From: "Arsavilli, Dev" <dev.arsavilli@act.gov.au> To: NAWVR/AGFA@AGFA Cc: AMPCY/AGFA@AGFA, "Second agfa.onmicrosoft.com" < agga.onmicrosoft.com", AGFA, "Griffiths, Jessica (Health)" <jessica.griffiths@act.gov.au>, "Duggan, Mark (Health)" <mark.duggan@act.gov.au>, "Barrett, Scott (Health)" <scott.barrett@act.gov.au> Date: 20/03/2018 11:32 Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]</scott.barrett@act.gov.au></mark.duggan@act.gov.au></jessica.griffiths@act.gov.au></dev.arsavilli@act.gov.au>
This looks to me like a bit of option 1 and option 2. I would like to understand the criteria behind auto purge. 1. Is it first in first out?
If migrated RIS data can remain we would prefer this bridged approach.
Please proceed with the configuration of extra disk to TEST from the unused env.
Kind Regards,
Dev
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
Sent: Monday, 19 March 2018 5:19 PM Griffiths, Jessica (Health) < Jessica.Griffiths@act.gov.au>; Duggan, Mark (Health) < Mark.Duggan@act.gov.au>; Barrett, Scott (Health) < Scott.Barrett@act.gov.au> Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]
'i Dev,
Just to confirm our discussion just now.
You are OK for Agfa to proceed now with Option 2 as Follows.
a) Agfa will reassign 1TB of Cache from "Test" (not currently in use) to the "Dev" environment. (Now designated as the TEST environment).
b) Agfa will configure the auto purging of images from Dev cache only. The RIS Data will remain.
I will try to find our if any particular rules can be applied and if the purging can be scheduled.
Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com

	to the second se
From: "Arsavilli, Dev" <dev.arsavilli@act.gov.au></dev.arsavilli@act.gov.au>	6
To: agfa.onmicrosoft.com	
Cc: AMPCY/AGFA@AGFA, AMPCY/AGFA@AGFA,	AWWQG/AGFA@AGFA, "Griffiths, Jessica (Health)"
<jessica.griffiths@act.gov.au>, "Barrett, Scott (Health)" <scott.barrett@act.gov.au>,</scott.barrett@act.gov.au></jessica.griffiths@act.gov.au>	"Duggan, Mark (Health)" < Mark. Duggan@act.gov.au>
Date: 16/03/2018 01:25	
Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]	

Hi

Thank you for taking time to review this issue and responding in detail.

My summary:

It is a very simple and general expectation of ACT Health that we have a TEST environment that is fit for purpose. Here we have a TEST environment that is not fit for testing within the scope.

I do not agree with the reasoning that this approach was not made clear:

I have reviewed this with the Project Team and asked them to look in to all initial discussions.

From the available minutes etc, this testing approach was being discussed in September/October 2017.

Agfa team were part of these discussions.

Please see attached; one of the items mentioned in this minute talks about subset of data migration testing being sufficient for ACT Health. It also mentions that as big as 10% of DB will be provided to Agfa for migration at one instance.

- Q1. Why was this issue not identified/thought/raised earlier?
- Q2. Why have we discovered this in the middle of testing after the fact that the disk was full?

It seems like the environment was not actively monitored. Are there any monitoring measures in place currently? If we are not monitoring disk space are we monitoring other issues?

Nowhere in the BRS have we mentioned that we will accept Agfa's global best practice.

Please see below:

S16	Compliance	Comply with the standards for hardware and software listed in the ACT reference manual.	
S17	Compliance	Comply with the ACT Health change management process.	
S12	Architecture	Complies with the ACT Government ICT Data Centre requirements.	3 (7.7)

Agree that this approach of 20% of migration was not documented in the BRS as we normally consider 100% data migration in TEST as a standard. Imagine scoping of TEST environments for just 1.5% of data migration.

If this is the best practice I am really concerned.

I see the requirement in BRS mentioning Data Migration.

CC12	Installation	Data migration from the existing RIS-PACS	
351		to the new RIS-PACS should be included in	
		the solution offered.	

Q3. Was Agfa unware of the size of the database to be migrated from existing RIS-PACS to the new RIS-PACS? I agree that there is no mention of environments in this requirement,

- Q4. Does that mean data migration happens directly in Production environment?
- Q5. Why was only production environment scoped for data migration when our environment description mentions TEST as well?

CC1	Environment	The system will operate in the environments:	•	£
		• Dev		
		• Test		
	1	Pre Prod / Training; and		
		Prod		

This clearly explains that we test any changes before migrate to Production.

It is a standard practice if there is a data migration involved, the storage space in TEST and PROD be configured at similar capacity. In some instances we configure non-replicated storage in test for testing purposes but with matching disk capacity.

PR2	Storage	Provide enough short term storage to	Current date minus 3 years plus
		house a minimum of 3 years data.	capacity to store pre-fetched historica
			(archived) images.

Q6. How did Agfa see similar requirements for PROD env only?

Q7. Was 'testing' for data migration not scoped at all?

'e are really concerned that testing of data migration was not considered.

This should have been checked as part of milestone 1 completion.

I am also concerned that there is a reference to SoW and a Pre-Prod testing approach. Currently I am not able to view the SoW but would like to read it myself. If this statement is correct, then we have agreed on a poor quality criteria.

Coming to the options proposed:

Option 1: not suitable

- a. This option proposes different approach for TEST and PROD and this is not considerable
- b. This option may delete images before completion of testing

Option 3: not suitable

- Testing in Pre-PROD is simply not acceptable and doesn't comply with ACT Change Management Processes
- b. We need migrated data in TEST for System and Integration (SIT) Testing and BI (reporting) testing.
- c. This will make SIT and BI testing invalid in TEST

Option 2: not suitable fully, but we can accept this approach temporally to continue with data migration cycle 3 and 4 but for cycle 5 would require more than 2TB.

- This approach requires clean-up of the data for each cycle to run.
- a. Our preferred approach for this option would be to keep migrated RIS data in place with each cycle and just remove images to create space for next cycle.
- b. I believe this is not possible
- c. However, to continue with data migration testing this approach can be used. I have confirmation from the Testing Team this will not cause any issues for their testing plan
- 2. This approach will not ensure that we have sufficient RIS data for BI testing in TEST

Q8. Why we were not proposed an option to use the Production disk temporarily in the similar manner to Option 2 (Option 2 proposed porting of 1TB from a different environment)

- a. This will be our most preferred approach to resolve this issue.
- b. This will ensure sufficient temp storage for testing in TEST

PR3	Storage	The storage solution is scalable and	
		upgradeable.	

- c. This will give good approximate times for PRE-PROD data migration
- d. This approach will help us do bigger chunks of data migration as planned before.
- e. If production uses replicated storage using a small portion of the replicated storage is an advantage
- f. As we are not using the PROD environment, temporary usage of the disc adds value
- g. Q8. Is there a significant reason preventing Agfa do not want to take this approach

h. The project team would like to discuss further at any time.
Kind Regards,
Dev
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: [mailto] Sent: Wednesday, 14 March 2018 7:40 PM To: Duggan, Mark (Health) < Mark.Duggan@act.gov.au > Cc: Arsavilli, Dev < Dev.Arsavilli@act.gov.au >;
Hi Mark
I have reviewed the issue, notes in email trail below, and both documentation.
I am not able to find any reference to the requirement to provision a TEST environment suitable to specifically support the migration testing strategy and approach that is currently being undertaken by ACT Health. In addition, I am not able to locate where there may be stated <i>any</i> requirements or direction articulated to Agfa in advance so as one would reasonable expect us to assess and provision an environment that supports this particular testing approach.
In the course of my internal discussions with the AGFA teams last night and this morning, it would appear we certainly have not been previously exposed to migration testing in this context and which required us to provision an environment to meet your particular needs. By no means is it a reflection of the testing quality and efficacy being undertaken, but it certainly would be viewed as atypical from our perspective. As such, it was never planned for or considered. Our EI TEST environment, as has articulate below, has been provisioned in line with our global best practice. Our design specifications of course are to support testing of our applications, and were never intended for supporting this type of migration testing. Although we inadvertently seemed to have gone down this path a ways with you in good faith.
So going forward, we can propose three options for consideration:
1. As email from 09 March, we can turn on automatic purging of the data within the TEST storage cache. I understand this may have some impact on the testing approach and can work through this with Dev and the migration teams. 2. We believe we can relatively easily assign 1TB of cache from one of the other environments temporarily. Although this will immediately allow you to progress the testing of DICOM throughput which has recently been stopped, I don't believe 2TB will be near sufficient to achieve the 20% of migrated data being sent to TEST. Essentially this too will fill up eventually. 3. ACT Health to change the testing approach to one which involves migrated data being testing in Pre-PROD. I know Dev has expressed some concerns about this approach (and we would be happy to discuss with him further what risks he sees here). I believe this was an approach that was perhaps suggested in the SoW documents in any case, but understand if that changes to approach may be valid through the course of any project.
Once you have reviewed these options, please let us know how you may wish to proceed. Of course if you need an out of session meeting to discuss, we can organise.
Kind Regards,
T +61 3 9756 4624 F +61 2 9647 2742 M
Australia Pty Ltd. 20 Shand Street Stafford QLD 4053 http://www.agfahealthcare.com http://blog.agfahealthcare.com

Heland, Rebecca (Healt	h)
From:	
Sent:	Wednesday, 28 March 2018 1:20 PM
To:	(Health)
Cc:	Arsavilli, Dev; Barrett, Scott (Health)
Subject:	Re: FW: Load on PACS servers [SEC=UNCLASSIFIED]
	2
Hi	
	tonight, I will ask for the details of the migrations when everything is complete. I'll e paused but I think it should be completed by then based on current progress.
The 2nd Batch started just bef running 5 threads.	fore 17:00 yesterday so I expect that was the peak that was observed then. It was
Kind Regards,	
	■ Accompany on your
T +61 3 9756 4308 F +61 2 9647	2742 M
Australia Pty Ltd. U http://www.agfahealthcare.com http://blog.	Jnit 18, 52 Holker St, Silverwater NSW 2128 Australia
Click on link to read important discl	aimer: http://www.agfahealthcare.com/maild/sclaimer
From: ' (Health)" < To: /NAWVR/AGFA@AGFA	
Cc: "Arsavilli, Dev" < Dev. Arsavilli@act.go	ov.au>, "Barrett, Scott (Health)" <scott.barrett@act.gov.au></scott.barrett@act.gov.au>
Date: 28/03/2018 12:08 Subject: FW: Load on PACS servers [SE	:C=UNCLASSIFIED]
AND THE PARTY OF T	
For information, Can you try and	get details on when each migration batch finished/started? I'm wondering if the load spike wa
	at exactly the same time when started batch 2.
Also, please note the maintenance you organise to have it paused/re	ce on PACS servers tomorrow morning. Assuming the migration is still running at that stage, car estarted?
Thanks	
	Email: Dutions Division Health Directorate ACT Government
VII. 180 - 180 E. SAULEN WAR	
From: Barrett, Scott (Health)	D 11.EE AM
Sent: Wednesday, 28 March 2018 To: Arsavilli, Dev <dev.arsavilli@8< td=""><td>The Marian Service of the Control of</td></dev.arsavilli@8<>	The Marian Service of the Control of
act.gov.au>	(1,00101)

Cc: Alam, Azwer (Health) <Azwer.Alam@act.gov.au>
Subject: RE: Load on PACS servers [SEC=UNCLASSIFIED]

Hi Guys,

Just some more feedback on the data migration.

We noticed that the system load went up to about 8 yesterday evening at about 5pm. Was there anything unusual happening at that time that we should be aware of? No complaints were received but I'd still like us to try and not creep too much above 6 if possible.

Also, we are due to carry out our routine PACS maintenance at 5am tomorrow which will involve powering down the servers and restarting them. This will obviously disrupt the migration and I wanted to raise it so you both the project and Agfa are aware that there will be a dropout at this time.

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: Arsavilli, Dev Sent: Monday, 26 March 2018 11:15 AM To: Barrett, Scott (Health) < Scott.Barrett@act.gov.au >; (Health) < act.gov.au> Subject: RE: Load on PACS servers [SEC=UNCLASSIFIED] Thank you Scott for the update. Kind Regards, Dev 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: Barrett, Scott (Health) Sent: Monday, 26 March 2018 11:01 AM (Health) < Cc: Arsavilli, Dev < Dev. Arsavilli@act.gov.au> Subject: FW: Load on PACS servers [SEC=UNCLASSIFIED] Hi Guys, FYI Thanks

Scott Barrett | Manager

Scott

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: Alam, Azwer (Health)

Sent: Monday, 26 March 2018 10:57 AM

To: Barrett, Scott (Health) < Scott.Barrett@act.gov.au > Subject: Load on PACS servers [SEC=UNCLASSIFIED]

Hi Scott,

The load on PACS servers at the moment is double of that we usually see. However, servers can manage really well on this load.

Numbers beyound 6 will slow down PACS. Please note the high memory usage, but there is buffering.

In short, PACS is manageing the work load well at the moment.

Will keep an eye.

									_		
											7
top -	10:50:32	up 2	25 da	ays, ·	4:34,	8 u	вег	rs, loa	d ave	erage: 4.80	6, 1.18, 4.49
	: 424 tota								etor		schabie
											0.6%s1, 0.0%st
Mem:	129161M										3M buffers
Swap:	8196M	tot	al,		194M 1	ısed,		8002M	free	e, 82229	M cached
PTD	USER	PR	NI	VIRT	RES	SHR	q	%CPU	a-MEM	TIME+	COMMAND
19080	Contract Con	20		10.1g		The same	- 650	252	1.7		/usr/java/default/bin/j
18536		20		7325m				35	2.9		/usr/java/default/bin/j
19687		20		2073m				4			/usr/java/default/bin/j
43259		20	0	0	0		3	3	0.0		[kjournald]
43129		20	0	0	0	0	3	2	0.0		[kjournald]
43134	root	20	0	0	o	0	S	2	0.0		[kjournald]
18722		14	-6	0	0	0	S	1	0.0	6:59.02	[vxiod]
1719	root	20	0	0	0	0	R	1	0.0	7:29.67	[kworker/20:2]
7159	root	20	0	0	0	60	3		0.0	7:40.17	[kworker/6:0]
14482	root	20	0	0	0	0	3	1	0.0	28:32.01	[kworker/19:0]
34657	root	20	0	88304	872	780	S	1	0.0	319:01.46	/usr/sbin/ocmanager/elx
43272	root	20	0	0	0	0	5	1	0.0	17:53.84	[kworker/13:0]
55269	root	20	0	0	0	0	3	1	0.0	2:42.43	[kworker/7:2]
_162	root	20	0	0	0	0	5	1	0.0	9:10.35	[kworker/14:0]
66	root	20	-0	0	0	0	5	1	0.0	6:18.55	[kworker/15:0]
78	root	20	0	0	0	0	5	1	0.0		[kworker/18:0]
	root	20	9	0	0	0	S	1	0.0		[kworker/21:0]
	root	20	0	9176	1412	812	R	1	0.0	0:00.16	
2548		20	0	54864	3072		3	1	0.0		/usr/bin/ssh -x -oForwa
2562		20	0			2312	5	1	0.0		/usr/bin/ssh -x -oForwa
14483		20	0	0	0	0	5	1	0.0		[kworker/18:2]
15319		20	0	0	0		5	1	0.0		[kworker/0:0]
18718	root	14	-6	0	0	0	S	1	0.0	8:41.72	[AXTOG]

Azwer Alam | System Support Officer

Direct Phone: 02 62444932 | Direct Email: azwer.alam@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

This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments

immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.

Heland, Rebecca (He	ealth)
From: Sent: To: Cc: Subject:	Barrett, Scott (Health) Wednesday, 28 March 2018 11:55 AM Arsavilli, Dev; (Health); (Health); (Health) Alam, Azwer (Health) RE: Load on PACS servers [SEC=UNCLASSIFIED]
Hi Guys,	
Just some more feedback	on the data migration.
The same and the s	em load went up to about 8 yesterday evening at about 5pm. Was there anything unusual nat we should be aware of? No complaints were received but I'd still like us to try and not f possible.
servers and restarting the	out our routine PACS maintenance at 5am tomorrow which will involve powering down them. This will obviously disrupt the migration and I wanted to raise it so you both the project here will be a dropout at this time.
Thanks	
Scott	
Diagnostic Imaging Systems E Technology Operations Branch	Direct Email: scott.barrett@act.gov.au Diagnostic & Medication Systems Hub Phone: 02 6174 8750 Email: DSD.DIS@act.gov.au Digital Solutions Division Health Directorate ACT Government ACT Government GPO Box 825, Canberra City ACT 2601 act.gov.au
(Health	<pre><scott.barrett@act.gov.au>;</scott.barrett@act.gov.au></pre> (Health) <
Thank you Scott for the up	odate.
Kind Regards,	
Dev	
그러움 경우 하다 그림 역시 아이트를 보면 하는 생각이 있다면 하는데 살아 되었다. 그렇게 되었다면 보다 없다	r Email: <u>Dev.Arsavilli@act.gov.au</u> nce Branch Digital Solutions Division Health Directorate ACT Government GPO Box 825, Canberra ACT 2601 act.gov.au
From: Barrett, Scott (Heal Sent: Monday, 26 March 2 To: (Health Cc: Arsavilli, Dev < Dev. Ars	2018 11:01 AM n) < (Health)

Subject: FW: Load on PACS servers [SEC=UNCLASSIFIED]

Hi Guys,

FYI

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: Alam, Azwer (Health)

Sent: Monday, 26 March 2018 10:57 AM

To: Barrett, Scott (Health) < Scott.Barrett@act.gov.au > Subject: Load on PACS servers [SEC=UNCLASSIFIED]

Hi Scott,

The load on PACS servers at the moment is double of that we usually see. However, servers can manage really well on this load.

Numbers beyound 6 will slow down PACS. Please note the high memory usage, but there is buffering.

In short, PACS is manageing the work load well at the moment.

Will keep an eye.

_										The state of the s	4
100											6, 1.18, 4.49
	: 424 to			runnin				HOUSE AND ADDRESS OF THE PARTY		25.20 mms 400 mms // mm	zczobie
				Starte Co.							0.6%si, 0.0%st
em:								5761			3M buffers
wap:	213	6M tot	aı,		194M :	ısea,		80021	ITE	2, 5222	9M cached
PID	USER	PR	NI	VIRT	RES	SHR	5	%CPU	%MEM	TIME+	COMMAND
9080	sdm	20	0	10.1g	2.2g	7748	5	252	1.7	4836:34	/usr/java/default/bin
8536	sdm	20	0	7325m	3.6g	6660	5	35	2.9	1882:16	/usr/java/default/bin
9687	sdm	20	0	2073m	697m	6420	5	4	0.5	338:10.94	/usr/java/default/bin
3259	root	20	0	0	0	0	5	3	0.0	8:58.95	[kjournald]
3129	root	20	0	0	0	0	8	2	0.0	9:27.95	[k]ournald]
3134	root	20	0	0	0	0	5	2	0.0	8:42.10	[kjournald]
8722	root	14	-6	0	0	0	5	1	0.0	6:59.02	[vxiod]
1719	root	20	0	0	0	0	R	1	0.0	7:29.67	[kworker/20:2]
7159	root	20	0	0	0	0	5	1	0.0	7:40.17	[kworker/6:0]
4482	root	20	0	0	0	0	5	1	0.0	28:32.01	[kworker/19:0]
4657	root	20	0	88304	872	780	3	1	0.0	319:01.46	/usr/sbin/ocmanager/e
3272	root	20	0	0	0	0	5	1	0.0	17:53.84	[kworker/13:0]
5269	root	20	0	0	0	0	S	1	0.0	2:42.43	[kworker/7:2]
62	root	20	0	0	0	0	S	1	0.0	9:10.35	[kworker/14:0]
66	root	20	0	0	0	0	S	1	0.0	6:18.55	[kworker/15:0]
78	root	20	0	0	0	0	S	1	0.0	30:07.10	[kworker/18:0]
90	root	20	0	0	0	0	3	1	0.0	5:09.42	[kworker/21:0]
911	root	20	0	9176	1412	812	R	1	0.0	0:00.16	
2548	sdm	20	0	54864	3072	2312	5	1	0.0	0:00.02	/usr/bin/ssh -x -oFor
2562	scim	20	0	54864	3072	2312	3	1	0.0	0:00.02	/usr/bin/ssh -x -oFor
4483	root	20	0	0	0	0	3	1	0.0	26:10.24	[kworker/18:2]
5319	root	20	0	0	0	0	5	1	0.0	0:47.97	[kworker/0:0]
8718	root	14	-6	0	0	0	3	1	0.0	8:41.72	[vxicd]

Azwer Alam | System Support Officer

Direct Phone: 02 62444932 | Direct Email: azwer.alam@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

Heland, Rebecca (Health)	
From: Sent: To: Subject:	Barrett, Scott (Health) Wednesday, 28 March 2018 11:37 AM (Health) RE: Load on PACS servers [SEC=UNCLASSIFIED]
Hi	
Are you asking how orders place	d and how many reports (in total) we have in the RIS going back to go live?
I don't believe that we have som something that either	ething like that easily have to hand but I will ask the team. Wouldn't this be Siemens can provide?
Thanks	
Scott	
Technology Operations Branch Digital	ail: <u>scott.barrett@act.gov.au</u> ic & Medication Systems Hub Phone: 02 6174 8750 Email: <u>DSD.DIS@act.gov.au</u> I Solutions Division Health Directorate ACT Government Garran ACT GPO Box 825, Canberra City ACT 2601 act.gov.au
From: (Health) Sent: Wednesday, 28 March 201 To: Barrett, Scott (Health) <scott load="" on="" pacs="" re:="" server<="" subject:="" td=""><td>:.Barrett@act.gov.au></td></scott>	:.Barrett@act.gov.au>
Scott,	
probably do if necessary - we wo	es on the number of orders and reports currently in the RIS? (just orders would build be close enough if we estimated there was a report for every order). We have fast they are being migrated so knowing the totals will help us estimate Production
Та	
Phone: 02 6174 8768 Mobile: Future Capability & Governance Digit	- UCPH Digital Solutions Program Email:
From: Barrett, Scott (Health) Sent: Monday, 26 March 2018 12 To: (Health) <	act.gov.au> (Health)
Hi Guys,	

FYI

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: Alam, Azwer (Health)

Sent: Monday, 26 March 2018 10:57 AM

To: Barrett, Scott (Health) < Scott.Barrett@act.gov.au > Subject: Load on PACS servers [SEC=UNCLASSIFIED]

Hi Scott,

The load on PACS servers at the moment is double of that we usually see. However, servers can manage really well on this load.

Numbers beyound 6 will slow down PACS. Please note the high memory usage, but there is buffering.

In short, PACS is manageing the work load well at the moment.

Will keep an eye.

											4
top -	10:50:32	up 2	25 d	ays,	4:34,	8 u	sei	rs, loa	d ave	erage: 4.80	5, 4.18, 4.49
	: 424 tota				and the same of						zombie
Cpu (s)											0.6%si, 0.0%st
iem:	1291611							576M			BM buffers
wap:	81961	1 tot	a1,		194M 1	ısed,		8002M	free	e, 82229	9M cached
PTD	USER	PR	NI	VIRT	RES	SHR	5	%CPU	*MFM	TIME+	COMMAND
19080		20		10.10		107/03/52		252	1.7		/usr/java/default/bin/
18536		20		7325m				35	2.9		/usr/java/default/bin
9687		20		2073m				4			/usr/java/default/bin
	root	20	0	0	0		5	3	0.0		[kjournald]
	root	20	0	0	0		5	2	0.0		[kjournald]
	root	20	0	0	0	0	5	2	0.0		[kjournald]
	roct	14	-6	o	0	0	5	1	0.0	6:59.02	[VX10d]
1719	root	20	0	0	0	0	R	1	0.0	7:29.67	[kworker/20;2]
7159	roct	20	0	0	0	0	5	1	0.0	7:40.17	[kworker/6:0]
4482	root	20	0	0	0	0	3	1	0.0	28:32.01	[kworker/19:0]
4657	root	20	0	88304	872	780	3	1	0.0	319:01.46	/usr/sbin/ocmanager/e
3272	root	20	0	0	0	0	5	1	0.0	17:53.84	[kworker/13:0]
5269	root	20	0	0	0	0	S	1	0.0	2:42.43	[kworker/7:2]
62	root	20	0	0	0	0.	S	1	0.0	9:10.35	[kworker/14:0]
66	root	20	0	0	0	D	S	1	0.0	6:18.55	[kworker/15:0]
78	root	20	0	0	0	0	S	1	0.0	30:07.10	[kworker/18:0]
90	root	20	0	0	0	0	S	1	0.0	5:09.42	[kworker/21:0]
911	root	20	0	9176	1412	812	R	1	0.0	0:00.16	top -c
2548	sdm	20	0	54864	3072	2312	S	1	0.0	0:00.02	/usr/bin/ssh -x -oFor
2562	sdm	20	0	54864	3072	2312	S	1	0.0		/usr/bin/ssh -x -oFort
4483	root	20	0	0	0	0	5	1	0.0	26:10.24	[kworker/18:2]
5319	root	20	0	0	0	0	S	1	0.0	0:47.97	[kworker/0:0]
8718	root	14	-6	0	0	0	8	1	0.0	8:41.72	[vxiod]

Azwer Alam | System Support Officer

Direct Phone: 02 62444932 | Direct Email: azwer.alam@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

Heland, Rebecca (Health)

From:

(Health)

Sent:

Wednesday, 28 March 2018 9:42 AM

To:

Subject:

Migration Status report for Test Cycle 1 [SEC=UNCLASSIFIED]

Attachments:

[AUS - ACT] DICOM Migration Status.xlsx

I have attached the migration status report from this was for Cycle 1, with 1 thread during the peak and 2 during the off peak hours.

Regards,

(Health);

ŀ	leland.	Rebecca	(Health)

From: Sent:

Monday, 26 March 2018 6:54 PM

To:

Cc:

Arsavilli, Dev; Griffiths, Jessica (Health);

(Health); Crossley, Nick;

Subject:

[AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]



I just had a look at the running migration, this is the status:

- The migration of studies that don't need an update to the DICOM header is at 75% and is expected to run for another 20 hours to complete at the current rate.
- All migrated studies seem to validate successfully.
- We also still have +/- 2000 studies that need a DICOM header update and from previous tests we know that these studies are large (more MB per study to move).

So we will not be finished before the extra threads kick in.

Kind Regards,

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

Hi

So far migration has been going well.

At 17:00 (after 7 hrs) migration was at approx 60% and process 630k images.

It is likely this will finish before 22:00 when the additional threads would be used but if you can give us a report anyway when finished it would be appreciated.

Kind Regards,



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

Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

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

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

From: NAWVR/AGFA
To: AXKQB/AGFA@AGFA
Cc: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>@AGFASMTP, "Griffiths, Jessica (Health)" <Jessica.Griffiths@act.gov.au>, (Health)" <Jessica.Griffiths@act.gov.au>,

Hi

Thanks for confirming just now the HL7 migration was successful.

Please schedule the DICOM migration to commence Monday 10:00 (our time) according to the following criteria...

- The peak and off-peak times remain the same as for the previous cycles,
- Threads to run during the peak hours 5
- Threads to run during the off-peak hours 10

*Peak hours - 5:00 am to 10:00pm Off peak hours - 10:00pm to 5:00am

We will monitor the initial DICOM performance with the PACS Admin team Monday to ensure no impact to the Siemens production system.

Kind Regards,



Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

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

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

From: AXKQB/AGFA
To: NAWVR/AGFA@AGFA
Cc: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>@AGFASMTP, "Griffiths, Jessica (Health)" <Jessica.Griffiths@act.gov.au>, (Health)"

Date: 22/03/2018 21:19

Subject: [AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi All,

I can confirm that the HL7 migration of the 'Cycle 3' test extracts has now been completed towards EI.

For the DICOM part of the migration, I'll wait for a signal that the validation was completed.

Performance is better then before, we are now using a multi threaded approach in a new version of the migration tools (2 services per Core Server). If the production EI has multiple CS servers, the performance should still be better then what is mentioned below.

- ORM => +/- 350ms per message
- ORU => +/- 250ms per message

Kind Regards,



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: NAWVR/AGFA
To: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>@AGFASMTP
Cc: "Griffiths, Jessica (Health)" <Jessica.Griffiths@act.gov.au>, "Health" < (Health)" <

Date: 21/03/2018 19:52
Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi Dev,

Just confirming, has reassigned the available cache from "Test" to "Dev" and turned on the purging.

On this afternoon's migration call we can confirm the time and date for the 3rd test migration. As per advice the next test migration will have

- The peak and off-peak times remain the same as for the previous cycles,
- Threads to run during the peak hours 5
- Threads to run during the off-peak hours 10

*Peak hours - 5:00 am to 10:00pm Off peak hours - 10:00pm to 5:00am

Kind Regards,



Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

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

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

From:
Hi Day
Hi Dev,
Thanks for the confirmation.
I tried to find out overnight the details of the algorithm used. From the feedback so far it appears to be based on a FIFO but this is an algorithm designed for the incoming cache cleanup so a number of factors are used.
btw - I checked with and he has confirmed the testing team have completed their testing on the first 2 cycles.
Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: "Arsavilli, Dev" <dev.arsavilli@act.gov.au> To: NAWVR/AGFA@AGFA Cc: AMPCY/AGFA@AGFA, "Barrett, agfa.onmicrosoft.com" <</dev.arsavilli@act.gov.au>
This looks to me like a bit of option 1 and option 2. I would like to understand the criteria behind auto purge. 1. Is it first in first out?
If migrated RIS data can remain we would prefer this bridged approach.
Please proceed with the configuration of extra disk to TEST from the unused env.
Kind Regards,
Dev
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: [mailto:

	1034
Sent: Monday, 19 March 2018 5:19 PM To: Arsavilli, Dev <dev.arsavilli@act.gov.au> Cc: Griffiths, Jessica (Health) <jessica.griffiths@act.gov.au>; Duggan, Mark (Health) <jessica.griffiths@act.gov.au>; Duggan, Mark (Health) <scott.barrett@act.gov.au> Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]</scott.barrett@act.gov.au></jessica.griffiths@act.gov.au></jessica.griffiths@act.gov.au></dev.arsavilli@act.gov.au>	alth)
Hi Dev,	
Just to confirm our discussion just now.	
You are OK for Agfa to proceed now with Option 2 as Follows.	
a) Agfa will reassign 1TB of Cache from "Test" (not currently in use) to the "Dev" environment. (Nathe TEST environment).	ow designated as
b) Agfa will configure the auto purging of images from Dev cache only. The RIS Data will remain.	
I will try to find our if any particular rules can be applied and if the purging can be scheduled.	
Kind Regards,	
T +61 3 9756 4308 F +61 2 9647 2742 M	
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com	
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer	
From: "Arsavilli, Dev" < Dev.Arsavilli@act.gov.au> To: langle lan	s, Jessica (Health)" ict.gov.au>

Hi

Thank you for taking time to review this issue and responding in detail.

My summary:

It is a very simple and general expectation of ACT Health that we have a TEST environment that is fit for purpose. Here we have a TEST environment that is not fit for testing within the scope.

I do not agree with the reasoning that this approach was not made clear:

I have reviewed this with the Project Team and asked them to look in to all initial discussions.

From the available minutes etc, this testing approach was being discussed in September/October 2017.

Agfa team were part of these discussions.

Please see attached; one of the items mentioned in this minute talks about subset of data migration testing being sufficient for ACT Health. It also mentions that as big as 10% of DB will be provided to Agfa for migration at one instance.

Q1. Why was this issue not identified/thought/raised earlier?

Q2. Why have we discovered this in the middle of testing after the fact that the disk was full?

It seems like the environment was not actively monitored. Are there any monitoring measures in place currently? If we are not monitoring disk space are we monitoring other issues?

Nowhere in the BRS have we mentioned that we will accept Agfa's global best practice.

Please see below:

S16	Compliance	Comply with the standards for hardware and software listed in the ACT reference manual.	
S17	Compliance	Comply with the ACT Health change management process.	
S12	Architecture	Complies with the ACT Government ICT Data Centre requirements.	

Agree that this approach of 20% of migration was not documented in the BRS as we normally consider 100% data migration in TEST as a standard. Imagine scoping of TEST environments for just 1.5% of data migration.

If this is the best practice I am really concerned.

I see the requirement in BRS mentioning Data Migration.

CC12	Installation	Data migration from the existing RIS-PACS	
		to the new RIS-PACS should be included in	l l
		the solution offered.	

Q3. Was Agfa unware of the size of the database to be migrated from existing RIS-PACS to the new RIS-PACS? I agree that there is no mention of environments in this requirement,

- Q4. Does that mean data migration happens directly in Production environment?
- Q5. Why was only production environment scoped for data migration when our environment description mentions TEST as well?

CC1	Environment	The system will operate in the environments:	•
Ē		Dev	
8		• Test	
		Pre Prod / Training; and	1
		• Prod	

This clearly explains that we test any changes before migrate to Production.

It is a standard practice if there is a data migration involved, the storage space in TEST and PROD be configured at similar capacity. In some instances we configure non-replicated storage in test for testing purposes but with matching disk capacity.

PR2	Storage	Provide enough short term storage to	Current date minus 3 years plus
		house a minimum of 3 years data.	capacity to store pre-fetched historical
			(archived) images.

Q6. How did Agfa see similar requirements for PROD env only?

Q7. Was 'testing' for data migration not scoped at all?

We are really concerned that testing of data migration was not considered.

This should have been checked as part of milestone 1 completion.

I am also concerned that there is a reference to SoW and a Pre-Prod testing approach. Currently I am not able to view the SoW but would like to read it myself. If this statement is correct, then we have agreed on a poor quality criteria.

Coming to the options proposed:

Option 1: not suitable

- a. This option proposes different approach for TEST and PROD and this is not considerable
- b. This option may delete images before completion of testing

Option 3: not suitable

- a. Testing in Pre-PROD is simply not acceptable and doesn't comply with ACT Change Management Processes
- b. We need migrated data in TEST for System and Integration (SIT) Testing and BI (reporting) testing.
- c. This will make SIT and BI testing invalid in TEST

Option 2: not suitable fully, but we can accept this approach temporally to continue with data migration cycle 3 and 4 but for cycle 5 would require more than 2TB.

- 1. This approach requires clean-up of the data for each cycle to run.
- a. Our preferred approach for this option would be to keep migrated RIS data in place with each cycle and just remove images to create space for next cycle.
- b. I believe this is not possible
- c. However, to continue with data migration testing this approach can be used. I have confirmation from the Testing Team this will not cause any issues for their testing plan
- 2. This approach will not ensure that we have sufficient RIS data for BI testing in TEST

Q8. Why we were not proposed an option to use the Production disk temporarily in the similar manner to Option 2 (Option 2 proposed porting of 1TB from a different environment)

- a. This will be our most preferred approach to resolve this issue.
- b. This will ensure sufficient temp storage for testing in TEST

R3	Storage	The storage solution is scalable and	
1		upgradeable.	

- c. This will give good approximate times for PRE-PROD data migration
- d. This approach will help us do bigger chunks of data migration as planned before.
- e. If production uses replicated storage using a small portion of the replicated storage is an advantage
- f. As we are not using the PROD environment, temporary usage of the disc adds value
- g. Q8. Is there a significant reason preventing Agfa do not want to take this approach
- h. The project team would like to discuss further at any time.

Cc: Arsavilli, Dev Leval Regards,

Dev Arsavilli | Project Manager

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

Sent: Wednesday, 14 March 2018 7:40 PM

To: Duggan, Mark (Health) < Mark.Duggan@act.gov.au > Cc: Arsavilli, Dev < Dev.Arsavilli@act.gov.au > (Act.gov.au) > (Act.g

Subject: TEST environment- Options to move forward.

Hi Mark

I have reviewed the issue, notes in email trail below, and both have gone through the relevant project and commercial documentation.

I am not able to find any reference to the requirement to provision a TEST environment suitable to specifically support the migration testing strategy and approach that is currently being undertaken by ACT Health. In addition, I am not able to locate where there may be stated *any* requirements or direction articulated to Agfa in advance so as one would reasonable expect us to assess and provision an environment that supports this particular testing approach.

In the course of my internal discussions with the AGFA teams last night and this morning, it would appear we certainly have not been previously exposed to migration testing in this context and which required us to provision an environment to meet your

particular needs. By no means is it a reflection of the testing quality and efficacy being undertaken, but it certainly would be viewed as atypical from our perspective. As such, it was never planned for or considered. Our EI TEST environment, as has articulate below, has been provisioned in line with our global best practice. Our design specifications of course are to support testing of our applications, and were never intended for supporting this type of migration testing. Although we inadvertently seemed to have gone down this path a ways with you in good faith.

So going forward, we can propose	three options	for consideration:
----------------------------------	---------------	--------------------

1. As email from 09 March, we can turn on automatic purging of the data within the TEST storage cache. I understand this may have some impact on the testing approach and can work through this with Dev and the migration teams.

2. We believe we can relatively easily assign 1TB of cache from one of the other environments temporarily. Although this will immediately allow you to progress the testing of DICOM throughput which has recently been stopped, I don't believe 2TB will be near sufficient to achieve the 20% of migrated data being sent to TEST. Essentially this too will fill up eventually.

3. ACT Health to change the testing approach to one which involves migrated data being testing in Pre-PROD. I know Dev has expressed some concerns about this approach (and we would be happy to discuss with him further what risks he sees here). I believe this was an approach that was perhaps suggested in the SoW documents in any case, but understand if that changes to approach may be valid through the course of any project.

Once you have reviewed these options, please let us know how you may wish to proceed. Of course if you need an out of session meeting to discuss, we can organise.

Kind Regards,



This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.

-----[attachment "ACT Health Project - Migrations"]

(as PDF).pdf" deleted by NAWVR/AGFA]

Heland, Rebecca (Health)

From:

Barrett, Scott (Health)

Sent:

Monday, 26 March 2018 11:01 AM

To:

(Health);

Cc:

Arsavilli, Dev

Subject:

FW: Load on PACS servers [SEC=UNCLASSIFIED]

Hi Guys,

FYI

Thanks

Scott

Scott Barrett | Manager

irect 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: Alam, Azwer (Health)

Sent: Monday, 26 March 2018 10:57 AM

To: Barrett, Scott (Health) <Scott.Barrett@act.gov.au>
Subject: Load on PACS servers [SEC=UNCLASSIFIED]

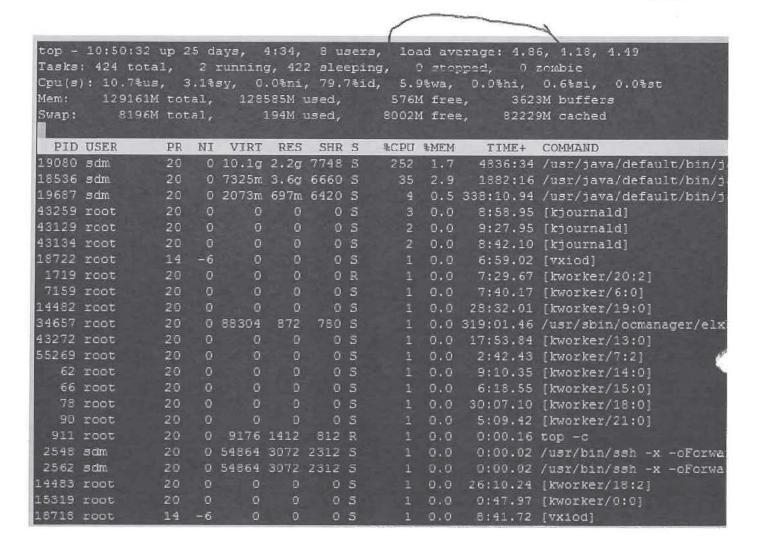
Hi Scott,

The load on PACS servers at the moment is double of that we usually see. However, servers can manage really well on this load.

Numbers beyound 6 will slow down PACS. Please note the high memory usage, but there is buffering.

in short, PACS is manageing the work load well at the moment.

Will keep an eye.



Azwer Alam | System Support Officer

Direct Phone: 02 62444932 | Direct Email: azwer.alam@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

(Health); Arsavilli, Dev;

Heland, Rebecca (Health)

From:

Sent:

Saturday, 24 March 2018 1:40 PM

To:

(Health); Crossley, Nick;

Griffiths, Jessica (Health);

Cc:

Subject:

Attachments:

ACT Health Project - Migration Meeting 22/03/2018

ACT Health Project - Migration M (as PDF).pdf

Kind Regards,

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

Agfa HealthCare Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com

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

Heland, Rebecca (Health)

From:

Saturday, 24 March 2018 1:39 PM

Sent:

To:

(Health); Crossley, Nick; (Health); Arsavilli, Dev;

Griffiths, Jessica (Health);

Cc:

Subject:

ACT Health Project - Migration Meeting 08/03/2018

Attachments:

ACT Health Project - Migration M (as PDF).pdf; DM Schedule Draft 1.xlsx; Testing

approach V1.docx

Kind Regards,

Ш +61 3 9756 4308 | F +61 2 9647 2742 | M

Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

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

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

Heland, Rebecca (He	alth)
---------------------	-------

From: Sent:

Friday, 23 March 2018 8:12 PM

To:

Triday, 25 March

Cc:

Arsavilli, Dev; Griffiths, Jessica (Health);

(Health);

(Health);

Crossley, Nick;

Subject:

[AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi All,

The DICOM extracts have now been imported and validated.

The DICOM migration is scheduled to start at the schedule mentioned below on Monday 10:00 (your local time).

Kind Regards,

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: //NAWVR/AGFA
To: AXKQB/AGFA@AGFA
Co: AXKQB/AGFA@AGFA

Co. "Arsavilli Dev" < Dev Arsavilli@act.gov.au>@AGFASMTP "Griffiths .lessica (Health)" < lessica.Griffiths@act.gov.au

"Crossley, Nick" <Nick.Crossley@act.gov.au>

L

Date: 23/03/2018 09:52

Subject: Re: [AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi

Thanks for confirming just now the HL7 migration was successful.

Please schedule the DICOM migration to commence Monday 10:00 (our time) according to the following criteria...

- The peak and off-peak times remain the same as for the previous cycles,
- Threads to run during the peak hours 5
- Threads to run during the off-peak hours 10

*Peak hours - 5:00 am to 10:00pm Off peak hours - 10:00pm to 5:00am

We will monitor the initial DICOM performance with the PACS Admin team Monday to ensure no impact to the Siemens production system.

Kind Regards,



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

Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

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

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

From: AXKQB/AGFA
To: NAWVR/AGFA@AGFA

Cc: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>@AGFASMTP, "Griffiths, Jessica (Health)" <Jessica.Griffiths@act.gov.au>,

Date: 22/03/2018 21:19

Subject: [AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi All,

I can confirm that the HL7 migration of the 'Cycle 3' test extracts has now been completed towards EI. For the DICOM part of the migration, I'll wait for a signal that the validation was completed.

Performance is better then before, we are now using a multi threaded approach in a new version of the migration tools (2 services per Core Server). If the production EI has multiple CS servers, the performance should still be better then what is mentioned below.

- ORM => +/- 350ms per message
- ORU => +/- 250ms per message

Kind Regards,



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: NAWVR/AGFA

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

Cc: "Griffiths, Jessica (Health)" <Jessica.Griffiths@act.gov.au>, "

Date: 21/03/2018 19:52

Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi Dev,

Just confirming, has reassigned the available cache from "Test" to "Dev" and turned on the purging.

On this afternoon's migration call we can confirm the time and date for the 3rd test migration. As per the next test migration will have

- · The peak and off-peak times remain the same as for the previous cycles,
- Threads to run during the peak hours 5
- Threads to run during the off-peak hours 10

*Peak hours - 5:00 am to 10:00pm Off peak hours - 10:00pm to 5:00am

Kind Regards,



To: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>@AGFASMTP
Cc: AMPCY/AGFA@AGFA, agafa.onmicrosoft.com" < agafa.onmicrosoft.com>, agafa.onmicrosoft.com>,

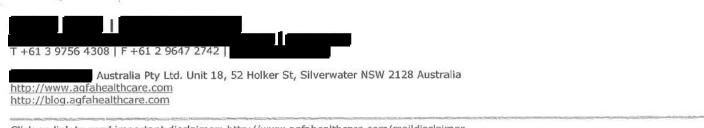
Hi Dev,

Thanks for the confirmation.

I tried to find out overnight the details of the algorithm used. From the feedback so far it appears to be based on a FIFO but this is an algorithm designed for the incoming cache cleanup so a number of factors are used.

btw - I checked with and he has confirmed the testing team have completed their testing on the first 2 cycles.

find Regards,



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

From: "Arsavilli, Dev" <Dev.Arsavilli@act.gov.au>
To: NAWVR/AGFA@AGFA
Cc: AMPCY/AGFA@AGFA, "Ample of the second agfa.onmicrosoft.com" < Ample of the second agfa.onmicrosoft.com" < Ample of the second agfa.onmicrosoft.com, agfa.onmicrosoft.com

This looks to me like a bit of option 1 and option 2. I would like to understand the criteria behind auto purge. 1. Is it first in first out?
If migrated RIS data can remain we would prefer this bridged approach.
Please proceed with the configuration of extra disk to TEST from the unused env.
Kind Regards,
Dev
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: [mailto] Sent: Monday, 19 March 2018 5:19 PM To: Arsavilli, Dev <dev.arsavilli@act.gov.au> Cc: again agfa.onmicrosoft.com; Agfa.onmicrosoft.com; Agfa.onmicrosoft.com; Agfa.onmicrosof</dev.arsavilli@act.gov.au>
Hi Dev,
Just to confirm our discussion just now.
You are OK for Agfa to proceed now with Option 2 as Follows.
a) Agfa will reassign 1TB of Cache from "Test" (not currently in use) to the "Dev" environment. (Now designated as the TEST environment).
b) Agfa will configure the auto purging of images from Dev cache only. The RIS Data will remain.
I will try to find our if any particular rules can be applied and if the purging can be scheduled.
Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: "Arsavilli, Dev" < Dev.Arsavilli@act.gov.au> To: agfa.onmicrosoft.com Cc: NAWVR/AGFA@AGFA, AMPCY/AGFA@AGFA, AMPCY/AGFA, AMPCY/AGF



Thank you for taking time to review this issue and responding in detail.

My summary:

It is a very simple and general expectation of ACT Health that we have a TEST environment that is fit for purpose. Here we have a TEST environment that is not fit for testing within the scope.

I do not agree with the reasoning that this approach was not made clear:

I have reviewed this with the Project Team and asked them to look in to all initial discussions.

From the available minutes etc, this testing approach was being discussed in September/October 2017.

Agfa team were part of these discussions.

Please see attached; one of the items mentioned in this minute talks about subset of data migration testing being sufficient for ACT Health. It also mentions that as big as 10% of DB will be provided to Agfa for migration at one instance.

Q1. Why was this issue not identified/thought/raised earlier?

Q2. Why have we discovered this in the middle of testing after the fact that the disk was full?

It seems like the environment was not actively monitored. Are there any monitoring measures in place currently? If we are not monitoring disk space are we monitoring other issues?

Nowhere in the BRS have we mentioned that we will accept Agfa's global best practice.

Please see below:

S16	Compliance	Comply with the standards for hardware and software listed in the ACT reference manual.	200
S17	Compliance	Comply with the ACT Health change management process.	
S12	Architecture	Complies with the ACT Government ICT Data Centre requirements.	

Agree that this approach of 20% of migration was not documented in the BRS as we normally consider 100% data migration in TEST as a standard. Imagine scoping of TEST environments for just 1.5% of data migration.

If this is the best practice I am really concerned.

I see the requirement in BRS mentioning Data Migration.

CC12	Installation	Data migration from the existing RIS-PACS	
1		to the new RIS-PACS should be included in	
		the solution offered.	

Q3. Was Agfa unware of the size of the database to be migrated from existing RIS-PACS to the new RIS-PACS? I agree that there is no mention of environments in this requirement,

Q4. Does that mean data migration happens directly in Production environment?

Q5. Why was only production environment scoped for data migration when our environment description mentions TEST as well?

CC1	Environment	The system will operate in the environments:	•
		• Dev	1
		• Test	
		Pre Prod / Training; and	
		• Prod	

This clearly explains that we test any changes before migrate to Production.

It is a standard practice if there is a data migration involved, the storage space in TEST and PROD be configured at similar capacity. In some instances we configure non-replicated storage in test for testing purposes but with matching disk capacity.

PR2	Storage	Provide enough short term storage to house a minimum of 3 years data.	Current date minus 3 years plus capacity to store pre-fetched historical
		7,200	(archived) images.

Q6. How did Agfa see similar requirements for PROD env only?

Q7. Was 'testing' for data migration not scoped at all?

We are really concerned that testing of data migration was not considered.

This should have been checked as part of milestone 1 completion.

I am also concerned that there is a reference to SoW and a Pre-Prod testing approach. Currently I am not able to view the SoW but would like to read it myself. If this statement is correct, then we have agreed on a poor quality criteria.

Coming to the options proposed:

Option 1: not suitable

- a. This option proposes different approach for TEST and PROD and this is not considerable
- b. This option may delete images before completion of testing

Option 3: not suitable

- a. Testing in Pre-PROD is simply not acceptable and doesn't comply with ACT Change Management Processes
- b. We need migrated data in TEST for System and Integration (SIT) Testing and BI (reporting) testing.
- c. This will make SIT and BI testing invalid in TEST

Option 2: not suitable fully, but we can accept this approach temporally to continue with data migration cycle 3 and 4 but for cycle 5 would require more than 2TB.

- 1. This approach requires clean-up of the data for each cycle to run.
- a. Our preferred approach for this option would be to keep migrated RIS data in place with each cycle and just remove images to create space for next cycle.
- b. I believe this is not possible
- c. However, to continue with data migration testing this approach can be used. I have confirmation from the Testing Team this will not cause any issues for their testing plan
- 2. This approach will not ensure that we have sufficient RIS data for BI testing in TEST

Q8. Why we were not proposed an option to use the Production disk temporarily in the similar manner to Option 2 (Option 2 proposed porting of 1TB from a different environment)

- a. This will be our most preferred approach to resolve this issue.
- b. This will ensure sufficient temp storage for testing in TEST

PR3	Storage	The storage solution is scalable and	
	The state of the s	upgradeable.	

- c. This will give good approximate times for PRE-PROD data migration
- d. This approach will help us do bigger chunks of data migration as planned before.
- e. If production uses replicated storage using a small portion of the replicated storage is an advantage
- f. As we are not using the PROD environment, temporary usage of the disc adds value
- g. Q8. Is there a significant reason preventing Agfa do not want to take this approach
- h. The project team would like to discuss further at any time.

Kind	Regard	S,

Dev

Dev Arsavilli | Project Manager

Phone: 02 6174 8729 Mobile Email: <u>Dev.Arsavilli@act.gov.au</u> 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: [mailto] Sent: Wednesday, 14 March 2018 7:40 PM To: Duggan, Mark (Health) < Mark. Duggan@act.gov.au > Cc: Arsavilli, Dev < Dev. Arsavilli@act.gov.au >;
Hi Mark
I have reviewed the issue, notes in email trail below, and both documentation.
I am not able to find any reference to the requirement to provision a TEST environment suitable to specifically support the migration testing strategy and approach that is currently being undertaken by ACT Health. In addition, I am not able to locate where there may be stated <i>any</i> requirements or direction articulated to Agfa in advance so as one would reasonable expect us to assess and provision an environment that supports this particular testing approach.
In the course of my internal discussions with the AGFA teams last night and this morning, it would appear we certainly have not een previously exposed to migration testing in this context and which required us to provision an environment to meet your particular needs. By no means is it a reflection of the testing quality and efficacy being undertaken, but it certainly would be viewed as atypical from our perspective. As such, it was never planned for or considered. Our EI TEST environment, as has articulate below, has been provisioned in line with our global best practice. Our design specifications of course are to support testing of our applications, and were never intended for supporting this type of migration testing. Although we inadvertently seemed to have gone down this path a ways with you in good faith.
So going forward, we can propose three options for consideration:
1. As email from 09 March, we can turn on automatic purging of the data within the TEST storage cache. I understand this may have some impact on the testing approach and can work through this with Dev and the migration teams. 2. We believe we can relatively easily assign 1TB of cache from one of the other environments temporarily. Although this will immediately allow you to progress the testing of DICOM throughput which has recently been stopped, I don't believe 2TB will be near sufficient to achieve the 20% of migrated data being sent to TEST. Essentially this too will fill up eventually. 3. ACT Health to change the testing approach to one which involves migrated data being testing in Pre-PROD. I know Dev has expressed some concerns about this approach (and we would be happy to discuss with him further what risks he sees here). I believe this was an approach that was perhaps suggested in the SoW documents in any case, but understand if that changes to approach may be valid through the course of any project.
nce you have reviewed these options, please let us know how you may wish to proceed. Of course if you need an out of session meeting to discuss, we can organise.
Kind Regards,
T +61 3 9756 4624 F +61 2 9647 2742 M
Australia Pty Ltd. 20 Shand Street Stafford QLD 4053 http://www.agfahealthcare.com http://blog.agfahealthcare.com
This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.
(as PDF).pdf' deleted by NAWVR/AGFA]

Heland, Rebecca (Health)

From: Sent: Thursday, 22 March 2018 10:16 PM

To:

Cc:

Arsavilli, Dev; Griffiths, Jessica (Health);

ca (Health); (Health);

Re: [AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi

Subject:

There are 3 x CS Servers in production.

Kind Regards,

+61 3 9756 4308 | F +61 2 9647 2742 | M

Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

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

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

From: AXKQB/AGFA
To: NAWVR/AGFA@AGFA

Cc: "Arsavilli, Dev" < Dev. Arsavilli@act.gov.au > @AGFASMTP, "Griffiths, Jessica (Health)" < Jessica. Griffiths@act.gov.au >,

L

Date: 22/03/2018 21:19

Subject: [AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi All,

I can confirm that the HL7 migration of the 'Cycle 3' test extracts has now been completed towards El. For the DICOM part of the migration, I'll wait for a signal that the validation was completed.

Performance is better then before, we are now using a multi threaded approach in a new version of the migration tools (2 services per Core Server). If the production EI has multiple CS servers, the performance should still be better then what is mentioned below.

- ORM => +/- 350ms per message
- ORU => +/- 250ms per message

Kind Regards,



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

From: NAWVR/AGFA To: "Arsavilli, Dev" <dev.arsavilli@act.gov.au>@AGFASMTP Cc: "Griffiths, Jessica (Health)" <jessica.griffiths@act.gov.au>, 1 Date: 21/03/2018 19:52</jessica.griffiths@act.gov.au></dev.arsavilli@act.gov.au>
Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]
Hi Dev,
Just confirming, has reassigned the available cache from "Test" to "Dev" and turned on the purging.
On this afternoon's migration call we can confirm the time and date for the 3rd test migration. As per the next test migration will have
 The peak and off-peak times remain the same as for the previous cycles, Threads to run during the peak hours – 5 Threads to run during the off-peak hours – 10
*Peak hours - 5:00 am to 10:00pm Off peak hours - 10:00pm to 5:00am
Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: NAWVR/AGFA To: "Arsavilli, Dev" <dev.arsavilli@act.gov.au>@AGFASMTP Cc: AMPCY/AGFA@AGFA,</dev.arsavilli@act.gov.au>
Hì Dev,
Thanks for the confirmation.
I tried to find out overnight the details of the algorithm used. From the feedback so far it appears to be based on a FIFO but this is an algorithm designed for the incoming cache cleanup so a number of factors are used.

btw - I checked with and he has confirmed the testing team have completed their testing on the first 2 cycles.

T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: "Arsavilli, Dev" <dev.arsavilli@act.gov.au> To:</dev.arsavilli@act.gov.au>
Hi and the state of the state
This looks to me like a bit of option 1 and option 2. I would like to understand the criteria behind auto purge.
1. Is it first in first out?
If migrated RIS data can remain we would prefer this bridged approach.
Please proceed with the configuration of extra disk to TEST from the unused env.
Kind Regards,
Dev
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: [mailto]
Sent: Monday, 19 March 2018 5:19 PM
To: Arsavilli, Dev <dev.arsavilli@act.gov.au> Cc: </dev.arsavilli@act.gov.au>
Cc:
<pre><mark.duggan@act.gov.au>; Barrett, Scott (Health) <scott.barrett@act.gov.au></scott.barrett@act.gov.au></mark.duggan@act.gov.au></pre>
Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi Dev,

Just to confirm our discussion just now.

You are OK for Agfa to proceed now with Option 2 as Follows.

- a) Agfa will reassign 1TB of Cache from "Test" (not currently in use) to the "Dev" environment. (Now designated as the TEST environment).
- b) Agfa will configure the auto purging of images from Dev cache only. The RIS Data will remain.

I will try to find our if any particular rules can be applied and if the purging can be scheduled.

	1		
T +61 3 9756 4	308 F +61 2 9647	2742 M	
OC BOAT BOTH OFFICERS	Australia Pty Ltd. U	Jnit 18, 52 Holker St,	, Silverwater NSW 2128 Australia
http://www.agf	ahealthcare.com		
http://blog.	com		
http://www.agf	Australia Pty Ltd. U ahealthcare.com		, Silverwater NSW 2128 Australia

Click on link to read important disclaimer: http://www.aqfahealthcare.com/maildisclaimer

From: "Arsavilli, Dev" < Dev. Arsavilli@ac	ct.gov.au>	
To: agfa.onmicrosoft.co	om	
Cc: NAWVR/AGFA@AGFA	A, AMPCY/AGFA@AGFA,	AWWQG/AGFA@AGFA, "Griffiths, Jessica (Health)
< <u>Jessica.Griffiths@act.gov.au</u> >, "Barret	t, Scott (Health)" <scott.barrett@act.gov.au>,</scott.barrett@act.gov.au>	"Duggan, Mark (Health)" < Mark.Duggan@act.gov.au>
Date: 16/03/2018 01:25		
Subject: RE: TEST environment- Option	s to move forward. [SEC=UNCLASSIFIED]	
65%		

Hi

Thank you for taking time to review this issue and responding in detail.

My summary:

It is a very simple and general expectation of ACT Health that we have a TEST environment that is fit for purpose. Here we have a TEST environment that is not fit for testing within the scope.

I do not agree with the reasoning that this approach was not made clear:

I have reviewed this with the Project Team and asked them to look in to all initial discussions.

From the available minutes etc, this testing approach was being discussed in September/October 2017.

Agfa team were part of these discussions.

Please see attached; one of the items mentioned in this minute talks about subset of data migration testing being sufficient for ACT Health. It also mentions that as big as 10% of DB will be provided to Agfa for migration at one instance.

Q1. Why was this issue not identified/thought/raised earlier?

Q2. Why have we discovered this in the middle of testing after the fact that the disk was full?

It seems like the environment was not actively monitored. Are there any monitoring measures in place currently? If we are not monitoring disk space are we monitoring other issues?

Nowhere in the BRS have we mentioned that we will accept Agfa's global best practice.

Please see below:

S16	Compliance	Comply with the standards for hardware and software listed in the ACT reference manual.	
S17	Compliance	Comply with the ACT Health change management process.	
S12	Architecture	Complies with the ACT Government ICT Data Centre requirements.	11×11×11×11×11×11×11×11×11×11×11×11×11×

Agree that this approach of 20% of migration was not documented in the BRS as we normally consider 100% data migration in TEST as a standard. Imagine scoping of TEST environments for just 1.5% of data migration. If this is the best practice I am really concerned.

I see the requirement in BRS mentioning Data Migration.

CC12	Installation	Data migration from the existing RIS-PACS	
		to the new RIS-PACS should be included in	
		the solution offered.	

Q3. Was Agfa unware of the size of the database to be migrated from existing RIS-PACS to the new RIS-PACS?

I agree that there is no mention of environments in this requirement,

- Q4. Does that mean data migration happens directly in Production environment?
- Q5. Why was only production environment scoped for data migration when our environment description mentions TEST as well?

CC1	Environment	The system will operate in the environments:	•	
		Dev		
		• Test	p.	
		Pre Prod / Training; and		
		Prod		

This clearly explains that we test any changes before migrate to Production.

t is a standard practice if there is a data migration involved, the storage space in TEST and PROD be configured at similar capacity. In some instances we configure non-replicated storage in test for testing purposes but with matching disk capacity.

PR2	Storage	Provide enough short term storage to house a minimum of 3 years data.	Current date minus 3 years plus capacity to store pre-fetched historical
		nouse a minimum of 5 years data.	(archived) images.

Q6. How did Agfa see similar requirements for PROD env only?

Q7. Was 'testing' for data migration not scoped at all?

We are really concerned that testing of data migration was not considered.

This should have been checked as part of milestone 1 completion.

I am also concerned that there is a reference to SoW and a Pre-Prod testing approach. Currently I am not able to view the SoW but would like to read it myself. If this statement is correct, then we have agreed on a poor quality criteria.

Coming to the options proposed:

Option 1: not suitable

- ... This option proposes different approach for TEST and PROD and this is not considerable
- b. This option may delete images before completion of testing

Option 3: not suitable

- a. Testing in Pre-PROD is simply not acceptable and doesn't comply with ACT Change Management Processes
- b. We need migrated data in TEST for System and Integration (SIT) Testing and BI (reporting) testing.
- c. This will make SIT and BI testing invalid in TEST

Option 2: not suitable fully, but we can accept this approach temporally to continue with data migration cycle 3 and 4 but for cycle 5 would require more than 2TB.

- 1. This approach requires clean-up of the data for each cycle to run.
- a. Our preferred approach for this option would be to keep migrated RIS data in place with each cycle and just remove images to create space for next cycle.
- b. I believe this is not possible
- c. However, to continue with data migration testing this approach can be used. I have confirmation from the Testing Team this will not cause any issues for their testing plan
- 2. This approach will not ensure that we have sufficient RIS data for BI testing in TEST
- Q8. Why we were not proposed an option to use the Production disk temporarily in the similar manner to Option 2 (Option 2 proposed porting of 1TB from a different environment)

- a. This will be our most preferred approach to resolve this issue.
- b. This will ensure sufficient temp storage for testing in TEST

PR3	Storage	The storage solution is scalable and	
		upgradeable.	

- c. This will give good approximate times for PRE-PROD data migration
- d. This approach will help us do bigger chunks of data migration as planned before.
- e. If production uses replicated storage using a small portion of the replicated storage is an advantage
- f. As we are not using the PROD environment, temporary usage of the disc adds value
- g. Q8. Is there a significant reason preventing Agfa do not want to take this approach
- h. The project team would like to discuss further at any time.

Kind Regards,

Dev

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: [mailto

Sent: Wednesday, 14 March 2018 7:40 PM

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

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

Subject: TEST environment- Options to move forward.

Hi Mark

I have reviewed the issue, notes in email trail below, and both have gone through the relevant project and commercial documentation.

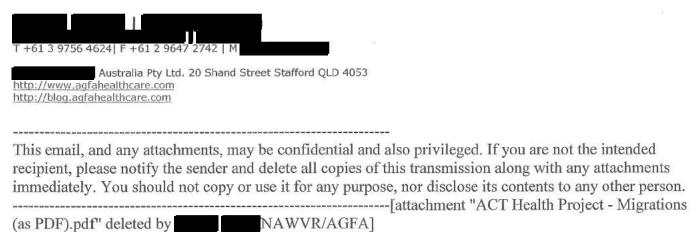
I am not able to find any reference to the requirement to provision a TEST environment suitable to specifically support the migration testing strategy and approach that is currently being undertaken by ACT Health. In addition, I am not able to locate where there may be stated *any* requirements or direction articulated to Agfa in advance so as one would reasonable expect us to assess and provision an environment that supports this particular testing approach.

In the course of my internal discussions with the AGFA teams last night and this morning, it would appear we certainly have not been previously exposed to migration testing in this context and which required us to provision an environment to meet your particular needs. By no means is it a reflection of the testing quality and efficacy being undertaken, but it certainly would be viewed as atypical from our perspective. As such, it was never planned for or considered. Our EI TEST environment, as has articulate below, has been provisioned in line with our global best practice. Our design specifications of course are to support testing of our applications, and were never intended for supporting this type of migration testing. Although we inadvertently seemed to have gone down this path a ways with you in good faith.

So going forward, we can propose three options for consideration:

- 1. As email from 09 March, we can turn on automatic purging of the data within the TEST storage cache. I understand this may have some impact on the testing approach and the more can work through this with Dev and the migration teams.
- 2. We believe we can relatively easily assign 1TB of cache from one of the other environments temporarily. Although this will immediately allow you to progress the testing of DICOM throughput which has recently been stopped, I don't believe 2TB will be near sufficient to achieve the 20% of migrated data being sent to TEST. Essentially this too will fill up eventually.
- 3. ACT Health to change the testing approach to one which involves migrated data being testing in Pre-PROD. I know Dev has expressed some concerns about this approach (and we would be happy to discuss with him further what risks he sees here). I believe this was an approach that was perhaps suggested in the SoW documents in any case, but understand if that changes to approach may be valid through the course of any project.

Once you have reviewed these options, please let us know how you may wish to proceed. Of course if you need an out of session meeting to discuss, we can organise.



Heland, Rebecca (Health)

From:

Sent: Thursday, 22 March 2018 9:19 PM

To:
Cc: Arsavilli, Dev; Griffiths, Jessica (Health); (Health); (Health); (Health); (Health); (Health); (Subject: [AUS - ACT] TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi All,

I can confirm that the HL7 migration of the 'Cycle 3' test extracts has now been completed towards El. For the DICOM part of the migration, I'll wait for a signal that the validation was completed.

Performance is better then before, we are now using a multi threaded approach in a new version of the migration tools (2 services per Core Server). If the production EI has multiple CS servers, the performance should still be better then what is mentioned below.

- ORM => +/- 350ms per message
- ORU => +/- 250ms per message

Kind Regards,



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



Hi Dev,

Just confirming, has reassigned the available cache from "Test" to "Dev" and turned on the purging.

On this afternoon's migration call we can confirm the time and date for the 3rd test migration. As per advice the next test migration will have

- . The peak and off-peak times remain the same as for the previous cycles,
- Threads to run during the peak hours 5
- Threads to run during the off-peak hours 10

^{*}Peak hours - 5:00 am to 10:00pm

Off peak hours - 10:00pm to 5:00am

Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: NAWVR/AGFA To: "Arsavilli, Dev" <dev.arsavilli@act.gov.au>@AGFASMTP Cc: AMPCY/AGFA@AGFA, "agfa.onmicrosoft.com" < agfa.onmicrosoft.com", AWWQG/AGFA@AGFA, "Griffiths, Jessica (Health)" <jessica.griffiths@act.gov.au>, "Duggan, Mark (Health)" <mark.duggan@act.gov.au>, "Barrett, Scott (Health)" <scott.barrett@act.gov.au>, "Duggan, Mark (Health)" <mark.duggan@act.gov.au>, "Date: 20/03/2018 13:08 Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]</mark.duggan@act.gov.au></scott.barrett@act.gov.au></mark.duggan@act.gov.au></jessica.griffiths@act.gov.au></dev.arsavilli@act.gov.au>
Hi Dev,
Thanks for the confirmation.
I tried to find out overnight the details of the algorithm used. From the feedback so far it appears to be based on a FIFO but this is an algorithm designed for the incoming cache cleanup so a number of factors are used.
btw - I checked with and he has confirmed the testing team have completed their testing on the first 2 cycles.
Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: "Arsavilli, Dev" <dev.arsavilli@act.gov.au> To:</dev.arsavilli@act.gov.au>

This looks to me like a bit of option 1 and option 2.

I would like to understand the criteria behind auto purge.

Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

1. Is it first in first out?

If migrated RIS data can remain we would prefer this bridged approach.
Please proceed with the configuration of extra disk to TEST from the unused env.
Kind Regards,
Dev
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
Sent: Monday, 19 March 2018 5:19 PM To: Arsavilli, Dev <dev.arsavilli@act.gov.au> Cc:</dev.arsavilli@act.gov.au>
. di Dev,
Just to confirm our discussion just now.
You are OK for Agfa to proceed now with Option 2 as Follows.
a) Agfa will reassign 1TB of Cache from "Test" (not currently in use) to the "Dev" environment. (Now designated as the TEST environment).
b) Agfa will configure the auto purging of images from Dev cache only. The RIS Data will remain.
I will try to find our if any particular rules can be applied and if the purging can be scheduled.
Kind Regards,
T +61 3 9756 4308 F +61 2 9647 2742 M
^gfa HealthCare Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia tp://www.agfahealthcare.com nttp://bloq.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: "Arsavilli, Dev" < Dev.Arsavilli@act.gov.au > To: agfa.onmicrosoft.com Cc: //NAWVR/AGFA@AGFA, AMPCY/AGFA@AGFA, Sessica.Griffiths@act.gov.au >, "Barrett, Scott (Health)" < Scott.Barrett@act.gov.au >, "Duggan, Mark (Health)" < Mark.Duggan@act.gov.au > Date: 16/03/2018 01:25 Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Hi

Thank you for taking time to review this issue and responding in detail.

My summary:

It is a very simple and general expectation of ACT Health that we have a TEST environment that is fit for purpose. Here we have a TEST environment that is not fit for testing within the scope.

I do not agree with the reasoning that this approach was not made clear:

I have reviewed this with the Project Team and asked them to look in to all initial discussions.

From the available minutes etc, this testing approach was being discussed in September/October 2017.

Agfa team were part of these discussions.

Please see attached; one of the items mentioned in this minute talks about subset of data migration testing being sufficient for ACT Health. It also mentions that as big as 10% of DB will be provided to Agfa for migration at one instance.

Q1. Why was this issue not identified/thought/raised earlier?

Q2. Why have we discovered this in the middle of testing after the fact that the disk was full?

It seems like the environment was not actively monitored. Are there any monitoring measures in place currently? If we are not monitoring disk space are we monitoring other issues?

Nowhere in the BRS have we mentioned that we will accept Agfa's global best practice.

Please see below:

S16	Compliance	Comply with the standards for hardware and software listed in the ACT reference manual.	1000
S17	Compliance	Comply with the ACT Health change management process.	
S12	Architecture	Complies with the ACT Government ICT Data Centre requirements.	

Agree that this approach of 20% of migration was not documented in the BRS as we normally consider 100% data migration in TEST as a standard. Imagine scoping of TEST environments for just 1.5% of data migration.

If this is the best practice I am really concerned.

I see the requirement in BRS mentioning Data Migration.

CC12	Installation	Data migration from the existing RIS-PACS	
	1	to the new RIS-PACS should be included in	
		the solution offered.	

Q3. Was Agfa unware of the size of the database to be migrated from existing RIS-PACS to the new RIS-PACS?

I agree that there is no mention of environments in this requirement,

- Q4. Does that mean data migration happens directly in Production environment?
- Q5. Why was only production environment scoped for data migration when our environment description mentions TEST as well?

CC1	Environment	The system will operate in the	•	
		environments:		
1		• Dev		
l.		• Test		
		Pre Prod / Training; and		
		Prod		

This clearly explains that we test any changes before migrate to Production.

It is a standard practice if there is a data migration involved, the storage space in TEST and PROD be configured at similar capacity. In some instances we configure non-replicated storage in test for testing purposes but with matching disk capacity.

PR2	Storage	Provide enough short term storage to house a minimum of 3 years data.	Current date minus 3 years plus capacity to store pre-fetched historical
			(archived) images.

Q6. How did Agfa see similar requirements for PROD env only?

Q7. Was 'testing' for data migration not scoped at all?

We are really concerned that testing of data migration was not considered.

This should have been checked as part of milestone 1 completion.

I am also concerned that there is a reference to SoW and a Pre-Prod testing approach. Currently I am not able to view the SoW but would like to read it myself. If this statement is correct, then we have agreed on a poor quality criteria.

Coming to the options proposed:

Option 1: not suitable

- a. This option proposes different approach for TEST and PROD and this is not considerable
- b. This option may delete images before completion of testing

Option 3: not suitable

- a. Testing in Pre-PROD is simply not acceptable and doesn't comply with ACT Change Management Processes
- b. We need migrated data in TEST for System and Integration (SIT) Testing and BI (reporting) testing.
- c. This will make SIT and BI testing invalid in TEST

Option 2: not suitable fully, but we can accept this approach temporally to continue with data migration cycle 3 and 4 but for cle 5 would require more than 2TB.

- 1. This approach requires clean-up of the data for each cycle to run.
- a. Our preferred approach for this option would be to keep migrated RIS data in place with each cycle and just remove images to create space for next cycle.
- b. I believe this is not possible
- c. However, to continue with data migration testing this approach can be used. I have confirmation from the Testing Team this will not cause any issues for their testing plan
- 2. This approach will not ensure that we have sufficient RIS data for BI testing in TEST

Q8. Why we were not proposed an option to use the Production disk temporarily in the similar manner to Option 2 (Option 2 proposed porting of 1TB from a different environment)

- a. This will be our most preferred approach to resolve this issue.
- b. This will ensure sufficient temp storage for testing in TEST

PR3	Storage	The storage solution is scalable and	
		upgradeable.	

This will give good approximate times for PRE-PROD data migration

- d. This approach will help us do bigger chunks of data migration as planned before.
- e. If production uses replicated storage using a small portion of the replicated storage is an advantage
- f. As we are not using the PROD environment, temporary usage of the disc adds value
- g. Q8. Is there a significant reason preventing Agfa do not want to take this approach
- h. The project team would like to discuss further at any time.

Kind Regards,

Dev

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: [mailto:

Sent: Wednesday, 14 March 2018 7:40 PM

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

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

Subject: TEST environment- Options to move forward.

Hi Mark

I have reviewed the issue, notes in email trail below, and both have gone through the relevant project and commercial documentation.

I am not able to find any reference to the requirement to provision a TEST environment suitable to specifically support the migration testing strategy and approach that is currently being undertaken by ACT Health. In addition, I am not able to locate where there may be stated *any* requirements or direction articulated to Agfa in advance so as one would reasonable expect us to assess and provision an environment that supports this particular testing approach.

In the course of my internal discussions with the AGFA teams last night and this morning, it would appear we certainly have not been previously exposed to migration testing in this context and which required us to provision an environment to meet your particular needs. By no means is it a reflection of the testing quality and efficacy being undertaken, but it certainly would be viewed as atypical from our perspective. As such, it was never planned for or considered. Our EI TEST environment, as has articulate below, has been provisioned in line with our global best practice. Our design specifications of course are to support testing of our applications, and were never intended for supporting this type of migration testing. Although we inadvertently seemed to have gone down this path a ways with you in good faith.

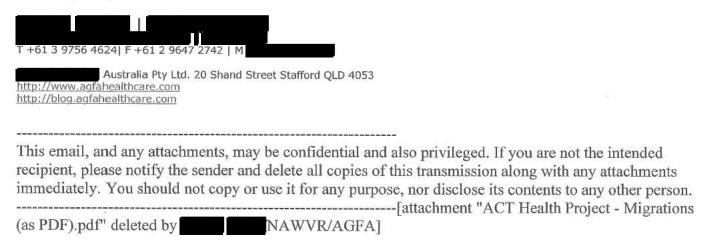
So going forward, we can propose three options for consideration:

1. As email from 09 March, we can turn on automatic purging of the data within the TEST storage cache. I understand this may have some impact on the testing approach and can work through this with Dev and the migration teams.

2. We believe we can relatively easily assign 1TB of cache from one of the other environments temporarily. Although this will immediately allow you to progress the testing of DICOM throughput which has recently been stopped, I don't believe 2TB will be near sufficient to achieve the 20% of migrated data being sent to TEST. Essentially this too will fill up eventually.

3. ACT Health to change the testing approach to one which involves migrated data being testing in Pre-PROD. I know Dev has expressed some concerns about this approach (and we would be happy to discuss with him further what risks he sees here). I believe this was an approach that was perhaps suggested in the SoW documents in any case, but understand if that changes to approach may be valid through the course of any project.

Once you have reviewed these options, please let us know how you may wish to proceed. Of course if you need an out of session meeting to discuss, we can organise.



Heland, Rebecca (Health)
From: Sent: To:	Thursday, 22 March 2018 6:05 AM Arsavilli, Dev
Cc:	Griffiths, Jessica (Health); (Health); (Health);
Subject:	RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]
Hi Dev,	
Just confirming, Lou has reassign	gned the available cache from "Test" to "Dev" and turned on the purging.
On this afternoon's migration ca the next test migration will have	Il we can confirm the time and date for the 3rd test migration. As per advice advice
 The peak and off-peak Threads to run during the Threads to run during the 	
*Peak hours - 5:00 am to 10:00p Off peak hours - 10:00pm to 5:0	
Kind Regards,	
T +61 3 9756 4308 F +61 2 9647 2	2742 M
Australia Pty Ltd. Ur http://www.agfahealthcare.com http://blog.agfahealthcare.com	nit 18, 52 Holker St, Silverwater NSW 2128 Australia
Click on link to read important disclai	mer: http://www.agfahealthcare.com/maildisclaimer
L.	
From: NAWVR/AGFA To: "Arsavilli, Dev" <dev.arsavilli@act.gov "barrett,="" "griffith="" (health)"="" <scott.barrett@act="" act.gov.au="" agfa@agfa,="" ampcy="" awwqg="" cc:="" scott="">@AGFAS Date: 20/03/2018 13:08 Subject: RE: TEST environment- Options to</dev.arsavilli@act.gov>	agfa.onmicrosoft.com" <agfa.onmicrosoft.com>,</agfa.onmicrosoft.com>
Hi Dev,	
Thanks for the confirmation.	
	etails of the algorithm used. From the feedback so far it appears to be based on a signed for the incoming cache cleanup so a number of factors are used.
btw - I checked with	e has confirmed the testing team have completed their testing on the first 2 cycles.
Kind Regards,	

T +61 3 9756 4308 F +61 2 9647 2742 M
Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia http://www.agfahealthcare.com http://blog.agfahealthcare.com
Click on link to read important disclaimer: http://www.agfahealthcare.com/maildisclaimer
From: "Arsavilli, Dev" <dev.arsavilli@act.gov.au> To: NAWVR/AGFA@AGFA Cc: AMPCY/AGFA@AGFA, Magfa.onmicrosoft.com" <</dev.arsavilli@act.gov.au>
This looks to me like a bit of option 1 and option 2. I would like to understand the criteria behind auto purge. 1. Is it first in first out?
If migrated RIS data can remain we would prefer this bridged approach.
Please proceed with the configuration of extra disk to TEST from the unused env.
Kind Regards,
Dev
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
Sent: Monday, 19 March 2018 5:19 PM To: Arsavilli, Dev <dev.arsavilli@act.gov.au> Cc: </dev.arsavilli@act.gov.au>
Hi Dev,
Just to confirm our discussion just now.
You are OK for Agfa to proceed now with Option 2 as Follows.
a) Agfa will reassign 1TB of Cache from "Test" (not currently in use) to the "Dev" environment. (Now designated as the TEST environment).
b) Agfa will configure the auto purging of images from Dev cache only. The RIS Data will remain.
I will try to find our if any particular rules can be applied and if the purging can be scheduled.
Kind Regards,

T	+61	7	9756	4308	l F	+61	2	9647	2742	T	M

Aqfa HealthCare Australia Pty Ltd. Unit 18, 52 Holker St, Silverwater NSW 2128 Australia

http://www.agfahealthcare.com

http://blog.agfahealthcare.com

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

From: "Arsavilli, Dev" < Dev. Arsavilli@act.gov.au>

To: agfa.onmicrosoft.com

AWWQG/AGFA@AGFA, "Griffiths, Jessica (Health)" 'AMPCY/AGFA@AGFA, Cc: NAWVR/AGFA@AGFA,

<<u>Jessica.Griffiths@act.gov.au</u>>, "Barrett, Scott (Health)" <<u>Scott.Barrett@act.gov.au</u>>, "Duggan, Mark (Health)" <<u>Mark.Duggan@act.gov.au</u>>

Date: 16/03/2018 01:25

Subject: RE: TEST environment- Options to move forward. [SEC=UNCLASSIFIED]

Thank you for taking time to review this issue and responding in detail.

My summary:

It is a very simple and general expectation of ACT Health that we have a TEST environment that is fit for purpose. Here we have a TEST environment that is not fit for testing within the scope.

I do not agree with the reasoning that this approach was not made clear:

I have reviewed this with the Project Team and asked them to look in to all initial discussions.

From the available minutes etc, this testing approach was being discussed in September/October 2017.

Agfa team were part of these discussions.

Please see attached; one of the items mentioned in this minute talks about subset of data migration testing being sufficient for ACT Health. It also mentions that as big as 10% of DB will be provided to Agfa for migration at one instance.

Q1. Why was this issue not identified/thought/raised earlier?

Q2. Why have we discovered this in the middle of testing after the fact that the disk was full?

It seems like the environment was not actively monitored. Are there any monitoring measures in place currently? If we are not monitoring disk space are we monitoring other issues?

Nowhere in the BRS have we mentioned that we will accept Agfa's global best practice.

Please see below:

S16	Compliance	Comply with the standards for hardware and software listed in the ACT reference manual.	
S17	Compliance	Comply with the ACT Health change management process.	
S12	Architecture	Complies with the ACT Government ICT Data Centre requirements.	

Agree that this approach of 20% of migration was not documented in the BRS as we normally consider 100% data migration in TEST as a standard. Imagine scoping of TEST environments for just 1.5% of data migration. If this is the best practice I am really concerned.

I see the requirement in BRS mentioning Data Migration.

CC12	Installation	Data migration from the existing RIS-PACS	
		to the new RIS-PACS should be included in	
		the solution offered.	

Q3. Was Agfa unware of the size of the database to be migrated from existing RIS-PACS to the new RIS-PACS? I agree that there is no mention of environments in this requirement,

Q4. Does that mean data migration happens directly in Production environment?

Q5. Why was only production environment scoped for data migration when our environment description mentions TEST as well?

CC1	Environment	The system will operate in the	•	
		environments:	1	
	**	• Dev		
		● Test		
		Pre Prod / Training; and		
		Prod		

This clearly explains that we test any changes before migrate to Production.

It is a standard practice if there is a data migration involved, the storage space in TEST and PROD be configured at similar capacity. In some instances we configure non-replicated storage in test for testing purposes but with matching disk capacity.

PR2	Storage	Provide enough short term storage to house a minimum of 3 years data.	Current date minus 3 years plus capacity to store pre-fetched historical (archived) images.
-----	---------	---	---

Q6. How did Agfa see similar requirements for PROD env only?

Q7. Was 'testing' for data migration not scoped at all?

We are really concerned that testing of data migration was not considered.

This should have been checked as part of milestone 1 completion.

I am also concerned that there is a reference to SoW and a Pre-Prod testing approach. Currently I am not able to view the SoW but would like to read it myself. If this statement is correct, then we have agreed on a poor quality criteria.

Coming to the options proposed:

Option 1: not suitable

- a. This option proposes different approach for TEST and PROD and this is not considerable
- b. This option may delete images before completion of testing

Option 3: not suitable

- a. Testing in Pre-PROD is simply not acceptable and doesn't comply with ACT Change Management Processes
- b. We need migrated data in TEST for System and Integration (SIT) Testing and BI (reporting) testing.
- c. This will make SIT and BI testing invalid in TEST

Option 2: not suitable fully, but we can accept this approach temporally to continue with data migration cycle 3 and 4 but for cycle 5 would require more than 2TB.

- 1. This approach requires clean-up of the data for each cycle to run.
- a. Our preferred approach for this option would be to keep migrated RIS data in place with each cycle and just remove images to create space for next cycle.
- b. I believe this is not possible
- c. However, to continue with data migration testing this approach can be used. I have confirmation from the Testing Team this will not cause any issues for their testing plan
- 2. This approach will not ensure that we have sufficient RIS data for BI testing in TEST

Q8. Why we were not proposed an option to use the Production disk temporarily in the similar manner to Option 2 (Option 2 proposed porting of 1TB from a different environment)

- a. This will be our most preferred approach to resolve this issue.
- b. This will ensure sufficient temp storage for testing in TEST

PR3	Storage	The storage solution is scalable and	
		upgradeable.	

- c. This will give good approximate times for PRE-PROD data migration
- d. This approach will help us do bigger chunks of data migration as planned before.
- e. If production uses replicated storage using a small portion of the replicated storage is an advantage
- f. As we are not using the PROD environment, temporary usage of the disc adds value
- g. Q8. Is there a significant reason preventing Agfa do not want to take this approach
- h. The project team would like to discuss further at any time.

Kind Regards,

Dev

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: [mailto:

Sent: Wednesday, 14 March 2018 7:40 PM

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

.c: Arsavilli, Dev < Dev. Arsavilli@act.gov.au >;

Subject: TEST environment- Options to move forward.

Hi Mark

I have reviewed the issue, notes in email trail below, and both have gone through the relevant project and commercial documentation.

I am not able to find any reference to the requirement to provision a TEST environment suitable to specifically support the migration testing strategy and approach that is currently being undertaken by ACT Health. In addition, I am not able to locate where there may be stated any requirements or direction articulated to Agfa in advance so as one would reasonable expect us to assess and provision an environment that supports this particular testing approach.

In the course of my internal discussions with the AGFA teams last night and this morning, it would appear we certainly have not been previously exposed to migration testing in this context and which required us to provision an environment to meet your particular needs. By no means is it a reflection of the testing quality and efficacy being undertaken, but it certainly would be viewed as atypical from our perspective. As such, it was never planned for or considered. Our EI TEST environment, as a sarticulate below, has been provisioned in line with our global best practice. Our design specifications of course are to support testing of our applications, and were never intended for supporting this type of migration testing. Although we inadvertently seemed to have gone down this path a ways with you in good faith.

So going forward, we can propose three options for consideration:

- 1. As seemed email from 09 March, we can turn on automatic purging of the data within the TEST storage cache. I understand this may have some impact on the testing approach and seemed can work through this with Dev and the migration teams.
- 2. We believe we can relatively easily assign 1TB of cache from one of the other environments temporarily. Although this will immediately allow you to progress the testing of DICOM throughput which has recently been stopped, I don't believe 2TB will be near sufficient to achieve the 20% of migrated data being sent to TEST. Essentially this too will fill up eventually.
- 3. ACT Health to change the testing approach to one which involves migrated data being testing in Pre-PROD. I know Dev has expressed some concerns about this approach (and we would be happy to discuss with him further what risks he sees here). I believe this was an approach that was perhaps suggested in the SoW documents in any case, but understand if that changes to approach may be valid through the course of any project.

Once you have reviewed these options, please let us know how you may wish to proceed. Of course if you need an out of session meeting to discuss, we can organise.

T +61 3 9756 4624 F +61 2 9647 2742 N	
Australia Pty Ltd. 20 Shand http://www.aqfahealthcare.com http://blog.aqfahealthcare.com	Street Stafford QLD 4053
recipient, please notify the sender a immediately. You should not copy	hay be confidential and also privileged. If you are not the intended and delete all copies of this transmission along with any attachments or use it for any purpose, nor disclose its contents to any other person ————————————————————————————————————
(as PDF).pdf" deleted by	