate the NHS #, if entered in AIS. A report will be requested from Information Management to identify potential duplicates for investigation and action.	AIS System Owner, Information Management	31 December 2013	IN PROGRESS: Verbal assurances were provided that Potential Duplicates Validation Report is produced as Business As Usual. Any potential duplicates will be emailed to the Business Systems Team mailbox where they will be investigated.
			 Update for 2nd July: NHS Number matching exercise now complete – second import ran in May and will be transitioned into BAU in Q2 2015. New processes in place to 	A Grigg / D Cole A Chisholm	Transition to BAU Q2 2015 Went live in BAU on 11 th	Delays due to obtaining data sharing agreement from Health colleagues & then problems with Northgate script. Testing is now being done in test database to ensure script

	SWAP Ref: 21305		improve quality of data inputting. • Have representation on South West One user group to provide feedback on elements of the system to ensure continuous improvement taken account of.	A Grigg / D Cole	April 2015 for reviews and assessments. Ongoing	does as expected. The first NHS number- matching exercise completed in July 2014. Over 90% matched but some 8,000 children's data still needs validating. No revised implementation date received.
1.3a The interface between the AIS and Protocol applications can create duplicates.	I recommend the AIS and Protocol System Owners should consider a more appropriate and robust solution for the sharing of data between the AIS and Protocol applications.	3	A PIR will be submitted proposing a joint review of the process with consideration for sharing rather than propagating data Update for 2 nd July: NHS Numbers now allow for a total review of matching/integration but more work required as the data is not routinely collected where there is not a Client relationship.	AIS System Owner A Grigg / D Cole	31 December 2013 • Need full review of integration before can confirm implementation date. Review	IN PROGRESS: Verbal assurances were provided that work was underway to improve functionality of Snapshot browser. This will add key fields in to identify if a child is in care or subject to a child protection plan. Delays in obtaining necessary APIs from Liquid Logic meant that this should be available from 29/08/14. Also,

	SWAP Ref: 21242		Dependency on Children's for transitions.		of integration scheduled for Q3/4 2015/16.	looking into using NHS number as the key to match records between AIS and Protocol. No revised implementation date received.
controls between AIS & SWIFT as could not be assessed.	recommend that controls that ensure the completeness, accuracy and security of AIS/SWIFT and SAP interfaces should be documented by SWO and made available for review by the AIS System Owner and SWAP. AIS/SWIFT should be modified to utilise SAP general ledger codes.	3	AIS System owner will request that SWO document the controls that ensure the completeness, accuracy and security of AIS/SWIFT and SAP interfaces. Consideration will be given to the use of SAP general ledger codes in the project considering using Block Contracts, ISP and Direct payment functionality in AIS/Swift. Update for 2 nd July: ISP Phase 2 went live in January and the final phase (phase 3, covering Direct payments) is due to go live in August 2015.	AIS System Owner A Grigg / D Cole	31 December 2013	IN PROGRESS: Verbal assurances were provided that a project is underway to implement ISP as a replacement for SSPI. Changes to reporting required as a result of ZBR mean that there is a need to consider using SAP codes in AIS/SWIFT. Phase 1 of ISP has been implemented, Phase 2 is about to start. However, neither phase will involve moving from CEDAR to SAP codes. SWO are about to start a review of Residential

	SWAP Ref: 23455		review by SWOne and potential business process changes in ASC mean that this is currently on Hold	A Grigg / D Cole	On Hold	how best to replace it. No revised implementation date received.
1.4a The rationale for utilising certain AIS functionality and for not using other functionality has not been documented.	I recommend the AIS System Owner document decisions and rationale for which AIS functionality is and is not being utilised in AIS and expedite the implementation of the Digital Dashboard. SWAP Ref: 21247	3	At a meeting of the AIS Programme Board a project will be initiated to document decisions and rationale for which AIS functionality is and is not being utilised in AIS. The issues related to the implementation of the Digital Dashboard have already been raised with senior management and are being addressed. Update for 2 nd July: Minimum data set now defined and business processes are being updated and will be implemented in Q2 2015/16	AIS System Owner	31 December 2013	INCOMPLETE: The project to document rationale for using/not using certain functionality has not started due to capacity issues. As part of upgrade to V29, decisions will be documented regarding the non-use of specific functionality. This is due to poor system performance & moving to a 'vanilla' product with less configuration by SCC & SWO. This reduces the risk of disruption re: upgrades / service packs. Decision taken NOT to use Digital Dashboard.

						Rationale: Managers couldn't use the DD reports, didn't 'drill down' & not fit for purpose. Work is underway to improve the capacity & stability of BOXI. Reports will be drawn from BOXI instead of DD. No revised implementation date received.
1.4b Functions available in AIS are being performed in spreadsheets that may not be secure.	I recommend that the AIS System Owner obtain from SWO details of the security and back- up procedures over all spreadsheets used by ASC Operations and SCC Finance. This should be evaluated and recommendations for enhancements made where required.	3	AIS System owner will request this information from SWO, evaluate and take appropriate action.	AIS System Owner	2013	COMPLETE: All spreadsheets stored on network drives are backed up nightly. The back-up tapes are stored securely off-site by SWO. They are retained for a 6-week period before being over written. Findings confirmed by recent SWAP Corporate Back-up routine audit.
1.5a. There are no reports or	I recommend the AIS System Owner requests the	4	AIS System owner will develop reporting	AIS System Owner	31 December	INCOMPLETE:

processes, other than database monitoring that ensure the ongoing integrity of AIS data and the appropriateness of payments.	implementation of reporting & related review processes to monitor & ensure the integrity of AIS data & the appropriateness of related payment transactions. Possible examples: reporting daily totals of critical values (such as total clients, total approved care package), excessive orders for services below the £1,000 approval threshold, payments in excess of the approved care plan, payments after date of death applied, reversal of date of death, & an automated comparison of payments made from SAP to AIS for appropriateness etc.		requirements. Update for 2 nd July: New assessment and review processes with Business support taking ownership for data input to improve data quality. Implemented 11 th April 2015	A Chisholm / P Cannons	Implementation complete - Ongoing quality assessment	SWO had been asked to produce a monthly report identifying users that had not accessed AIS during preceding 2 months and users accessing AIS outside office hours (11pm-6am). This requires an Oracle report and SWO are trying to sort this out but has not been completed at present. Further consideration is being given to additional reporting re: payments after date of death, payments in excess of care plan etc. No revised implementation date received.
Risk 2. Unauthorise	ed access and disclosure of sensitiv	e inform	nation			
2.1a AIS security provides the potential for unauthorised	I recommend that the AIS System Owner discuss the AIS security capabilities with Northgate and develop their AIS	3	AIS System owner will request Security documentation from	AIS System Owner Northgate	31 December 2013	IN PROGESS: Verbal assurances that Security Group Roles

have not be utilised in a specific period of time and implementing a robust leavers process and password reset procedure. SWAP Ref. 23244
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						being reviewed (led by one of the Business Support Officers). ASC will assist review. No revised implementation date received.
2.2a The AIS audit trail does not provide details of the last user access.	I recommend that options exercised over the audit trail and logs currently maintained in AIS should be documented by SWO in order that the AIS System Owner can assess its adequacy for routine and potential fraud related investigations.	3	ASC Response We will request this information from SWO, evaluate & take appropriate action when it is provided. SWO Response: SWO maintains controls at the server and database levels. If the AIS System Owner has specific controls requirements for the application, SWO is willing to work with Northgate and the AIS System Owner to determine a solution. Update for 2 nd July: • Audit trails and logs will be revisited in the light of new hardware following the V29	SWO & AIS System Owner A Grigg / Darren Cole	Review will happen in Q3 2015/16.	INCOMPLETE: ASC have used enhanced audit trails/logs before but they have had a major impact on the performance of the system and were switched off again. ASC will review their use again as part of the upgrade to v28. This is a finding that has been identified since the original audit and should be addressed to mitigate the risk that important audit trail information is not being captured and the potential for fraud or misuse of sensitive data.

			upgrade in June 2015.			No revised implementation date received.
Risk 3. Application	availability cannot be assured					
3.1a If the SCC Data Centre was unavailable for any reason applications could be unavailable for a month or even more.	I recommend that the AIS System Owner review the current emergency plan to ensure it is adequate for an outage of one month or more. In addition the AIS System Owner should ensure the plans address the continuation of payments and addresses the need for on-going client communications.	4	We will review the current plan to determine what changes are will be necessary for an outage of a month or more. We will meet with Corporate Business Continuity Planning to ensure all plan address possible contingencies. Update for 2 nd July: • DR is part of a wider corporate review expected to complete by Q4 2015/16. (Hosting and new contracts for applications will include full DR.)	AIS System Owner A Grigg / D Cole	Q4 2015 / 16	INCOMPLETE: Outages in region of 1 month or more are covered by the Corporate DR Plan. This is currently being reviewed, no evidence of DR Plan made available. SWO are reviewing system continuity —for AIS as well as Protocol — & will recommend any improvements. No revised implementation date received.

3.4a Issues identified in new releases are not always addressed by Northgate	I recommend the AIS System Owner should require that issues are tracked to completion. If they cannot be implemented in the current release they should be tracked, reported and added to the next release or patch. The contract should be reviewed to ensure all available penalties are claimed for not fixing known documented problems.	3	We will implement a formal process with Northgate to track issues identified in testing through to completion. This will include detailed analysis of all service packs and releases to further track what changes and fixes are being implemented. Update for 2 nd July: Bug tracker is due for release Q3 2015/16	AIS System Owner A Grigg / D Cole	Q3 2015 / 16	INCOMPLETE: The AIS contract is between Northgate & SWO. SCC not privy to the contract & it was not made available for audit. SWO has access to the Northgate call logging system & can view updates via Northgate portal. All calls are chased if no response received within 28 days. Northgate are developing a 'bug tracker' which will show SCC/SWO all outstanding calls so they can be chased on a weekly basis and can view any updates from Northgate. Portal should be ready for use by end of 2014-2015.

3.5a Performance and response time of AIS has been a major issue since the implementation of AIS two years ago and has not been resolved to the satisfaction of ASC Operations.	I recommend that the AIS System Owner require the implementation of an SLA which addresses an acceptable response time e.g. 2 – 5 seconds. In addition I recommend the AIS System Owner, Head of ICT and Southwest One consider and determine the feasibility of implementing a robust testing environment which is not currently contractually required.	4	We will meet with Southwest One to discuss the development of an SLA and the feasibility of a implementing a robust testing environment. Update for 2 nd July: New Hardware as part of the V29 upgrade will need performance monitoring following go-live but should result in increased performance. Northgate also suggest that system performance improvement is included in the code for V29 (being implemented in June 2015) and by moving to the latest version of Internet Explorer (IE11)	AIS System Owner Head of ICT A Grigg / D Cole	New hardware will be performance tested in Q3 2015/16	IN PROGRESS: SWO will not agree to an SLA as they would be reliant on a similar agreement with Northgate which does not exist. Verbal assurances were provided that response times remain intermittent. They typically range from 2-5 seconds but also up to 10 seconds on occasion. A new test environment (UPG) has been built. This is in addition to the UAT environment & ASC will be able to test new AIS releases whilst being able to test Service Packs as released. This will avoid disruption to the live database. No revised implementation date
						No revised implementation date received.