

PURCHASE REQUEST FOR NONSTOCK GOODS AND SERVICES (THIS IS NOT AN OFFICIAL PURCHASE ORDER)

Areas indicated with an Asterisk * to be completed by the Requesting Officer.

* What is the purpose of this Request: Please Tick/Check One: Goods Services Consultancy

Branch/Section/Ward/Department *

Digital Solutions Division
grated Diagnostic Imaging Solution (IDIS) Project
Request Date * : 6/8/2018

Delivery Address *

Building 1, Lv 10 Canberra Hospital, Garran
ACT 2806
Delivery Point * : Y


ACT
Government

Health

Supply Services DelDkt No :

Qty Req'd	Issue/ UOM	Part/ Cat No.	Item Description (per the detail obtained from the Supplier Quotation)	Dangerous Goods (Y/N)	Cold Freight (Y/N)	Tax Name	Est Unit Cost (excl. Tax)	Tax Amount
1			Data Migration Professional Services	N	N	GST	14,500.00	1,450.00

* Est. Total (incl. Tax) \$: 15,950.00

Entity Code	Cost Centre	Natural Account	Project Code	Agency Specific	Trading Code
600	66806	712102	21437	9999	99

Supplier Details *	
Siemens Healthcare Pty Ltd (Australia) 885 Mountain Highway Bayswater, 3153, VIC	
QUOTE REF *	35882-3
OTHER REF *	<input type="text"/>

Government Guidelines for Purchasing:
If the value of this Requisition is:

- Under \$25,000, One written quote required;
- \$25,000 to under \$200,000, A minimum of three written quotes required, or Chief Executive (CE) approval where less than 3 quotes;
- \$200,000 and above, Must Invite Public Tender, or Chief Executive (CE) approval where a restricted/single select tender process is undertaken.

* Please Ensure Supplier Quotation is Valid.

Requesting Officer's Name (Printed) *		Telephone Number *
Dev Arsavilli		02 6174 8729
Email Address *	Dev.arsavilli@act.gov.au	
Certificate by Authorised Officer		
I certify that:		
(i) under the Financial Management Act (1996), I am authorised by the Chief Executive Officer of the Department/Authority to make this commitment and approve the total value of this requisition;		
(ii) funds are available and expenditure is essential; and		
(iii) the financial coding is correct.		
Authorised Officer's Signature	Authorised Officers Name (Printed)	
	Sandra Cook	
Authorised Officer's Position Title Director, Future Capability & Governance	Position Number	
	E01025	

Purchasing Officer's Notes:
Purchase Order No.: H

Please Send Your Purchase Request and ALL Relevant Documentation by FAX: 62050806 or via Email To: acthealthsupply@act.gov.au

The Canberra Hospital - Data Migration Professional Services – Go-Live Support

12 July 2018

SIEMENS
Healthineers 

Quotation Number : 35882-3

Your Contact: [REDACTED]

Direct Line:

Mobile No:

e-mail: [REDACTED]

com

Your reference:

Our reference:

Date:

12.07.2018

Web Address:

www.siemens.com.au/healthcare

12 July 2018

The Canberra Hospital
Yamba Drive
GARRAN, ACT, 2605

Thank you for providing Siemens Healthcare with the opportunity to bid for your project. Siemens have been active in Australia and New Zealand for more than 135 years. Siemens is a trusted partner and with our technology based solutions, we address many of the critical issues facing Australia today.

We are confident that our offering will bring advantages in superior quality, workflow and trendsetting applications. These clinical outcomes are complemented by a maximum return on your investment.

Our detailed proposal is structured as follows:

Section A - Executive Summary, including a brief 'at a glance' system overview with pricing.

Section B - Provides detailed information on the configuration selected to match your needs. Further extensive technical information and specifications are also provided. Any additional extra cost options are detailed in this section.

Section C - Details our commercial qualifications on our offer and terms and conditions for your reference.

We trust this proposal meets and exceeds both your clinical and business requirements.

Should you require any assistance please do not hesitate to call me on [REDACTED]

Yours sincerely
Siemens Healthcare Pty Ltd

[REDACTED]

Section A – Executive Summary

Our Offering

Siemens Healthcare solutions are designed to make your workday easier and clinically more successful. Each day, from your very first patient, our technology will acquire images with the finest diagnostic detail.

Siemens Healthcare innovative imaging technology is supported by outstanding workflow concepts together with a broad spectrum of dedicated, advanced applications. We support your day-to-day clinical activity with simple, automated workflow, ensuring high throughput.

Our award winning designs incorporate the highest level of environmental sustainability throughout the complete product life cycle. With our technology and expertise in project management we deliver:

- fast and easy installation
- low life cycle costs for increased return on investment
- compact system designs to minimize space requirements.

We provide you with a powerful, affordable system that supports the clinical and financial success of its users. In addition, our service offerings and life program provide continuous support encompassing:

- upgrades and migration
- stay competitive with up-to-date systems
- education and training
- broaden your knowledge and expertise
- services and support
- feel confident in our proactive service solutions and reliable support offerings
- information and communication
- be informed, get connected.

Upgrade, installed based options

Siemens Healthcare keeps you at the forefront of trendsetting applications and innovative technology. Opportunities to expand your systems capabilities even further are often available. With new innovative applications, workflow enhancements and technology you can keep your system state of the art.

Revolutionary UPTIME

We provide quality service support designed with one primary objective:
To help our customers develop sustained higher-level productivity, maximise performance and increase efficiency.

This encompasses:

- proactive support
- guaranteed UPTIME
- local responsiveness
- lifecycle responsibility.

Life

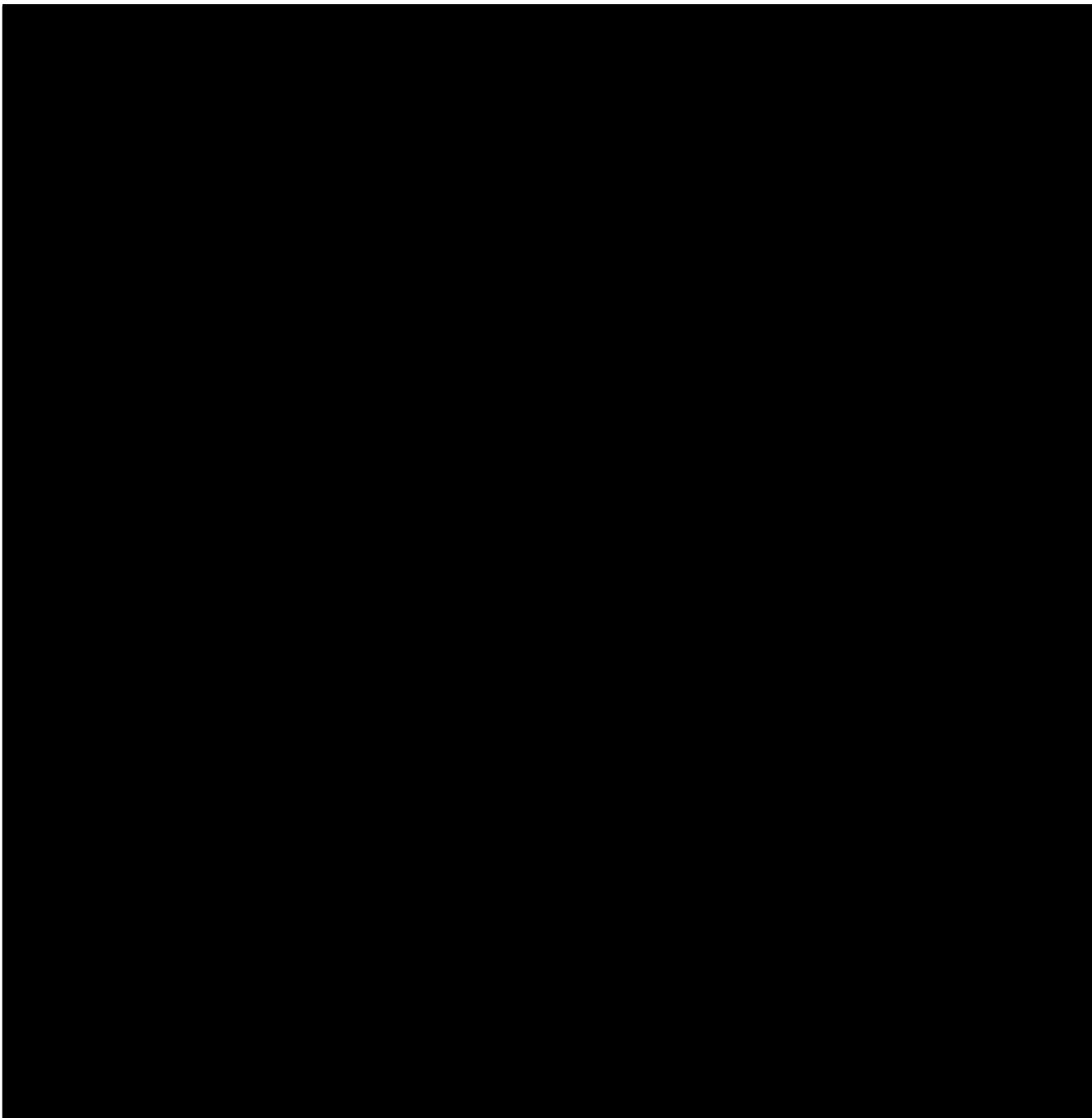
Siemens Healthcare has the unique customer care solution that helps you obtain the most from your investment. From the moment of your purchase, Life surrounds you with an array of programs and support that enables the continuous development of skills, productivity and technology. This allows you and your team to broaden your capabilities, resulting in increased profitability, as well as taking patient care to the next level.

Pricing Summary

Description	Qty	Price (excl GST)	Price (Inc GST)
Professional Services – Go-Live Support	1	\$14,500.00	\$15,950.00

Section B – Detailed Configuration

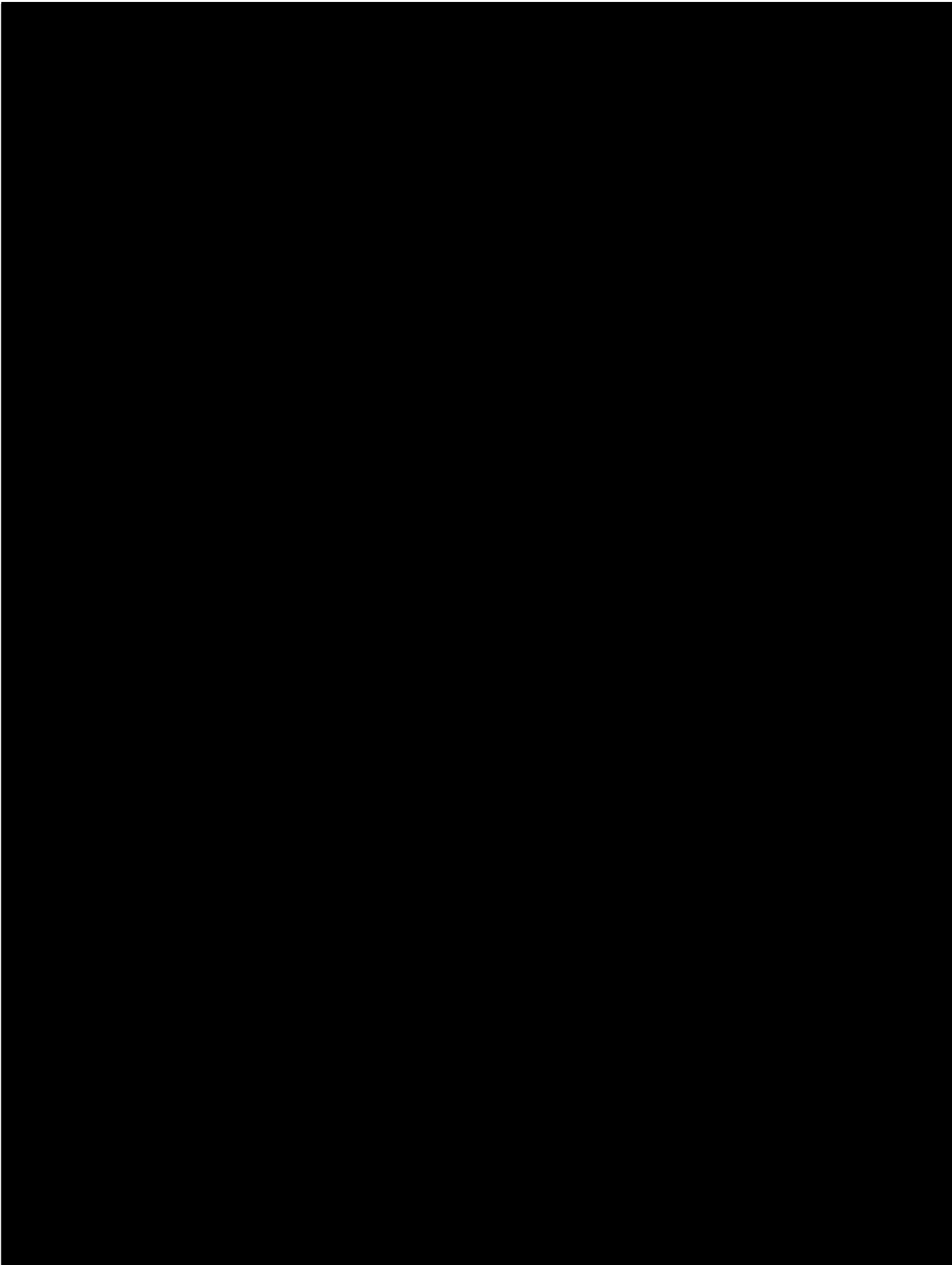
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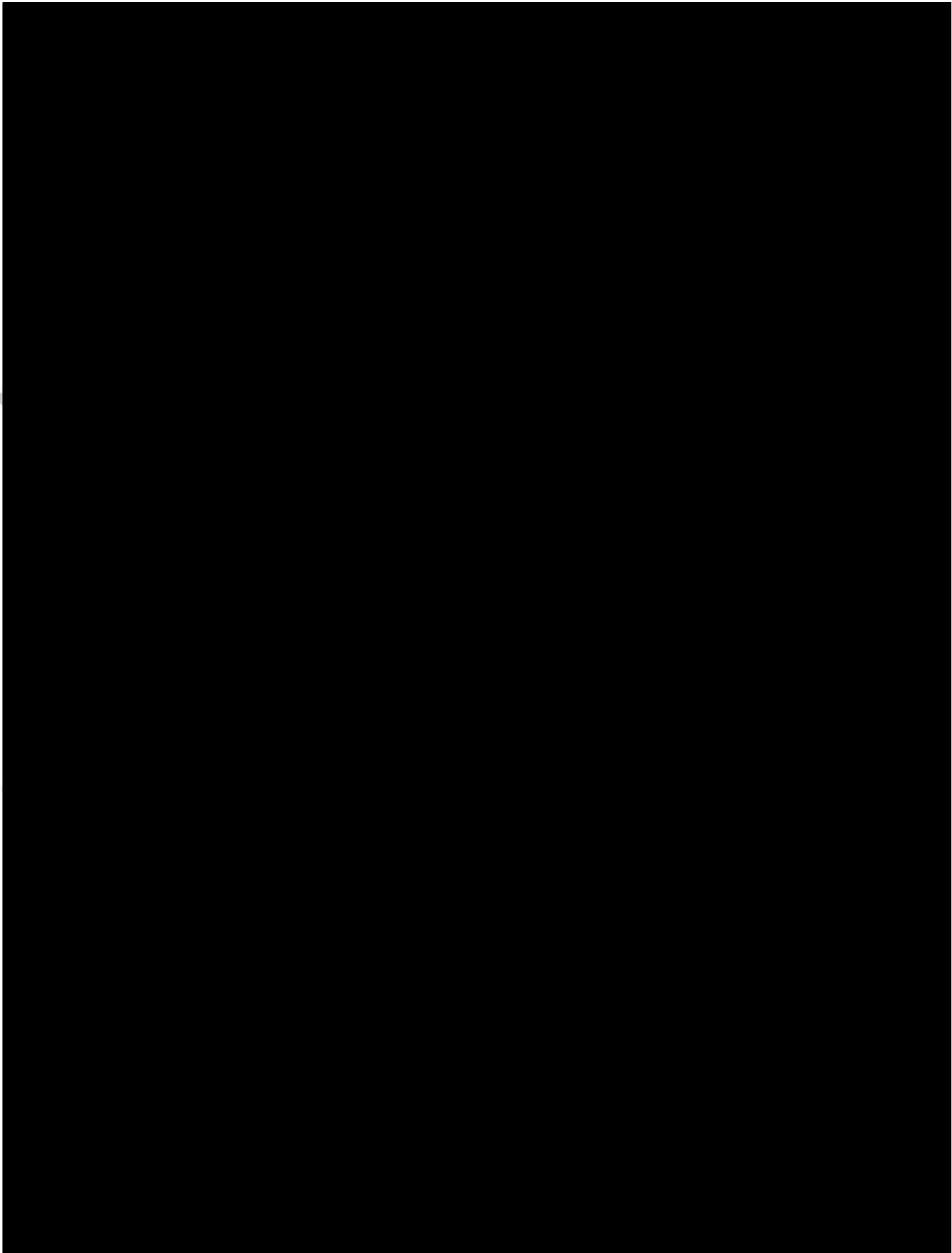


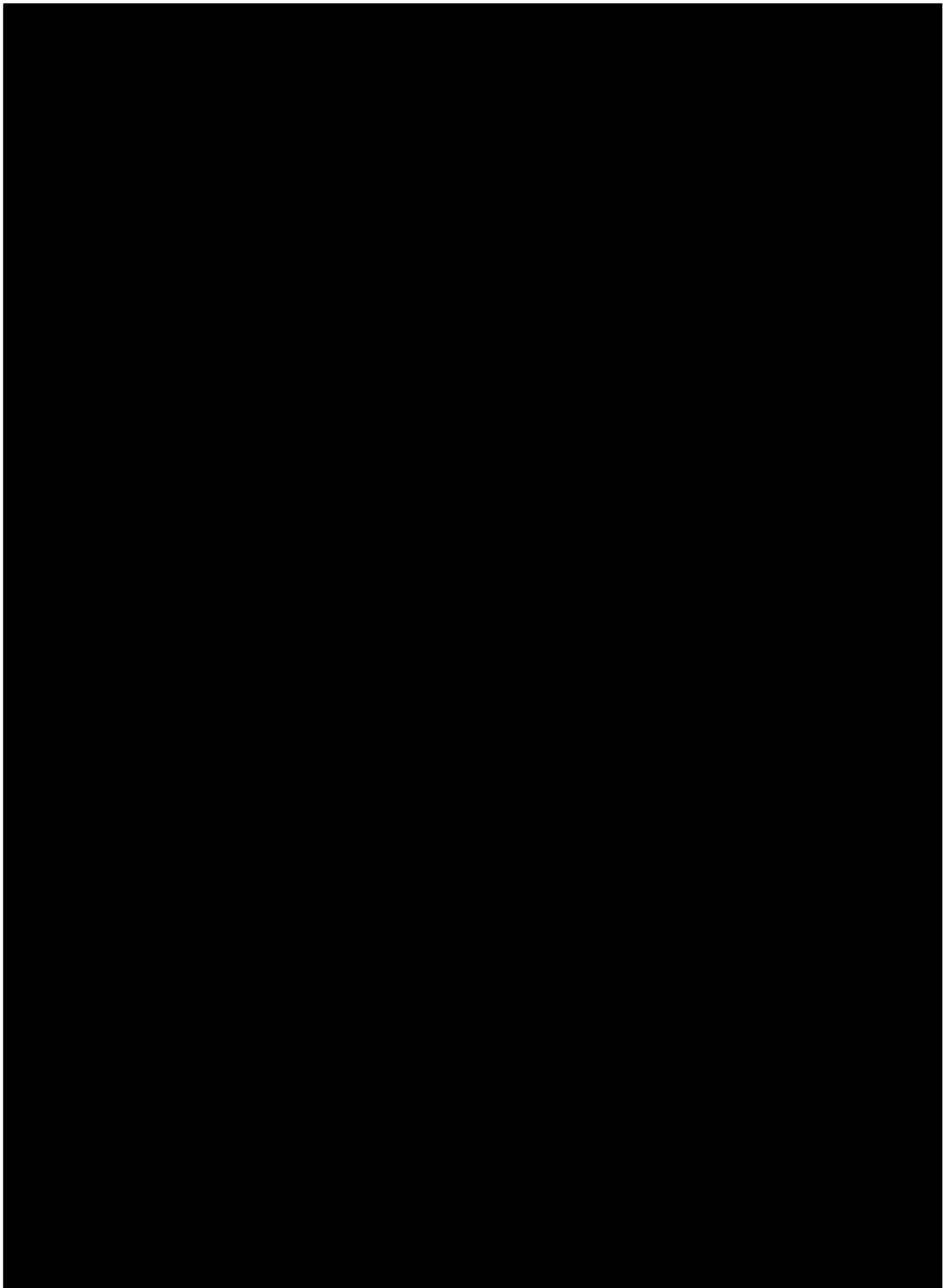
www.siemens.com.au/healthcare

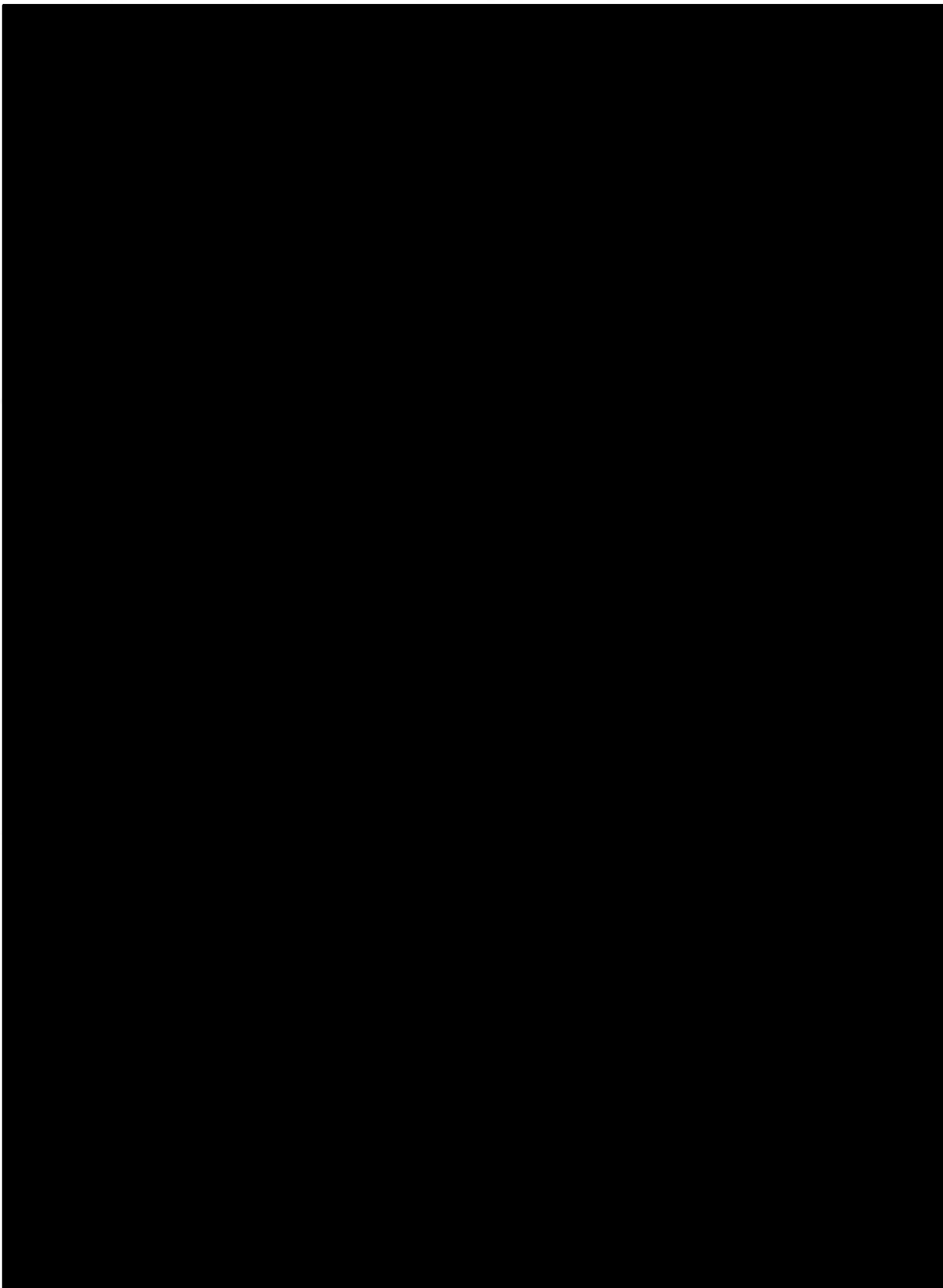
Siemens Healthcare Pty Ltd.

885 Mountain Highway
Bayswater
Victoria
3153
Australia

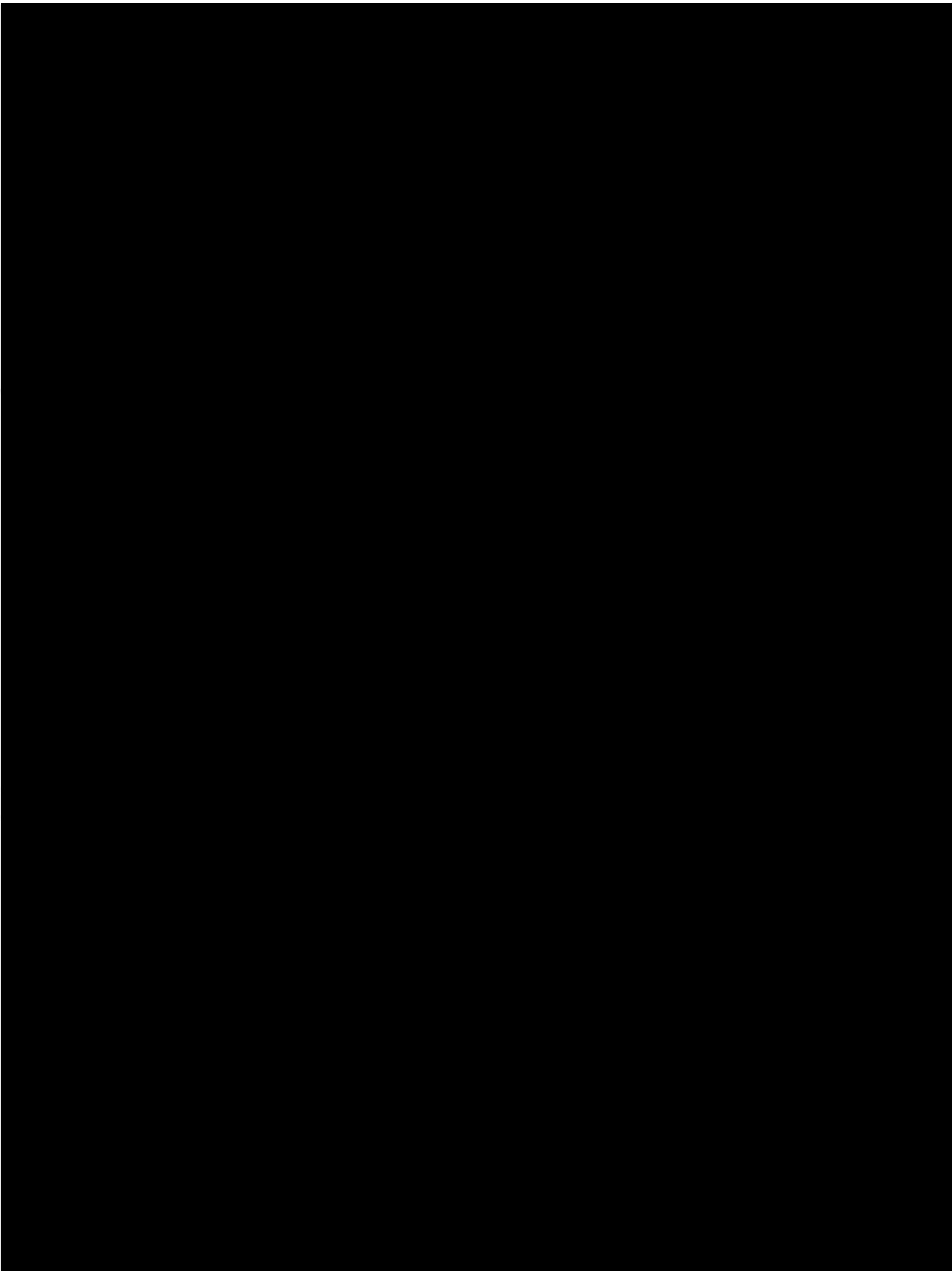


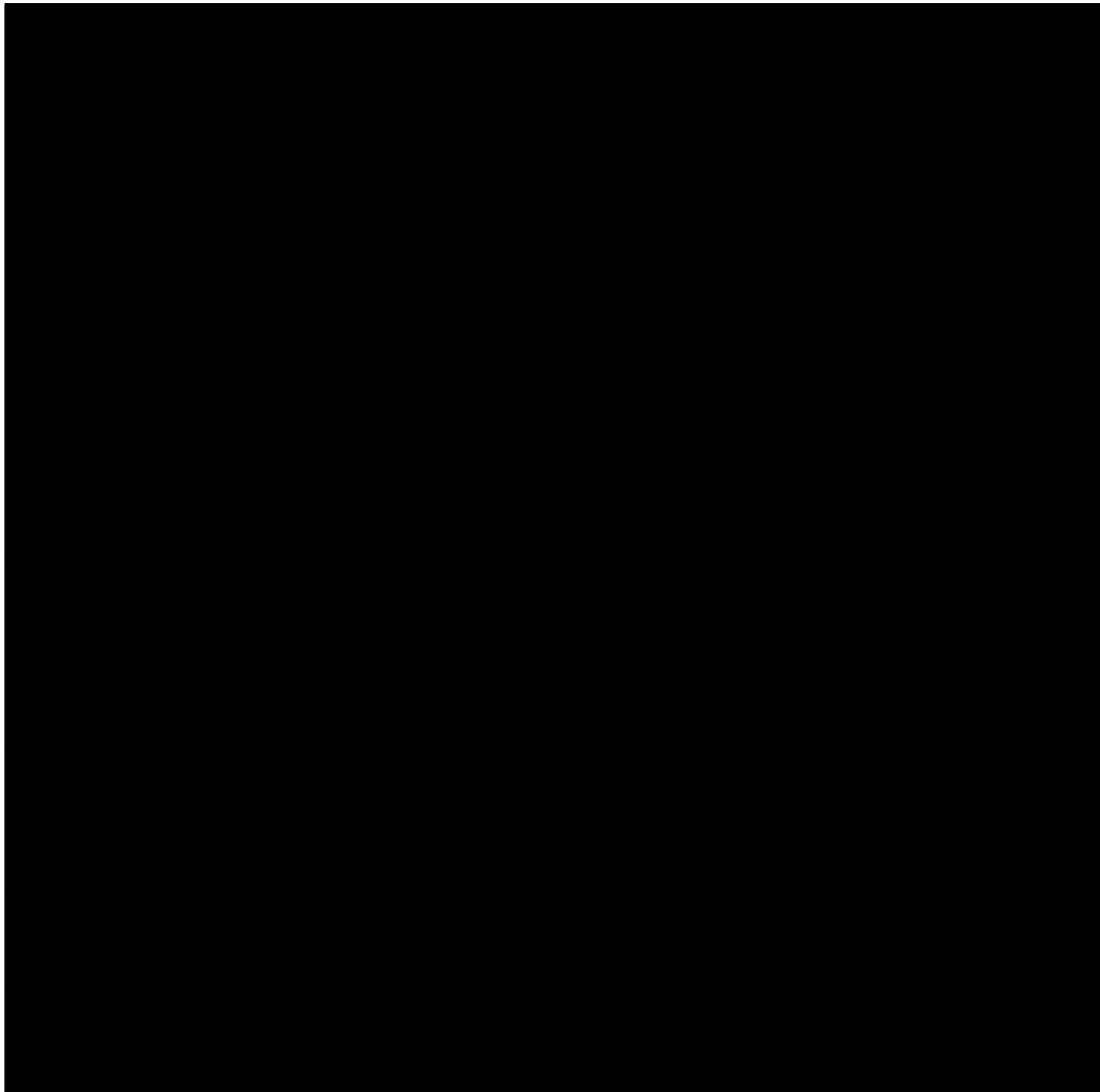


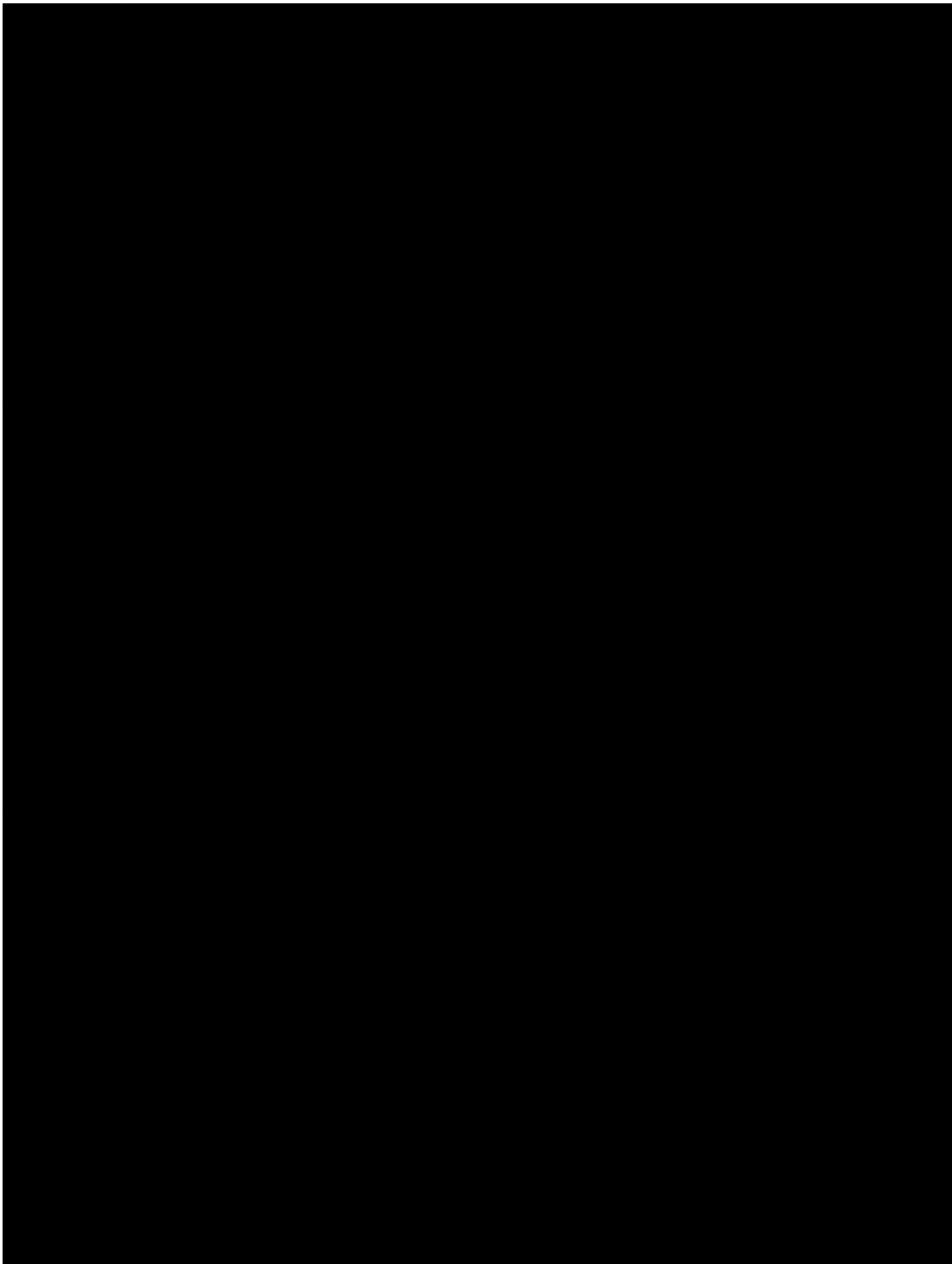












DIGITAL SOLUTIONS DIVISION

CLEARANCE FORM



TRIM Reference No.

Subject/Title IDIS Project – Additional work order for Siemens RIS data migration for go-live

Action requested FOR DIRECTOR CLEARANCE FOR CIO CLEARANCE
 FOR SIGNATURE FOR CLEARANCE

Action officer Name: Darcy Row Title: Project Officer Ph: 02 6174 8732

Date submitted 6/8/2018 **Due date:** 15/8/2018

Reason for urgency (if applicable)

Summary (No more than 150 words)

As part of the Integrated Diagnostic Imaging Solution (IDIS) Project, there is a work order with Siemens, the current diology Information System and Picture Archiving and Communication Systems (RIS-PACS) vendor, to assist with data migration during the transition to IDIS. This does not include support during the cutover weekend and this work order covers these additional services.

Senior Manager clearance APPROVED **Name:** Dev Arsavilli
Signature: **Date:** 7/8/18

By approving this document you are approving that the document is complete, that you support the recommendations and that it is contextually correct, grammatically correct and spell checked

Finance Manager clearance APPROVED **Name:** [REDACTED] Liu
Signature: **Date:**

Director Clearance APPROVED Sandra Cook Peter McNiven
 Delegation of up to \$100,000 including GST
Signature: **Date:** 8/8/18

Senior Manager, Office of the CIO APPROVED **Name:** Rebecca Heland
Signature: **Date:** 8/8/18

CIO clearance APPROVED PLEASE DISCUSS
 Delegation of up to \$250,000 including GST APPROVED WITH CHANGES RESUBMIT
Signature:
Date:

Comments**Resubmit Details** **Date:****Comments:**



REGISTER OF PURCHASING DECISION (ROPD)

NonStock Requisition (REF No.): **1. General description of what is to be purchased:**

As part of the Integrated Diagnostic Imaging Solution (IDIS) Project, there is a work order with Siemens, the current Radiology Information System and Picture Archiving and Communication Systems (RIS-PACS) vendor, to assist with data migration during the transition to IDIS. This does not include support during the cutover weekend and this work order covers these additional services.

- 2. Purchases under \$25K only require one written quotation, once obtained please proceed to box 3. If over \$25K (3) written quotes must be obtained. If three quotes were obtained please proceed to box 3. If not please identify justification for not obtaining required number of quotes below {please tick or check appropriate box}**

NOTE: Director General Authorisation is required for orders over \$25K (GST Incl) where less than 3 quotes have been sourced.

- i. The required supplies are only available from the one supplier in Australia or only one supplier has the necessary technical expertise to supply and provide satisfactory back-up, spare parts, maintenance, support or warranty.
- ii. For reasons of overall economy the requirement must be compatible with existing equipment or the area has standardised on a particular item after inviting tenders/quotations for the original equipment.

Other: _____

3. Outline quotes obtained and justification for purchasing decision:Supplier: Siemens Quote: 35882-3 (\$15,950.00 incl GST)

Supplier: _____ Quote: _____

Supplier: _____ Quote: _____

Contract awarded to Supplier: _____

Comments in support of purchasing decision: As Siemens is the vendor for the current RISPACS, they are the only vendor able to provide these data migration services.

4. Source of Funding:

1. Recurrent Expense Budget 2. P&E Program 3. Donation 4. Special Purpose Funding

Other: Project - 66806 - Integrated Diagnostic Imaging Solution (IDIS) Project**5. Endorsements:** Purchase Requests must be endorsed by relevant delegates (as appropriate). Refer to ACT Health Procurement Guideline for specific guidance on endorsements required:

Biomedical Engineering: _____ Workplace Safety: _____

Information Management (IT): _____ Sterilising Services: _____

Property Management & Maintenance: _____ Infection Control: _____

Product Manager: _____ Other: _____

NOTE: Source Funding and Endorsements MUST be completed, otherwise the Purchase Request may not be processed.

6. Purchasing Approval:Requesting Officer: Dev Arsavilli Signature: [Signature] Date: 7/8/18Authorising Officer: Sandra Cook Signature: [Signature] Date: 8/8/18

NOTE: General Authorisation is required for orders over \$25K (GST Incl) where less than 3 quotes have been sourced.

ACT Health Supply Services USE ONLY

Purchasing Officer: _____ Signature: _____ Date: / /

NOTE: This document is to be attached to the supplier quotations and a non-stock requisition before being sent to the Authorising Officer and ACT Health Supply Services

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Request Date * : 6/8/2018	Delivery Point * : Y



ACT
Government

Health

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Requesting Officer's Name (Printed) *		Telephone Number *	
Dev Arsavilli		02 6174 8729	
Email Address *		Dev.arsavilli@act.gov.au	
Certificate by Authorised Officer			
I certify that:			
(i) under the Financial Management Act (1996), I am authorised by the Chief Executive Officer of the Department/Authority to make this commitment and approve the total value of this requisition;			
(ii) funds are available and expenditure is essential; and			
(iii) the financial coding is correct.			
Authorised Officer's Signature		Authorised Officers Name (Printed)	
<i>[Signature]</i>		Sandra Cook	
Authorised Officer's Position Title		Position Number	
Director, Future Capability & Governance		E01025	

Purchasing Officer's Notes:
Purchase Order No.: H

Please Send Your Purchase Request and ALL Relevant Documentation by FAX: 62050806 or via Email To: acthealthsupply@act.gov.au

The Canberra Hospital - Data Migration Professional Services – Go-Live Support

12 July 2018

SIEMENS
Healthineers 

Quotation Number : 35882-3

Your Contact: [REDACTED]

Direct Line:

Mobile No:

e-mail: [REDACTED]

com

Your reference:

Our reference:

Date:

12.07.2018

Web Address:

www.siemens.com.au/healthcare

12 July 2018

The Canberra Hospital
Yamba Drive
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- lifecycle responsibility.

Life

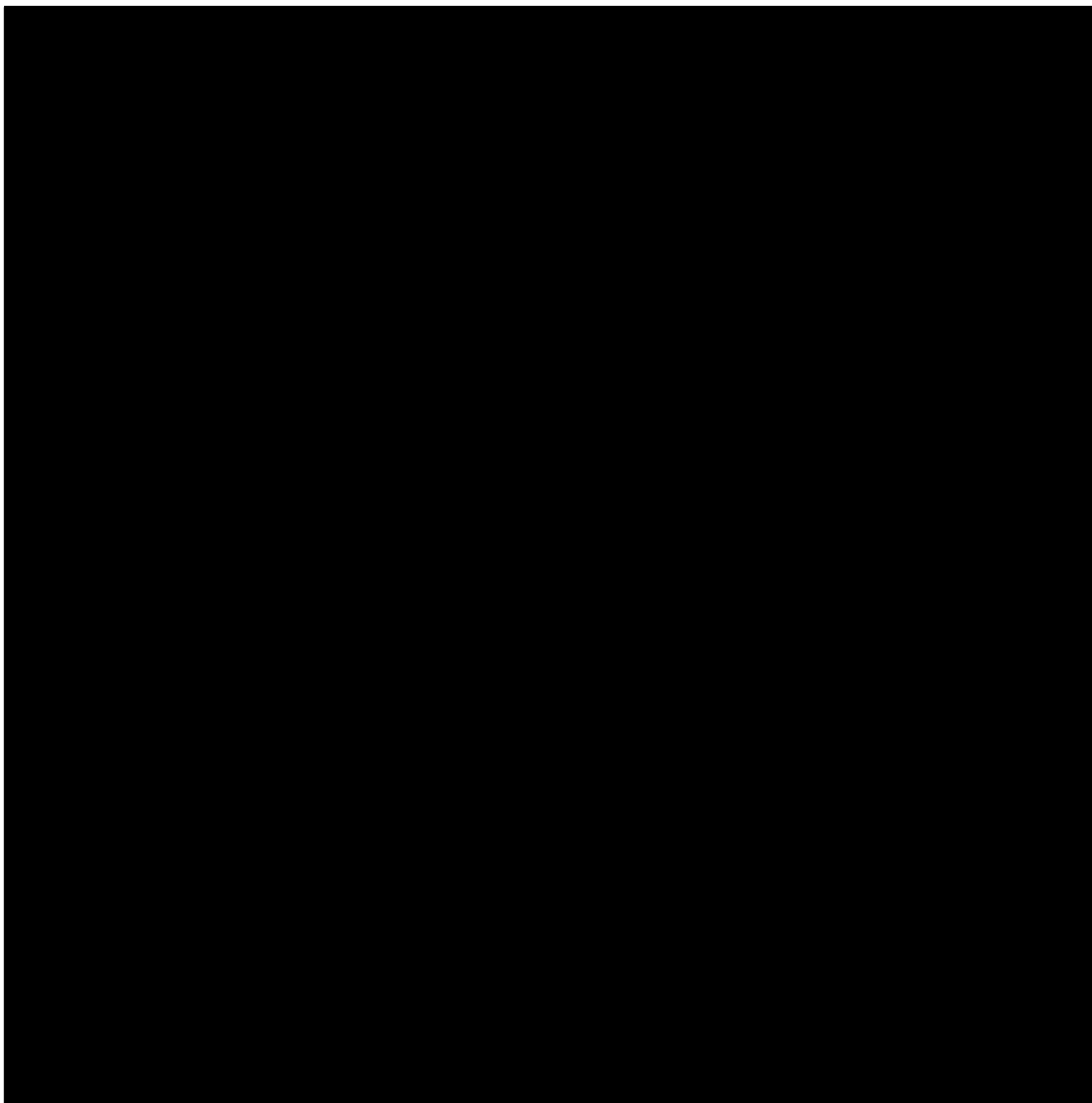
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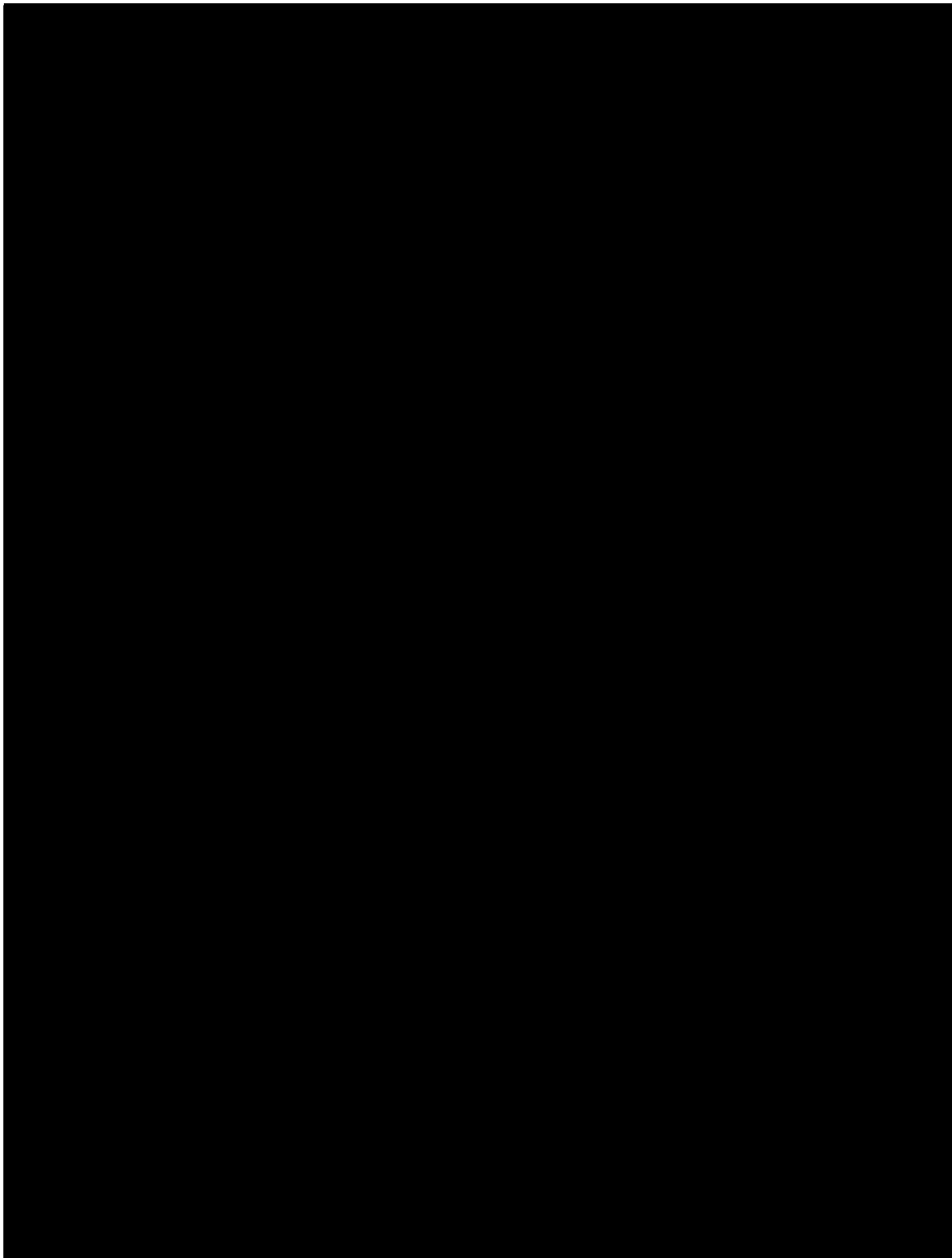
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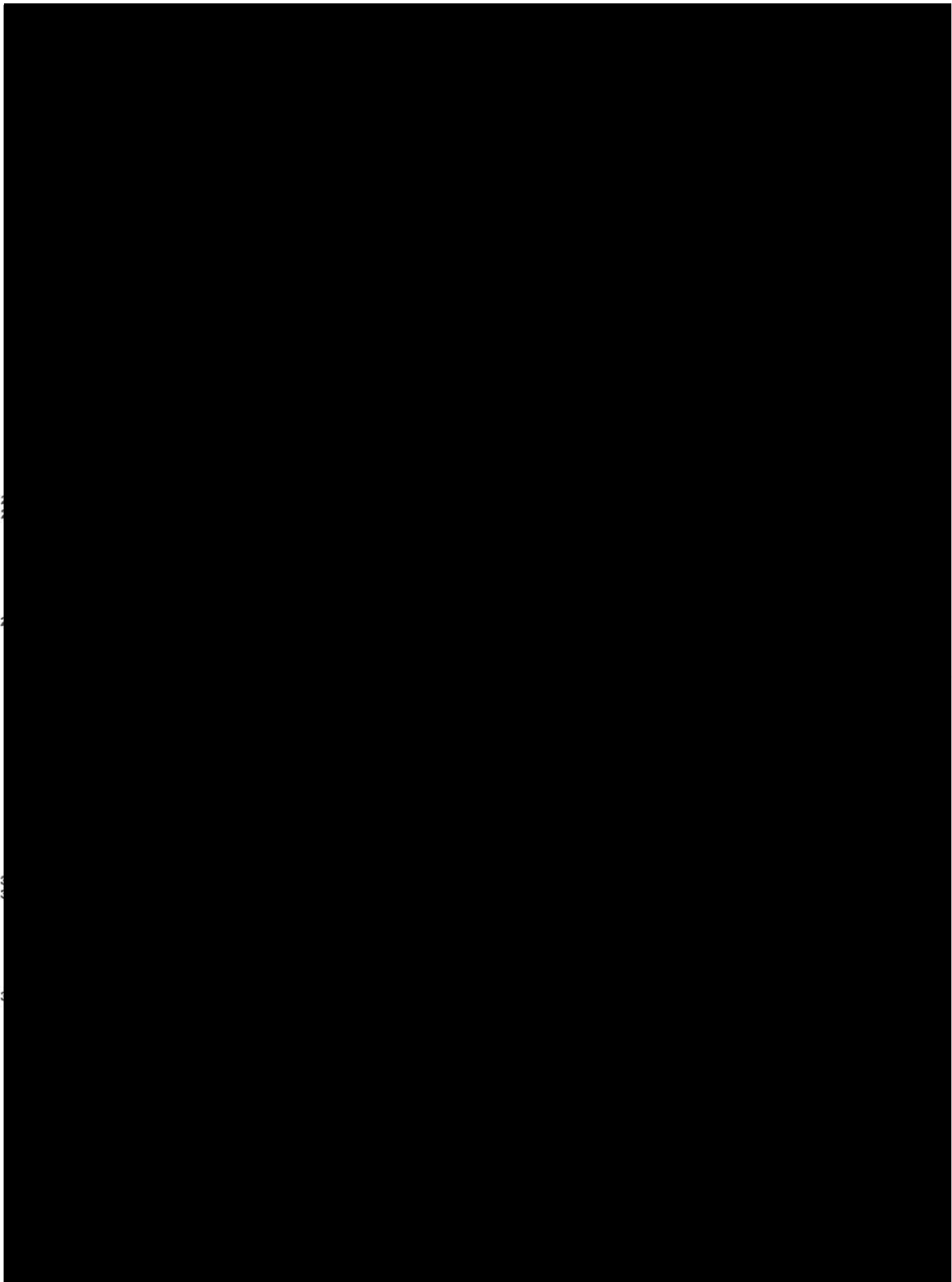


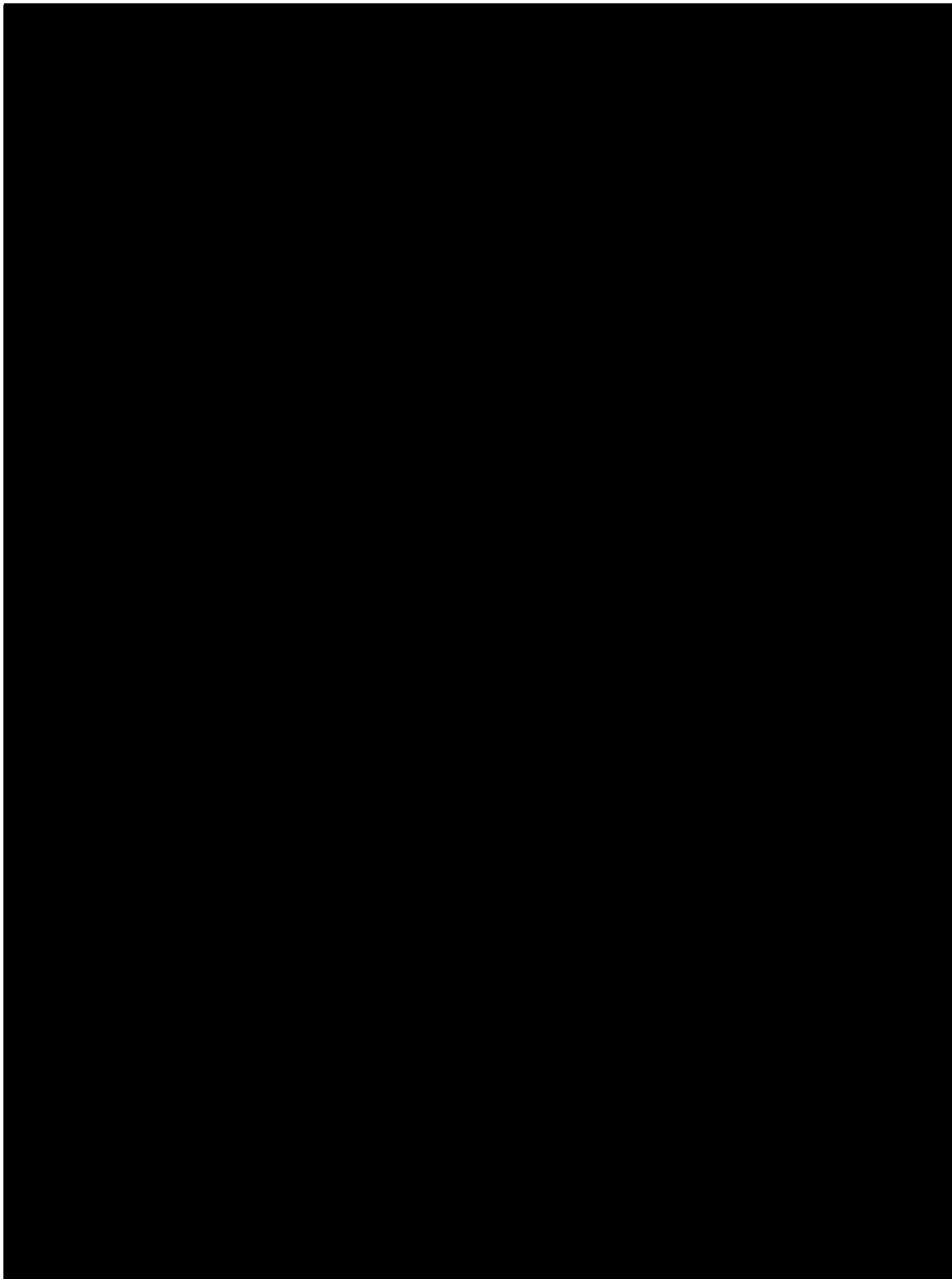
www.siemens.com.au/healthcare

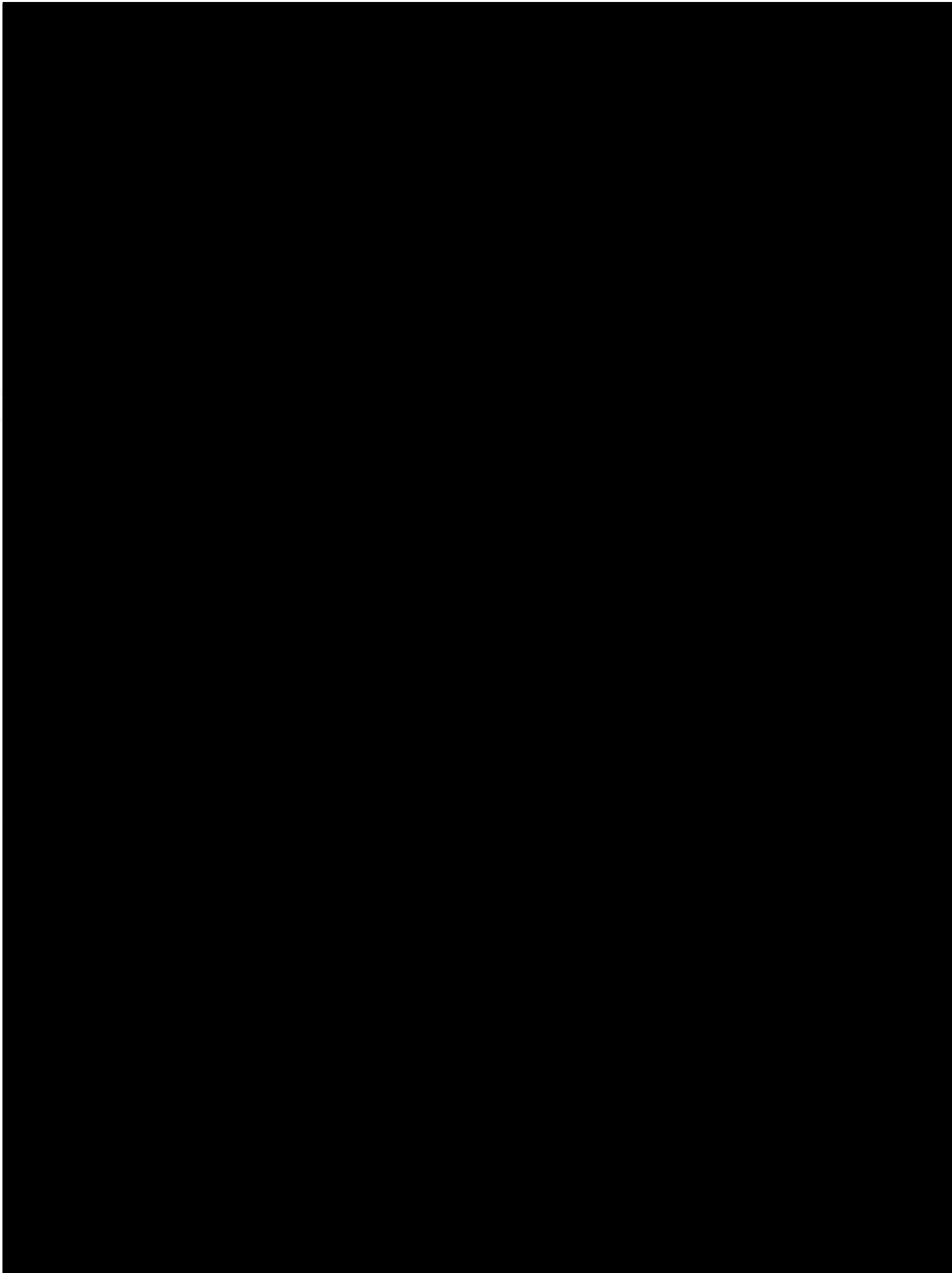
Siemens Healthcare Pty Ltd.

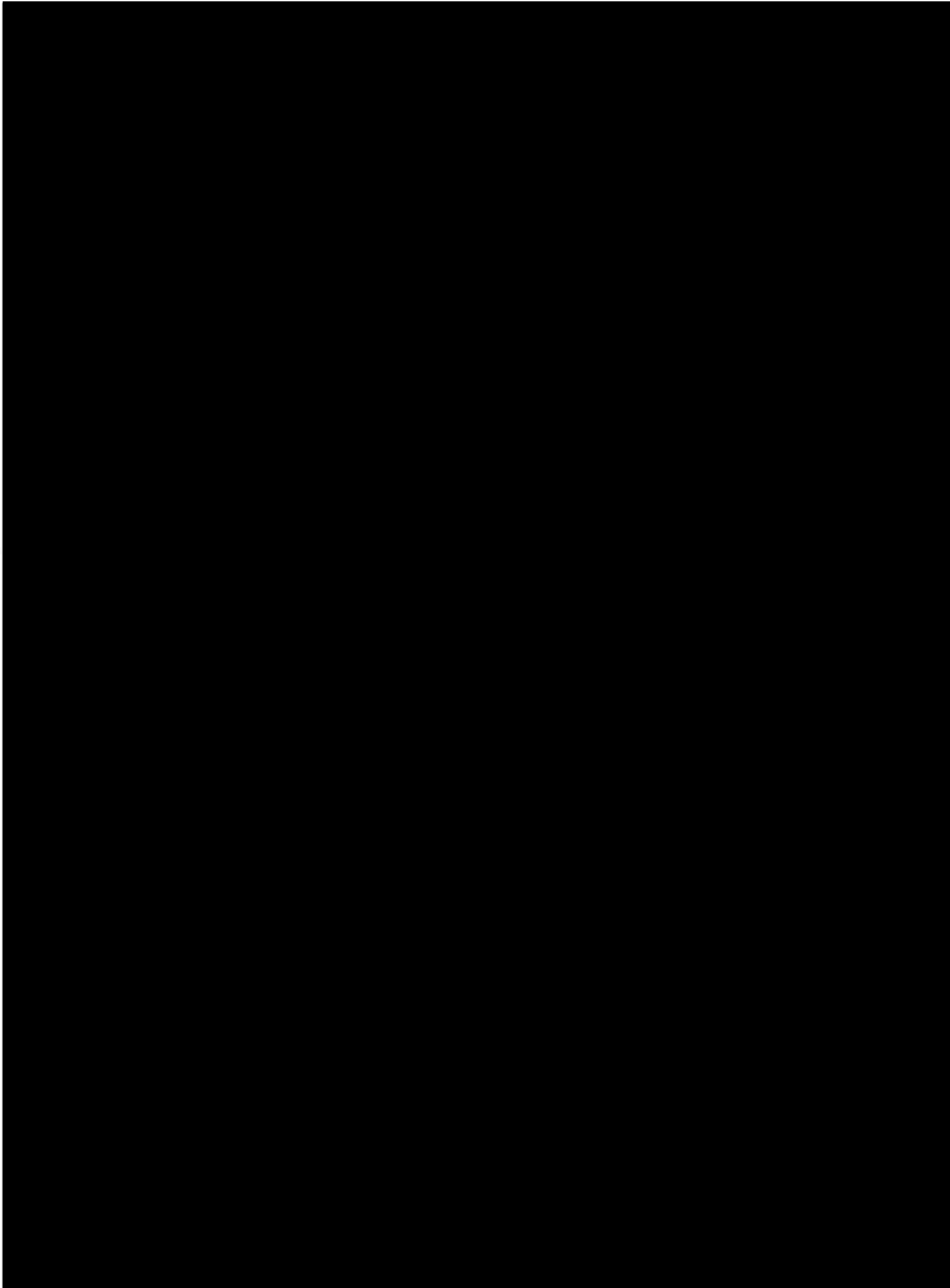
885 Mountain Highway
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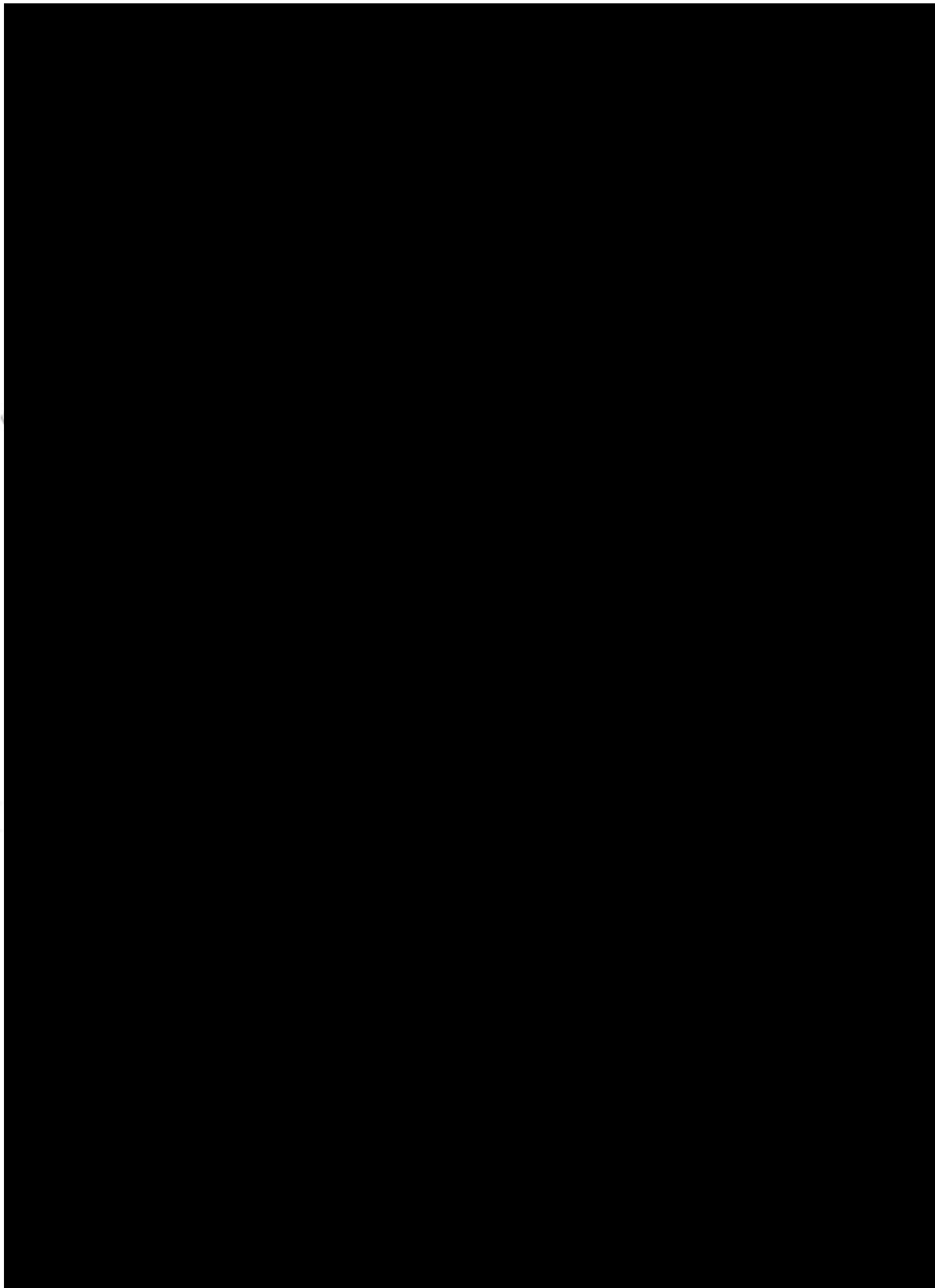


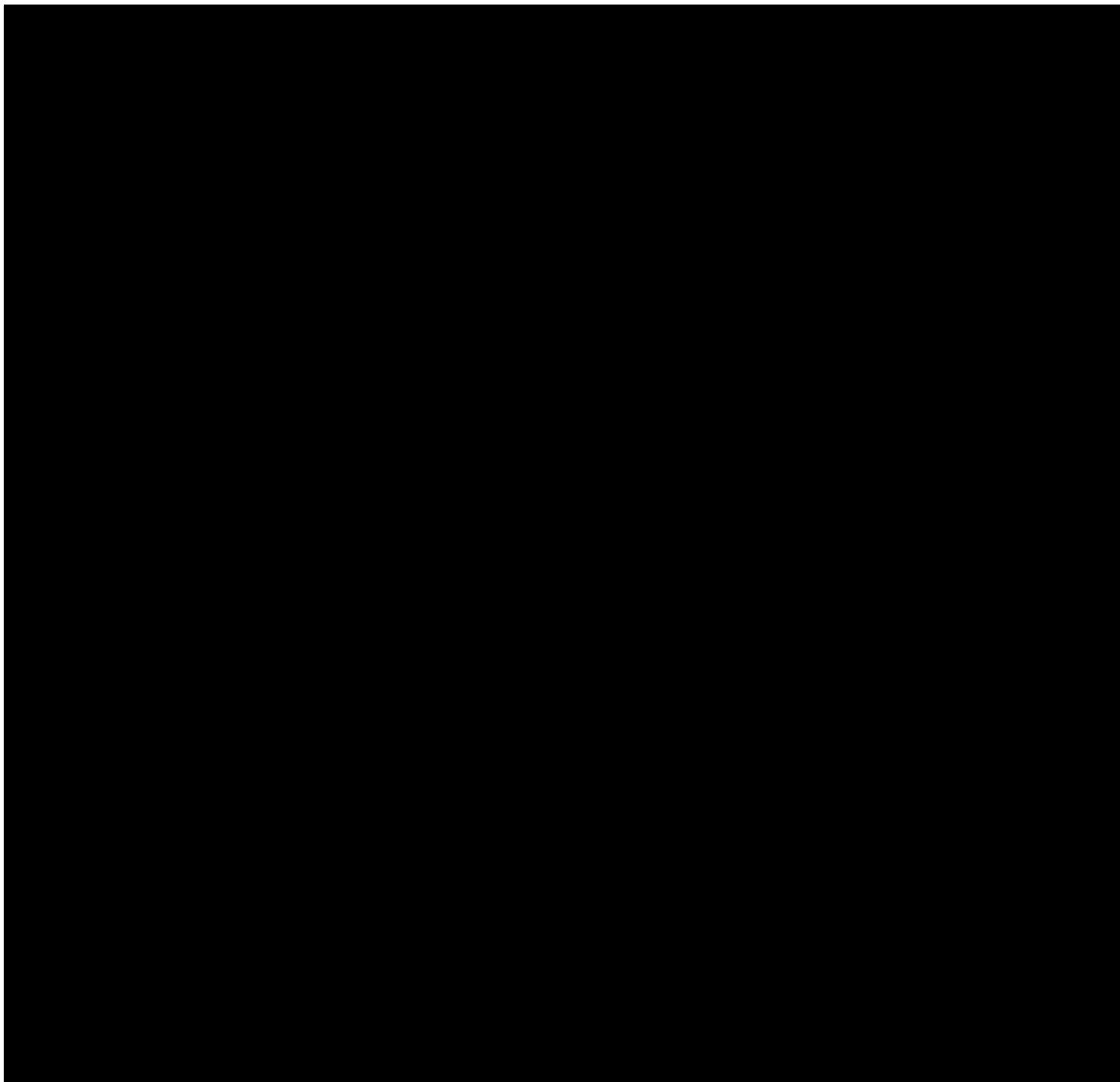


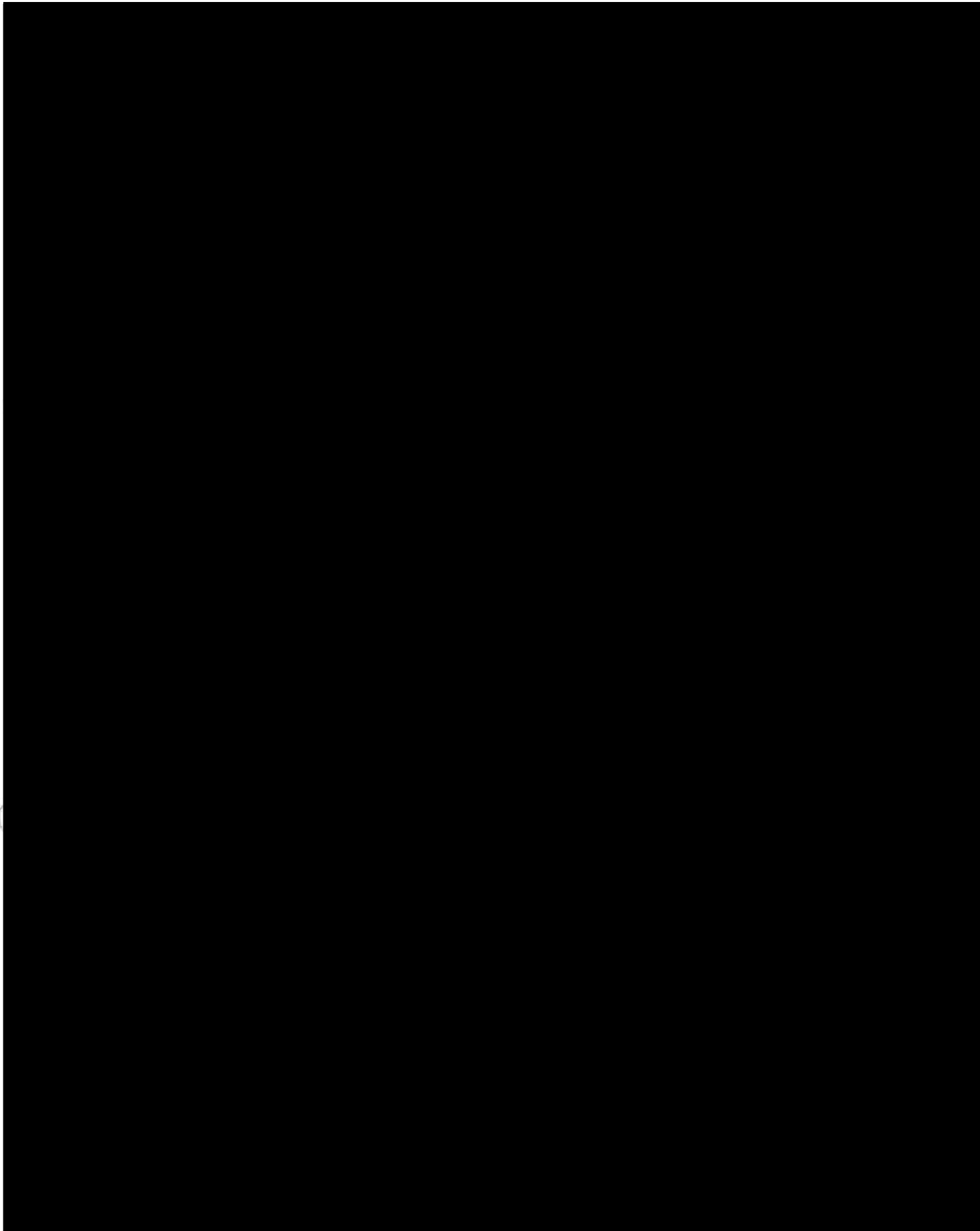












Heland, Rebecca (Health)

From: Arsavilli, Dev
Sent: Thursday, 2 August 2018 10:42 AM
To: [REDACTED]
Cc: Cook, Sandra (Health); Sidhu, Rajpal; O'Halloran, Peter (Health)
Subject: RE: Vulnerability Assessment - IDIS.pdf [DLM=For-Official-Use-Only]
Attachments: Vulnerabilities summary.pdf

Hi [REDACTED]

[REDACTED] requested more information.

Please see attached a raw extract of vulnerabilities from SSICT Security.
 We will talk through this during the teleconference.

Kind Regards,

(ev

--
 Dev Arsavilli | Project Manager

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

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

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

From: O'Halloran, Peter (Health)

Sent: Thursday, 2 August 2018 10:24 AM

To: [REDACTED] <[REDACTED]>

Cc: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; Cook, Sandra (Health) <Sandra.Cook@act.gov.au>; Sidhu, Rajpal <Rajpal.Sidhu@act.gov.au>

Subject: FW: Vulnerability Assessment - IDIS.pdf [DLM=For-Official-Use-Only]

Importance: High

Hi [REDACTED]

As discussed, our Shared Services provider have offered to make Rajpal (the original analyst who undertook the security assessment) available for any discussions with your team that may be required to assist in resolution of this issue in a timely manner. Contact details are in the signature block below.

Kind regards

Peter

Peter O'Halloran MACS Snr CP JP | Chief Information Officer

Phone: 02 6205 1100 | Email: Peter.OHalloran@act.gov.au

Digital Solutions Division | Health Directorate | ACT Government

Level 2, 4 Bowes Street, Phillip ACT 2606 | GPO Box 825, Canberra ACT 2601 | act.gov.au

Personal Assistant - Jamie Isaacson 02 6205 1100 or HealthCIO@act.gov.au

From: Crossley, Nick

Sent: Wednesday, 4 July 2018 5:00 PM

To: [REDACTED] <[REDACTED]>

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

Subject: FW: Vulnerability Assessment - IDIS.pdf [DLM=For-Official-Use-Only]

Importance: High

Hi [REDACTED] and Nick

Please see attached results of penetration testing that has been performed. Unfortunately the result status is a fail. The Vulnerabilities listed as CRITICAL (purple) **must** be resolved before moving into production.

Can you please commence remediation into this ASAP? Changes will need to be implement across all environments, not sure of the top of my head if this impacts any testing we have done?

Regards

Nick Crossley

Project Manager MAIPM, CPPM | Shared Services ICT Health

Phone: +61 2 6207 8919 | Mob [REDACTED]

Shared Services | Chief Minister, Treasury and Economic Development Directorate | ACT Government

Building 1, Lv 10 Canberra Hospital, Garran ACT | PO Box 11, WODEN ACT 2606 | www.act.gov.au

From: Sidhu, Rajpal

Sent: Wednesday, 4 July 2018 4:35 PM

To: Crossley, Nick <Nick.Crossley@act.gov.au>

Cc: Carriage, Nathan <Nathan.Carriage@act.gov.au>; Flynn, Ian <Ian.Flynn@act.gov.au>

Subject: Vulnerability Assessment - IDIS.pdf [DLM=For-Official-Use-Only]

Good afternoon,

Please see attachments for the vulnerability assessment of IDIS.

If you have any questions please contact me.

Regards,

Rajpal Sidhu | ICT Security Analyst | ICT Security Team

Phone: +61 2 6207 9688 | Fax: +61 2 6207 6144

Shared Services | Chief Minister, Treasury and Economic Development Directorate | ACT Government

Callam Offices C2, Easty Street, Philip ACT | GPO Box 158 Canberra ACT 2601 | act.gov.au

Heland, Rebecca (Health)

From: Arsavilli, Dev
Sent: Tuesday, 31 July 2018 12:52 PM
To: O'Halloran, Peter (Health)
Cc: Cook, Sandra (Health); Duggan, Mark (Health)
Subject: IDIS Exec Management Meeting dot points - 31/07/2018 4:00pm [SEC=UNCLASSIFIED]
Attachments: RE: Order IDs - Review of yesterday's messages [SEC=UNCLASSIFIED]

Hi Peter,

Please see below dot points for the IDIS Exec Management Meeting today at 4:00pm.

Action Items:

1. [REDACTED] and [REDACTED] to provide an update to this group before next meeting on Agfa's plan on fixing the critical and high security vulnerable (pen testing) issues.
2. Dev A to discuss with Sandra and identify any option that can be identified to start data migration in to pre-prod while Agfa resolves the issues.
 - a. We have arranged a meeting with ICT Security and the Change Managers from SSICT and DSD to meet with Sandra on Wednesday 1 August at 16:00 hours.

Failed Security Assessment of Agfa Infrastructure:

- Yesterday during a schedule review meeting with [REDACTED] (Agfa PM) [REDACTED] joined and gave me some information on the Security Vulnerability Issues and Remediation:
 - [REDACTED] is still chasing Agfa Global to give him a plan and dates on the code fixes for the top two security issues
 - All the tickets have been logged and being investigated
 - As of yesterday [REDACTED] thinks that no resolution may be found by the go-live date and mentioned that these issues may be considered as improvements for next release for which he does not have a date yet.
 - Agfa are planning to propose a workaround to lock the environment from the internet except for a VPN access via ACTGOV network for Agfa Global to support the environment.
 - I asked them about the antivirus updates and they said that they can manage via the VPN connection.
 - [REDACTED] also mentioned that this will cause an issue for Engage Suite (the GP portal for images and results).
 - Engage Suite would need public internet access.
 - The project scope is to configure and setup the Engage suite ready for business to engage with external clients post go live.

Agfa Project Management and Resource Management:

- I spent around three hours this week helping [REDACTED] get up to speed with the project and Agfa activities.
- He is building a new schedule (not using [REDACTED] Schedule) to set all the Agfa project tasks, dependencies and pre-requisites and resourcing.
- So far [REDACTED] has picked up very well and my confidence levels are much better than before we all yet to see.
- I have another hour to this week to go through schedule with [REDACTED] and also have meetings set to do twice a week catch-up and progress discussions leading up to go-live.

eOrders work on Critical Path:

- Agfa have proposed that they would commit [REDACTED] to IDIS project three days this week (Monday to Wednesday).
- We did not receive any updates yesterday.

- Last week we sent them 11 items (attached) that they need to answer this week (we need a commitment date from Agfa on completing this work).
- MKM on the other hand are waiting for Agfa to complete the eOrders configuration.
 - They can't to do anything at this stage until Agfa configuration completion, which is now delayed.
 - They need five more days to complete and planning to do vendor testing next week.
 - Sarah from MKM is planning to come and sit with our testers to do this testing next week in the hope that Agfa configuration/development will be completed this week.

On-demand Image migration instructions for testing:

- Did not receive any document on this yet
- I reminded [REDACTED] yesterday (have been seeking this for approx. 4 weeks)
 - He has the document with him I believe but he has some questions and waiting for answers from the relevant Agfa resources still.

Via and Vitria Integration:

- In the last meeting [REDACTED] suggested that the resource will commence work on 14 August (Agfa received PO on 28 June)
- No further updates at this stage

BI Module for Testing:

- We need more clarity on this
 - In the last meeting [REDACTED] suggested that the BI module is ready and just needs a copy from its current environment to IDIS TEST
 - But [REDACTED] was suggesting mid-August planned work
- According to schedule we are planning to start SIT (System Integration Testing) 3 September
- As BI is not integration it can be tested in parallel to SIT but we need BI module fully tested and signed off before UAT which is scheduled to start on 17 September.

Other interface delays:

- No progress on Healthlink and faxing as yet.
- Testing team is ready to test these interfaces.

Kind Regards,

Dev

--
Dev Arsavilli | Project Manager

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

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

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

Heland, Rebecca (Health)

From: [REDACTED] (Health)
Sent: Tuesday, 24 July 2018 11:35 AM
To: Barrett, Scott (Health); [REDACTED] (Health)
Cc: [REDACTED] Alam, Azwer (Health); DSD Diagnostic Imaging Systems (Health)
Subject: RE: RIS Data Migration Activities [SEC=UNCLASSIFIED]

Hi Scott,

Attachments are currently being extracted for RIS data migration and Siemens had advised work being done on the following servers SIESDM2 and RIS-APP-1.

The extraction has been on for a couple of weeks now (work started on the 5th of July). I am not sure if the increased activities are a result of the same.

Regards,

[REDACTED]

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

From: Barrett, Scott (Health)
Sent: Tuesday, 24 July 2018 11:26 AM
To: [REDACTED] <[REDACTED]@act.gov.au> (Health) <[REDACTED]@act.gov.au>
 [REDACTED] (Health) <[REDACTED]@act.gov.au>
Cc: [REDACTED] Alam, Azwer (Health) <Azwer.Alam@act.gov.au>; DSD Diagnostic Imaging Systems (Health) <DSD.DIS@act.gov.au>
Subject: RIS Data Migration Activities

Hi All,

Are there any RIS data migration activities currently occurring/have occurred in the last few days?

We are noticing an unexpected CPU increase on the SLR DB and I was just wondering if data migration may be the cause.

We're about to raise this with Siemens support but it would be helpful if we can provide any associated information to them when we raise the job.

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

Integrated Diagnostic Imaging Solution (IDIS)

Data Migration Plan

DOCUMENT CONTROL

Version	Version	Created By	Description
00.01	1/5/2018	■■■■■■■■■■	Initial draft plan
00.02	24/7/2018	■■■■■■■■■■	Updates after Test Cycle 5 and go-live planning

RELATED DOCUMENTS

Version	Name	Endorsed By
V4.0	[AUS - ACT] Data Migration Strategy	Agfa
V00.08	IDIS Siemens RIS-PACS Data Migration Specification	
V0.4	RIS PACS Data Extraction Specifications	
V1.4	RIS_Data_Migration_CSV_Layout	Agfa
V1.2	DICOM Data Migration CSV Layout	Agfa
V1.0	Data Migration Summary	

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1. Purpose

The purpose of this document is to provide a high level plan for the migration of all relevant data from the current Siemens RIS and PACS to the replacement [REDACTED] Enterprise Imaging System (AHEI), to be known as the Integrated Diagnostic Imaging System (IDIS).

2. Background

In a project of the size and importance of the IDIS project, successful Data Migration from the incumbent system is a major component of a successful outcome. It also requires a significant commitment of resources from all involved parties to ensure success. To that end, ACT Health required early delivery of the Agfa Data Migration approach and also engaged an experienced data analyst resource very early in the project.

Agfa presented a Data Migration Strategy that was accepted by ACT Health (see related document '[AUS - ACT] Data Migration Strategy'). This plan was prepared based on that strategy and covers every phase of the Data Migration process, as follows:

- Discovery and Analysis of Siemens RIS and PACS.
- Engagement with Siemens to assist with migration activities.
- Design and development of:
 - Extraction routines from Siemens databases
 - Transformations of data from Siemens to Agfa formats where required.
- Preparation of Data Migration Specification (see related document 'IDIS Siemens RIS-PACS Data Migration Specification').
- Delivery of data to Agfa in accordance with Agfa file specifications (see related documents 'RIS_Data_Migration_CSV_Layout' and 'DICOM Data Migration CSV Layout').
- Rigorous testing of the end-to-end migration process

This document defines the approach that has been developed to ensure that all the above phases are successfully completed.

3. Approach

3.1. Discovery and Analysis

This phase is intended to allow a full analysis of the existing information system, to determine the quality of the data and any actions required to mitigate/remediate poor data. It

will also help identify the clinically relevant data that must be migrated. The findings from this analysis phase will be fully documented.

3.2. Siemens Engagement

Siemens will be engaged to assist with:

- Initial data analysis. This will include the provision of regular backups of the Production RIS and PACS databases to allow the Data Migration Analyst to fully understand the current data structures and content.
- Development of the Data Migration Specification, specifically the mapping of Siemens database fields to the relevant fields in the Agfa Data Migration files.
- Provision of sample extracts for testing Data Migration.
- Provision of the final Production data extracts.
- Support during system cutover.

3.3. Extraction

The ACT Health Data Analyst will work with both Siemens and Agfa to specify the set of data that will be extracted from the Siemens system in the correct format for loading into IDIS. For each round of testing, Siemens will provide a sample set of data to ACT Health extracted according to the known requirements, in the format specified by ACT Health.

After each round of testing, ACT Health will provide feedback to Siemens, who will adjust their extraction routines as necessary and provide an amended extract. This process will continue until the test migration into IDIS passes all test cases.

For Production migration, Siemens will:

- Provide an initial extract of all Production data, according to the finalised Data Migration Specification, to a specified date and time.
- Provide backups of the RIS and PACS databases as at the time of the extract.
- At an agreed time shortly before scheduled Production go-live, provide a Delta extract and backups. This is designed to minimise the set of data that must be migrated at go-live.
- At go-live, deliver a final delta extract and associated backups. These backups will be retained by ACT Health and used to provide an archive for historical reporting and query purposes.

3.4. Transformation

There will be a number of actions required to transform the Siemens data into the format required for successful loading into IDIS. These include:

- Verifying that the provided extracts are in the correct format for migration.
- Verifying patients with PMI. PMI will return a set of valid patient mrn's that will be used to produce a verified set of RIS patient data. PMI will also provide a full extract of active patients for seeding the IDIS patient database as part of the initial Production load.
- Converting various codes (e.g. marital status, gender, etc.) from the values used in the Siemens system to those used in IDIS.
- Verifying that all data relationships are valid, i.e. that orders, procedures and results are consistent within all the provided data.
- Producing audits of all manipulation performed on the extracts

3.5. Agfa Load

For each round of testing and the Production migration process, the transformed data will be provided to Agfa in a format that meets Agfa Data Migration specifications. This includes:

- Provision of the set of RIS data files, covering patients, procedures and reports. Additional information that could not be migrated at a data item level will be provided as attachments in an additional set of files.
- Provision of the set of PACS metadata files, covering Studies, Series and image references.

Agfa will use its Data Migration utilities to load the data into the relevant (Test or Production) system.

3.6. Testing

There will be a number of test cycles performed before the full set of Production data is loaded. These cycles will follow, as far as possible, the same process that will be used for Production. Only the initial full load of patient data from PMI will not be performed during the Test phase. Testing will verify not only that the data has been loaded and correctly linked with associated images, but also that it is correctly displayed within the target IDIS system.

3.7. Production Migration

Migration into the Production environment will start well before the full system go-live date. This is necessary to ensure that sufficient recent images have been moved from the Siemens image store to IDIS. There are approximately 330 million images in the existing system, covering almost ten years of digital imaging, and the intention is to ensure that a minimum of the most recent two years' images will be available prior to system go-live. To do this an initial load of all RIS and PACS data is necessary. The initial load also depends upon other factors, including:

- Formal accreditation of the Production infrastructure by ACT Health.

- Formal acceptance of the IDIS system configuration as built, and subsequent migration to the Production environment, including the initialisation of all underlying base data (providers, procedures codes, etc.).
- All ACTPAS and EDIS demographic interfaces fully developed, tested and migrated to ACT Health Production.

Once the above prerequisites have been completed, the approach will be:

- Finalise the schedule for:
 - Initial Production extract from Siemens
 - Pre-production delta extract
 - Final delta extract to coincide with go-live.
- Request Siemens to begin full Production data extracts, and provide RIS and PACS backups as at that time. The ACTPAS/EDIS – IDIS ADT message interfaces should be initialised at this time, and messages queued until the patient load is complete.
- Receive extract of all current active patients from PMI. Verify format and provide to Agfa to begin patient load. Once load complete (expected to take 3 – 4 days), perform spot verification checks and patient count audits.
- Receive Siemens deliverables:
 - Restore RIS and PACS backups to for Data Analyst use.
 - Send patient extract to PMI for verification and remediation.
 - Begin data transformation process.
 - Finalise remaining transformations and audit checks on receipt of remediated patient extract and associated documentation from PMI.
- Send all Data Migration files to Agfa.
- Agfa initiates RIS Migration. It is planned that this load will be done in time-bounded tranches, starting with all data for the most recent two years. This will allow DICOM image migration to begin earlier, given that the total expected time to load all RIS data will be between 20 – 25 days, but less than three for an initial two-year tranche. On completion, validate the loaded data and audit. Estimates for Production migration timeframes, based on the performance during the various test cycles, are included in the related document 'Data Migration Summary'.
- Agfa initiates DICOM image migration. Based on the most recent test cycle, image migration is expected to continue for 13 – 15 weeks, including across the go-live date, with the intent being to have at least the most recent two years' images loaded prior to go-live. Current estimates indicate that these will take approximately four weeks to load.

The delta migration will follow the same process as above, apart from the patient load. That will be a once-off operation at the commencement of migration, then kept in sync with ACTPAS through the active ADT message interface in pre-Prod. The final delta, at go-live, will be a similar, but much shorter, process as well.

4. Summary

This document should be read in conjunction with the listed related documentation. It provides the high-level approach to Data Migration, and all technical aspects have been included in the relevant specifications. In addition, there is no schedule provided here; the actions listed in this plan will be dependent on the final project schedule leading up to go-live.

Heland, Rebecca (Health)

From: [REDACTED] [REDACTED] <[REDACTED]>
Sent: Tuesday, 24 July 2018 11:45 AM
To: Barrett, Scott (Health); [REDACTED] [REDACTED] (Health); [REDACTED] [REDACTED] (Health)
Cc: [REDACTED] [REDACTED] Alam, Azwer (Health); DSD Diagnostic Imaging Systems (Health); [REDACTED] [REDACTED]
Subject: RE: RIS Data Migration Activities [SEC=UNCLASSIFIED]

Hello Scott,

Yes that is correct, we are in the process of generating a high volume of documents as part of the migration project. SIESDM2 was being used as the original share to dump these documents but we are now using the new share location provided to us by ACT Health.

Kind Regards,

[REDACTED]
 [REDACTED]

Siemens Healthcare Pty Ltd
 160 Herring Road
 Macquarie Park NSW 2113

Tel: +61 (0) 2 9491 5009

Mobile: [REDACTED]

Email: [REDACTED]

Internet: www.healthcare.siemens.com.au

SIEMENS
 Healthineers 

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From: [REDACTED] [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
Sent: Tue, 24 July 2018 11:35 AM
To: Barrett, Scott (Health); [REDACTED] [REDACTED] [REDACTED] [REDACTED]
 [REDACTED] [REDACTED] Alam, Azwer (Health); DSD Diagnostic Imaging Systems (Health)
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Hi Scott,

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The extraction has been on for a couple of weeks now (work started on the 5th of July). I am not sure if the increased activities are a result of the same.

Regards,

[REDACTED]

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

From: Barrett, Scott (Health)

Sent: Tuesday, 24 July 2018 11:26 AM

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

Cc: ██████████ <██████████@act.gov.au> Alam, Azwer (Health) <Azwer.Alam@act.gov.au>; DSD Diagnostic Imaging Systems (Health) <DSD.DIS@act.gov.au>

Subject: RIS Data Migration Activities

Hi All,

Are there any RIS data migration activities currently occurring/have occurred in the last few days?

We are noticing an unexpected CPU increase on the SLR DB and I was just wondering if data migration may be the cause.

We're about to raise this with Siemens support but it would be helpful if we can provide any associated information to them when we raise the job.

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

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CAUTION - This message may contain privileged and confidential information intended only for the use of the addressee named above. If you are not the intended recipient of this message you are hereby notified that any use, dissemination, distribution or reproduction of this message is prohibited. If you have received this message in error please notify Siemens Ltd. or Siemens Ltd. (NZ) by return email and delete the document.

Heland, Rebecca (Health)

From: [REDACTED] [REDACTED] (Health)
Sent: Tuesday, 24 July 2018 10:09 AM
To: [REDACTED] [REDACTED] (Health)
Subject: RE: Emailing: IDIS Data Migration Plan v0.02.docx [SEC=UNCLASSIFIED]
Attachments: IDIS Data Migration Plan v0.02 (002).docx

Hi [REDACTED]

The document looks fine, I have just added a few comments.

Regards,

[REDACTED]

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

-----Original Message-----

From: [REDACTED] [REDACTED] (Health)
Sent: Tuesday, 24 July 2018 9:36 AM
To: [REDACTED] [REDACTED] (Health) <[REDACTED]@act.gov.au>
Subject: Emailing: IDIS Data Migration Plan v0.02.docx [SEC=UNCLASSIFIED]

Your message is ready to be sent with the following file or link attachments:

IDIS Data Migration Plan v0.02.docx

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Heland, Rebecca (Health)

From: Griffiths, Jessica (Health)
Sent: Tuesday, 17 July 2018 12:17 PM
To: [REDACTED] (Health); [REDACTED] (Health);
Divvela, Venkat (Health)
Cc: Arsavilli, Dev
Subject: Data Migration Defects
Attachments: data migration Defects 160718.xlsx; Details for Defect # 5040; Details for Defect # 5053; Details for Defect # 5046; Details for Defect # 5030; Details for Defect # 5043; Details for Defect # 5028; Details for Defect # 5023

Hi All,

Please see attached a list of all the opened data migration defects. I have been through them all and added comments and re-assigned some back to Venkat to be closed.

📎 [REDACTED] there are 7 defects that I have highlighted red that I need your feedback back on, 3 of them are attachments that are viewable in EI but not scheduling for example pregnancy, finclass etc.

Thanks,
Jess

Jess Griffiths | RIS Admin Project Officer – Integrated Diagnostic Imaging Solution Project
Phone: (02) 61748730 | Email: Jessica.Griffiths@act.gov.au
Future Capability & Governance | Digital Solutions Division | Health Directorate | ACT Government
Canberra Hospital, Garran ACT | PO Box 11, Woden ACT 2606 | act.gov.au

Heland, Rebecca (Health)

From: Barrett, Scott (Health)
Sent: Tuesday, 17 July 2018 11:03 AM
To: Duggan, Mark (Health); Griffiths, Jessica (Health); Arsavilli, Dev; Lawrence, Natasha (Health); Hamilton, Stephen (Health); Wilson, Sam (Health); Bush, Leigh (Health); Saunder, Kate (Health); [REDACTED] (Health); Goodridge, Angela (Health); Hoolihan, Ashley (Health); Krause, Amy (Health); Menzies, Aimee (Health); Row, Darcy (Health); Cook, Sandra (Health); [REDACTED] [REDACTED] (Health); Crossley, Nick; Green, James (Health); Bevan, Ross (Health); Devries, Melissa (Health)
Subject: Ordered Studies
Attachments: Ord to Pt Called for as of 03072018 0924am.xlsx; Open Orders.xlsx

Hi All,

As discussed in today's meeting, please see the attached spreadsheets for details of ordered studies in Siemens

Spreadsheet 1 '**Ord to Pt Called for as of 03072018 0924am**' shows all orders, by modality, that are at either Ordered, Scheduled or Pt Called for status from 2014 onwards.

Spreadsheet 2 '**Open Orders**' shows all orders as above but not with the modality counts but with all the extra ordering information and clinical history.

Please feel free send me any questions you might have.

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



REGISTER OF PURCHASING DECISION (ROPD)

NonStock Requisition (REF No.):

1. General description of what is to be purchased: As part of the Integrated Diagnostic Imaging Solution (IDIS) Project, there is a requirement to have specialised resources to assist with data migration and integration activities.	
2. Purchases under \$25K only require one written quotation, once obtained please proceed to box 3. If over \$25K (3) written quotes must be obtained. If three quotes were obtained please proceed to box 3. If not please identify justification for not obtaining required number of quotes below {please tick or check appropriate box}	
NOTE: Director General Authorisation is required for orders over \$25K (GST Incl) where less than 3 quotes have been sourced.	
i. <input checked="" type="checkbox"/>	The required supplies are only available from the one supplier in Australia or only one supplier has the necessary technical expertise to supply and provide satisfactory back-up, spare parts, maintenance, support or warranty.
ii. <input type="checkbox"/>	For reasons of overall economy the requirement must be compatible with existing equipment or the area has standardised on a particular item after inviting tenders/quotations for the original equipment.
Other: _____	
3. Outline quotes obtained and justification for purchasing decision:	
Supplier: <u>Oakton</u>	Quote: <u>SC120781 (\$267,520.00 incl GST)</u>
Supplier: _____	Quote: _____
Supplier: _____	Quote: _____
Contract awarded to Supplier: _____	
Comments in support of purchasing decision: These two Oakton resources have been on the IDIS project since inception and hold a great deal of project-specific knowledge. <i>Selected from SS-ICT panel which arose from a RFT.</i>	
4. Source of Funding:	
1. Recurrent Expense Budget <input type="checkbox"/>	2. P&E Program <input type="checkbox"/>
3. Donation <input type="checkbox"/>	4. Special Purpose Funding <input type="checkbox"/>
Other: <u>Project - 66806 - Integrated Diagnostic Imaging Solution (IDIS) Project</u>	
5. Endorsements: Purchase Requests must be endorsed by relevant delegates (as appropriate). Refer to ACT Health Procurement Guideline for specific guidance on endorsements required:	
Biomedical Engineering: _____	Workplace Safety: _____
Information Management (IT): _____	Sterilising Services: _____
Property Management & Maintenance: _____	Infection Control: _____
Product Manager: _____	Other: _____

NOTE: Source Funding and Endorsements MUST be completed, otherwise the Purchase Request may not be processed.

6. Purchasing Approval:

Requesting Officer: Dev Arsavilli Signature: [Signature] Date: 13/7/18
 Authorising Officer: Peter O'Halloran Signature: [Signature] Date: 17/7/2018

NOTE: General Authorisation is required for orders over \$25K (GST Incl) where less than 3 quotes have been sourced.

ACT Health Supply Services USE ONLY

Purchasing Officer: _____ Signature: _____ Date: / /

NOTE: This document is to be attached to the supplier quotations and a non-stock requisition before being sent to the Authorising Officer and ACT Health Supply Services

PURCHASE REQUEST FOR NONSTOCK GOODS AND SERVICES (THIS IS NOT AN OFFICIAL PURCHASE ORDER)

Areas indicated with an Asterisk * to be completed by the Requesting Officer.

* What is the purpose of this Request: Please Tick/Check One: Goods Services Consultancy

Branch/Section/Ward/Department *		Delivery Address *	
Digital Solutions Division		Building 1, Lv 10 Canberra Hospital, Garran	
Integrated Diagnostic Imaging Solution (IDIS) Project		ACT 2606	
Request Date *	14/7/2018	Delivery Point *	Y



ACT
Government
Health

Supply Services DelDkt No :

Qty Req'd	Issue/UOM	Part/Cat No.	Item Description (per the detail obtained from the Supplier Quotation)	Dangerous Goods (Y/N)	Cold Freight (Y/N)	Tax Name	Est Unit Cost (excl. Tax)	Tax Amount
1			Project Services Integration & Data Migration Analysis	N	N	GST	243,200	24,320.0
							* Est. Total (incl. Tax) \$:	267,520.00

Entity Code	Cost Centre	Natural Account	Project Code	Agency Specific	Trading Code
600	68806	712102	21437	9999	99

Supplier Details *	
Oakton Services Pty Ltd UNIT 2 45 WENTWORTH AVENUE KINGSTON ACT 2604 AUSTRALIA	
QUOTE REF *	SC120718-01
OTHER REF *	<input type="text"/>

Requesting Officer's Name (Printed) *	Telephone Number *
Dev Arsavilli	02 6174 8729
Email Address *	Dev.arsavilli@act.gov.au
Certificate by Authorised Officer	
I certify that:	
(i) under the Financial Management Act (1996), I am authorised by the Chief Executive Officer of the Department/Authority to make this commitment and approve the total value of this requisition;	
(ii) funds are available and expenditure is essential; and	
(iii) the financial coding is correct.	
Authorised Officer's Signature	Authorised Officers Name (Printed)
	Peter O'Halloran
Authorised Officer's Position Title	Position Number
Chief Information Officer	E00856

Purchasing Officer's Notes:
Purchase Order No.: H

ACT Government Guidelines for Purchasing:
If the value of this Requisition is:

- Under \$25,000, One written quote required;
- \$25,000 to under \$200,000, A minimum of three written quotes required, or Chief Executive (CE) approval where less than 3 quotes;
- \$200,000 and above, Must Invite Public Tender, or Chief Executive (CE) approval where a restricted/single select tender process is undertaken.

* Please Ensure Supplier Quotation is Valid.

Please Send Your Purchase Request and ALL Relevant Documentation by FAX: 62050806 or via Email To: acthealthsupply@act.gov.au



DIGITAL SOLUTIONS DIVISION

CLEARANCE FORM

TRIM Reference No.

Subject/Title Approval of Schedule 5 from Consult IT Panel to extend IDIS Data Migration and Integration resources until Go-Live in October 2018

Action requested FOR DIRECTOR CLEARANCE FOR CIO CLEARANCE
 FOR SIGNATURE FOR CLEARANCE

Action officer Name: Dev Arsavilli Title: IDIS Project Manager Ph: 61748729

Date submitted 13/07/18 **Due date:** 20/07/18

Reason for urgency (if applicable)

Summary (No more than 150 words)

Oakton have provided specialist resources to assist in the Data Migration and Integration components of the IDIS project. An extension of these resources is required to assist through until Go-Live to oversee the delivery of Data Migration and Integration aspects of the project.

A Schedule 4 was provided to Oakton on the 12/07/18 for provision of a quote to extend these resources from July to October 2018. This extension is required as the original purchase order only covered these resources until June 2018.

Oakton provided back a proposal for the provision of these two specialised resources. A Schedule 5 has been drafted with the total costs for these services for signature by the CIO.

The IDIS project has budgeted the following for resources in this area:

	Forecasted salaries				Total
	July	August	September	October	Ex GST
Sunitha	██████	██████	██████	██████	██████
██████	██████	██████	██████	██████	\$██████
					\$224,576

The Schedule 5 quote is \$243,200 for 4 full months but the project will only require 3 months and 2 weeks of resourcing so the Schedule 5 has been drafted with an up to the maximum value of \$243,200.

Senior Manager clearance APPROVED Name: Dev Arsavilli
Signature: *Dev* Date: 13/7/18

By approving this document you are approving that the document is complete, that you support the recommendations and that it is contextually correct, grammatically correct and spell checked

Finance Manager clearance (if financial implications are more than \$20,000) APPROVED Name: ██████ Liu
Signature: *Tony Liu* Date: 16/07/18

Director Clearance Delegation of up to \$100,000 including GST APPROVED Sandra Cook Peter McNiven
Signature: *Sandra* Date: 16/7/18

Senior Manager, Office of the CIO APPROVED Name: Rebecca Heland
Signature: *Rebecca* Date: 16/7/18

CIO clearance

Delegation of up to \$250,000 including GST

RECEIVED
By Louise Kael at 8:39 am, Jul 17, 2018

- APPROVED
- APPROVED WITH CHANGES

Peter O'Halloran

- PLEASE DISCUSS
- RESUBMIT

Signature: 
Date: 17 July 2018

Comments

Resubmit Details

Date:

Comments:



ACT
Government

Chief Minister, Treasury and
Economic Development

Consult IT Panel

SCHEDULE 5 - Work Order

WORK ORDER FOR <i>Integration & Data Migration Analysis IDIS Project</i>				
NOTE: This Work Order is issued by the Territory in accordance with the terms and conditions of the ICT Consulting and related Business Services Agreement Ref C2009.234 which the Territory and the Contractor entered into on 24 November 2009 and any additional terms and conditions specified in this Work Order.				
1	Date:	13 July 2018		
2	ID of Work Order:	SC130718-01		
3	Contractor Name:	Oakton Services Pty Ltd		
4	Specified Personnel Name:	██████████ and ██████████		
5	Specified Services: (Scope of Work, designated role and specific tasks to be performed)	<p>Duty Statement: ACT Health is seeking a service of multiple skill sets to undertake a work package related to data migration, integration, and technical solution architecture.</p> <p>The work package is required for the RIS-PACs replacement project to provide resources that can provide guidance over the delivery of data migration and integration points. Oakton resources have provided services in the analysis space on this already and continuation of these resources to guide the delivery of these elements of the project are required.</p>		
6	Services: (details of the relevant Services to be delivered)	Technical Analysis Data Analysis Integration Analysis Architecture & Solutions Design		
7	Limitation of Contractor's Liability for this Work Order: (if applicable)	N/A		
8	Additional Terms and Conditions applicable to this Work Order:	Contract duration – July 2018 to October 2018		
9	Applicable Third Party Warranties:	N/A		
10	Warranty Period:	N/A		
11	Remote Vendor Access Policy: (if applicable)	N/A		
12	Delivery Location:	Level 10 Building 1, The Canberra Hospital		
13	Total Cost:	Up to a value of \$243,200 (exclusive of GST)		
14	Breakdown costs associated with total cost:	Specified Personnel resourcing:		
		Name	Days required	Daily rate (ex GST)
				Total cost (ex GST)

		██████████	76	██████████	██████████
		██████████	76	██████████	██████████
15	Additional Service Levels: (if applicable)	N/A			
16	<p>Other Requirements: (if applicable)</p> <p>SME – A regional SME is defined as a small to medium enterprise with up to 200 FTE employees based within the South East Region of Councils (SEROC)</p> <p>The ACT Government Regional SME Policy as follows: To support regional SME's the Territory will weight regional SME's or respondents who subcontract to regional SME's through an evaluation criterion. A regional SME is defined as a small to medium enterprise with up to 200 Full Time Employees (FTE) based within the SEROC.</p> <p>The RFQ asked respondents to confirm whether they are a regional SME or, alternatively, if not a regional SME, whether or not the respondent intends to subcontract a component of the contract to a regional SME in the event they are selected as the preferred supplier.</p> <p>It is anticipated that no subcontracting will be necessary to meet the requirements of the RFQ.</p> <p>When the responses to the RFQ were evaluated, the following applied: A 5% weighting if the respondent is a regional SME.</p>	N/A			
17	Work Order Term:	From	16/07/2018	To	31/10/2018
18	Deliverables by Specified Personnel:	<p>Technical Integration Analysis</p> <ol style="list-style-type: none"> 1. Interface analysis (approx. 38 systems) 2. Guidance of the delivery of the integration required <p>Data Migration</p> <ol style="list-style-type: none"> 1. Develop data specification current state in preparation for data migration 2. Guidance and oversight over the data migration processes 			
19	Directorate Contact:	<p>Sandra Cook Sandra.cook@act.gov.au 02 6205 1451</p>			

20	Approvals for insurance (and communications) costs: <i>(as applicable)</i>	Not Used
	Approved by Financial Delegate: Signature:  Name: <u>PETER O'HALLORAN, CIO</u> Date: <u>17 JULY 2018</u>	Approved by Contractor: Signature: Name: Date:
	Approved by SS ICT – Contracts and Licensing Manager: Signature: Name: Date:	

Contractor must not commence the provision of these Services until both the Financial Delegate AND SS ICT- Contracts and Licensing Manager has signed a copy of this Schedule 5, and has been provided to the Contractor.



ACT
Government

Chief Minister, Treasury and
Economic Development

Consult IT Panel

SCHEDULE 4 - REQUEST FOR QUOTATION (RFQ) PRESCRIBED FORM

REQUEST FOR QUOTATION FOR <i>Integration & Data Migration Analysis</i>	
NOTE: This Request for Quotation is requested of the Contractor by the Territory in accordance with the terms and conditions of the ICT Consulting and related Business Services Agreement Ref C2009.234 which the Territory and the Contractor entered into on 24 November 2009 and any additional terms and conditions specified in this Request for Quote.	
Name of Contractor:	Oakton Services Pty Ltd
RFQ No:	SC120718-01
Date of Issue:	12 July 2018
Closing Date for lodgement of response by Contractor:	COB 13 July 2018
Contact details of manager/project manager of this RFQ:	Sandra Cook sandra.cook@act.gov.au 02 6205 1451
1	Date of Submission: To be inserted by Contractor
2	Specified Personnel Name: ██████████ and ██████████
3	<p>Specified Services: (Scope of Work, designated role and specific tasks to be performed)</p> <p>Duty Statement: ACT Health is seeking a service of multiple skill sets to undertake a work package related to data migration, integration, and technical solution architecture.</p> <p>The work package is required for the RIS-PACs replacement project to provide resources that can provide guidance over the delivery of data migration and integration points. Oakton resources have provided services in the analysis space on this already and continuation of these resources to guide the delivery of these elements of the project are required.</p>
4	<p>Services: (details of the relevant Services to be delivered)</p> <p>Technical Analysis Data Analysis Integration Analysis Architecture & Solutions Design</p>
5	Limitation of Contractor's Liability: N/A
6	Additional Terms and Conditions applicable to this RFQ: N/A
7	Applicable Third Party Warranties: N/A
8	Warranty Period: N/A
9	Remote Vendor Access Policy: (if applicable) N/A
10	Delivery Location: Required on site at ACT Health Canberra Hospital Woden campus and other locations within ACT offices as required.
11	Total Cost: Contractor to provide
12	Breakdown costs associated with total cost: Hourly rate / daily rate (ex GST):

13	Additional Service Levels: (if applicable)	N/A
14	Other Requirements: (if applicable)	N/A
15	Expected Work Order Term:	July 2018 – October 2018
16	Deliverables by Specified Personnel:	<p>Technical Integration Analysis</p> <ol style="list-style-type: none"> 1. Interface analysis (approx. 38 systems) 2. Guidance of the delivery of the integration required <p>Data Migration</p> <ol style="list-style-type: none"> 1. Develop data specification current state in preparation for data migration 2. Guidance and oversight over the data migration processes
17	Directorate Contact:	<p>Sandra Cook sandra.cook@act.gov.au 02 6205 1451</p>
18	Approvals for insurance (and communications) costs: <i>(as applicable)</i>	Not Used
	<p>Approved by Requesting Officer:</p> <p>Name: Peter O'Halloran</p> <p>Date:12 December 2016</p>	<p>Approved by Contractor:</p> <p>Signature:</p> <p>Name:</p> <p>Date:</p>

July 2018

ACT Health

SC120718-01

PROJECT SERVICES INTEGRATION & DATA MIGRATION ANALYSIS

oakton

A DIMENSION DATA COMPANY

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[Redacted text block]

- [Redacted list item]

- [Redacted list item]

- [Redacted list item]

- [Redacted list item]

- [Redacted list item]

- [Redacted list item]

[Redacted text block]

CONTACT



DAKTON SERVICES PTY LTD ABN 31 100 103 268
MELBOURNE HEAD OFFICE LEVEL 8 271 COLLINS STREET MELBOURNE VIC 3000 AUSTRALIA T +61 3 9617 0200 F +61 3 9621 1951
SYDNEY LEVEL 19, 46 CLARENCE STREET SYDNEY NSW 2000 AUSTRALIA T +61 2 9923 9800 F +61 2 9929 6731
CANBERRA UNIT 2 45 WENTWORTH AVENUE KINGSTON ACT 2604 AUSTRALIA T +61 2 6230 1997 F +61 2 6230 1919
BRISBANE LEVEL 22, 141 QUEEN STREET BRISBANE QLD 4000 AUSTRALIA T +61 7 3136 2900 F +61 7 3136 2999
PERTH LEVEL 2, 160 ST GEORGES TERRACE PERTH WA 6000 AUSTRALIA T ++61 8 9222 8300
HYDERABAD KRISHI-E 8-2-293 PLOT 499 ROAD 38 JUBILEE HILLS 500033 HYDERABAD INDIA T +91 40 23552694 VOIP: +61 3 9617 0294

Heland, Rebecca (Health)

From: [REDACTED] <[REDACTED]>
Sent: Friday, 13 July 2018 3:30 PM
To: [REDACTED] (Health)
Cc: [REDACTED] (Health); [REDACTED]
Subject: [AUS - ACT] DICOM Header update [SEC=UNCLASSIFIED]

Hi [REDACTED]

See below in red

Kind Regards,

[REDACTED]
 T [REDACTED]

→ **Holiday alert:** July 27th – August 15th

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

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

From: [REDACTED] (Health) [mailto:[REDACTED]act.gov.au]
Sent: Friday 13 July 2018 7:20
To: [REDACTED] <[REDACTED]>
Cc: [REDACTED] <[REDACTED]> (Health) <[REDACTED]>
Subject: RE: [AUS - ACT] DICOM Header update [SEC=UNCLASSIFIED]

Thanks [REDACTED]

For scenario 4, when the study is identified as a study needing a header update, is there a way of customising this header update?

[KEV] No, we only 'know' this is the case once the study is in EI, so only a study fixup is a solution at that point. These studies will fail the AMT validation, so will be on the list I provide in the end.

Is there a way to check if the active PID provided in the StudyUID_PatientID.xls file is still active or has it been merged through a live ADT message?

[KEV] No, we don't have tools that can do that

Could EI be used to identify PID1 as merged and PID2 as active and update the Study header to PID2?

[KEV] Not that I'm aware of

I am happy that the first 3 scenarios work as expected, Scenario 4 should be a rare occurrence.

As long as these studies are raised as exceptions and there is a manual way of matching the orders to the studies post migration, I am happy to proceed, with this identified as a known migration issue.

Thanks,

[REDACTED]

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

From: [REDACTED] [mailto:[REDACTED]]
Sent: Friday, 13 July 2018 2:57 PM

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

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

Subject: [AUS - ACT] DICOM Header update [SEC=UNCLASSIFIED]

Hi [REDACTED]

I have added my comments below in red.

Kind Regards,

[REDACTED]
T [REDACTED]

→ Holiday alert: July 27th – August 15th

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

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

From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]

Sent: Friday 13 July 2018 3:46

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

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

Subject: RE: [AUS - ACT] DICOM Header update [SEC=UNCLASSIFIED]

Thanks [REDACTED]

I think I understand the process at your end, but I am still unsure of the outcomes for some of the scenarios.

I have put together all the different merge scenarios that I can think of and the possible outcomes.

Could you please go through them and verify the same.

Scenario 1

Extract has order against PID 1, no merges through live feed, Source PACS Study Image header has PID 1

Outcome: Order and Study in EI both migrated against PID 1

[KEV] Correct, scenario without merge

Outcome: Order and Study in EI match

Scenario 2 (tested and passed, but the test scenario does not fully replicate the scenario in production. This is because a live ADT merge message in test will not alter the Study image header in source PACS, but it will in production)

Extract has order against PID 1, PID 1 merged to PID 2 through live feed, Source PACS Study Image header has PID 2

Outcome: Order in EI migrated against PID 2

But using the information from your processing steps below, I am unsure of the outcome for the Study migration.

AMT triggers C-Move for the study, order has PID 1 in AMT, but Study Image header has PID 2. This study will not be included in StudyUID_PatientID.xls, as this merge has occurred through live feed after extraction, so no visibility of the merge at the time of extraction.

The PID in the image header (PID 2) actually matches the PID in EI (PID 2), so if the above C-Move triggers successfully, study should match order and no duplicates should be created in EI

[KEV] This scenario was indeed tested and will work on EI, as long as the PID matches between order and study on EI the match is OK.

This is the default scenario for how merges show work on RIS/PACS.

Outcome: Order and Study in EI match

Scenario 3

Extract has order against PID 1, no merges through live feed, Source PACS Study Image header has PID 3 (Study images are on a previous merged MRN, as this is a case of unsuccessful merges in Siemens)

Outcome: Order in EI migrated against PID 1

AMT triggers C-Move for the study, order has PID 1 in AMT, but Study Image header has PID 3. This study will be included in StudyUID_PatientID.xls, the image header should therefore be updated with active PID (PID 1) provided in the file.

The PID in the image header (PID 1 after header update) matches the PID in EI, so Study migrated as expected against PID 1.

[KEV] Correct, study will be send over AMT for header update and will arrive on EI with the correct PID.

Outcome: Order and Study in EI match

Scenario 4

Extract has order against PID 1, PID 1 merged to PID 2 through live feed, Source PACS Study Image header has PID 3 (Study images are on a previous merged MRN, as this is a case of unsuccessful merges in Siemens)

Outcome: Order in EI migrated against PID 2

Unsure of the outcome for the Study migration (this is the scenario that we have been discussing in this email chain)

AMT triggers C-Move for the study, order has PID 1 in AMT, but Study Image header has PID 3. This study will be included in StudyUID_PatientID.xls, but the active PID specified in the file (PID 1) is not active any more as this has been merged to PID 2 through a live ADT message. The image header will therefore be updated PID 1, not PID 2.

The PID in the image header (PID 1 after header update) does not match the PID in EI (PID 2), duplicate EI orders created for the same study.

[KEV] Correct, order and study don't match when the study arrives on EI.

Outcome: Order and Study don't match on EI

I apologise for repeating my questions regarding the same issue.

But the fact that some of the scenarios cannot even be replicated in the test environment makes it all the more essential to understand how the system would behave in each of the above scenarios.

So could you please verify the outcomes for me?

Thanks,

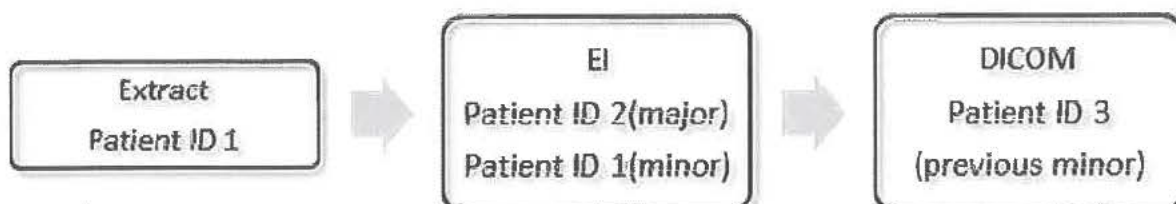
██████████

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

From: ██████████ [mailto:██████████]
Sent: Thursday, 12 July 2018 6:12 PM
To: ██████████ (Health) <██████████@act.gov.au>
Cc: ██████████ <██████████> Deplae <██████████>
Subject: [AUS - ACT] DICOM Header update [SEC=UNCLASSIFIED]

Hi ██████████

See my comments below



The Extract has the orders and Studies against PID 1.

The Extract also provides a file (StudyUID_PatientID.xls) with studies that need a DICOM Header Update, Example – Image header for the above Study to be updated from PID 3 to PID 1

PID 1 is merged to PID 2 through a live ADT message

The orders and Studies are migrated against PID 2 in EI

[KEV] The ORDERS and STUDIES are never migrated at the same point in time.

So, here we have 2 options:

- The ORDER and STUDY has been migrated to EI → The PID merge will happen on all data in EI, so all should be good.
- Only the ORDER has been migrated to EI → The PID merge will happen on all data in EI, so the ORDER will be 'linked' to the new PID 2 (EI will remember PID1 as old PID)

The details in EI are then used to trigger the move of the DICOM image.

[KEV] This is incorrect, the C-MOVE is triggered by AMT, the information in AMT is static and only based on the provided extracts

If the PID in EI (PID 2) is different to the PID on the DICOM header (PID 3) – Look up the StudyUID_PatientID.xls file to check if this DICOM image needs an update

[KEV] See my comment above.

The C-MOVE is triggered by AMT, only when the StudyUID has an entry in the StudyUID_PatientID.xls file, the study is send

over the AMT server, to update the PID in the header and forward the study to EI. In this example, the update was on the

live feed, so unknown to AMT.

So at this point, in the case where 'Only the ORDER has been migrated to EI'.

→ We have the ORDER in EI with PID2 (still knowing the PID1 was the old PID)

→ We trigger a move for the STUDY from SOURCE to EI directly and the header has PID3

→ No match = double line/order in EI

My understanding of the issue,

The StudyUID_PatientID.xls references PID 1 as the active Patient ID for the DICOM update, but PID 1 has now been merged to PID 2.

But instead of looking up for the active PID in the StudyUID_PatientID.xls, could you not look into EI for the correct Patient ID (PID 2), the patient ID in the DICOM header will then match the Patient ID in EI

Kind Regards,

[Redacted signature]

→ **Holiday alert: July 27th – August 15th**

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

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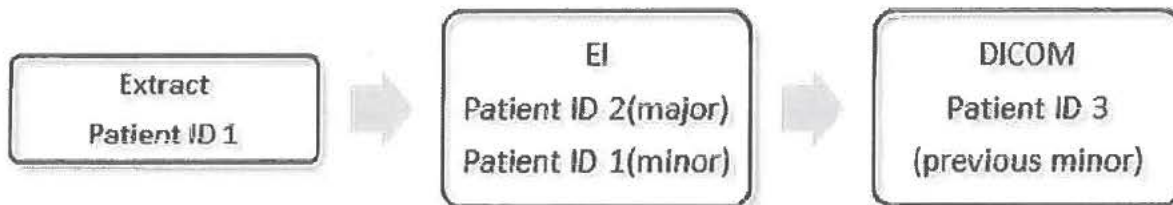
Click on link to read important disclaimer: <http://www.agfahealthcare.com/maildisclaimer>

From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
 Sent: Wednesday 11 July 2018 5:22
 To: [REDACTED] <[REDACTED]>
 Cc: [REDACTED] <[REDACTED]>
 Subject: DICOM Header update [SEC=UNCLASSIFIED]

Hi [REDACTED]

Even after our discussions from yesterday's meeting, I am still unclear about the exact reasons why DICOM header updates fail to happen as expected.

I have listed below, my understanding of how the migration works. Could you please verify?



The Extract has the orders and Studies against PID 1.

The Extract also provides a file (StudyUID_PatientID.xls) with studies that need a DICOM Header Update, Example – image header for the above Study to be updated from PID 3 to PID 1

PID 1 is merged to PID 2 through a live ADT message

The orders and Studies are migrated against PID 2 in EI

The details in EI are then used to trigger the move of the DICOM image.

If the PID in EI (PID 2) is different to the PID on the DICOM header (PID 3) – Look up the StudyUID_PatientID.xls file to check if this DICOM image needs an update

My understanding of the issue,

The StudyUID_PatientID.xls references PID 1 as the active Patient ID for the DICOM update, but PID 1 has now been merged to PID 2.

But instead of looking up for the active PID in the StudyUID_PatientID.xls, could you not look into EI for the correct Patient ID (PID 2), the patient ID in the DICOM header will then match the Patient ID in EI

This is my understanding of the process, please correct me if I am wrong.

Thanks,
 Sunitha

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

From: [REDACTED] [mailto:[REDACTED]]
 Sent: Monday, 9 July 2018 4:37 PM
 To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]>
 Cc: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] (Health) <[REDACTED]>
 <[REDACTED]@act.gov.au>; Mandapati, Sirisha (Health) <Sirisha.Mandapati@act.gov.au>; Divvela, Venkat (Health) <Venkat.Divvela@act.gov.au>; [REDACTED] <[REDACTED]>
 Subject: [AUS - ACT] Data extract for Patient Merge test [SEC=UNCLASSIFIED]

Hi [REDACTED]

- But indeed, with a list of new PIDs the DICOM migration can update these DICOM headers. That would solve the problem and was tested before, so that is OK. The sheet with Study UUIDs and active Patient IDs (StudyUID_PatientID.xls) was provided for DICOM header update with the small sample extract provided for merge testing.

Was this update implemented for this round of testing?

[KEV] This was not done during the merge test, but we know from previous tests that this works

- In any case, where the merge would be send to EI and not to the Siemens PACS and the new PID is not somewhere on the provided lists, these will result in the double lines in EI as you can see from the last test. These types of studies will be reported on the migration 'Exception list' as 'migrated, failed validation'.
If EI can identify orders and procedures to be migrated against the right PID (in scenarios where the migrated data is still referencing the merged MRN), can't we do something similar to the DICOM header update too?
Is there a way for your code to check if the PID provided in the list (StudyUID_PatientID.xls) is active, if not, can your code not find the active PID for the same? I understand that this adds to the complexity of the code needed for DICOM update, but my understanding is that the system should have all the required information needed for the DICOM header update.
Could you please analyze if this is a possible option?

[KEV] EI only makes that link for the HL7 side, I did test this before sending out my response just to be sure. So on the DICOM side these assumptions are not made, the data needs to match the HL7 order, if it doesn't fully match, manually actions will be needed.

The migration tools have a static database, once everything is setup, no real time checks are possible. We don't seem to have situations where the merges would be executed over ADT and not forwarded to the connected PACS systems.

Kind Regards,

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

→ Not available: 6th July
→ Holiday alert: July 27th – August 15th

██████████ NV, ██████████
<http://www.agfahealthcare.com>
<http://blog.agfahealthcare.com>

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

From: ██████████ (Health) [mailto:██████████@act.gov.au]
Sent: Monday 9 July 2018 2:47
To: ██████████ <██████████@act.gov.au>; ██████████ <██████████@act.gov.au>
Cc: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; ██████████ (Health) <██████████@act.gov.au>; ██████████ <██████████@act.gov.au>; ██████████ Mandapati, Sirisha (Health) <Sirisha.Mandapati@act.gov.au>; Divvela, Venkat (Health) <Venkat.Divvela@act.gov.au>
Subject: RE: [AUS - ACT] Data extract for Patient Merge test [SEC=UNCLASSIFIED]

Thanks ██████████
Please see my comments below.

██████████
Could you please look into the issues identified in Scheduling?

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

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

From: [REDACTED] [mailto:[REDACTED]@act.gov.au]
Sent: Friday, 6 July 2018 5:13 PM
To: [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>
Cc: Arsavilli, Dev <Dev.Arsavilli@act.gov.au>; [REDACTED] (Health) <[REDACTED]@act.gov.au>; [REDACTED] Mandapati, Sirisha (Health) <Sirisha.Mandapati@act.gov.au>; Divvela, Venkat (Health) <Venkat.Divvela@act.gov.au>; [REDACTED] <[REDACTED]@act.gov.au>
Subject: RE: [AUS - ACT] Data extract for Patient Merge test [SEC=UNCLASSIFIED]

[REDACTED]

The Scheduling part is handled by my colleague [REDACTED] (in CC).

I have a day of today and will have a close look on Monday.

- But indeed, with a list of new PIDs the DICOM migration can update these DICOM headers. That would solve the problem and was tested before, so that is OK. The sheet with Study UIDs and active Patient IDs (StudyUID_PatientID.xls) was provided for DICOM header update with the small sample extract provided for merge testing. Was this update implemented for this round of testing?
- In any case, where the merge would be send to EI and not to the Siemens PACS and the new PID is not somewhere on the provided lists, these will result in the double lines in EI as you can see from the last test. These types of studies will be reported on the migration 'Exception list' as 'migrated, failed validation'.
 If EI can identify orders and procedures to be migrated against the right PID (in scenarios where the migrated data is still referencing the merged MRN), can't we do something similar to the DICOM header update too?
 Is there a way for your code to check if the PID provided in the list (StudyUID_PatientID.xls) is active, if not, can your code not find the active PID for the same? I understand that this adds to the complexity of the code needed for DICOM update, but my understanding is that the system should have all the required information needed for the DICOM header update.
 Could you please analyze if this is a possible option?

Kind Regards,

[REDACTED]

→ Not available: 6th July
 → Holiday alert: July 27th – August 15th

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

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

From: [REDACTED] (Health) [mailto:[REDACTED]@act.gov.au]
Sent: Friday 6 July 2018 4:23
To: [REDACTED] <[REDACTED]@act.gov.au>
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Subject: RE: [AUS - ACT] Data extract for Patient Merge test [SEC=UNCLASSIFIED]