

Regards,

Mobile: [REDACTED] Email: sunitha [REDACTED] act.gov.au

From: [REDACTED] [mailto:[REDACTED]]
Sent: Wednesday, 26 September 2018 7:00 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@agfa.com>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi All,

The migration is running again after the updates to the paths.
 The remaining time for the HL7 ORM migration is currently estimated to take another 2,5 days to complete.
 Attached you can find the current migration status.

I'm still stuck on the last file that I need, PACS_Series.txt.
 Can you zip that one also ? For some reason I can't most of the .txt files ...
 The zip files copied very fast.

```

1 P:\Files for AGFA\
5.4% Older 549.0 m PACS_Series.txt
2018/09/26 18:58:10 ERROR 64 (0x00000040) Copying File P:\Files for AGFA\PACS_Series.txt
The specified network name is no longer available.
Waiting 30 seconds... Retrying...
0.9% Older 549.0 m PACS_Series.txt
  
```

Kind Regards,

[REDACTED] NV,
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 | IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
 Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
Sent: Wednesday 26 September 2018 5:13
To: [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: RE: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]
 Thank you for the update.

I have now compressed all the Image files that were 2GB or more in size. Let me know if you still have any issues.
 Regarding the attachments with an extra space in the filename, please remove the space and retry.

Thanks,

Mobile: [REDACTED] Email: [REDACTED]@act.gov.au

From: [REDACTED] [mailto:[REDACTED]]

Sent: Tuesday, 25 September 2018 6:53 PM

To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>

Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]>

Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi All,

HL7 migration

All needed data is now ready on the AMT server and the HL7 ORM migration was started. Once it has been running for a while, I will be able to provide some better stats, but currently I can say we are sending +/- 10 HL7 messages per second. That would be 3 to 4 days to complete the HL7 ORM migration.

Some attachments already failed, but I believe it simply is an extra space in the filename (after VPROT). [REDACTED] (Health) Can you confirm that I can just remove the space and retry these ORM's ? (I have +/- 26.000 of these VPROT in the attachment extract, VTECH seems to have the same issue)

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive documents\VPROT_1477089_7060216.pdf cannot be found.

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive documents\VPROT_1497192_7093555.pdf cannot be found.

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive documents\VPROT_1391902_6920855.pdf cannot be found.

DICOM migration

I can see all needed extracts on the provided share, but I don't seem to be able to copy the + 2GB 'image' files to the AMT server for import. The copy simply stops after a few seconds. Could someone try and zip these files ? Or can we think of another way to get them on the AMT folder: C:\Users\Administrator\Desktop\DICOM extracts\PROD

Kind Regards,

[REDACTED]
T [REDACTED]

[REDACTED] NV, [REDACTED]
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 | IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
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From: [REDACTED]

Sent: Monday 24 September 2018 13:11

To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
[REDACTED] <[REDACTED]>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Thx [REDACTED]

I'll start working on the import/validation of these files.
 Focus first on the HL7.

@ [REDACTED] Can I start the ORM/ORU migration towards EI ?
 Are there anything on interface level that we need to way for ?

Kind Regards,

[REDACTED]

[REDACTED] NV, [REDACTED]
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 | IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
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From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
Sent: Monday 24 September 2018 10:51
To: [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]

All files are now available at the share location:

// Files for AGFA – This folder has all the HL7 and DICOM extract files. The Image file has been split into smaller yearly files from 2007 to 2018

// RIS/attachments – This folder has all the attachments (Scan, idocs and zSeg)

Also provided are some excel sheets with Patient merge DICOM header update details and PACS Exception details.

Thanks,

Mobile : [REDACTED] Email: [REDACTED]@act.gov.au

From: [REDACTED] [mailto:[REDACTED]@act.gov.au]
Sent: Monday, 24 September 2018 4:17 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>
Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Thx for the update,

This afternoon I'm in training, so it is possible that I have to pick this up tomorrow morning.

Kind Regards,

[REDACTED]

[REDACTED] NV,
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 | IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
 Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED]
Sent: Monday 24 September 2018 7:01
To: [REDACTED]
Cc: [REDACTED] (Health)
 <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]
 In regards to the HL7 and DICOM extracts to be delivered today, they are still being worked on. I am going through my final steps of verifying the data and exporting it to files.
 I should be done in a few more hours.
 I will keep you informed.
 I will let you know when all the files are available.

Thanks,

[REDACTED] | IDIS Data Migration Analyst - UCPH Digital Solutions Program
 Mobile: [REDACTED] | Email: [REDACTED]@act.gov.au

From: [REDACTED] (Health)
Sent: Monday, 17 September 2018 1:57 PM
To: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>
Cc: [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

In regards to the below table, we are waiting on confirmation that the Archived ADT messages were all processed successfully, and that the live feeds from ACTPAS and EDIS are now being processed. We have not yet received any details on that task, including final processing statistics. Could you please follow up on that for us.

Additionally, we will not be able to deliver the RIS and PACS migration files today as scheduled, since Siemens have had problems processing the data at their end. We are expecting now that the earliest possible date for delivery from ACT Health to Agfa will be this Friday 21 September, though it is more likely to be CoB on Monday 24 Sept.

I have updated some of the table dates below to reflect actuals and adjusted expected dates.

Regards

[REDACTED] | IDIS Delivery Manager - UCH Digital Solutions Program

Phone: 02 6174 8768 | Mobile: [REDACTED] | Email: [REDACTED]
 Future Capability & Governance | Digital Solutions Division | Health Directorate | ACT Government
 Level 10, Building 1, TCH, Garran ACT | PO Box 11, Woden ACT 2606 | www.act.gov.au

From: Arsavilli, Dev

Sent: Friday, 31 August 2018 11:08 AM

To: [REDACTED] <[REDACTED]>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
 <[REDACTED]@act.gov.au> McKenzie, Theresa (Health) <Theresa.McKenzie@act.gov.au>; Cowey, Michael
 <Michael.Cowey@act.gov.au>

Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]

Apologies, I thought I sent this out after the meeting but realised that I did not send it out.

My update to the events as discussed in the meeting 29/08/2018 4:30 – 5:10pm:

#	Task	Start Date	End Date	Resource
1	Archiving of ACTPAS messages	29/08/2018		Michael
2	PMI Data Extraction	29/08/2018	31/09/2018	[REDACTED]
3	Start ACTPAS interface in IDISP Pre-prod	[REDACTED] to fill-in		Agfa
4	Agfa Patient Load	04/09/2018	09/09/2018	Agfa
5	Re-play the archived ACTPAS messages	11/09/2018	14/09/2018??	Michael, Agfa
6	Start ACTPAS interface - ACTH	13/09/2018		Michael, Agfa
7	Agfa 20% RIS load	24/09/2018	28/09/2018	Agfa, [REDACTED]
8	Image Migration of (first two years)	29/09/2018	19/10/2018	Agfa
9	Agfa 80% RIS load	29/09/2018	19/10/2018	Agfa
10	Image Migration of the rest	20/10/2018		Agfa

Please update task 3 and the following dates will depend on that.

I will update the rest in line with the schedule and will distribute another Runsheet.

Kind Regards,

Dev

Dev Arsavilli | Project Manager

Phone: 02 6174 8729 | Mobile: [REDACTED] | Email: Dev.Arsavilli@act.gov.au

Future Capability and Governance Branch | Digital Solutions Division | Health Directorate | ACT Government

2-6 Bowes Street, Phillip ACT | GPO Box 825, Canberra ACT 2601 | act.gov.au

From: [REDACTED] <[REDACTED]> [mailto:[REDACTED]]

Sent: Wednesday, 29 August 2018 10:54 AM

To: Cowey, Michael <Michael.Cowey@act.gov.au>; Arsavilli, Dev <Dev.Arsavilli@act.gov.au>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
 <[REDACTED]>

Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi Dev,

I have added [REDACTED] and [REDACTED] to this communication.

Kind Regards,

[REDACTED]
[REDACTED]
[REDACTED]
M
[REDACTED]

Out of office alert:
Friday 10th August
Wednesday 15th August
24th September to 5th October inclusive
5th to 7th November inclusive

<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

From: Cowey, Michael [mailto:Michael.Cowey@act.gov.au]

Sent: Wednesday, 29 August 2018 10:39 AM

To: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>

Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi Dev,

The archiving is a standard process that has been in place for years so no issue there. I think you need to swap 4 and 5 over, we need to replay the archived messages first, then connect up the live ACTPAS interface.

Cheers,

Michael

From: Arsavilli, Dev

Sent: Wednesday, 29 August 2018 10:34 AM

To: Cowey, Michael <Michael.Cowey@act.gov.au>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]> (Health)
 <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>

Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi Michael,

We are ready to start the PMI data extract today.

Is the achieving is in place are does it require be manually started?

The events as per the current schedule:

#	Task	Start Date	End Date
1	Achieving of ACTPAS messages	29/08/2018	
2	PMI Data Extraction	29/08/2018	31/09/2018
3	Agfa Patient Load	03/09/2018	07/09/2018
4	Start ACTPAS interface in Pre-prod	10/09/2018	
5	Re-play the archived ACTPAS messages	10/09/2018	
6	Agfa 20% RIS load	17/09/2018	21/09/2018
7	Image Migration of (first two years)	22/09/2018	12/10/2018
8	Agfa 80% RIS load	22/09/2018	12/10/2018
9	Image Migration of the rest	13/10/2018	

All these activities will be one after the other except for 7 and 8.

[REDACTED] could you please confirm that item 5 happening after item 4 would not be an issue?

Kind Regards,

Dev

Dev Arsavilli | Project Manager

Phone: 02 6174 8729 | Mobile [REDACTED] | Email: Dev.Arsavilli@act.gov.au

Future Capability and Governance Branch | Digital Solutions Division | Health Directorate | ACT Government
2-6 Bowes Street, Phillip ACT | GPO Box 825, Canberra ACT 2601 | act.gov.au

From: Cook, Sandra (Health)

Sent: Tuesday, 28 August 2018 2:11 PM

To: Cowey, Michael <Michael.Cowey@act.gov.au>

Cc: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>

Subject: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS

Hi Michael,

Would you please activate the ACTPAS integration for IDIS into pre-production required for the data migration work? I have reviewed the processes we are proposing and am happy for this to move into pre-production so we can commence data migration.

Really appreciate it!

Kind Regards,

Sandra Cook | Director Future Capability & Governance

Phone: 02 6205 1451 | Mob. [REDACTED]

Email: sandra.cook@act.gov.au

Future Capability & Governance | Digital Solutions Division | Health Directorate | ACT Government
Canberra Hospital, Garran ACT | PO Box 11, Woden ACT 2606 | act.gov.au

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UCPH Digital Solutions Program

Integrated Diagnostic Imaging Solution (IDIS)

Data Migration Specification

DOCUMENT CONTROL

Version	Date	Created By	Description
00.01	5 Oct 2017	██████████	Initial RIS files specification
00.02	19 Oct 2017	██████████	Updates and initial data transforms
00.03	25 Oct 2017	██████████	Addition of Audit requirements
00.04	6 Nov 2017	██████████	Addition of PACS file requirements
00.05	16 Jan 2018	██████████	General review and update
00.06	13 Mar 2018	██████████	Update after Test outcomes
00.07	17 May 2018	██████████	Review and Updates
00.08	28 Jun 2018	██████████	Updates
00.09	28 Sep 2018	██████████	Updates after bulk extract

DOCUMENT APPROVAL

Version	Name and Position	Endorsement Date

DOCUMENT DISTRIBUTION

Name	Title	Date of Issue	Version

RELATED DOCUMENTS

Version	Name	Location
	IDIS_Country_Code_Mapping.xlsx	Q:\COMMON\Projects\IM&IT\UCPH Digital Solutions Program\Integrated Diagnostic

		Imaging Solution\Data Migration\Relevant Documentation
	AHEI Data Collection ACT Part1_ACTH Final Version 2.1	Q:\COMMON\Projects\IM&IT\UCPH Digital Solutions Program\Integrated Diagnostic Imaging Solution\Data Collection\Base Data
	RIS_Data_Migration_CSV_Layout.pdf	Q:\COMMON\Projects\IM&IT\UCPH Digital Solutions Program\Integrated Diagnostic Imaging Solution\Data Migration\Relevant Documentation
	DICOM Data Migration CSV Layout.docx	Q:\COMMON\Projects\IM&IT\UCPH Digital Solutions Program\Integrated Diagnostic Imaging Solution\Data Migration\Relevant Documentation
	User fields migration.docx	Q:\COMMON\Projects\IM&IT\UCPH Digital Solutions Program\Integrated Diagnostic Imaging Solution\Data Migration\Relevant Documentation
	ZAI Types.docx	Q:\COMMON\Projects\IM&IT\UCPH Digital Solutions Program\Integrated Diagnostic Imaging Solution\Data Migration\Relevant Documentation

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1. Data Migration

1.1. Purpose

This document defines the process for the migration of both RIS and PACS data, and associated images, from the current Siemens system to the new Agfa solution (IDIS). It specifies the data mappings from the Siemens database to the Agfa migration files and defines the data transformations that must be performed as part of the process, either to cleanse poor data or because of differences in system reference data values.

1.2. Migration Overview

1.2.1. Process

The migration environment will contain a copy of the source data (both RIS and PACS) from Production for refreshing the migration process at the start of each migration cycle. The high-level migration development process shall:

- Refresh the source database(s) as required;
- Receive extracts from Siemens for RIS and PACS. Verify the data in the extracts for format, quality and completeness;
- Iterate the verification process as required, until no further issues are identified;
- Once the data is identified to be valid (format and quality as expected) then transform the records into the required format and send for migration;
- In addition to the extract, transform and load of all data, the transfer of associated images must also be tested and the process verified. This will need to include performance and load testing, to determine the optimum approach to image transfer to provide the fastest migration time. It is not expected, however, that all images associated with PACS data will be migrated during the testing process, due to time and space constraints.

The Production Migration process will be conducted in multiple phases, as follows:

- Once all testing has been completed and the Production environment has been configured, base data has been loaded and the required interfaces have been integrated (E.g. ACTPAS), the migration of RIS data will begin. Siemens will deliver a full backup of the Production RIS and PACS databases, and a full extract of RIS and PACS data to the finalised specifications. This data will be for all Completed/Cancelled exams (with or without a study/result), all confirmed studies and signed-off results (all data considered to be static); all ordered, scheduled or in progress procedures will not be processed at this point. ACT Health will perform all cleansing and transformations that are required, and deliver to Agfa in two tranches:
 - The first tranche will contain the most recent two years' RIS and PACS data.
 - The second tranche will contain all remaining data.
- On completion of the initial load of RIS data, the load of related PACS data and associated images can be initiated. The aim will be to complete the transfer of the most recent two years' images prior to system go-live. Post go-live any

images that have not been transferred yet can still be accessed on-demand (this process is currently being tested, not yet finalised).

- On completion of the initial load of RIS data, while the images for the 2 years are being migrated, the remaining batch of RIS data can be loaded with the PACS data and the images to follow

Note: ACTPAS Integration will be turned on in the production environment on or before the cut-off date for the full extract. The cleansed patient data and the live feed from ACTPAS will keep the patient data in sync with ACTPAS from then on. Any patient merge from ACTPAS, before or after the RIS data load should then be associated to the active MRN and not to the outdated merged MRN (this process is currently being tested, not yet finalised).

In the lead-up to go-live, at least one delta extract will be required, containing those procedures that have been completed/cancelled since the initial data extract and any results that have been signed-off since then for the procedures already migrated. The same migration processes will be performed on this data. The purpose of the delta extract(s) is to reduce the final migration load, to be done at go-live, to a minimum. The final migration extract at go-live will include all procedures completed/cancelled between the most recent delta extract and the shut-down of the Siemens system and any results signed-off in that period for the procedures already migrated.

Currently this Data Migration specification is only relevant for Completed and Cancelled procedures. A decision by the business on how to handle those procedures that have not been completed at the time of go-live, i.e. have been ordered/scheduled but not performed, remains to be made.

Also the completed/cancelled exams are assumed to be static, any updates made to such procedures will need a manual process in place to update the relevant data in AGFA before Go Live.

The identified possible updates to the static data are as follows:

Cancellation of completed exams

Addendums to sign off reports

PACS Exception matching

Financial class updates

1.2.2. Data Cleansing

Data cleansing is generally an iterative process that loops until all problems are resolved. The process initially produces lists of records that appear to require resolution. Records identified by the migration team that are of concern are communicated to the relevant business area for a decision. The business area or Siemens will provide a response detailing any action to be taken.

The iterations generate additional fixes for appending to a record of changes. All fixes must be approved by the relevant business area.

1.2.3. Data Transforms

Data transforms are required when data (often core reference data such as country codes, locations, procedure codes, etc.) in the source do not match values that will be used to represent the equivalent data in the destination system. For instance, Agfa uses the three-character ISO code to represent a country, while ACT Health's patient administration system (ACTPAS) and the Siemens system use a separate numeric coding convention. Where possible, each country field will therefore need to be transformed to a code value acceptable by the Agfa system.

Transforms can range from complex, such as for countries and procedure codes, through to very simple, e.g. one system might represent 'Y/N' values using 'Y' and 'N', while another might use '1' and '0'.

Transforms will be performed on the data extracted from the Siemens system prior to sending as load files to Agfa, and are specified in this document.

1.3. *RIS Migration Load Files*

Agfa has provided the specification of the set of RIS migration files in the attached document 'RIS_Data_Migration_CSV_Layout.pdf'. Extracts are to conform to these specifications.

1.3.1. Patients

All active patient records (merged records will be excluded) currently held in ACTPAS will be extracted for migration.

Patient data cleansing: PMI(Patient Master Index) team has been involved for comparison of patient data in RIS with that in ACTPAS.

Data will be provided in 3 sets

- Patient MRNs with same demographics in RIS and ACTPAS, each MRN will be marked as either merged or active in ACTPAS - This data will be used to identify up to date patient demographics for each MRN. This data will also be used to map every RIS order/study to an active MRN.
- Patient MRNs with different demographics in RIS and ACTPAS – This data will be used to identify MRNs which have similar names (misspelt first names/last names, interchanged first names and last names, alias names, incorrect birthdates, etc.), such MRNs will then be migrated using a similar process used for the matched MRNs. This data will also be used to identify patient MRNs with completely different demographics in RIS and ACTPAS, a business decision has been made to migrate such patients using the demographics in RIS(migrate as it is.)

- Patient MRN that exists in RIS but not in ACTPAS – a business decision has been made to migrate such patients using the demographics in RIS (migrate as it is.)

Where an activity (accession number) in RIS associates to an MRN that gets identified as merged (using information from PMI), the RIS and PACS data will be transformed to associate the activity to the identified active MRN. The study image headers will then be updated by AGFA during image migration to reflect the active patient details.

Agfa 'PATIENTS'		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[PatientId]	100	[patient]	[pt_med_rec_no]		
[IssuerOfPatientId]	255			'PAS'	
[LastName]	64	[pat_name]	[pt_last]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[FirstName]	64	[pat_name]	[pt_first]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[MiddleName]	64	[pat_name]	[pt_middle]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[MaidenName]	64				No data
[DateOfBirth]	8	[pat_name]	[pt_birth_dtime]		Format YYYYMMDD. Will be mapped from ACTPAS as outlined in Patient data cleansing process
[Sex]	1	[pat_name]	[Sex]		supported values : 'M','F','U', transformation needed
[BirthPlace]	64				No data
[Ssn]	100				Social Security Number - not required.
[Vip]	1				No equivalent field – if left empty Agfa will default to '0'
[DeceasedDateTime]	25	[pat_info]	[pt_death_dtime]		Format YYYYMMDDHHMMSS Will be mapped from ACTPAS as outlined in Patient data cleansing process

Agfa 'PATIENTS'		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[Nationality]	3				No data
[HomeAddressStreet]	255	[pat_demo]	[pt_addr1] + ', ' + [pt_addr2]		Concatenate [pt_addr1] and [pt_addr2] Will be mapped from ACTPAS as outlined in Patient data cleansing process
[HomeAddressNumber]	255				Leave it blank, number populated as part of street, no straight forward approach to extract this.
[HomeAddressCity]	255	[pat_demo]	[pt_city]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[HomeAddressState]	255	[pat_demo]	[pt_state]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[HomeAddressZipCode]	20	[pat_demo]	[pt_zip]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[HomeAddressCountry]	3	[pat_demo]	[pt_Country]		Need to map Siemens countries to the ISO 3166-1 country code. If no match found or unavailable, 'UNK' will be used.
[WorkAddressStreet]	255				No data
[WorkAddressNumber]	255				No data
[WorkAddressCity]	255				No data
[WorkAddressState]	255				No data
[WorkAddressZipCode]	20				No data
[WorkAddressCountry]	3				No data
[HomePhoneNumber]	100	[pat_demo]	[pt_phone]		The Siemens system does not differentiate home numbers and mobile numbers, it has fields for a phone number and an alternate number, phone number will be mapped to Home phone and alternate number to Mobile

Agfa 'PATIENTS'		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
					Will be mapped from ACTPAS as outlined in Patient data cleansing process
[WorkPhoneNumber]	100	[pat_info]	[pt_work_phone]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[HomeMobileNumber]	100	[pat_demo]	[alt_phone]		The Siemens system does not differentiate home numbers and mobile numbers, it has fields for a phone number and an alternate number, phone number will be mapped to Home phone and alternate number to Mobile Will be mapped from ACTPAS as outlined in Patient data cleansing process
[WorkMobileNumber]	100				No data
[HomeFaxNumber]	100				No data
[WorkFaxNumber]	100				No data
[HomeEmail]	100	[pat_demo]	[email]		Will be mapped from ACTPAS as outlined in Patient data cleansing process
[WorkEmail]	100				No data
[PatientId1]	100				The alternate patient id fields will not be used for this migration.
[IssuerOfPatientId1]	255				
[PatientId2]	100				
[IssuerOfPatientId2]	255				
[PatientId3]	100				
[IssuerOfPatientId3]	255				
[PatientId4]	100				
[IssuerOfPatientId4]	255				
[PatientId5]	100				
[IssuerOfPatientId5]	255				

1.3.2. Doctors

Doctor data cleansing: An initial extract from PROCA and Siemens' RIS has been extracted, validated and cleansed. This cleansed doctor's data will be loaded as part of the base data collection into AGFA's system. The business accepts the risk of the doctor's collection not being up to date when we go Live. No further doctor cleansing activities required by the Data Migration team.

The process for migrating the Requesting doctor, Performing doctor, author of the result and validator of the result is as follows

- For every unique combination of Requesting doctor's first name and last name in the Siemens system, a doctor record will be created with a unique identifier (E.g. SD000001) and an inactive status. The migrated activity will then be associated to this inactive doctor.
- For every unique Performing doctor/Author/Validator internal doctor number in the Siemens system, a doctor record will be created with a unique identifier (E.g. SDNo000001) and an inactive status. The migrated activity will then be associated to this inactive doctor.

Agfa 'DOCTORS'		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[PhysicianId]	100			'SD' + seq no SDNo + dr_no	Mapped as per the cleansing process detailed above
[IssuerOfPhysicianId]	255			'SYSTEM'	MUST be value SYSTEM
[LastName]	64	Activity_info(requesting doctor for completed exams)/ Visit_doctor(requesting doctor for cancelled exams)/ Doctor(performing doctor/Author/Validator)	dr_last		Mapped as per the cleansing process detailed above
[FirstName]	64	Activity_info(requesting doctor for completed exams)/ Visit_doctor(requesting doctor for cancelled exams)/ Doctor(performing doctor/Author/Validator)	dr_first		Mapped as per the cleansing process detailed above
[MiddleName]	64				No data
[Sex]	1				No data
[Active]	1			0(Inactive)	Mapped as per the cleansing

Agfa 'DOCTORS'		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
					process detailed above
[Internal]	1				No data
[HomeAddressStreet]	255				No data
[HomeAddressNumber]	255				No data
[HomeAddressCity]	255				No data
[HomeAddressState]	255				No data
[HomeAddressZipCode]	20				No data
[HomeAddressCountry]	3				No data
[WorkAddressStreet]	255				No data
[WorkAddressNumber]	255				No data
[WorkAddressCity]	255				No data
[WorkAddressState]	255				No data
[WorkAddressZipCode]	20				No data
[WorkAddressCountry]	3				No data
[HomePhoneNumber]	100				No data
[WorkPhoneNumber]	100				No data
[HomeMobileNumber]	100				No data
[WorkMobileNumber]	100				No data
[HomeFaxNumber]	100				No data
[WorkFaxNumber]	100				No data
[Email]	100				No data

1.3.3. Service Requests

The AGFA Service Request file maps to:

Activity and activity_info for completed exams

visit_order, visit_activity and visit_activity_info for cancelled exams

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[PatientId]	100	[patient]	[pt_med_rec_no]		Must have a matching value in the PATIENT exports.
[IssuerOfPatientId]	255			'PAS'	
[PlacerOrderNumber]	64				No data
[IssuerOfPlacerOrderNumber]	255				No data
[FillerOrderNumber]	64	[activity] [visit_activity]	[acc_itn]		Use acc_itn for filler order number throughout
[IssuerOfFillerOrderNumber]	255			'PAS'	
[RequestingPhysicianId]	100	[activity_info] [visit_order]	dr_first, dr_last		process outlined in doctor data cleansing
[IssuerOfRequestingPhysicianId]	255			'SYSTEM'	MUST be value SYSTEM
[RequestingDepartmentId]	100	[activity_info] [visit_activity]	[dept]		Transformed to data values from AGFA's base data collection
[IssuerOfRequestingDepartmentId]	255			'SYSTEM'	MUST be value SYSTEM
[RequestingDepartmentName]	64	[dept]	[descp]		Transformed to data values from AGFA's base data collection
[HospitalId]	100	[activity] [visit_activity]	[hosp]		Transformed to data values from AGFA's base data collection
[IssuerOfHospitalId]	255			'SYSTEM'	MUST be value SYSTEM
[HospitalName]	64	[hosp]	[hosp_name]		Transformed to data values from AGFA's base data collection
[OrderPriority]	1	[activity_info] [visit_order]	[priority]		Existing values mapped to Agfa values.
[OrderCreationDateTime]	255	[activity] [visit_activity]	[ord_for_dtime]		Format : YYYYMMDDHHMMSS System does not track order creation date/time for completed/cancelled exams, OrderCreationDateTime mapped to date time for which an exam is ordered. Default date when date time unavailable in Siemens : 19000101000000

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[ClinicalInfo]	Max	[activity_usr_flds] [visit_activity_usr_flds]	usr_fld_5 where type = 'EORD3'		

1.3.4. Requested Procedures

The AGFA Requested Procedure file maps to:

activity, activity_info and activity_study for completed exams

visit_order, visit_activity, visit_activity_info and activity_study for cancelled exams

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[PatientId]	100	[patient]	[pt_med_rec_no]		Must have a matching value in the PATIENT exports.
[IssuerOfPatientId]	255			'PAS'	
[FillerOrderNumber]	64	[activity] [visit_activity]	[acc_itn]		Must have a matching value in the SERVICE REQUEST exports
[IssuerOfFillerOrderNumber]	255			'PAS'	
[ProcedureCode]	64	[activity_info] Visit_activity	[dept] + [proc_no]		Transformed to data values from AGFA's base data collection
[ProcedureDescription]	255	[item]	[proc_desc_long]		Transformed to data values from AGFA's base data collection
[Modality]	64	[dicom_modality_item]	[dicom_modality]		Transformed to data values from AGFA's base data collection
[AccessionNumber]	64	[activity] [visit_activity]	[acc_itn]		MUST be unique within Enterprise Imaging Accession numbers suffixed with a seq no, where an accession number is associated to multiple Studies.
[RequestedProcedureId]	64	[activity] [visit_activity]	[acc_itn]		

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[ScheduledProcedureStepId]	64	[activity] [visit_activity]	[acc_itn]		
[StudyInstanceUid]	64	[activity_study]	[study_uid](for confirmed studies only)		StudyInstanceUID for a pending or a linked study to be mapped as "
[ReasonForStudy]	Max				
[StudyStatus]	2	[activity_info]	[cncl_cd]		For records extracted from dbo.activity When activity_info.cncl_cd IS NOT NULL THEN status = 'CA' ELSE Status = 'CM' For all records extracted from dbo.visit_activity, status = 'CA' Supported values: CM - Completed CA - Cancelled SC - Scheduled
[PerformingPhysicianId]	100	[document_xref]	[reading_dr]		process outlined in doctor data cleansing Cancelled exams from dbo.visit_activity must be mapped to "(unless it has a confirmed study)
[IssuerOfPerformingPhysicianId]	255			'SYSTEM'	MUST be value SYSTEM
[PerformingDepartmentId]	100	[activity_info] [Visit_activity]	[dept]		Transformed to data values from AGFA's base data collection
[IssuerOfPerformingDepartmentId]	255			'SYSTEM'	MUST be value SYSTEM
[PerformingDepartmentName]	64	[dept]	[descp]		Transformed to data values from AGFA's base data collection
[ExamRoom]	255	[activity_info]	[proc_loc_cd]		Transformed to data values from AGFA's base data collection Cancelled exams from dbo.visit_activity must be mapped to "(unless it has a confirmed study)

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[ScheduledStudyDateTime]	25	[activity] [visit_activity_info]	[proc_dtime]/[cnc l_dtime] [cnc_dtime]		Format : YYYYMMDDHHMMSS System does not track scheduled study date/time for completed/cancelled exams in dbo.activity, ScheduleStudyDateTime mapped to date time at which exam was completed for completed exams And date time at which exam was cancelled for cancelled exams For all records extracted from dbo.visit_activity, scheduledstudydateTime mapped to cnc_dtime Default date when date time unavailable in Siemens : 19000101000000

1.3.5. Report

The Agfa Report file maps to Siemens results and associated tables. Currently identified mappings are:

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[PatientId]	100	[patient]	[pt_med_rec_no]		Must have a matching value in the PATIENT exports.
[IssuerOfPatientId]	255			'PAS'	
[FillerOrderNumber]	64	[activity_res ult]	[acc_itn]		Must have a value in the SERVICE REQUEST exports
[IssuerOfFillerOrderNumber]	255			'PAS'	
[AccessionNumber]	64	[activity_res ult]	[acc_itn]		Must have a value in the REQUESTED PROCEDURE exports Accession numbers suffixed with a seq no, where an accession number is associated to multiple Studies.

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[CreatedDateTime]	25	[document_xref]	[sgnoff_dtime]		Format : YYYYMMDDHHMMSS The results go through a cycle of being created, transcribed and then validated, the Created Date Time in AGFA has been mapped to the date time when a result got validated in Siemens Default date when date time unavailable in Siemens : 19000101000000
[ValueType]	2			'FT'	Supported values: FT – Plain text. The body field contains the actual flat text of the report RP – Reference pointer. The body field contains a URL to a PDF file containing the actual report. RT – Reference pointer to plain text files. The body field contains a URL to a text file containing the report text. ED – Encoded data. The body field contains the base64 encoded PDF report.
[Type]	3			'GDT'	Must be GDT. Only full reports can be migrated. If a report consists of a main report and several addenda, then the texts must be merged together into 1 report.
[Body]	Any	[arch_doc]	[doc_text]		Text encrypted in table
[Status]	1	[document_xref]	[sgnoff_flag]	'F' (Only signed-off results will be migrated for completed and cancelled exams)	Supported values: P - Preliminary F – Final The Siemens signoff flag values are: "C" - result document created "H" - result held; updated in document but not in database "P" - preliminary result transcribed "X" - result marked for retranscription

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
					"A" - result document available "S" - result signed off
[TranscriptionistId]	100	[document_xref]	[trans_code]		
[IssuerOfTranscriptionistId]	255			'SYSTEM'	Must be value SYSTEM
[TranscriptionistLastName]	100	[users]	[full_user_name]		Siemens database stores the full user name, last name and first name split where possible
[TranscriptionistFirstName]	100	[users]	[full_user_name]		Siemens database stores the full user name, last name and first name split where possible
[AuthorId]	100	[document_xref]	[reading_dr]		process outlined in doctor data cleansing
[IssuerOfAuthorId]	255			'SYSTEM'	Must be value SYSTEM
[ValidatorId]	100	[document_xref]	[sgnoff_dr_1]		process outlined in doctor data cleansing
[IssuerOfValidatorId]	255			'SYSTEM'	Must be value SYSTEM

1.3.6. Attachments

Attachments allow the migration of clinical/non-clinical information that does not have a field-to-field mapping provision in AGFA's data Migration specifications.

The following attachments are currently being extracted:

- Scanned attachments, to migrate the scans of paper based documents (extracted from dbo.scan_image and dbo.scan_image_detail)
- Interactive attachments (extracted from dbo.user_event_log and ??)
- zSegment attachments, to migrate questionnaire data(extracted from dbo.activity_usr_flds and visit_activity_usr_flds)

Most imaging procedures require the patient to complete a questionnaire. The responses are currently passed from e-Orders to the RIS and stored in ACT Health-specific tables. The Agfa migration system does not include a means of migrating this data other than as an attachment. Siemens will build the questionnaire questions and responses into a PDF and add an associated record to the Attachments migration file. Specifications for this attachment type are included in the associated document 'User fields migration.docx'.

- **Text attachments, to migrate Siemens data that cannot be migrated using standard AGFA migration files (mapping detailed below)**
 - Financial Class text attachment:

Name	Mapping	Comments
FINCLASS	activity_usr_fds.usr fld_1, type = 'FINCL', code.cd where cd_type = 'FINCLS' visit_activity_usr_fds.usr fld_1, type = 'FINCL', code.cd where cd_type = 'FINCLS'	

Code value for the extract: 'FINCLASS'

- Pregnancy text attachment:

Name	Mapping	Comments
PREGNANCY	activity_info.pregnant	Allowed values – (YES,NO,UNKNOWN)

Code value for the extract: 'PREGNANCY'

- Exam subdivision text attachment:

Name	Mapping	Comments
SUBDIV	activity_info.prc_l_r visit_activity_info.prc_l_r	Allowed values - (Left,Bilateral,Right,")

Code value for the extract: 'SUBDIV'

- Procedure text attachment : For all the exams included in the Procedure extract file, the following fields are to be extracted:

Name	Mapping	Comments
PATCLASS	activity_info.pt_class,	

	code.descp where cd_type = 'PATCLS' visit_info.pt_class, code.descp where cd_type = 'PATCLS'	
MBSCodes	item.dtl_svc_cd, item.cpt_code1, item.cpt_code2, item.cpt_code3, item.cpt_code4, cpt_code.cpt_code	A comma separated list of all the MBS codes associated to an accession number.
PLACER_DETAILS	activity_info.ord_by_init, users.full_user_name [visit_order].ord_by_init, users.full_user_name	Format - last name, first name
TECH_DETAILS	activity_info.tech_init, users.full_user_name	Format - last name, first name Leave it blank for exams that get cancelled before being performed
ADMISSION_NO	activity_info.pt_adm_no visit.pt_adm_no	
ADMISSION_DTIME	activity_info.pt_adm_dtime visit.pt_adm_dtime	Format: YYYY-MM-DD HH:MM:SS
DISCHARGE_DTIME	activity_info.pt_dsch_dtime	Format: YYYY-MM-DD HH:MM:SS Leave it blank for exams that get cancelled before being performed
CANCELLATION_DTIME	activity_info.cncl_dtime visit_activity_info.cncl_dtime	Format: YYYY-MM-DD HH:MM:SS Leave it blank for exams that have not been cancelled

CANCELLED_BY_DETAILS	activity_info.cncl_by_init, users.full_user_name	Format - last name, first name Leave it blank for exams that have not been cancelled
CANCELLATION_REASON	activity_info.cncl_reason visit_activity_info.cncl_reason	Leave it blank for exams that have not been cancelled
OUTSIDE_FILM	activity_info.outside_itn	Allowed values(Y/N) Can this be identified for exams in dbo.visit_activity(cancelled exams)?
Scheduling_Notes_1	activity_info.reason1 + activity_info.reason2 visit_order.reason1 + visit_order.reason2	
Scheduling_Notes_2	activity_info.ord_comments1 + activity_info.ord_comments2 visit_order.ord_comments1 + visit_order.ord_comments2	
Scheduling_Notes_3	activity_info.prc_cmt_1 + activity_info.prc_cmt_2 visit_activity_info.prc_cmt_1 + visit_activity_info.prc_cmt_2	
Scheduling_Notes_4	activity_info.proc_reason visit_activity_info. proc_reason	

Code value for the extract: 'MIGRATED_PROC DATA'

- Result text attachment : For all the results included in the Results extract file, the following fields are to be extracted:

REPORT_READ_DTIME	document_xref.read_dtime	Format: YYYY-MM-DD HH:MM:SS
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REPORT_TRANS_DTIME	document_xref.trans_dtime	Format: YYYY-MM-DD HH:MM:SS
REPORT_ADDENDUM_DTIME	document_xref.addendum_dtime	Format: YYYY-MM-DD HH:MM:SS
ADDENDUM_BY_DETAILS	document_xref.addendum_by, name	Format - last name, first name
RESPONSE_DR_DETAILS	document_xref.respons_dr_1, name	Format - last name, first name

Code value for the extract: 'MIGRATED_REPTDATA

Unlike the other attachments (scan, interactive and zSeg), which are extracted as Reference Pointers, Text attachments are to be extracted by inserting the text (data specified in the above mapping) in the Content column of the Attachments extract. Carriage returns to be replaced with '\.br\'

All the above attachments to be provided as follows

Folder Structure details for Attachments:

Root Folder name: Attachments

Child folders: Scan_documents, Interactive_documents, zSeg_documents

Currently identified mappings for the attachment extract are:

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[FillerOrderNumber]	64	[activity]	[acc_itn]		Must have a value in the SERVICE REQUEST exports

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
[IssuerOfFillerOrderNumber]	255			'PAS'	
[AccessionNumber]	64	[activity]	[acc_itn]		Must have a value in the REQUESTED PROCEDURE exports
[Type]	2			'RP'(scans, interactive and zSeg attachments) 'TX'(text attachments)	Supported values: TX – Text attachments, the text is contained in the Content field. RP – Reference Pointer is used in the Content field to a PDF, PNG, JPEG, GIF, BMP, TIF or TIFF file.
[Code]	20	Scan_image_detail(for scanned documents) User_event(for Interactive documents)	Img_type_mne Display_doc_mne	'SCANNED_REQUEST'(for zSeg documents) 'MIGRATED_PROCDATA'/ MIGRATED_REPTDATA'(for text documents)	Siemens Code to be transformed to AGFA Codes
[Content]	Any			'\\eimigration01.act.gov.au\attachment_data\$\Attachments\' + {folderpath}/{filename} (For Code = 'RP')	Type TX: complete text must fit in here. No pipes ' ' allowed. Pipes must be escaped: \ Linefeed is not supported for this field. Type RP: complete path + filename of the PDF, PNG, JPEG, GIF, BMP, TIF or TIFF file. Path might need updating when moving environments,

Agfa		Siemens source			
Field (Bold if Mandatory)	Size	Table	Field	Text	Comments
				Actual text (For code = 'TX')	waiting for confirmation from AGFA

1.4. PACS Migration

The migration of Studies/DICOM from the PACS image store will be a dynamic process that will be driven from the data loaded into the AHEI by a successful RIS migration. PACS metadata is to be extracted from the PACS database and loaded into the AHEI migration environment, which will be used to validate the Study/DICOM migration. The required file formats for the metadata extracts are defined in the Agfa document 'DICOM Data Migration CSV Layout.docx'. The below mapping identifies the required mandatory/optional fields for PACS metadata extracts

1.4.1. Study

The Study file maps closely to the Siemens PSTUDY table.

DICOM Tag	Agfa Field Tag (Bold if Mandatory)	Siemens table/field (table PSTUDY if not otherwise noted)	Comment
(study_ref)	study_ref	oid	
(num_series)	number_of_series		Count of distinct series records in table PSERIES with study_oid = pstudy.oid, where pSeries.SOPCLASSTYPE <> 'CSni' and NumberOfVisibleInstances > 0
(num_objects)	number_of_objects		SUM of NumberOfVisibleInstances in table PSERIES with study_oid = pstudy.oid, where pSeries.SOPCLASSTYPE <> 'CSni' Exclude the study records from the extract where number_of_objects = 0
(0008,0020)	study_date	studydate	
(0008,0050)	accession_number	accessionnumber	
(0008,0060) or (0008,0061)	modality	pseries.modality	Where PSERIES.study_oid = pstudy.oid Concatenate this list with '/' for multiple modalities for the same study
(0008,1030)	study_description	studydescription	
(0010,0010)	patient_name	ppatientsname.fullname	Where table ppatient is joined to table ppatientsname through pstudy.patient_oid
(0010,0020)	patient_id	Ppatient.patient_id	Where ppatient.oid = pstudy.patient_oid
(0010,0021)	issuer_of_patient_id	'PAS'	

DICOM Tag	Agfa Field Tag (Bold if Mandatory)	Siemens table/field (table PSTUDY if not otherwise noted)	Comment
(0010,0030)	patient_birth_date	ppatient.patientsbirthdate	Where ppatient.oid = pstudy.patient_oid
(0010,0040)	patient_sex	ppatient.patientsex	Where ppatient.oid = pstudy.patient_oid
(0020,000D)	study_uid	studyinstanceuid	
(0008,0030)	study_time	studytime	Not mandatory, but advisable to include
(0008,0080)	institution_name	pseries.Institutionaldepartmentname	Where P SERIES.study_oid = pstudy.oid. Not mandatory, but advisable to include.
(0008,1040)	Institutional_department_name	pseries.Institutionaldepartmentname	Where P SERIES.study_oid = pstudy.oid. Not mandatory, but advisable to include
(0008,0005)	specific_character_set	n.a	
(0008,1050)	performing_physician	P Series.PerformingPhysiciansName	NOTE: This field is not documented in the schema document that was provided.
(0032,1030)	reason_for_study	reasonforstudy	
(0032,1032)	requesting_physician	PRequestingPhysicianname.FullName	Joined on physiannname oid
(status)	status	prisreport.status	Study Reporting Status N – New T – Transcribed D – Dictated R – Read

1.4.2. Series

The Series file maps closely to the Siemens P SERIES table.

DICOM Tag	Agfa Field Tag (Bold if Mandatory)	Siemens table/field (table P SERIES if not otherwise noted)	Comment
(series_ref)	series_ref	oid	Where pseries.study_oid=pstudy.oid. Series Reference or Record number This is a unique number for each record (series) in this table.
(study_ref)	study_ref	study_oid	
(0008,0060)	modality	modality	
(0008,103E)	series_description	seriesdescription	
(0020,000E)	series_uid	seriesinstanceuid	
(0020,0011)	series_number	seriesnumber	
(0008,1010)	station_name	n.a	Not Mandatory but highly advisable – may need to generate a fixed value

1.4.3. Instance

The Instance file maps closely to the Siemens PDICOMOBJECT table.

DICOM Tag	Agfa Field Tag (Bold if Mandatory)	Siemens table/field (PDICOMOBJECT if not otherwise noted)	Comment
(object_ref)	object_ref	oid	Where pdicomobject.series_oid = pseries.oid. Object Reference or Record number A unique number for each record (object, instance) in this table
(series_ref)	series_ref	series_oid	
(study_ref)	study_ref	pseries.study_oid	Where pdicomobject.series_oid = pseries.oid
(0008,0016)	sop_class_uid	Psoclasstype.sopclassuid	Where pdicomobject.sopclasstype = pSopClassType.SopClassType
(0008,0018)	sop_instance_uid	SOPInstanceUID	
(0020,0013)	image_number	instancenumber	Not Mandatory but highly advisable

1.4.4. PACS Exception Handling

When images are stored in PACS that cannot be associated to an order in RIS, the image is stored against an accession number unique to PACS that does not exist in RIS (exception accession number). In the current system (Siemens), it's a manual process where a RISPACS admin maps images associated to an exception accession number to the corresponding order (accession number) in RIS.

In the past for a multitude of reasons, a huge number of (approximately 40,000) exception accession numbers have been sitting unresolved in the system (activities range from prior to 2009 to the current date). An attempt will be made to map the PACS exception to the correct RIS order based on the following - patient details, modality, procedure details and Study date time.

The following will be the outcome of the cleansing/transformation

- For exceptions where exception status in RIS is marked as 'Delete', the records will be excluded from migration
- For all other exceptions
 - Where the PACS exception patient ID, modality and Study Date Time matches one and only one RIS order (accession number). The order and study details will be migrated against the proper accession number from RIS

- Where one to one match cannot be derived, the data will be migrated as it is and the images will be migrated as DICOM based images with no associated RIS order.

1.5. Data Transforms

1.5.1. Hospitals

Hospital codes are being loaded into the Agfa system from the Siemens RIS. Therefore it is unlikely that there will be any data issues during migration. However, the following hospital code will require transformation if present because of a duplication in the Siemens system.

Siemens	Agfa	Comment
ABH	ALBHSP	ALBURY BASE HOSPITAL

1.5.2. Requesting Department and Related Codes

In the Siemens RIS, 'Department' is defined at the Modality level for each hospital, i.e. CT TCH, CT Calvary, X-Ray TCH, etc. The AHEI defines Department at a higher level, i.e. Medical Imaging TCH and Medical Imaging Calvary, with modalities and treatment rooms defined as Resources at a lower level. Therefore there will need to be a transformation from the Siemens Department to the new system.

Siemens	Agfa	Comment
CT	TCH-MI	
II	TCH-MI	
MG	TCH-MI	
MR	TCH-MI	
NM	TCH-MI	
PT	TCH-MI	
RF	TCH-MI	
US	TCH-MI	
XA	TCH-MI	
XR	TCH-MI	
CTC	CAL-MI	
IIC	CAL-MI	
MRC	CAL-MI	
RFC	CAL-MI	
USC	CAL-MI	
XRC	CAL-MI	

1.5.3. Exam room, Resource Groups and Resources

Treatment Rooms are defined as Resources. These will be mapped to the 'examroom' field in the 'Requested Procedures' file, which is populated from [activity_info].[proc_loc_cd]. If a location cannot be directly mapped for a Modality resource group, the 'Room 1' value will be coded as the default. All Resource Groups and Resources are defined and loaded into the AHEI system as part of the initial Base Data load.

Example:

Modality	Proc_loc_cd	AGFA Resource	Mapping process
XRC	XRC1	CALXR1	AGFA Resource mapped based on proc_loc_cd
XR	US1	TCHUS1	AGFA Resource mapped based on proc_loc_cd(modality not considered)
XR	CTWA	TCHCT1	AGFA Resource mapped based on proc_loc_cd, since no AGFA Resource directly corresponds to 'WA', room 1 is chosen for that resource group 'CT'(modality XR not considered)
CTC	IPORES	CALCT1	no AGFA Resource Group/Resource directly corresponds to IPORES, AGFA Resource therefore mapped to room1 of the resource group 'CTC'

1.5.4. Procedure Codes and Modality

The base data load includes the full set of active and inactive Siemens procedure codes and the corresponding procedure codes and Modalities in AGFA. Siemens Procedure codes will be translated to AGFA procedure codes and Modalities as part of the Data Transformation.

1.5.5. Patient Sex

There is a range of codes stored in the Siemens database against the [pat_name].[sex] field. The Agfa specification allows only three values. The following transforms are required:

Siemens	Agfa
F	F
M	M
U	U
X	U
I	U
O	U
'<	U
[blank/null]	U

1.5.6. Country & Nationality

All addresses within the Agfa system store Country according to the 3-character ISO 3166-1 standard. Apart from ADT messages from ACTPAS, where countries are defined using a four digit numeric code, there seems to be no set standard for other user-entered addresses within the Siemens system, with the user able to enter either an abbreviation or the full country name. If these addresses require migration it is unlikely that country data will be able to be coded. All country data will be transformed based on a mapping table, specified in the associated document 'IDIS_Country_Code_Mapping.xlsx'. Where it is impossible to determine a country 'UKW' (unknown) will be used.

1.5.7. Service Request - Order Priority

The coding for order priority also appears to be poorly constrained in the Siemens system. The [activity_info]/[visit_order].[priority] field contains a set of values that appear to be free-text, and in some cases contain non-alpha characters. In some cases there are only minor differences in values, which appears to indicate typing variations. The business has confirmed the following transformation.

Siemens	Agfa	Comment
TODAY	A	'A' - ASAP – High Priority
ROUTINE	S	'S' - Stat (Normal)
ROUTINE _____	S	As above. There is an additional non-alpha character present in the Siemens value
URGENT	T	'T' - Time Critical
URGENT _____	T	As above. There is an additional non-alpha character present in the Siemens value
XREADBIL	C	'C' - Callback' – Low Priority.

Siemens	Agfa	Comment
XREADONL	C	'C' - Callback' – Low Priority.
WAITLIST	C	'C' - Callback' – Low Priority.
[NULL]	C	'C' - Callback' – Low Priority.

1.5.8. Attachment Codes

The Scan document types and the Interactive document types need to be translated to AGFA's attachment codes, so the documents display under the right categories in the system. The mapping is listed below (list not complete will be updated when mapping identified)

Siemens document Type	AGFA's attachment Code
CONSENT	CONFORM
CONTRAST	CONTSHEET
DB4	BILLFORM
DEXA	PASTRESULTS
DEXAQUES	DEXAQFORM
ECG	PASTRESULTS
FILM_REL	OTH
MRIQUEST	QFORMIMG
OTHER	OTH
PROTOCOL	MIGRATED_DOCS
REFERRAL	SCANNED_REQUEST
RELEASE	OTH
RESULTS	PASTRESULTS
SCRIPTS	MIGRATED_DOCS
USWORKSH	USWORKSHEET
XACHECK	INTERVENTIONALIMG
ZCNLDREF	SCANNED_REQUEST
ZIMPLANT	IMPLANTS
ZMGWRKSH	MGQNA
ZPTLETTE	APPOINTMENT_LETTER

ZPTQUEST	PETQUEST
VBLDOC	BILLFORM
VFOLD	MIGRATED_DOCS
VHOLD	MIGRATED_DOCS
VORDER	SCANNED_REQUEST
VPROT	MIGRATED_DOCS
VREVV	MIGRATED_DOCS
VTECH	MIGRATED_DOCS
VTRACK	MIGRATED_DOCS
VWTLST	MIGRATED_DOCS

1.6. Auditing

As part of the extract process, the following values will be recorded:

File	Item	Comment
RIS		
Patients	<ul style="list-style-type: none"> • Total records extracted • Records not extracted <ul style="list-style-type: none"> ○ Merged mrns ○ Invalid mrns 	
Service Requests	<ul style="list-style-type: none"> • Total records extracted • Record counts of records not extracted <ul style="list-style-type: none"> ○ Ordered/Scheduled Exam 	
Procedures	<ul style="list-style-type: none"> • Total records extracted • Record counts of records not extracted <ul style="list-style-type: none"> ○ Pending or Linked study 	

File	Item	Comment
Reports	<ul style="list-style-type: none"> • Total records extracted • Record counts of records not extracted <ul style="list-style-type: none"> ○ Results not signed-off ○ Results pasted into an incorrect template 	
Attachments	<ul style="list-style-type: none"> • Count of Attachments: <ul style="list-style-type: none"> ○ Scans ○ Interactive documents ○ zSegment documents ○ text documents 	
PACS		
Studies	<ul style="list-style-type: none"> • Total record count 	
Series	<ul style="list-style-type: none"> • Total record count 	
Instances (Images)	<ul style="list-style-type: none"> • Total record count 	

2. Appendices

2.1. *Glossary of Terms*

Glossary of Terms	
Term	Description

UCPH Digital Solutions Program

Integrated Diagnostic Imaging Solution (IDIS)

Data Extraction Specification

DOCUMENT CONTROL

Version	Date	Created By	Description
00.01	10 Apr 2018	██████████	Initial RIS and PACS data extraction specification
00.02	23 May 2018	██████████	Audit count details updated Text attachment specifications updated Added file naming convention details for other attachments(Scan, Interactive and zSeg) Added folder structure specifications for the attachments
00.03	24 May 2018	██████████	Corrected the carriage return escape character for text attachments.
00.04	31 May 2018	██████████	Updates to text attachment requirements Separate rows for Financial class, Pregnancy and exam subdivision.
00.05	28 Sep 2018	██████████	Updates to the following Discontinued studies to be excluded from the Study extract Audit count : Provide count of discontinued studies in PACS Delta extract - cancelled exams to be filtered by cncl_dtime

RELATED DOCUMENTS

Version	Name	Endorsed By
	RIS_Data_Migration_CSV_Layout.docx	Agfa
	DICOM Data Migration CSV Layout.docx	Agfa
	User fields migration.docx	
	ZAI Types.docx	

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➤ Bulk extract	3
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• Audit counts	7

➤ Delta extracts.....	8
➤ Non static data(Ordered and Scheduled exams).....	8

Purpose:

This document defines the RIS and PACS data to be extracted for the bulk extract and for the subsequent delta extracts

RIS and PACS data to be extracted and delivered as follows:

- **Bulk extract** – All RIS and PACS data up to a certain cut-off date (date TBC) to be extracted and provided in the formats specified (HL7 and DICOM data specifications attached).

- RIS data for bulk extract:

- Extract all Cancelled exams (with or without a study/result), cancelled prior to the specified cut-off date. Include exams from dbo.visit_activity (exams cancelled before completion) and exams from dbo.activity (exams cancelled after completion)
- Extract all Completed exams (with or without a study/result), completed prior to the specified cut-off date.
- Extract all confirmed studies. (Pending and Linked studies to be excluded).

Note: For exams with pending or linked studies, the exam details should be extracted, leaving the Study details blank.

Examples:

Scenario 1

Acc_itn	Study_UID	Study Status
██████████	████	C

The procedure extract should look like

Accession Number	Study_UID
██████████	████

Scenario 2

Acc_itn	Study_UID	Study Status
██████████	████	P

The procedure extract should look like

Accession Number	Study_UID
██████████	

Scenario 3

Acc_itn	Study_UID	Study Status
██████████	████	P
██████████	████	C

The procedure extract should look like

Accession Number	Study_UID
██████████	████

Scenario 4

Acc_itn	Study_UID	Study Status
████████	██	P
████████	██	C
████████	██	C

The procedure extract should look like

Accession Number	Study_UID
████████	██
████████	██

- Extract all signed off results.
Note: For exams results that have not been signed off yet, extract the exam details in the Service and Procedure files, with no records in the result file.
- Extract all patient and doctor data
- Attachments:
 - Extract all scanned documents (excluding the 0 byte documents) for all the exams included in the Procedure extract file.
File Naming Convention: Scan_accno_uniqueidentifier.tif (an accession number can have multiple scans, uniqueidentifier-like dbo.scan_image.scan_itn to be added to make the filename unique). Example Scan_████████.tif
Code value for the extract: dbo.scan_image_detail.img_type_mne
 - Extract the following interactive document types for all the exams included in the Procedure extract file:

VBLDOC	Billing info doc
VFOLD	Film Bag notes
VHOLD	Exams on hold
VORDER	RIS order doc
VPROT	Protocol doc
VRE VW	Registrar comments
VTECH	Radiographer comments
VTRACK	stop-go document
VWTLST	waitlist doc

File Naming Convention: Interactive_accno_uniqueidentifier.tif (an accession number can have multiple interactive documents, uniqueidentifier to be added to make the filename unique). Example Interactive_████████.tif
Code value for the extract: dbo.user_event.display_doc_mne
 - Extract zSegment documents for all the exams included in the Procedure extract file (specifications attached).
zSegment documents for exams from dbo.activity to be mapped from dbo.activity_usr_flds
zSegment attachments for exams from dbo.visit_activity to be mapped from dbo.visit_activity_usr_flds
File Naming Convention: zSeg_accno.pdf, Example zSeg_████████.pdf
Code value for the extract: 'zSeg'
 - Text Attachments –
 - Financial Class text attachment:

Name	Mapping	Comments
FINCLASS	activity_usr_flds.usr fld_1,	

	type = 'FINCL', code.cd where cd_type = 'FINCLS' visit_activity_usr_flds.usr fld_1, type = 'FINCL', code.cd where cd_type = 'FINCLS'	
--	--	--

Code value for the extract: 'FINCLASS'

- Pregnancy text attachment:

Name	Mapping	Comments
PREGNANCY	activity_info.pregnant visit_order.pregnant	Allowed values – (YES,NO,UNKNOWN)

Code value for the extract: 'PREGNANCY'

- Exam subdivision text attachment:

Name	Mapping	Comments
SUBDIV	activity_info.prc_l_r visit_activity_info.prc_l_r	Allowed values - (Left,Bilateral,Right,")

Code value for the extract: 'SUBDIV'

- Procedure text attachment : For all the exams included in the Procedure extract file, the following fields are to be extracted:

Name	Mapping	Comments
PATCLASS	activity_info.pt_class, code.descp where cd_type = 'PATCLS' visit_info.pt_class, code.descp where cd_type = 'PATCLS'	
MBSCodes	item.dtl_svc_cd, item.cpt_code1, item.cpt_code2, item.cpt_code3, item.cpt_code4, cpt_code.cpt_code	A comma separated list of all the MBS codes associated to an accession number.
PLACER_DETAILS	activity_info.ord_by_init, users.full_user_name [visit_order].ord_by_init, users.full_user_name	Format - last name, first name
TECH_DETAILS	activity_info.tech_init, users.full_user_name	Format - last name, first name Leave it blank for exams that get cancelled before being performed
ADMISSION_NO	activity_info.pt_adm_no visit.pt_adm_no	
ADMISSION_DTIME	activity_info.pt_adm_dtime visit.pt_adm_dtime	Format: YYYY-MM-DD HH:MM:SS
DISCHARGE_DTIME	activity_info.pt_dsch_dtime visit_info.pt_dsch_dtime	Format: YYYY-MM-DD HH:MM:SS Leave it blank for exams that get cancelled before being performed

CANCELLATION_DTIME	activity_info.cncl_dtime visit_activity_info.cncl_dtime	Format: YYYY-MM-DD HH:MM:SS Leave it blank for exams that have not been cancelled
CANCELLED_BY_DETAILS	activity_info.cncl_by_init, users.full_user_name	Format - last name, first name Leave it blank for exams that have not been cancelled
CANCELLATION_REASON	activity_info.cncl_reason visit_activity_info.cncl_reason	Leave it blank for exams that have not been cancelled
OUTSIDE_FILM	activity_info.outside_itn	Allowed values(Y/N) Can this be identified for exams in dbo.visit_activity(cancelled exams)?
Scheduling_Notes_1	activity_info.reason1 + activity_info.reason2 visit_order.reason1 + visit_order.reason2	
Scheduling_Notes_2	activity_info.ord_comments1 + activity_info.ord_comments2 visit_order.ord_comments1 + visit_order.ord_comments2	
Scheduling_Notes_3	activity_info.prc_cmt_1 + activity_info.prc_cmt_2 visit_activity_info.prc_cmt_1 + visit_activity_info.prc_cmt_2	
Scheduling_Notes_4	activity_info.proc_reason visit_activity_info.proc_reason	

Code value for the extract: 'MIGRATED_PROCADATA'

- Result text attachment : For all the results included in the Results extract file, the following fields are to be extracted:

REPORT_READ_DTIME	document_xref.read_dtime	Format: YYYY-MM-DD HH:MM:SS
REPORT_TRANS_DTIME	document_xref.trans_dtime	Format: YYYY-MM-DD HH:N' SS
REPORT_ADDENDUM_DTIME	document_xref.addendum_dtime	Format: YYYY-MM-DD HH:MM:SS
ADDENDUM_BY_DETAILS	document_xref.addendum_by, name	Format - last name, first name
RESPONSE_DR_DETAILS	document_xref.respons_dr_1, name	Format - last name, first name

Code value for the extract: 'MIGRATED_REPTDATA'

Unlike the other attachments (scan, interactive and zSeg), which are extracted as Reference Pointers, Text attachments are to be extracted by inserting the text(data specified in the above mapping) in the Content column of the Attachments extract. Carriage returns to be replaced with'\.br\'

An example has been attached.



RIS_Attachments -
Copy.txt

All the above attachments to be provided as follows

Folder Structure details for Attachments:

Root Folder name: Attachments

Child folders: Scan_documents, Interactive_documents, zSeg_documents

- PACS data for bulk extract:
 - Extract all studies that have not been discontinued, with a study date on or before the specified cut-off date, with a non CSni series and with at least 1 visible instance.
 - Extract all series, excluding the CSni series (SOPClassType = 'CSni') and the soft deleted series (NumberOfVisibleInstances = 0).
 - Extract all images, excluding the CSni images and the soft deleted images.
 - Extract procedure data for all studies.

Apart from the mandatory fields, the following optional fields are to be extracted:

Study extract (requesting_physician, performing_physician, reason_for_study, status)

Procedure extract (study_ref, series_ref, rp_code_meaning, rp_code_value)

- Audit counts:
Audit counts to be provided for the bulk extract as follows

Table	Total no. of records	No. of records extracted	Reasons for exclusion
All processed exams			
All finalised exams			
All confirmed studies			
All signed-off results			
dbo.scan_image			
dbo.user_event_log			
dbo.PStudy			Counts of soft deleted studies Counts of CSni series/objects Counts of discontinued studies/series
dbo.PSERIES			
dbo.PDICOMOBJECT			

The RIS and PACS data will be validated and since the extract filtration date for data in RIS and PACS are disjoint, any study data that falls out of range in either RIS or PACS that needs to be included in the extract will be communicated. An extract with the required data will have to be provided in the same format.

➤ **Delta extracts –**

In the lead-up to go-live, **at least** one delta extract will be required, containing

Exams that have been completed/cancelled (exams from dbo.activity, filtered by proc_dtime)

Exams that have been cancelled (exams from dbo.visit_activity, filtered by cncl_dtime)

Results that have been signed-off for the exams already migrated since the initial data extract (cut-off date for bulk extract).

The final migration delta extract at go-live will include all exams completed/cancelled (exams from dbo.activity and dbo.visit_activity) between the most recent delta extract and the shut-down of the Siemens system and any results signed-off in that period for the exams already migrated.

The specifications for the delta extracts are exactly the same as the specifications for the bulk extract. The delta extract has an additional requirement of extracting signed-off result data for procedures migrated as part of the previous bulk/delta extract.

➤ **Non static data(Ordered/Scheduled exams and preliminary reports) –**

Currently this Data extraction specification is only relevant for Completed/Cancelled exams and signed-off reports. A decision by the business on how to handle exams that have not been completed at the time of go-live, i.e. have been ordered/scheduled but not yet performed, remains to be made. Also, a decision to be made about reports that have been created/transcribed but not yet signed-off.

The business will also be working on a process to identify/track and migrate any changes to the already migrated exams/results.

Example: cancellation of completed exams, addendums to signed off reports, any outside films added with a retrospective proc_dtime, any documents scans or interactive documents added to procedures that have already been migrated, any Studies confirmed in PACS for procedures that have already been migrated.

The business is yet to finalise ways to track and migrate any updates to the already migrated (assumed to be static) data.

RISPACS Data Migration Overview v0.1

Purpose

This document contains a summary of the data migration.

Assumptions (RIS)

Data will be converted to a vendor-defined intermediate form which they will import using their own processes. The specifications for this intermediate form will be provided promptly.

Vendor will promptly provide details of the look-up tables and other support material (particularly that which might replace functionality/look-up in the current RIS) embedded in the solution.

The conversion to the intermediate form and any ETL/cleansing will occur under SQL Server that will be provided by Health.

Assumptions (PACS)

PACS data will be copied directly by the vendor in a process possibly reliant on the existing PACS being DICOM compatible (queried via JG 12/5).

Developing Migration (RIS)

Discovery of the current system shall provide details from which Vendor/Health will specify which tables/fields are to:

- Be migrated to the new RIS;
- Be migrated to an alternative (non-RISPACS) location (may need a custom front/back-end); or
- Be deleted/archived (data deemed unnecessary or held elsewhere).

Cleansing issues shall be resolved by:

- Migration staff identifying problematic data for forwarding for resolution.
- Health SMEs providing resolution for cleansing issues.
- Migration staff incorporating processes for correcting/excluding/redirecting problematic data.

Developing Migration (PACS)

Vendor responsibility.

Test Migration (RIS)

Migration processes will be run against an updated copy of source data. The timeframe will be noted for planning production migration.

RISPACS Data Migration Overview v0.1

Vendor will link their migration system to the intermediate files and perform a test migration. The timeframe will be noted for planning production migration.

Migrated data will be verified against source data and any anomalies flagged/resolved.

This process will repeat until all anomalies are eliminated.

Test Migration (PACS)

Vendor will link their migration system to the current PACS (or an up-to-date copy) and perform a test migration. The timeframe will be noted for planning production migration.

Migrated data will be verified against source data and any anomalies flagged/resolved.

This process will repeat until all anomalies are eliminated.

Production Migration (RIS)

Migrated data will be verified against source data and any anomalies flagged/resolved.

Success or otherwise of the migration will contribute to the go-live decision.

Production Migration (PACS)

Vendor will link their migration system to the current PACS (or an up-to-date copy) and perform the production migration.

Migrated data will be verified against source data and any anomalies flagged/resolved.

Success or otherwise of the migration will contribute to the go-live decision.

Decommissioning of Current RISPACS

Health shall determine whether the replacement RISPACS environment in association with any other data repositories/applications satisfies the need for such services, and if so then decommission the current RISPACS.

Heland, Rebecca (Health)

From: [REDACTED] (Health)
Sent: Wednesday, 26 September 2018 1:13 PM
To: [REDACTED]
Cc: [REDACTED] (Health); Arsavilli, Dev; [REDACTED]
Subject: RE: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]
 Thank you for the update.

I have now compressed all the Image files that were 2GB or more in size. Let me know if you still have any issues. Regarding the attachments with an extra space in the filename, please remove the space and retry.

Thanks,
 [REDACTED]

Mobile : [REDACTED] Email: [REDACTED] [act.gov.au](mailto:[REDACTED]@act.gov.au)

From: [REDACTED] [mailto:[REDACTED]]
Sent: Tuesday, 25 September 2018 6:53 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]>
Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi All,

HL7 migration

All needed data is now ready on the AMT server and the HL7 ORM migration was started. Once it has been running for a while, I will be able to provide some better stats, but currently I can say we are sending +/- 10 HL7 messages per second. That would be 3 to 4 days to complete the HL7 ORM migration.

Some attachments already failed, but I believe it simply is an extra space in the filename (after VPROT). @ [REDACTED] Can you confirm that I can just remove the space and retry these ORM's ? (I have +/- 26.000 of these VPROT in the attachment extract, VTECH seems to have the same issue)

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive documents\VPROT_1477089_7060216.pdf cannot be found.
 Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive documents\VPROT_1497192_7093555.pdf cannot be found.
 Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive documents\VPROT_1391902_6920855.pdf cannot be found.

DICOM migration

I can see all needed extracts on the provided share, but I don't seem to be able to copy the + 2GB 'image' files to the AMT server for import. The copy simply stops after a few seconds. Could

someone try and zip these files ? Or can we think of another way to get them on the AMT folder:
 C:\Users\Administrator\Desktop\DICOM extracts\PROD

Kind Regards,

[REDACTED]

[REDACTED] NV,
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 |
 IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
 Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED]
Sent: Monday 24 September 2018 13:11
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
 [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]> Arsavilli, Dev
 <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS
 [SEC=UNCLASSIFIED]

Thx [REDACTED]

I'll start working on the import/validation of these files.
 Focus first on the HL7.

@ [REDACTED] Can I start the ORM/ORU migration towards EI ?
 Are is there anything on interface level that we need to way for ?

Kind Regards,

[REDACTED]

[REDACTED] NV,
<http://www.agfahealthcare.com>
[http://blog.\[REDACTED\].com](http://blog.[REDACTED].com)

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 |
 IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
 Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
Sent: Monday 24 September 2018 10:51
To: [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health)
 <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]

All files are now available at the share location:

// Files for AGFA – This folder has all the HL7 and DICOM extract files. The Image file has been split into smaller
 yearly files from 2007 to 2018

// RIS/attachments – This folder has all the attachments (Scan, idocs and zSeg)

<Theresa.McKenzie@act.gov.au>; Cowey, Michael <Michael.Cowey@act.gov.au>

Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

In regards to the below table, we are waiting on confirmation that the Archived ADT messages were all processed successfully, and that the live feeds from ACTPAS and EDIS are now being processed. We have not yet received any details on that task, including final processing statistics. Could you please follow up on that for us.

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I have updated some of the table dates below to reflect actuals and adjusted expected dates.

Regards

Phone: 02 6174 8768 | Mobile: | Email:
Future Capability & Governance | Digital Solutions Division | Health Directorate | ACT Government
 Level 10, Building 1, TCH, Garran ACT | PO Box 11, Woden ACT 2606 | www.act.gov.au

From: Arsavilli, Dev

Sent: Friday, 31 August 2018 11:08 AM

To: <>

Cc: <> (Health) <>

<> (Health) <> act.gov.au>; <> <>
 <> McKenzie, Theresa (Health) <Theresa.McKenzie@act.gov.au>; Cowey, Michael <Michael.Cowey@act.gov.au>

Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

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Apologies, I thought I sent this out after the meeting but realised that I did not send it out.

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Kind Regards,

Dev

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 Dev Arsavilli | Project Manager
 Phone: 02 6174 8729 | Mobile [REDACTED] | Email: Dev.Arsavilli@act.gov.au
 Future Capability and Governance Branch | Digital Solutions Division | Health Directorate | ACT Government
 2-6 Bowes Street, Phillip ACT | GPO Box 825, Canberra ACT 2601 | act.gov.au

From: [REDACTED] [mailto:[REDACTED]]
Sent: Wednesday, 29 August 2018 10:54 AM
To: Cowey, Michael <Michael.Cowey@act.gov.au>; Arsavilli, Dev <Dev.Arsavilli@act.gov.au>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
 <[REDACTED]> [REDACTED] <[REDACTED]>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi Dev,
 I have added [REDACTED] and [REDACTED] to this communication.

Kind Regards,

[REDACTED]
 [REDACTED]
 M
[daniel.lanza@\[REDACTED\]](mailto:daniel.lanza@[REDACTED])

Out of office alert:
Friday 10th August
Wednesday 15th August
24th September to 5th October inclusive
5th to 7th November inclusive

<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

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Sent: Wednesday, 29 August 2018 10:39 AM
To: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>
Cc: [REDACTED] <[REDACTED]> [REDACTED] (Health) <[REDACTED]>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
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Dev

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Dev Arsavilli | Project Manager

Phone: 02 6174 8729 | Mobile ████████ | Email: Dev.Arsavilli@act.gov.au

Future Capability and Governance Branch | Digital Solutions Division | Health Directorate | ACT Government

2-6 Bowes Street, Phillip ACT | GPO Box 825, Canberra ACT 2601 | act.gov.au

From: Cook, Sandra (Health)

Sent: Tuesday, 28 August 2018 2:11 PM

To: Cowey, Michael <Michael.Cowey@act.gov.au>

Cc: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>

Subject: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS

Hi Michael,

Would you please activate the ACTPAS integration for IDIS into pre-production required for the data migration work? I have reviewed the processes we are proposing and am happy for this to move into pre-production so we can commence data migration.

Really appreciate it!

Kind Regards,

Sandra Cook | Director Future Capability & Governance

Phone: 02 6205 1451 | Mob. ████████

Email: sandra.cook@act.gov.au

Future Capability & Governance | Digital Solutions Division | Health Directorate | ACT Government

Canberra Hospital, Garran ACT | PO Box 11, Woden ACT 2606 | act.gov.au

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Heland, Rebecca (Health)

From: [REDACTED] <[REDACTED]>
Sent: Tuesday, 25 September 2018 6:53 PM
To: [REDACTED] (Health); [REDACTED]
Cc: [REDACTED] (Health); Arsavilli, Dev; [REDACTED]
Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi All,

HL7 migration

All needed data is now ready on the AMT server and the HL7 ORM migration was started. Once it has been running for a while, I will be able to provide some better stats, but currently I can say we are sending +/- 10 HL7 messages per second. That would be 3 to 4 days to complete the HL7 ORM migration.

Some attachments already failed, but I believe it simply is an extra space in the filename (after VPROT). @ [REDACTED] (Health) Can you confirm that I can just remove the space and retry these ORM's ? (I have +/- 26.000 of these VPROT in the attachment extract, VTECH seems to have the same issue)

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive_documents\VPROT_1477089_7060216.pdf cannot be found.

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive_documents\VPROT_1497192_7093555.pdf cannot be found.

Attachment file \\eimigration01.act.gov.au\attachment_data\$\Attachments\Interactive_documents\VPROT_1391902_6920855.pdf cannot be found.

DICOM migration

I can see all needed extracts on the provided share, but I don't seem to be able to copy the + 2GB 'image' files to the AMT server for import. The copy simply stops after a few seconds. Could someone try and zip these files ? Or can we think of another way to get them on the AMT folder: C:\Users\Administrator\Desktop\DICOM extracts\PROD

Kind Regards,

[REDACTED]
 HE/
 T [REDACTED]

[REDACTED] NV, [REDACTED]
<http://www.agfahealthcare.com>
[http://blog.\[REDACTED\].com](http://blog.[REDACTED].com)

R.O.: Septestraat 27, B-2640 Mortsel, Belgium | RLE Antwerp | VAT BE 0403.003.524 | IBAN Operational Account BE81363012356224 | IBAN Customer Account BE20375104592856 | ING Belgium NV, B-1000 Brussels
 Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED]
Sent: Monday 24 September 2018 13:11
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
 [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>

Subject: [AUS - ACT] ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Thx [REDACTED]

I'll start working on the import/validation of these files.
Focus first on the HL7.

@ [REDACTED] Can I start the ORM/ORU migration towards EI ?
Are there anything on interface level that we need to way for ?

Kind Regards,

[REDACTED]

[REDACTED] NV, [REDACTED]
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

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Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
Sent: Monday 24 September 2018 10:51
To: [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]> (Health)
<[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]

All files are now available at the share location:

// Files for AGFA – This folder has all the HL7 and DICOM extract files. The Image file has been split into smaller yearly files from 2007 to 2018

// RIS/attachments – This folder has all the attachments (Scan, idocs and zSeg)

Also provided are some excel sheets with Patient merge DICOM header update details and PACS Exception details.

Thanks,

[REDACTED]

[REDACTED]
Mobile : [REDACTED] | Email: [REDACTED]@act.gov.au

From: [REDACTED] [mailto:[REDACTED]]
Sent: Monday, 24 September 2018 4:17 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>
Cc: [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]> (Health)
<[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
[REDACTED] <[REDACTED]>
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Thx for the update,

This afternoon I'm in training, so it is possible that I have to pick this up tomorrow morning.

From: Arsavilli, Dev

Sent: Friday, 31 August 2018 11:08 AM

To: [REDACTED] <[REDACTED]>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>

<[REDACTED]> McKenzie, Theresa (Health) <Theresa.McKenzie@act.gov.au>; Cowey, Michael
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Heland, Rebecca (Health)

From: [REDACTED] (Health)
Sent: Monday, 24 September 2018 3:01 PM
To: [REDACTED]
Cc: [REDACTED] (Health); Arsavilli, Dev; [REDACTED]
Subject: RE: ACTPAS/ EDIS configuration into production to start for the data migration for IDIS [SEC=UNCLASSIFIED]

Hi [REDACTED]
 In regards to the HL7 and DICOM extracts to be delivered today, they are still being worked on. I am going through my final steps of verifying the data and exporting it to files.
 I should be done in a few more hours.
 I will keep you informed.
 I will let you know when all the files are available.

Thanks,
 [REDACTED]

[REDACTED] | IDIS Data Migration Analyst - UCPH Digital Solutions Program
 Mobile: [REDACTED] Email: [REDACTED]@act.gov.au

From: [REDACTED] (Health)
Sent: Monday, 17 September 2018 1:57 PM
To: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]> McKenzie, Theresa (Health) <Theresa.McKenzie@act.gov.au>; Cowey, Michael <Michael.Cowey@act.gov.au>
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Dev Arsavilli | Project Manager

Phone: 02 6174 8729 | Mobile [REDACTED] | Email: Dev.Arsavilli@act.gov.au

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Sandra Cook | Director Future Capability & Governance

Phone: 02 6205 1451 | Mob: [REDACTED]

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Heland, Rebecca (Health)

From: Arsavilli, Dev
Sent: Thursday, 18 October 2018 2:19 PM
To: [REDACTED] (Health)
Cc: [REDACTED]
Subject: RE: [AUS - ACT] Dicom Migration [SEC=UNCLASSIFIED]

Thank you,
 I understand the second one to be an estimation for completion of all study migration.

Kind Regards,

Dev

Dev Arsavilli | Senior Project Manager

Phone: 02 5124 8729 | Mobile [REDACTED] | Email: Dev.Arsavilli@act.gov.au

MS Project | Future Capability & Governance | Digital Solutions Division | ACT Health Directorate | ACT Government

24/7 User Support: 02 5124 5000 | Email: Digital.Support@act.gov.au | healthhub.act.gov.au/technology

Level 10, Building 1, Canberra Hospital, Garran ACT | GPO Box 825, Canberra City ACT 2601 | health.act.gov.au

From: [REDACTED] [mailto:[REDACTED]]
Sent: Thursday, 18 October 2018 2:16 PM
To: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] <[REDACTED]>; [REDACTED] <[REDACTED]>
Subject: RE: [AUS - ACT] Dicom Migration [SEC=UNCLASSIFIED]

24 months is the customer advised minimum study migration required prior to go live.
 I will let [REDACTED] respond on the second item.

Kind Regards,

[REDACTED]
 [REDACTED]
 [REDACTED]

Out of office alert:
5th to 7th November inclusive

<http://www.agfahealthcare.com>

<http://blog.agfahealthcare.com>

From: Arsavilli, Dev [mailto:Dev.Arsavilli@act.gov.au]
Sent: Thursday, 18 October 2018 12:59 PM
To: [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] <[REDACTED]>; [REDACTED] <[REDACTED]>
Subject: RE: [AUS - ACT] Dicom Migration [SEC=UNCLASSIFIED]

Thank you [REDACTED]

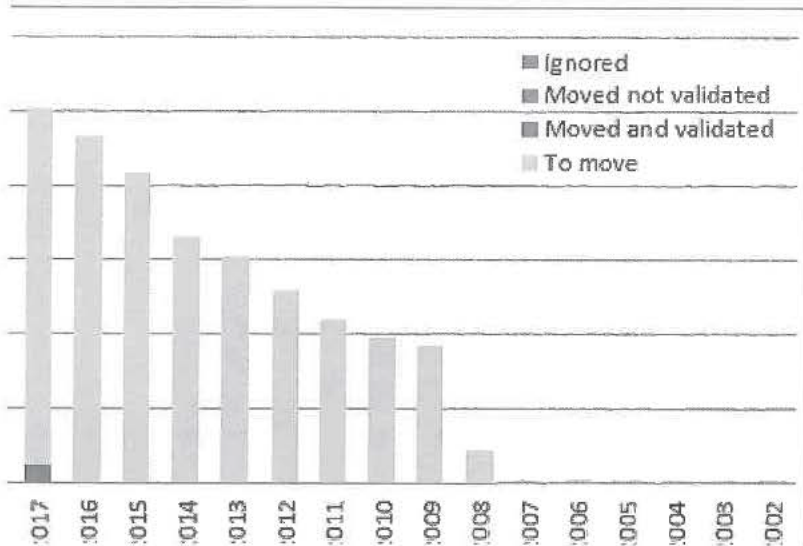
It looks promising that even with the failover testing going on the progress was very good.

Could I get some clarification on the highlighted below?

What is that 24 months?

d / Validated images, grouped by study year

Total images:	328,595,340	
Images moved, not validated:	31,676	0.01%
Images moved and validated:	21,405,867	6.51%
Total images to migrate:	307,091,390	93.46%
Total images ignored:	66,407	0.02%



Time estimation

Average migration speed:

Migration window per day:

Months needed before go-live:

Remaining Time Estima

Remaining (based on study average):

Remaining (based on image average):

Kind Regards,

Dev

Dev Arsavilli | Senior Project Manager
 Phone: 02 5124 8729 | Mobile: [REDACTED] | Email: Dev.Arsavilli@act.gov.au
 IDIS Project | Future Capability & Governance | Digital Solutions Division | ACT Health Directorate | ACT Government
 24/7 User Support: 02 5124 5000 | Email: Digital.Support@act.gov.au | healthhub.act.gov.au/technology
 Level 10, Building 1, Canberra Hospital, Garran ACT | GPO Box 825, Canberra City ACT 2601 | health.act.gov.au

From: [REDACTED] [mailto:[REDACTED]]
Sent: Wednesday, 17 October 2018 6:03 PM
To: [REDACTED] (Health) <[REDACTED]> Arsavilli, Dev <Dev.Arsavilli@act.gov.au>
Cc: [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]> [REDACTED] <[REDACTED]>
Subject: FW: [AUS - ACT] Dicom Migration

Hi [REDACTED]
 DICOM Migration status report attached.
 Reminder that the DICOM migration has been a bit stop / start to date, but will be running now in a reasonable uninterrupted state.

Kind Regards,

[REDACTED]
 [REDACTED]
 M [REDACTED]
 [REDACTED]

Out of office alert:
 5th to 7th November inclusive

<http://www.aqfahealthcare.com>
<http://blog.aqfahealthcare.com>

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Heland, Rebecca (Health)

From: O'Halloran, Peter (Health)
Sent: Tuesday, 18 September 2018 10:56 AM
To: Isaacson, Jamie (Health)
Subject: Fwd: Agenda - IDIS Executive Management Meeting 18/9/18 [SEC=UNCLASSIFIED]
Attachments: Executive Management Agenda 18 Sept 2018.pdf; ATT00001.htm; Executive Management Minutes 11 Sept 2018.pdf; ATT00002.htm

Peter O'Halloran JP | Chief Information OfficerPhone: [02 6205 1100](tel:0262051100) | Email: Peter.OHalloran@act.gov.au**Digital Solutions Division | Health Directorate | ACT Government**Level 2, 4 Bowes Street, Phillip ACT 2606 | GPO Box 825, Canberra ACT 2601 | act.gov.auPersonal Assistant - Jamie Isaacson [02 6205 1100](tel:0262051100) or HealthCIO@act.gov.au

Begin forwarded message:

From: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>
Date: 18 September 2018 at 10:54:38 AEST
To: "Cook, Sandra (Health)" <Sandra.Cook@act.gov.au>, [REDACTED], [REDACTED], [REDACTED], [REDACTED] <[REDACTED]> "Duggan, Mark (Health)" <Mark.Duggan@act.gov.au>, [REDACTED], [REDACTED] <[REDACTED]> [REDACTED], [REDACTED] <[REDACTED]> "O'Halloran, Peter (Health)" <Peter.O'Halloran@act.gov.au>
Cc: "Row, Darcy (Health)" <Darcy.Row@act.gov.au>
Subject: Agenda - IDIS Executive Management Meeting 18/9/18 [SEC=UNCLASSIFIED]

Good morning,

Please find attached the agenda for the IDIS Executive Management Meeting (18 September 2018, 4:00pm).

Minutes from last meeting attached.

Kind Regards,

Dev

Dev Arsavilli | Project Manager

Phone: 02 6174 8729 | Mobile [REDACTED] | Email: Dev.Arsavilli@act.gov.au**Future Capability and Governance Branch | Digital Solutions Division | Health Directorate | ACT Government**2-6 Bowes Street, Phillip ACT | GPO Box 825, Canberra ACT 2601 | act.gov.au