

Sent: Tuesday, 9 January 2018 10:41 AM

To: [REDACTED] (Health) <[REDACTED]>
 Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

OK.

The IP Address & FQDN [REDACTED] has indicated for the AMT appears to be correct:

```
Name:      eimigration01.act.gov.au
Address:   10.24.2.38
```

Chris

Chris Pearce | PACS Administratr

Direct Phone: 02 61747961 | Direct Email: Christopher.Pearce@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government

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

From: [REDACTED] (Health)

Sent: Tuesday, 9 January 2018 10:36 AM

To: Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Chris,

Apparently the AMT does need to be set up. See below for the detail – note that [REDACTED] from Agfa is seeking final confirmation of the IP address, but all the remainder should be fine.

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

Sent: Tuesday, 9 January 2018 10:07 AM

To: [REDACTED] (Health) <[REDACTED]>

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

Subject: Re: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

Both devices need to be added to Siemens PACS.

I have copied the AMT servers details from [REDACTED] email below and have also included the hostname/FQDN. The IP address he provided appears to be incorrect. [REDACTED] is the IP address/host I have provided below the correct server?

AMT

- AE Title: AMT
- IP Address: eimigration01.act.gov.au (10.24.2.38)
- Port: 104
-

Kind Regards,

T +61 3 9756 4645 | F +61 7 3356 6683 | [REDACTED]

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<http://blog.agfahealthcare.com>

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Date: 09/01/2018 07:15 AM
 Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

I note that Chris hasn't copied this to you, though you are probably aware of the detail since Chris has spoken with you. Can you work with [REDACTED] to get things set up ready for a test of the image transfer and then we will look to schedule with Chris.

Thanks

[REDACTED] Pederick | IDIS Delivery Manager - UCPH 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: Pearce, Christopher (Health)
Sent: Monday, 8 January 2018 4:41 PM
To: [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>; Barrett, Scott (Health) <Scott.Barrett@act.gov.au>; Alam, Azwer (Health) <Azwer.Alam@act.gov.au>
Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

I have spoken to [REDACTED] & [REDACTED] to clarify what the AMT device is below.

[REDACTED] has said only the EI needs to be setup in the Siemens PACS.

I have setup the EI in the Siemens PACS as per below details to allow Q/R to be performed.

Let me know if the AMT also needs to be setup after all – I will need to be supplied with the AMT hostname/FQDN for this.

The details for the Siemens PACS:

Hostname: PACS-SDM
 FQDN: pacs-sdm.rispacs.siemens
 AET: PACSSDM
 PORT: 2002
 IP Address: 147.212.128.97

When you are ready to attempt a Q/R of images I would recommend that we arrange a mutual time for this so that I can check the Siemens PACS logs in real-time and we can troubleshoot any issues.
 Primary culprit for DICOM communication blocks - ? Has the Medical Imaging Firewall configured to allow the EI to query/ PACS

to return the images to EI?

Regards,

Chris

Chris Pearce | PACS Administrator

Direct Phone: 02 61747961 | Direct Email: Christopher.Pearce@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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From: Barrett, Scott (Health)

Sent: Monday, 8 January 2018 2:33 PM

To: Alam, Azwer (Health) <Azwer.Alam@act.gov.au>; Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

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

Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Gents,

Please can you assist [REDACTED] with the below request.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government

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

From: [REDACTED] (Health)

Sent: Monday, 8 January 2018 2:30 PM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

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

Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Scott,

Does your team have the information on setting up connections to the Siemens DICOM image store as mentioned below by [REDACTED] from Agfa? My understanding is that the Agfa connection points need to be defined in Siemens and the Siemens equivalent provided to Agfa, but my level of knowledge here is precisely zero so will take your advice on whether this needs to go to Siemens for resolution.

[REDACTED]

[REDACTED] Pederick | IDIS Delivery Manager - UCPH 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: [REDACTED] [mailto:[REDACTED]]

Sent: Wednesday, 20 December 2017 5:41 PM

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

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

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

Subject: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

The HL7 data has been migrated for the provided period.

For the DICOM migration I have only executed the validation of the files. I don't think I have received the actual DICOM connection information for the Siemens PACS to direct my C-MOVE migration requests to.

To be sure, I'll add the AMT and EI DICOM details again so that they can also be checked/created in Siemens:

AMT

- AE Title: AMT
- IP Address: 10.69.32.20
- Port: 104

EI

- AE Title: EIDEV_PRIORS
- IP Address: eidc1devcs.act.gov.au (10.24.2.66)
- Port: 104

The 46 reports that didn't pass validation failed, because they are linked to the 46 StudyUIDs in req proc that failed to validate. These failed because of the duplicate StudyUID.

Kind Regards,

[REDACTED]

Holiday alerts:

- 18/12/2017 until 21/12/2017 only 50% available
- 22/12/2017 until 29/12/2017 not available

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

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[REDACTED] "Crossley, Nick"
 <Nick.Crossley@act.gov.au>, [REDACTED] (Health) <[REDACTED]@act.gov.au>
 Date: 20/12/2017 01:24
 Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

Thanks for the feedback.

Just a quick confirmation, has HL7 and DICOM been migrated to Dev EI. We see numbers for the RIS data (Patients, Orders and Reports), but not for Studies..

Report: 46 linked to a failed reference in Req Proc. Are these report records missing a reference in requested procedure because the requested procedure records with non-unique StudyUIDs have been

excluded from the load??

Thanks,

██████████ | IDIS Data Migration Analyst - UCPH Digital Solutions Program

Mobile : ██████████ | Email: ██████████@act.gov.au

From: ██████████ (Health)

Sent: Wednesday, 20 December 2017 11:16 AM

To: ██████████ <██████████@act.gov.au> (Health) <██████████@act.gov.au>

Cc: ██████████ <██████████@act.gov.au>; ██████████ <██████████@act.gov.au>; ██████████ Crossley, Nick <Nick.Crossley@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>

Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Thanks ██████████

That looks like a pretty good outcome. If ██████████ needs any additional information on specific records we'll come back to you.

██████████ | IDIS Delivery Manager - UCPH Digital Solutions Program

Phone: 02 6174 8768 | Mobile: ██████████ | Email: ██████████

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From: ██████████ [mailto:██████████@act.gov.au]

Sent: Tuesday, 19 December 2017 8:23 PM

To: ██████████ (Health) <██████████@act.gov.au>

Cc: ██████████ <██████████@act.gov.au>; ██████████ <██████████@act.gov.au>; ██████████ Crossley, Nick <Nick.Crossley@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>; ██████████

Subject: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi All,

I have imported the received extracts into our tools, a summary below.

HL7

Validation results:

- Physician: No file, so I created a dummy physician
- Patients: All good
- Service Request: All good
- Requested Proc: 46 StudyUID not unique (known issue)
- Report: 46 linked to a failed reference in Req Proc
- Attachments: No file provided

Migration to EI:

The data that was validated has now been migrated to the DEV EI cluster.
These are the totals of the migrated data, no migration or validation errors have been detected.

- Patients: 4593
- Orders: 8280
- Reports: 8190

DICOM

This was the first test to import the DICOM format. All 3 flat files have the correct format and have been imported correctly into the AMT database.

Validation:

(No crosschecks with the HL7 data have been made yet)

- Accession Number checks: 166 duplicate accession numbers detected
- Patient ID checks: No problems detected
- StudyUID checks: No problems detected

No checks on patient names have been executed, because the data is anonymized

Kind Regards,

[REDACTED]
T [REDACTED]

Holiday alerts:

- 18/12/2017 until 21/12/2017 only 50% available
- 22/12/2017 until 29/12/2017 not available

[REDACTED] NV, [REDACTED]
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[REDACTED]

[REDACTED]
[REDACTED]
[REDACTED] "Crossley, Nick"

<Nick.Crossley@act.gov.au>

Date: 19/12/2017 07:00

Subject: RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

Below are the details for the extract handed over:

Service Request, Requested Procedure, and Report: The extract contains data for a 20 day period from the 01/Jan/2013 to 20/Jan/2013

Where a study is associated to multiple linked Accession numbers, no modifications have been implemented yet, therefore Study UIDs will not be unique in the Requested Procedure file. RIS has multiple accession numbers with the same study, but PACS has the study associated to one of the accession numbers only. Need to discuss this further with AGFA to find a resolution for the StudyUIDs to be unique in the RequestedProcedures file.

Some procedures are missing a StudyUID but have an associated report, questions will be raised with Siemens to clarify its validity. (62 records)

Some procedures with valid StudyUIDs have no associated reports, this will be confirmed with Siemens too. (4 records)

Some studies in RIS have no corresponding records in PACS, this will be discussed with Siemens. (119 records)

Blank study and series descriptions have been defaulted to 'Unknown'

There were some records with a blank series_number, this will be raised with Siemens, but for now they have been defaulted to 0.

Thanks,

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

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Heland, Rebecca (Health)

From: [REDACTED] <[REDACTED]>
Sent: Friday, 19 January 2018 9:52 AM
To: [REDACTED] (Health); [REDACTED] (Health)
Cc: [REDACTED] (Health); Crossley, Nick; [REDACTED] (Health); Barrett, Scott (Health)
Subject: RE: Attachment types [SEC=UNCLASSIFIED]

Hi [REDACTED]

The UNC path to use for attachments is the following:

\\migration01.act.gov.au\attachment_data\$\

This location will be linked to a top level directory on the external drive that we attach to the migration server.

Kind Regards,

[REDACTED]
 [REDACTED]
 T +61 3 9756 4645 | F +61 7 3356 6683 | M [REDACTED]

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[REDACTED]
 [REDACTED] "Crossley, Nick"
 <Nick.Crossley@act.gov.au>, [REDACTED] "Barrett,
 Scott (Health)" <Scott.Barrett@act.gov.au>
 Date: 11/01/2018 03:12 PM
 Subject: RE: Attachment types [SEC=UNCLASSIFIED]

Notes from our discussion today, and for information:

- The only feasible approach for the provision of adequate space on the Siemens MI network for the migration of attachments is to attach an external drive of sufficient size and provide the share details to Siemens. IDIS project will provide the drive. To be done by early next week.
- [REDACTED] to discuss with Agfa the best way to attach the drive to the AMT server to allow the Migration tool to access the attachment files. The agreed share path will be provided to the IDIS migration team.
- The migration team will append the Agfa share to the attachment file names in the Attachments migration file. This will then be sent to Agfa.
- The external drive will be unloaded from the Siemens system and mounted on the Agfa network. Agfa will then include the attachments migration process as part of the next test migration.
- The above process will first be verified using the initial 20 day set of attachments that have already been provided by Siemens. This should be ready to be tested early next week.
- [REDACTED] will also be verifying with the Application build team what the current expected attachment types will be in IDIS. These will be used to identify the equivalent attachments in the migrated data.
- The drive will be securely wiped on completion of Data Migration.

[REDACTED] E/[REDACTED] have I missed anything.

[REDACTED]

██████████ | IDIS Delivery Manager - UCPH Digital Solutions Program
Phone: 02 6174 8768 | Mobile: ██████████ | Email: ██████████
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From: ██████████ [mailto:██████████]
Sent: Thursday, 11 January 2018 12:23 PM
To: ██████████ (Health) <██████████> ██████████ (Health) <██████████@act.gov.au>
Cc: ██████████ <██████████> ██████████ <██████████> ██████████ (Health) <██████████@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>
Subject: Re: Attachment types [SEC=UNCLASSIFIED]

Hi ██████████

I have reviewed the current configuration related to attachments in DEV and I need to have further discussion with our Applications team around the intended workflow for the "to-be". Ideally, the attachments coming over as part of the migration will match how that data will be captured in the system going forward, otherwise specific attachment types may need to be configured for use during the migration.

For the initial testing I would suggest utilising a code of SCANNED_REQUEST. This will allow them to be imported into the currently configured system for display. I will provide more feedback once I have confirmed details with the applications team.

Kind Regards,

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██████████ "Crossley, Nick"
<Nick.Crossley@act.gov.au>
Date: 10/01/2018 11:19 PM
Subject: Re: Attachment types [SEC=UNCLASSIFIED]

Hi ██████████

The 'codes' are indeed something that need to be setup in EI by the application specialists and according to what is needed in your workflow. Some default codes are always in the EI system on installation, but in a lot of cases they are not used.

Maybe ██████████ has a better idea of what is already in your system or else he will be able to point to the correct person I believe.

Kind Regards,

██████████ | ██████████
██████████ | ██████████
T ██████████

Holiday alerts:
- 18/12/2017 until 21/12/2017 only 50% available

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██████████
 "Crossley, Nick" <Nick.Crossley@act.gov.au>, ██████████
 Date: 10/01/2018 03:14
 Subject: Attachment types [SEC=UNCLASSIFIED]

██████████

The Agfa specification for the Attachment extract file includes the following for the 'Code' field:

The code must correspond to an attachment code defined in the Enterprise Imaging target system. The code will determine whether the attachment is an order or study level attachment.

We do not have any definitions of the allowed codes – the examples include two possible values but there doesn't seem to be a definitive list. Siemens have sent a file with two types: 'SCAN DOCUMENT' and 'INTERACTIVE DOCUMENT'. We need to know whether we have to translate these to other values.

Is this something that is fixed within EI or do these codes need to be set up to match all possible attachment types that we might be able to send? We are also not sure how to identify whether an attachment would be at the Order or Study level, though this is probably something we need to work out with Siemens and the RISPACS support team.

Regards

██████████
 ██████████ | ██████████
 Phone: 02 6174 8768 | Mobile: ██████████ | Email: ██████████
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Heland, Rebecca (Health)

From: Barrett, Scott (Health)
Sent: Friday, 19 January 2018 9:37 AM
To: [REDACTED] (Health)
Cc: [REDACTED] (Health); Crossley, Nick; Pearce, Christopher (Health); [REDACTED] Arsavilli, Dev
Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

Tuesday between 5:30 and 8 is no problems.

I'd be reluctant to start any earlier than that as there will be overnight IP cases taking place and PACS will be being frequently accessed by the Radiologists and Radiographers. We normally try to perform maintenance between 5am and 8am because that time has proven to be the quietest for the department historically.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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From: [REDACTED] (Health)
Sent: Friday, 19 January 2018 9:01 AM
To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Cc: [REDACTED] <[REDACTED]@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>; Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] Arsavilli, Dev <Dev.Arsavilli@act.gov.au>
Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Scott,

We would like to do the next stage of testing of image transfer in Dev as early as possible next week. Do you see any issues in scheduling it for early Tuesday morning our time? Agfa can set it up to finish by 8:00 am. If it is possible to start earlier than 5:30 please let us know.

Thanks

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

Phone: 02 6174 8768 | Mobile: [REDACTED] | Email: [REDACTED]

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Sent: Tuesday, 9 January 2018 2:07 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>
Cc: [REDACTED] <[REDACTED]@act.gov.au>; Crossley, Nick <[REDACTED]@act.gov.au>

<Nick.Crossley@act.gov.au>; Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

Generally the best time to do this type of texting would be any day between 5:30am and 8:00am. This is the time the department generally quiet and it's the window we use for any planned maintenance/downtime.

We can put out some coms to let people know there may be some slowness.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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

From: [REDACTED] (Health)

Sent: Tuesday, 9 January 2018 11:36 AM

To: [REDACTED] <[REDACTED]>

Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]@act.gov.au>; Barrett, Scott (Health) <Scott.Barrett@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>; Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

[REDACTED]

The Siemens system should be configured ready to test Image transfer. Are you able to check that it's visible to EI without actually impacting the Prod system (e.g. just via a ping or similar)?

Scott, can we identify the best time to do some test image retrieves to ensure that we don't adversely affect current Prod? The first test should probably just be to check that we can successfully retrieve and load images for a few of the patients already loaded; more formal timing tests would need to wait until we have our next load of a larger set of data from Siemens.

Nick C, we discussed just before shutdown the need to submit a request for approval to have prod images loaded into Dev. I'm still thinking we do need it.

[REDACTED]

[REDACTED] | IDIS Delivery Manager - UCPH 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: Pearce, Christopher (Health)

Sent: Tuesday, 9 January 2018 11:16 AM

To: [REDACTED] (Health) <[REDACTED]>

Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

The Agfa AMT is setup on the Siemens PACS.

Chris

Chris Pearce | PACS Administrator

Direct Phone: 02 61747961 | Direct Email: Christopher.Pearce@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government

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

From: [REDACTED] (Health)

Sent: Tuesday, 9 January 2018 10:43 AM

To: Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Great, thanks.

[REDACTED] | IDIS Delivery Manager - UCPH 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: Pearce, Christopher (Health)

Sent: Tuesday, 9 January 2018 10:41 AM

To: [REDACTED] (Health) <[REDACTED]>

Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

OK.

The IP Address & FQDN [REDACTED] has indicated for the AMT appears to be correct:

```
Name:      eimigration01.act.gov.au
Address:   10.24.2.38
```

Chris

Chris Pearce | PACS Administrator

Direct Phone: 02 61747961 | Direct Email: Christopher.Pearce@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government

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

From: [REDACTED] (Health)

Sent: Tuesday, 9 January 2018 10:36 AM

To: Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Chris,

Apparently the AMT does need to be set up. See below for the detail – note that [REDACTED] [REDACTED] from Agfa is seeking final confirmation of the IP address, but all the remainder should be fine.

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

Phone: 02 6174 8768 | Mobile: [REDACTED] | Email: [REDACTED]

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

From: [REDACTED] [mailto:[REDACTED]]
Sent: Tuesday, 9 January 2018 10:07 AM
To: [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>
Subject: Re: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

Both devices need to be added to Siemens PACS.

I have copied the AMT servers details from [REDACTED] email below and have also included the hostname/FQDN. The IP address he provided appears to be incorrect. [REDACTED] is the IP address/host I have provided below the correct server?

AMT

- AE Title: AMT
- IP Address: eimigration01.act.gov.au (10.24.2.38)
- Port: 104
-

Kind Regards,

[REDACTED]
 T +61 3 9756 4645 | F +61 7 3356 6683 | M +61 409 932 687

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

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

[REDACTED]
 Date: 09/01/2018 07:15 AM
 Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

[REDACTED]

I note that Chris hasn't copied this to you, though you are probably aware of the detail since Chris has spoken with you. Can you work with Kevin to get things set up ready for a test of the image transfer and then we will look to schedule with Chris.

Thanks

[REDACTED] | IDIS Delivery Manager - UCPH 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: Pearce, Christopher (Health)
Sent: Monday, 8 January 2018 4:41 PM

To: [REDACTED] (Health) <[REDACTED]>
 Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>; Barrett, Scott (Health) <Scott.Barrett@act.gov.au>; Alam, Azwer (Health) <Azwer.Alam@act.gov.au>
 Subject: RE: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

I have spoken to [REDACTED] & [REDACTED] to clarify what the AMT device is below.

[REDACTED] has said only the EI needs to be setup in the Siemens PACS.

I have setup the EI in the Siemens PACS as per below details to allow Q/R to be performed.

Let me know if the AMT also needs to be setup after all – I will need to be supplied with the AMT hostname/FQDN for this.

The details for the Siemens PACS:

Hostname: PACS-SDM
 FQDN: pacs-sdm.rispacs.siemens
 AET: PACSSDM
 PORT: 2002
 IP Address: 147.212.128.97

When you are ready to attempt a Q/R of images I would recommend that we arrange a mutual time for this so that I can check the Siemens PACS logs in real-time and we can troubleshoot any issues.

Primary culprit for DICOM communication blocks - ? Has the Medical Imaging Firewall configured to allow the EI to query/ PACS to return the images to EI?

Regards,

Chris

Chris Pearce | PACS Administrator
 Direct Phone: 02 61747961 | Direct Email: Christopher.Pearce@act.gov.au
 Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au
 Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government
 Level 10, Building 1, Canberra Hospital, Garran ACT | GPO Box 825, Canberra City ACT 2601 | act.gov.au

From: Barrett, Scott (Health)

Sent: Monday, 8 January 2018 2:33 PM

To: Alam, Azwer (Health) <Azwer.Alam@act.gov.au>; Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

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

Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Gents,

Please can you assist [REDACTED] with the below request.

Thanks

Scott

Scott Barrett | Manager
 Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au
 Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au
 Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government
 Level 10, Building 1, Canberra Hospital, Garran ACT | GPO Box 825, Canberra City ACT 2601 | act.gov.au

From: [REDACTED] (Health)

Sent: Monday, 8 January 2018 2:30 PM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Cc: Crossley, Nick <Nick.Crossley@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>
Subject: FW: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Scott,

Does your team have the information on setting up connections to the Siemens DICOM image store as mentioned below by [REDACTED] from Agfa? My understanding is that the Agfa connection points need to be defined in Siemens and the Siemens equivalent provided to Agfa, but my level of knowledge here is precisely zero so will take your advice on whether this needs to go to Siemens for resolution.

[REDACTED]
 [REDACTED] | IDIS Delivery Manager - UCPH Digital [REDACTED]
 [REDACTED]@act.gov.au
 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: [REDACTED] [mailto:[REDACTED]]
Sent: Wednesday, 20 December 2017 5:41 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>
Cc: [REDACTED] <[REDACTED]@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED]
 <[REDACTED]@act.gov.au>; Crossley, Nick <Nick.Crossley@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>;
 [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>
Subject: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi [REDACTED]

The HL7 data has been migrated for the provided period.

For the DICOM migration I have only executed the validation of the files. I don't think I have received the actual DICOM connection information for the Siemens PACS to direct my C-MOVE migration requests to.

To be sure, I'll add the AMT and EI DICOM details again so that they can also be checked/created in Siemens:

AMT

- AE Title: AMT
- IP Address: 10.69.32.20
- Port: 104

EI

- AE Title: EIDEV_PRIORS
- IP Address: eidc1devcs.act.gov.au (10.24.2.66)
- Port: 104

The 46 reports that didn't pass validation failed, because they are linked to the 46 StudyUIDs in req proc that failed to validate. These failed because of the duplicate StudyUID.

Kind Regards,

[REDACTED]
 [REDACTED]
 [REDACTED]

Holiday alerts:

- 18/12/2017 until 21/12/2017 only 50% available
- 22/12/2017 until 29/12/2017 not available

From: [REDACTED] [mailto:[REDACTED]]
 Sent: Tuesday, 19 December 2017 8:23 PM
 To: [REDACTED] (Health) <[REDACTED]@act.gov.au>
 Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED]
 [REDACTED] Crossley, Nick <Nick.Crossley@act.gov.au>; [REDACTED] (Health)
 <[REDACTED]@act.gov.au>; [REDACTED] (Health) <[REDACTED]>
 <[REDACTED]>
 Subject: [AUS - ACT] RIS PACS Extract [SEC=UNCLASSIFIED]

Hi All,

I have imported the received extracts into our tools, a summary below.

HL7

Validation results:

- Physician: No file, so I created a dummy physician
- Patients: All good
- Service Request: All good
- Requested Proc: 46 StudyUID not unique (known issue)
- Report: 46 linked to a failed reference in Req Proc
- Attachments: No file provided

Migration to EI:

The data that was validated has now been migrated to the DEV EI cluster.
 These are the totals of the migrated data, no migration or validation errors have been detected.

- Patients: 4593
- Orders: 8280
- Reports: 8190

DICOM

This was the first test to import the DICOM format. All 3 flat files have the correct format and have been imported correctly into the AMT database.

Validation:

(No crosschecks with the HL7 data have been made yet)

- Accession Number checks: 166 duplicate accession numbers detected
- Patient ID checks: No problems detected
- StudyUID checks: No problems detected

No checks on patient names have been executed, because the data is anonymized

Kind Regards,

[REDACTED] | [REDACTED]

T

Holiday alerts:

- 18/12/2017 until 21/12/2017 only 50% available
- 22/12/2017 until 29/12/2017 not available

NV,
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 BE20375104592856 | ING Belgium NV, B-1000 Brussels
 Click on link to read important disclaimer:
<http://www.agfahealthcare.com/maildisclaimer>

<Nick.Crossley@act.gov.au>

Date: 19/12/2017 07:00

Subject: RIS PACS Extract [SEC=UNCLASSIFIED]

Hi

Below are the details for the extract handed over:

Service Request, Requested Procedure, and Report: The extract contains data for a 20 day period from the 01/Jan/2013 to 20/Jan/2013

Where a study is associated to multiple linked Accession numbers, no modifications have been implemented yet, therefore Study UIDs will not be unique in the Requested Procedure file.

RIS has multiple accession numbers with the same study, but PACS has the study associated to one of the accession numbers only. Need to discuss this further with AGFA to find a resolution for the StudyUIDs to be unique in the RequestedProcedures file.

Some procedures are missing a StudyUID but have an associated report, questions will be raised with Siemens to clarify its validity. (62 records)

Some procedures with valid StudyUIDs have no associated reports, this will be confirmed with Siemens too. (4 records)

Some studies in RIS have no corresponding records in PACS, this will be discussed with Siemens. (119 records)

Blank study and series descriptions have been defaulted to 'Unknown'

There were some records with a blank series_number, this will be raised with Siemens, but for now they have been defaulted to 0.

Thanks,

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

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Heland, Rebecca (Health)

From: [REDACTED] <[REDACTED]>
Sent: Thursday, 18 January 2018 1:57 PM
To: [REDACTED] (Health); Crossley, Nick; [REDACTED] (Health); [REDACTED]
[REDACTED] (Health)
Subject: ACT Health Project - Migration Meeting 11/01/2018
Attachments: ACT Health Project - Migration M (as PDF).pdf

Kind Regards,

[REDACTED]
T +61 3 9756 4308 | F +61 2 9647 2742 | M [REDACTED]

Agfa HealthCare Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia
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Heland, Rebecca (Health)

From: Duggan, Mark (Health)
Sent: Thursday, 18 January 2018 11:23 AM
To: Barrett, Scott (Health)
Cc: [REDACTED] (Health); Griffiths, Jessica (Health); [REDACTED] (Health)
Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Thanks Scott

Mark Duggan
 A/g Manager Medical Imaging
 Mobile: [REDACTED]

From: Barrett, Scott (Health)
Sent: Thursday, 18 January 2018 11:16 AM
To: Duggan, Mark (Health) <Mark.Duggan@act.gov.au>
Cc: [REDACTED] (Health) <[REDACTED]> Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>
Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

I'll get it to you today.

Scott Barrett | Manager
 Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au
 Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au
 Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government
 Level 10, Building 1, Canberra Hospital, Garran ACT | GPO Box 825, Canberra City ACT 2601 | act.gov.au

From: Duggan, Mark (Health)
Sent: Thursday, 18 January 2018 11:14 AM
To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Cc: [REDACTED] (Health) <[REDACTED]> Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>; [REDACTED]
Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Hi Mate,

Any updates pre 2017 unreported studies please as the IDIS team need me to make a decision by mid next week.

Thanks,

Mark Duggan
 A/g Manager Medical Imaging
 Mobile: [REDACTED]

From: Barrett, Scott (Health)
Sent: Friday, 12 January 2018 11:05 AM
To: Duggan, Mark (Health) <Mark.Duggan@act.gov.au>
Subject: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Hi Mark,

As discussed yesterday, here is a list of the procedures that are outstanding from 2018 that still require reporting.

After removing the test patients, research, coroner cases etc, there are approximately 650 cases outstanding.

I'm working on producing lists back to 2010 so we can review the impact if we apply 'not reported at the time of migration' generic report to the pre 2017 cases

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

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Heland, Rebecca (Health)

From: Barrett, Scott (Health)
Sent: Thursday, 18 January 2018 1:49 PM
To: Duggan, Mark (Health)
Cc: [REDACTED] (Health); Griffiths, Jessica (Health); [REDACTED] (Health)
Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Hi Mark,

Due to the restrictions on purged data in RIS, it wasn't possible for me to run the 2017 report back to 2009. However, based on the data provided by [REDACTED] and the data migration team I can confirm there are approximately 600 cases that are unreported from 2009 to 2016. There are also some from the late 90's in that list.

From that list

14 are research cases
 328 are II cases
 224 are assorted cases across all modalities

I can give you a more detailed breakdown if required, it will just take some time to fix up the spreadsheet.

The majority of the accession numbers that were identified in the data migration process as not having a report were created for the tracking of external films. They don't need reports so can be migrated across with no report or generic 'no report required' entry in the report.

Let me know if you need anything else.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au
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 Level 10, Building 1, Canberra Hospital, Garran ACT | GPO Box 825, Canberra City ACT 2601 | act.gov.au

From: Duggan, Mark (Health)
Sent: Thursday, 18 January 2018 11:23 AM
To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Cc: [REDACTED] (Health) <[REDACTED]> Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>
Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Thanks Scott

Mark Duggan
 A/g Manager Medical Imaging
 Mobile: [REDACTED]

From: Barrett, Scott (Health)
Sent: Thursday, 18 January 2018 11:16 AM
To: Duggan, Mark (Health) <Mark.Duggan@act.gov.au>

Cc: [REDACTED] (Health) <[REDACTED]> Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>;
[REDACTED] (Health) <[REDACTED]@act.gov.au>
Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

I'll get it to you today.

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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From: Duggan, Mark (Health)

Sent: Thursday, 18 January 2018 11:14 AM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

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

Subject: RE: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Hi Mate,

Any updates pre 2017 unreported studies please as the IDIS team need me to make a decision by mid next week.

Thanks,

Mark Duggan

A/g Manager Medical Imaging

Mobile: [REDACTED]

From: Barrett, Scott (Health)

Sent: Friday, 12 January 2018 11:05 AM

To: Duggan, Mark (Health) <Mark.Duggan@act.gov.au>

Subject: Procedures to be reported 2017 [SEC=UNCLASSIFIED]

Hi Mark,

As discussed yesterday, here is a list of the procedures that are outstanding from 2018 that still require reporting.

After removing the test patients, research, coroner cases etc, there are approximately 650 cases outstanding.

I'm working on producing lists back to 2010 so we can review the impact if we apply 'not reported at the time of migration' generic report to the pre 2017 cases

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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Heland, Rebecca (Health)

From: [REDACTED] (Health)
Sent: Tuesday, 16 January 2018 3:47 PM
To: Griffiths, Jessica (Health)
Cc: [REDACTED] (Health)
Subject: RIS - Non provider numbers [SEC=UNCLASSIFIED]
Attachments: NonProviderNumbers_RIS.XLSX

Hi Jess,

In the attached spreadsheet, I have collected all the non-provider numbers from RIS.

I have individually checked each of them to ensure the code matches the initials of the doctor (different formats used) it is associated to.

But I have marked a few in yellow that I am not sure of, can you please go through the list and confirm all this needs to be included in the base data collection.

Also, discussed the other day was the duplicate code issue where [REDACTED] is being used for [REDACTED] and Jennifer Bromley, can you please get back to me on this too.

Also, could you confirm the address [REDACTED] (the only address I have is from PBRC, which has 'Left Practice' as address).

These are the only outstanding issues with the Siemens RIS doctor's collection at this stage. Once fixed the doctors collection should be ready for loading

Let me know, if you want to have a quick catch-up to discuss the above.

Thanks,

[REDACTED]

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

Heland, Rebecca (Health)

From: [REDACTED] [REDACTED] (Health)
Sent: Monday, 15 January 2018 4:21 PM
To: [REDACTED] [REDACTED] (Health); Barrett, Scott (Health)
Cc: [REDACTED] [REDACTED] (Health); Crossley, Nick; nick [REDACTED]
Subject: RE: Validation of Image transfer in Dev [SEC=UNCLASSIFIED]

Hi [REDACTED]

As requested, below are a couple of accession numbers that have no data complications (one accession number linked to one and only one Study), also I have picked studyUIDs with <= 10 images to keep the first test extract short and quick.

Following are the accession numbers and StudyUIDs :

AccessionNumber = [REDACTED] StudyInstanceUid = [REDACTED]
 AccessionNumber = [REDACTED], StudyInstanceUid = [REDACTED]

Regards,

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

From: [REDACTED] [REDACTED] (Health)
Sent: Monday, 15 January 2018 4:11 PM
To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Cc: [REDACTED] [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] [REDACTED] (Health) <[REDACTED]@act.gov.au>; Crossley, Nick <[REDACTED]@act.gov.au>; [REDACTED]
Subject: Validation of Image transfer in Dev [SEC=UNCLASSIFIED]

All,

Notes from this morning:

1. Initial Connection Test
 - a. [REDACTED] [REDACTED] to liaise with Europe [REDACTED] [REDACTED] to arrange connection test (using C_ECHO) and subsequent test of retrieval of image(s) for single study in the Dev environment.
 - b. [REDACTED] to provide one or more candidate studies to Agfa for this test.
 - c. Plan for this to be done before ACT work hours Tues 16/1 if possible.
2. Initial image transfer test (Dev environment)
 - a. On successful initial test, perform more comprehensive load of PACS images and study data from the current '20 day' datasets loaded in Dev. To be scheduled between 5:00-8:00 am ACT summer time.
 - b. Can be scheduled from Wed 17/1 if initial test has been successfully performed and reviewed.
 - c. Should aim to retrieve images covering most modalities. Should also aim to retrieve studies ranging from one to hundreds of images. If possible the retrieval times should be logged.
3. Comprehensive image transfer test (SIT – Dev environment)
 - a. As part of SIT, a comprehensive image transfer exercise, including performance and load testing, should be scheduled once the 20% RIS load has been completed in the Dev environment.
 - b. This test must cover all modalities and typical studies with large numbers of images. Performance testing needs to record typical timings for a range of study image numbers; load testing needs to exercise many retrieval threads to identify points at which system performance suffers noticeably.

I don't think I've missed much. [REDACTED] can you provide some candidate procedures for the initial test at least.



██████████ | IDIS Delivery Manager - UCPH Digital Solutions Program

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

Heland, Rebecca (Health)

From: Arsavilli, Dev
Sent: Monday, 14 January 2019 11:27 AM
To: Pearce, Christopher (Health); [REDACTED]
Cc: Barrett, Scott (Health); Goldrick, Matthew (Health); Griffiths, Jessica (Health); [REDACTED] [REDACTED] (Health); Cook, Sandra (Health)
Subject: Data Migration of Delta [SEC=UNCLASSIFIED]

Hi [REDACTED]

As we are running the delta data migration (August to November 2018 delta images), I have been noticing that this migration is going very slow. This sort of images and we have uploaded in few days however with the five threads we have not even completed even a quarter in few weeks. I am particularly worried as the delta in itself is showing to take around 160 days.

As Scott and Matt are not available I discussed this with Chris:

1. While delta migration we are not running the general image migration
2. Delta migration may not impact the archive storage

I discussed this with Chris and Chris checked the server stability and suggested that we may increase the delta migration threads to 10.

1. Chris will monitor the server this morning and would suggest the way forward by COB today.

Any issues we will review as we go.

Chris, please add anything if I have not mentioned.

[REDACTED] please let this email group know once amended the thread count for the delta migration only.

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

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Level 2, 4 Bowes Street, Phillip ACT | GPO Box 825, Canberra City ACT 2601 | health.act.gov.au

Heland, Rebecca (Health)

From: Barrett, Scott (Health)
Sent: Friday, 12 January 2018 9:07 AM
To: [REDACTED] (Health)
Cc: [REDACTED] (Health); Garbuio, Paul (Health); [REDACTED] (Health); Griffiths, Jessica (Health); [REDACTED] (Health)
Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]
Attachments: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi All,

Please see attached an email from Chris our PACs specialist.

He has provided some insight into the data on [REDACTED] spreadsheet.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government

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

From: [REDACTED] (Health)
Sent: Wednesday, 10 January 2018 1:06 PM
To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Cc: [REDACTED] (Health) <[\[REDACTED\]@act.gov.au](mailto:[REDACTED]@act.gov.au)>; Garbuio, Paul (Health) <Paul.Garbuio@act.gov.au>; [REDACTED] (Health) <[\[REDACTED\]@act.gov.au](mailto:[REDACTED]@act.gov.au)>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>; [REDACTED] (Health) <[\[REDACTED\]@act.gov.au](mailto:[REDACTED]@act.gov.au)>
Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

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Attached is a sheet with data samples for each of the scenarios below.

Let me know if you need any further details.

Thanks,

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

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Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

All,

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Should these be migrated?

How do we identify?

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Usually valid with the additional accession numbers linked to a 'primary'.

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██████████ | IDIS Delivery Manager - UCPH Digital Solutions Program

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: Barrett, Scott (Health)

Sent: Thursday, 21 December 2017 11:44 AM

To: ██████████ (Health) <██████████>

Cc: ██████████ (Health) <██████████@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>

Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

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Looking at the questions, they all look like plausible scenarios within the system that are associated to poor work practice or administrative errors.

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Scott Barrett | Manager

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From: ██████████ (Health)

Sent: Thursday, 21 December 2017 11:37 AM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

Cc: ██████████ (Health) <██████████@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>

Subject: FW: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Scott,

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We also have some questions around the use of some of the RIS user fields; if your team has any information on what is contained in them we can discuss that as well.

Any time you are available from the 8th would be great.

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From: [REDACTED] (Health)
Sent: Thursday, 21 December 2017 11:13 AM
To: [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>
Subject: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi [REDACTED]

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Are the below scenarios valid

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Study details in PACS with no corresponding accession number or StudyUID details in RIS?

Completed procedures with valid study details in RIS but no corresponding images in PACS?

Regards,

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

Heland, Rebecca (Health)

From: Pearce, Christopher (Health)
Sent: Thursday, 11 January 2018 12:50 PM
To: Barrett, Scott (Health)
Subject: RE: Data Migration questions for RIS PACS system admin team
 [SEC=UNCLASSIFIED]

Hi Scott,

RE: Spreadsheet on the data analysis.

Basically it all needs to be migrated except for "Test Patients".

All that remains is how Agfa handles it!

Some of what is in the spreadsheets was surprising, particularly 'Completed exams 3' - T-number corp ID/MRN - Patient Name field populated with 'conversion data, no MRN -Détente these have no patient name or MRN these can also be excluded from migration I would think.

Investigating each of the spreadsheet pages, we have the following:

Acc with multiple studies:

Migrated results from legacy Détente RIS

Multiple studies performed as part of the same exam (e.g NM)

Migration problems from Interim DICOM Archive (IDA) and CT1 at time (2008) single study sent as 2 or more to IDA

Images sent from modalities as separate studies (after merging to single study in PACS, RIS still shows multiple.

Study to multiple acc:

Migrated results from legacy Détente RIS where that single report is linked to multiple body parts.

Multiple procedures in RIS linked to a single image set in PACS (Tech failure to follow workflow)

StudyUID missing from PACS:

Cancelled procedures in RIS with images (duplicates) deleted from PACS

StudyUID missing from RIS:

Images existing in PACS

Images deleted permanently from PACS -no images existing

Images hidden in PACS by using 'Delete' option -this hides the images from users (RISPACS Admin - in PACS backend these are listed as discontinued)

Cancelled:

Mostly RISPACS Admin correction of errors

Completed Exams 1:

Calvary Cardiologist Echo reports -valid as RIS is used to store these -No images

Reported procedures without images (Tech & Radiologist workflow errors)

Reported procedures without images (no images acquired)

NM Iodine Therapy - Valid reports however No images are acquired for these.

Completed Exams 2:

Imported outside images no results (usual proc description -External film however some have been entered incorrectly and have incorrect description.

Calvary Test Patient - do not migrate ACC# [REDACTED]

Test Patient - do not migrate ACC# [REDACTED]

Unreported Studies

Calvary Cardiologist Echo reports -valid as RIS is used to store these -No images

Completed Exams 3:

Proc desc 'ZZ' Détente legacy RIS migrated exams –no images

Imported outside images no results (usual proc description -External film however some have been entered incorrectly and have incorrect description.

Calvary Test Patient - do not migrate ACC# [REDACTED]

T-number corp ID/MRN – Patient Name field populated with 'conversion data, no MRN –Détente

Calvary Cardiologist Echo reports -valid as RIS is used to store these -No images

Regards,

Chris

Chris Pearce | PACS Administrator

Direct Phone: 02 61747961 | Direct Email: Christopher.Pearce@act.gov.au

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From: Barrett, Scott (Health)

Sent: Wednesday, 10 January 2018 2:46 PM

To: Pearce, Christopher (Health) <Christopher.Pearce@act.gov.au>

Subject: FW: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

I'll come and explain

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

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██████████ | IDIS Data Migration Analyst - UCPH Digital Solutions Program

Mobile : ██████████ Email: ██████████@act.gov.au

Heland, Rebecca (Health)

From: [REDACTED] <[REDACTED]>
Sent: Thursday, 11 January 2018 12:23 PM
To: [REDACTED] (Health); [REDACTED] (Health)
Cc: [REDACTED] (Health); Crossley, Nick; [REDACTED]
Subject: Re: Attachment types [SEC=UNCLASSIFIED]

Hi [REDACTED]

I have reviewed the current configuration related to attachments in DEV and I need to have further discussion with our Applications team around the intended workflow for the "to-be". Ideally, the attachments coming over as part of the migration will match how that data will be captured in the system going forward, otherwise specific attachment types may need to be configured for use during the migration.

For the initial testing I would suggest utilising a code of SCANNED_REQUEST. This will allow them to be imported into the currently configured system for display. I will provide more feedback once I have confirmed details with the applications team.

Kind Regards,

[REDACTED]
 T +61 3 9756 4645 | F +61 7 3356 6683 | M +[REDACTED]

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

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

[REDACTED]
 <Nick.Crossley@act.gov.au>
 Date: 10/01/2018 11:19 PM
 Subject: Re: Attachment types [SEC=UNCLASSIFIED]

"Crossley, Nick"

Hi [REDACTED]

The 'codes' are indeed something that need to be setup in EI by the application specialists and according to what is needed in your workflow. Some default codes are always in the EI system on installation, but in a lot of cases they are not used.

Maybe [REDACTED] has a better idea of what is already in your system or else he will be able to point to the correct person I believe.

Kind Regards,

[REDACTED]
 T [REDACTED]

Holiday alerts:

- 18/12/2017 until 21/12/2017 only 50% available
- 22/12/2017 until 29/12/2017 not available

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

[REDACTED]
[REDACTED]
[REDACTED] "Crossley, Nick" <Nick.Crossley@act.gov.au> [REDACTED]

Date: 10/01/2018 03:14

Subject: Attachment types [SEC=UNCLASSIFIED]

[REDACTED]

The Agfa specification for the Attachment extract file includes the following for the 'Code' field:

The code must correspond to an attachment code defined in the Enterprise Imaging target system. The code will determine whether the attachment is an order or study level attachment.

We do not have any definitions of the allowed codes – the examples include two possible values but there doesn't seem to be a definitive list. Siemens have sent a file with two types: 'SCAN DOCUMENT' and 'INTERACTIVE DOCUMENT'. We need to know whether we have to translate these to other values.

Is this something that is fixed within EI or do these codes need to be set up to match all possible attachment types that we might be able to send? We are also not sure how to identify whether an attachment would be at the Order or Study level, though this is probably something we need to work out with Siemens and the RISPACS support team.

Regards

[REDACTED]

[REDACTED] | [REDACTED]

Phone: 02 6174 8768 | Mobile: [REDACTED] | Email: [REDACTED]

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Heland, Rebecca (Health)

From: [REDACTED] <[REDACTED]>
Sent: Thursday, 11 January 2018 12:20 AM
To: [REDACTED] (Health)
Cc: [REDACTED] (Health); [REDACTED] Crossley, Nick; [REDACTED] (Health); [REDACTED] (Health)
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To: [REDACTED]
 Cc: [REDACTED] "Crossley, Nick" <Nick.Crossley@act.roy.ni>

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██████

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Heland, Rebecca (Health)

From: Barrett, Scott (Health)
Sent: Thursday, 11 January 2018 12:17 PM
To: [REDACTED] (Health)
Subject: RE: Discuss RIS attachment data location [SEC=UNCLASSIFIED]

Hi [REDACTED]

I've got a meeting with Mark just before this one and I have a pretty good feeling it will overrun.

Do you want to reschedule or should I just jump in with guys you my meeting with Mark finishes?

Thanks

Scott

Scott Barrett | Manager

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Technology Operations Branch | Digital Solutions Division | Health Directorate | ACT Government

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-----Original Appointment-----

From: [REDACTED] (Health)
Sent: Thursday, 11 January 2018 9:07 AM
To: [REDACTED] (Health); [REDACTED] (Health); Crossley, Nick; [REDACTED] (Health); [REDACTED] Barrett, Scott (Health)
Subject: Discuss RIS attachment data location
When: Thursday, 11 January 2018 3:00 PM-3:30 PM (UTC+10:00) Canberra, Melbourne, Sydney.
Where: [REDACTED] room

Siemens will be providing about 300 GB of attachment files as part of Data Migration. It seems unlikely that they can provide them in a location that the Agfa AMT system will also be able to access.

We need to determine the best method of getting these files to Agfa.

Forgot to include Scott – sorry, your team is important here – and needed to move it later as a result.

[REDACTED]

Heland, Rebecca (Health)

From: Barrett, Scott (Health)
Sent: Wednesday, 10 January 2018 3:17 PM
To: [REDACTED] (Health); [REDACTED] (Health)
Cc: [REDACTED] (Health); Garbuio, Paul (Health); [REDACTED] (Health); Griffiths, Jessica (Health); Pearce, Christopher (Health)
Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi [REDACTED]

I can confirm that we don't have the required 300GB free on any of our servers.

The last time a request of this nature was revived, a portable hard drive was used.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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From: [REDACTED] (Health)
Sent: Wednesday, 10 January 2018 2:24 PM
To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>; [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>; Garbuio, Paul (Health) <Paul.Garbuio@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>
Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi Scott.

Thanks for the update. If there should not be enough free space, we will need to explore and mitigate what is the best option for data migration for RIS PACS very soon. Otherwise, the project schedule will slip moving forward.

Many Thanks Scott. Speak soon.

Warm Regards,

[REDACTED]

From: Barrett, Scott (Health)
Sent: Wednesday, 10 January 2018 2:20 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] (Health) <[REDACTED]>
Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>; Garbuio, Paul (Health) <Paul.Garbuio@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>
Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi [REDACTED]

I'm almost certain we do not have 300gb of free space on any of our servers to accommodate the Siemens data dump.

I'll follow up with my team to confirm.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

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From: [REDACTED] (Health)

Sent: Wednesday, 10 January 2018 9:58 AM

To: [REDACTED] (Health) <[REDACTED]> Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

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

[REDACTED] (Health) <[REDACTED]@act.gov.au>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>

Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi All,

For clarity, this is something new that was raised by with Siemens today on size availability for RIS PACS.

Warm Regards,

From: [REDACTED] (Health)

Sent: Wednesday, 10 January 2018 9:40 AM

To: [REDACTED] (Health) <[REDACTED]> Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

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

[REDACTED] (Health) <[REDACTED]@act.gov.au>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>

Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Good Morning.

One more for discussion: RIS-PACS for space availability for 300Gb.

Warm Regards,

From: [REDACTED] (Health)

Sent: Tuesday, 9 January 2018 4:48 PM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

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

Garbuio, Paul (Health) <Paul.Garbuio@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>

Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

All,

Notes and actions from today's meeting. Please add anything I missed (including actions for Scott).

Cancelled procedures with no associated Study images but have valid results

In general these should be legitimate, but should usually have a valid cancellation reason.

Action: SS to provide samples for RISPACS to check. Possibly include breakdown of cancellation reasons.

Action: TP to include in Data Migration Audit specification.

Completed procedures with no associated Studies or results

Uncertain as to cause or validity of these cases.

Action: SS to provide samples for RISPACS to check.

Completed procedures with no associated Study images but have valid results

These would normally be valid. Should be associated with specific modalities only.

Can check radiographer notes – should indicate reason for lack of image.

Procedure code will often be 'consultation'

Would expect to migrate as-is.

Action: SS to provide samples for RISPACS to check. Possibly include breakdown of procedure codes and/or modalities.

Action: TP to include in Data Migration Audit specification.

Completed procedures with valid study images but no results

Can be very common, though mainly should date from 2010 – 2012.

Would expect to migrate as-is.

Action: SS to provide samples for RISPACS to check.

Action: TP to include in Data Migration Audit specification.

Study details in PACS with no corresponding accession number or StudyUID details in RIS

These are unexpected; not sure of the possible causes:

Possibly due to PACS-generated accession numbers that have not been properly corrected by linking back to the order. Calvary?

Could be duplicate images that can be discarded during migration.

Action: SS to provide full list for RISPACS to check.

Action: TP to include in Data Migration Audit specification.

Completed procedures with valid study details in RIS but no corresponding images in PACS

Could these be images that have been deleted from PACS but not cleared up in the RIS?

Action: SS to provide samples for RISPACS to check.

Action: TP to include in Data Migration Audit specification.

Another previously issue not previously identified was raised during the meeting:

Hidden Images:

Should these be migrated?

How do we identify?

Other items discussed:

Multiple Accession numbers against the same Study UID; only one accession number in the PACS for that study:

Usually valid with the additional accession numbers linked to a 'primary'.

Recommendation: That when records migrated, drop study UID from all accession number except the one linked in the PACS. All accession numbers can still be found, but image only available via primary number or patient search.

Action: SS to provide samples for RISPACS to check.

Action: TP to include in Data Migration Audit specification. A summary report to be produced as part of Migration for ongoing BAU support.

Multiple Study UIDs against the same Accession number:

These are likely to be valid; can arise where a combined procedure (e.g. foot and ankle) has included separate studies. Usually only a few records in each case, but there are outliers with many studies.

Recommendation: That when records migrated, amend the accession number to ensure uniqueness by appending a sequence number (.nnn). All occurrences of the accession number will be returned by a search on the original number.

Action: SS to provide samples for RISPACS to check, especially of the outlier cases.

Action: TP to include in Data Migration Audit specification.

██████████ | IDIS Delivery Manager - UCPH Digital Solutions Program

Phone: 02 6174 8768 | Mobile: ██████████ | Email: ██████████

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

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From: Barrett, Scott (Health)

Sent: Thursday, 21 December 2017 11:44 AM

To: ██████████ (Health) <██████████>

Cc: ██████████ (Health) <██████████@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>

Subject: RE: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi ██████████

No problem at all, we are all back on deck by that point.

Looking at the questions, they all look like plausible scenarios within the system that are associated to poor work practice or administrative errors.

Thanks

Scott

Scott Barrett | Manager

Direct Phone: 02 6174 8039 | Direct Email: scott.barrett@act.gov.au

Diagnostic Imaging Systems | Diagnostic & Medication Systems Hub | Phone: 02 6174 8750 | Email: DSD.DIS@act.gov.au

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

From: ██████████ (Health)

Sent: Thursday, 21 December 2017 11:37 AM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>

Cc: ██████████ (Health) <██████████@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>

Subject: FW: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Scott,

Can we request some time with your team early in the New Year to discuss a few questions we have around the validity of the data we are getting from Siemens for migration? The below are the short forms of the questions; we can fully explain each one at the time.

We also have some questions around the use of some of the RIS user fields; if your team has any information on what is contained in them we can discuss that as well.

Any time you are available from the 8th would be great.

Thanks

██████████ | ██████████

Phone: 02 6174 8768 | Mobile: ██████████ | Email: ██████████

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Level 10, Building 1, TCH, Garran ACT | PO Box 11, Woden ACT 2606 | www.act.gov.au

From: ██████████ (Health)

Sent: Thursday, 21 December 2017 11:13 AM

To: ██████████ (Health) <██████████>

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

Subject: Data Migration questions for RIS PACS system admin team [SEC=UNCLASSIFIED]

Hi [REDACTED]

Below are a few questions that I can think of

Are the below scenarios valid

Cancelled procedures with no associated Study images but have valid results?

Completed procedures to not have any associated Studies or results?

Completed procedures with no associated Study images but have valid results?

Completed procedures with valid study images but no results?

Study details in PACS with no corresponding accession number or StudyUID details in RIS?

Completed procedures with valid study details in RIS but no corresponding images in PACS?

Regards,

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

Heland, Rebecca (Health)

From: [REDACTED] (Health)
Sent: Wednesday, 10 January 2018 2:24 PM
To: Barrett, Scott (Health); [REDACTED] (Health)
Cc: [REDACTED] (Health); Garbuio, Paul (Health); [REDACTED] (Health); Griffiths, Jessica (Health)
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Cc: [REDACTED] (Health) <[REDACTED]@act.gov.au>; Garbuio, Paul (Health) <Paul.Garbuio@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; Griffiths, Jessica (Health) <Jessica.Griffiths@act.gov.au>
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