



COMMERCIAL IN CONFIDENCE

Secure Real Time Platform Business Requirements

Version 6.6

Date: 22 September 2020



1 Document control

1.1 Version history

Date	Version	Author	Description of change
08/04/2015	1.0 to 5.1	s 9(2)(a)	s6(c)
04/06/2020	6.0		As agreed with s9(2)(a), this new version will have information/sections relating to prior releases stripped out and the document will be refocused to only describe current state and proposed target state when BCU changes have been implemented.
11/06/2020	6.1		Change summary: s9(2)(a)
12/06/2020	6.2		Incorporated feedback from s9(2)(a)
25/06/2020	6.3		Accepted tracked changes in the document.
10/07/2020	6.4		Incorporated updates based on the solution proposal included in the Argonaut SOW.
28/08/2020	6.5		Accepted existing tracked changes in the document. Applied changes to reflect documents now being retrieved directly from AMS.
22/09/2020	6.6		Removed remaining comments in the document.



1.2 Approvals

Name	Approval type	Role	Date	Signature*
s 9(2)(a)		Manager – Identity Services		

1.3 Reviewed by

The following people have a formal quality assurance role with respect to this document.

Name	Version	Role	Date	Signature
s 9(2)(a)	V6.0, V6.1	Senior User and Analyst		
	V6.1	Manager DSD		
	V6.1	Solution Architect		
	V6.1	Business Analyst		
	V6.1	BCU Migration Workstream Lead		
	V6.1	BCU Delivery Manager		

1.4 Consulted

The following people have been consulted in the production of this document (list excludes approvers and reviewers).

Name	Version	Role	Date
Argonaut	V6.1		
NEC	V6.1		

1.5 Distributed to

The following people / groups have been sent a copy of this document (list excludes approvers, reviewers, and consulted).

Name	Version	Role	Date
DXC	V6.1		



s 9(2)(a)	V6.1		
	V6.1		
Datacom			
s 9(2)(a)	V6.1	IPE Project Manager	



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3 Introduction

3.1 Purpose

The purpose of this document is to sufficiently define requirements that address the 1699 Secure Real Time Platform project business problem and opportunity so that a solution vendor can design and cost a solution.

3.2 Background

s6(c)



3.3 Project objectives

The outcomes sought from processing high information volumes s6(a)
include:

- Improved integrity of New Zealand's immigration system resulting in:
 - o Improved public safety through earlier detection of persons using false identities to hide criminal histories or terrorist backgrounds; and
 - o Improved international reputation through maintaining parity and interoperability with modern immigration capabilities and ability to participate in security arrangements.
- INZ cost savings resulting from:
 - o Earlier detection of fraudulent identities and applications;
 - o Prevention of fraudulent secondary migration¹; and

¹ s 6(c)





- Prevention of fraudulent use of public services (e.g. benefit payments, health care, legal aid, public housing, police, courts and custody costs).



- Enhanced INZ ability to:
 - Detect and analyse immigration trends

3.4 Benefits

Implementing SRTP will extend the limited successes already achieved with the manual process, with benefits including reducing costs associated with deportation and/or asylum claims, fewer incidents of migrant exploitation, and allocating limited refugee places to genuine applicants and all associated secondary migration. There will also be cost savings related to the wider NZ Inc. through health, social and legal services which are not quantified in this business case.

3.4.1 Border

When a traveller arrives in New Zealand, Border officials may be required to make a decision on whether or not to grant entry to New Zealand. At present they fingerprint only passengers that they interview based on risk targeting, NZ Customs referrals, border asylum claimants and a selected group of Compliance criminal deportees.

Border are able to submit the fingerprints s6(a) , s6(c)

[Redacted text block]

s 6(c)

[Redacted text block]

3.4.3 Biometric enrolment

INZ plans to commence enrolling biometrics for a subset of visa applicants via biometric enrolment centres (3rd parties) some time in the future. s6(c)

[Redacted text block]

3.4.4 Front line services / benefits to the tax payer

Delivery of this project will enable INZ staff to receive timely responses to fingerprint match requests which will enable more efficient and informed visa decisions and enhance INZ's ability to protect the integrity and security of the NZ immigration system.



3.5 Definitions

The table below contains definitions of key terminology used in this document.

Term	Definition
AMS	Application Management System. INZ's primary system used to manage immigration activities for NZ.
BCU	Biometric Capability Upgrade project. The subproject, within the overall IDme Resize project, tasked with upgrading INZ's biometric capabilities, with the exception of IPE capabilities (see definition of IPE below).
s6(	s6(a)
s6(a)	s6(a)
IDme	INZ's current identity management system
IDme(NEC)	INZ's next generation identity management system, intended to replace IDme.
IGMS	Immigration Global Management System. A term used to describe a collection of INZ sub-systems delivered by Datacom. The subsystems include: IDme, ImmigrationONLINE, and DMS.
INZ	Immigration New Zealand
IPE	In Person Enrolment project. The subproject, within the overall IDme Resize project, tasked with upgrading INZ's In Person Biometric Enrolment capabilities.
s6(	s6(a)
s6(a)	s6(a)
s6(a)	s6(a)

3.6 High Level Assumptions

The following assumptions have been made with respect to these requirements.

Assumption	Impact if not validated
s 6(c)	



Assumption	Impact if not validated
s 6(c)	

3.7 NZ SRTP Message specifications

s6(a)





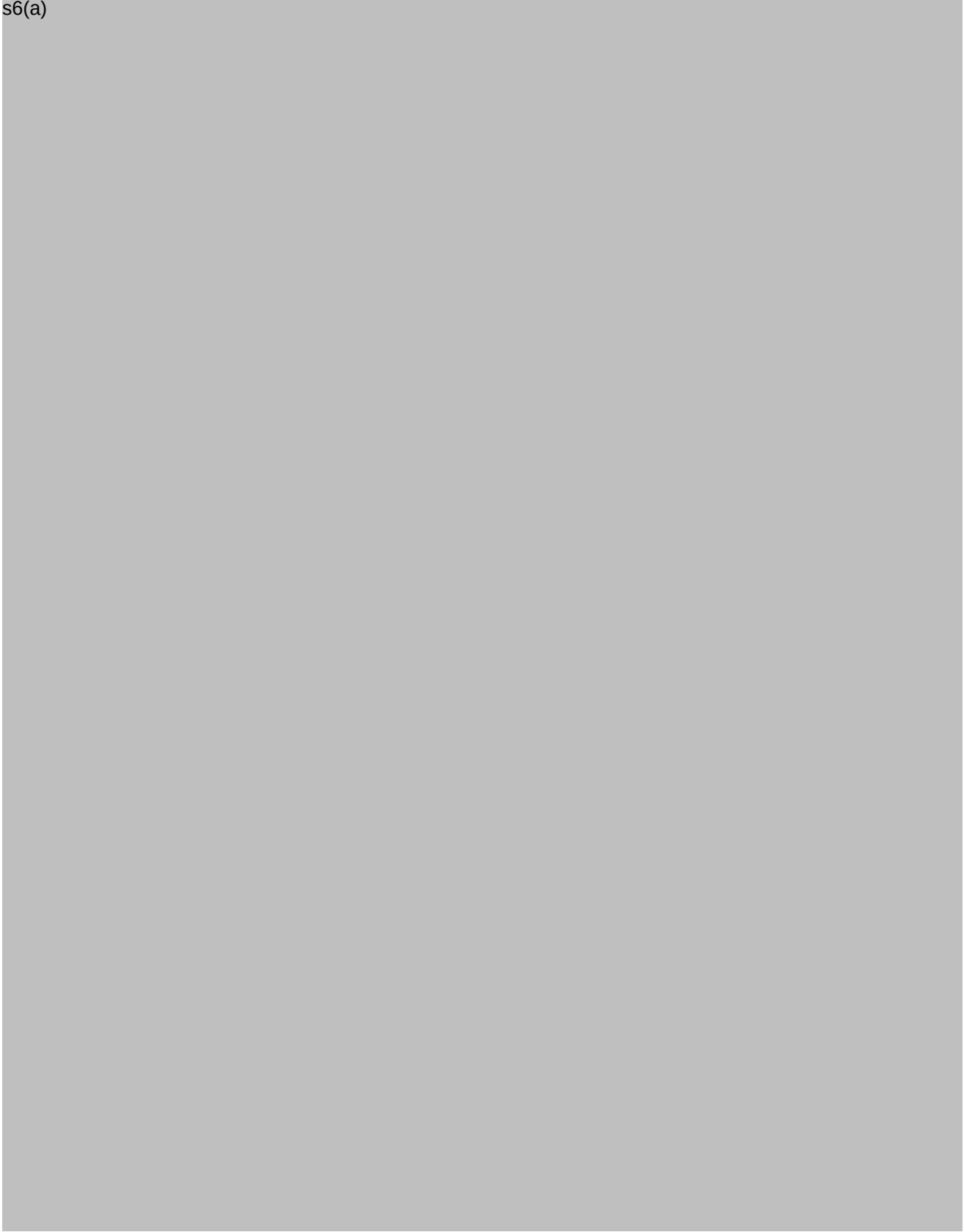
3.8 Current State Summary

s6(a)





s6(a)



3.8.1 Current system users

The following table provides a description of the actors involved in current state processes:



User	Description
s6(a)	
AMS	AMS is INZ's current core system for managing INZ client records.
INZ Data Warehouse	The INZ Data Warehouse is where SRTP data will be exported to for reporting on.
IDme	IDme is INZ's current identity management system. SRTP integrates with IDme to send and receive data and execute fingerprint matches.
SRTP Administrator	The SRTP Administrator manages SRTP settings such as business rules and other settings.



3.9 Planned Release 5 Summary – INZ Backend BCU Integration.

The primary focus of this release is to replace the current (INZ internal) s6(a) with an integration s6(a) solution referred to as IDme(NEC). This change is intended to have minimal impact on INZ internal users s6(a)

The following table summarises the systems are likely to be impacted by this change.

System	Expected impact
IDme	s6(c) IGMS subsystems (e.g. DMS) in the background.
AMS	A new system integration between AMS and NEC will enable IDme(NEC) to retrieve information s6(c)
s6(a)	s6(a)
IDme(NEC)	s6(a)

3.10 Unplanned Future Changes

s 6(c)

3.10.2 Enrich SRTP messages with more AMS Data

The primary focus of this change would be to enrich SRTP messages with more data available from AMS. s 6(c)

Pages 16 to 97 have been removed in full under
s6(c) of the Act



6.2 Additional Functional & Non-Functional requirements

Additional Functional and Non-functional requirements supplied in the original SRTP Business Requirements documentation during the procurement cycle are not replicated here. These can be accessed through this link to the original document:

s6(c)



7.4 Outbound Q1



IN CONFIDENCE



Biometric Capability Update

Changes to AMS

Requirements

Version 0.5

Date: 28/05/2020



1. Document control

Version history

Date	Version	Author	Description of change
18/05/2020	0.2	s9(2)(a)	Template completed with additional requirements
18/05/2020	0.3	s9(2)(a)	Remove DB05 from BR15, add DB07 and DB08 to BR16 and add definitions
19/05/2020	0.4	s9(2)(a)	Minor changes not related to technical content
28/05/2020	0.5	s9(2)(a)	Incorporating feedback from s9(2)(a) s9(2)(a)

Template information

This document was produced using Capital Portfolio Office's (CPO) Project delivery model 'Requirements template' template, version 3.0.

Approved by

Name	Role	Date	Signature*
s9(2)(a)	Business Owner	18/06/2020	s9(2)(a)

Reviewed by

The following people have a formal quality assurance role with respect to this document.

Name	Role	Date	Signature
s9(2)(a)	Project Manager	19/05/20	s6(c)
s9(2)(a)	Peer Reviewer	28/05/20	s6(c)



s 9(2)(a)	Subject matter expert	18/05/20	s6(c)
	Subject matter expert	03/05/20	s6(c)
	Technical review	14/05/20	s6(c)
	AMS Subject Matter Expert	14/05/20	s6(c)
	Test Manager	18/05/20	s6(c)

Consulted

The following people have been consulted in the production of this document (list excludes approvers and reviewers).

Name	Role	Date

Distributed to

The following people / groups have been sent a copy of this document (list excludes approvers, reviewers, and consulted).

Name	Role	Date
s9(2)(a)	s9(2)(a)	19/05/20
	s9(2)(a)	28/05/20 s6(c)



s 9(2)(a) [REDACTED]	s9(2)(a) [REDACTED]	19/05/20
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2. Introduction

Purpose

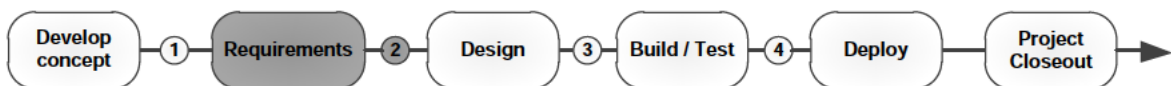
The purpose of this document is to sufficiently define requirements that address the AMS System changes that will be delivered by DXC and are required as part of the Biometric Capability Update (BCU) project so that:

- DXC can estimate effort and cost a solution;
- MBIE has a basis on which to assess the suitability of the solution and define acceptance criteria;
- MBIE can plan the work as part of the BCU project to deliver the solution.

A detailed requirements document for all changes to AMS and the vendors involved will also be written and provided for approval.

Context

This document has been written as part of the Capital Portfolio Office's (CPO) Project delivery model 'Requirements' phase for the Biometric Capability Update project.



Further information on the project can be found as follows:

Document title	Version	Author	Date
Biometric Capability Update Requirements s6(c)	0.4	s9(2)(a)	17/06/2019

Background

The Identity Management Engine (IDme) is a service within the INZ system that provides capability for Capturing, Matching, Managing and Sharing identity information (comprising biographic and biometric data). The service is made up of several functions and capabilities that were designed and built over five years ago.

The BCU project is implementing changes to how identity information is managed; part of that change affects how biographic information is added, edited and deleted. s 6(c)

With the changes BCU is implementing all creation of identities will first occur in AMS then AMS will create a Data Broker create identity message for the identity to be processed through IDme.



Data Broker messages to and from AMS will be reviewed to ensure information passes between the correct systems and the AMS image capture service will be updated to send and retrieve images from NEC.

Users will be able to edit identities in AMS with no time limitation or redirection to the Maintain Identity screen (AED) in IGMS, changes will be recorded and the syncing of data with IGMS is no longer required.

Project objectives

The objectives of this piece of work within the BCU project are:

- Remove Identity information inconsistencies between IGMS and AMS.
- Ensure Identity biographic information will only be maintained in AMS by s 6(c)

Benefits

- Enhance operability – simplified design and support model allows for simpler and faster identity resolutions.
- Maintenance of biographic data is completed within one system with no data syncing between AMS and IGMS required.
- Images used for searching will only be saved in NEC reducing the storage required in AMS.

Scope

The following table indicates what is and is not be covered by the requirements, for the purposes of creating a clear understanding of system boundaries for DXC.

In scope	Out of scope
Changes to AMS to enable add, edit, delete functionality is completed within AMS.	Requirements at a detailed level for the changes in AMS including any requirements for other vendors
Changes to SIH and Data Broker to ensure Data Broker messages are sent and received by the correct systems.	

Assumptions

The following assumptions have been made with respect to these requirements.

Assumption	Impact if not validated
AMS has the required functionality to enable add, edit and delete of identity information.	Additional development of AMS would be required and cost incurred.



Assumption	Impact if not validated
No changes to any other functions performed in AMS.	Unexpected impacts to Identity processes.
All face images will be stored in the NEC biometric store and managed in the NEC application Reveal.	New algorithms will not be applied to images
Fingerprints will be stored in the NEC biometric store and managed within the NEC application IBW5.	New algorithms will not be applied to fingerprints.
Data Broker messages DB10 will continue to be sent to IGMS, and DB14 & DB16 will continue to be received from IGMS by AMS.	Online Visa applications will not have identities checked or created.
User access to AMS will not change	Users may not be able to complete tasks for their role.
Direct access to the Maintain Identity (AED) screen in IGMS will not be possible.	Users may try to update information in IGMS that does not update AMS.
Functional and non-functional requirements for Datacom and DXC and use in testing will be documented in the detailed requirements.	All business, functional and non-functional requirements are not documented and approved.

Acceptance criteria

The following are the acceptance criteria for the solution.

Acceptance criteria	How measured by MBIE
Maintenance of Identity biographic data is completed in AMS.	Changes to an Identity are completed and saved in AMS
Searchable face images are saved in Reveal	Confirmation from NEC and unable to save an image to be used for searching/matching into AMS.
Data Broker messages pass between NEC and AMS	Expected responses to DB messages will be confirmed in AMS and by NEC.

Stakeholders

The following have been identified as key stakeholders in this piece of work:



Stakeholder	Interest
s9(2)(a) [REDACTED]	Changes to AMS, Data Broker and SIH

Additional Stakeholders may be identified as the project progresses.

Anticipated business area impacts

The following table indicates what business areas are likely to be impacted by this project, for the purposes of communications and implementation planning.

Business area	Potential impact
All of INZ but in particular Border Visa Operations (BVO)	Change to how Identity biographic information is maintained.
Immigration Contact Centre (ICC)	Change to how Identity biographic information is maintained.
Operations Tasking and Improvement (OTI)	Existing list of changes to AED to review that may not be implemented or may be addressed by BCU
ICT Systems (INZ)	Existing list of changes to AED from INZ BAU for review and prioritisation that may not be implemented or will be addressed by BCU.

Anticipated system impacts

The following table indicates what systems are likely to be impacted by this project, for the purposes of project planning.

System	Potential impact
AMS	All add, edit or delete functions for Identity Biographic information now completed in AMS
IGMS	Biographic identity data is no longer added, edited or deleted in IGMS.
SIH	Changes to sender and recipients of Data Broker messages.
Data Broker	Changes to and deletion of some Data Broker messages
Data Warehouse	Changes to the data received for reporting and the reports produced.



3. Current system description

Current state business processes

AMS

AMS is INZ's system for managing applications and holds information on an identity's immigration status. IGMS integration with AMS is performed by Data Broker which utilises the Service Integration Hub.

There are a number of functions relating to an identity that currently reside in AMS:

- Deletion of an identity
- Creation of a new identity
- Manual linking of identities
- Adding and removing images
- s 6(c)

IGMS functionality

Maintain identity, AED

This functionality allows a user to edit an identity's biographic information; and add or remove face images. When an identity is edited, the existing Claimed Identity is marked as 'Historical' and a new Claimed Identity is created with the 'Edit Identity' Business Context. This new Claimed Identity will go through the match process.

Interfaces and interdependencies with other systems

Data Broker

The Data Broker utilises IMB and Service Integration Hub (SIH) for message based integration of AMS and IGMS. It consists of AMS, IGMS and SIH components using s 6(c)

Users of the current system

User Group	Primary Goals
INZ Staff: Border and Visa Operations Intelligence Data & Insights Verification & Compliance	View and Update identities in AMS
Immigration Contact Centre (ICC)	View and Update identities in AMS

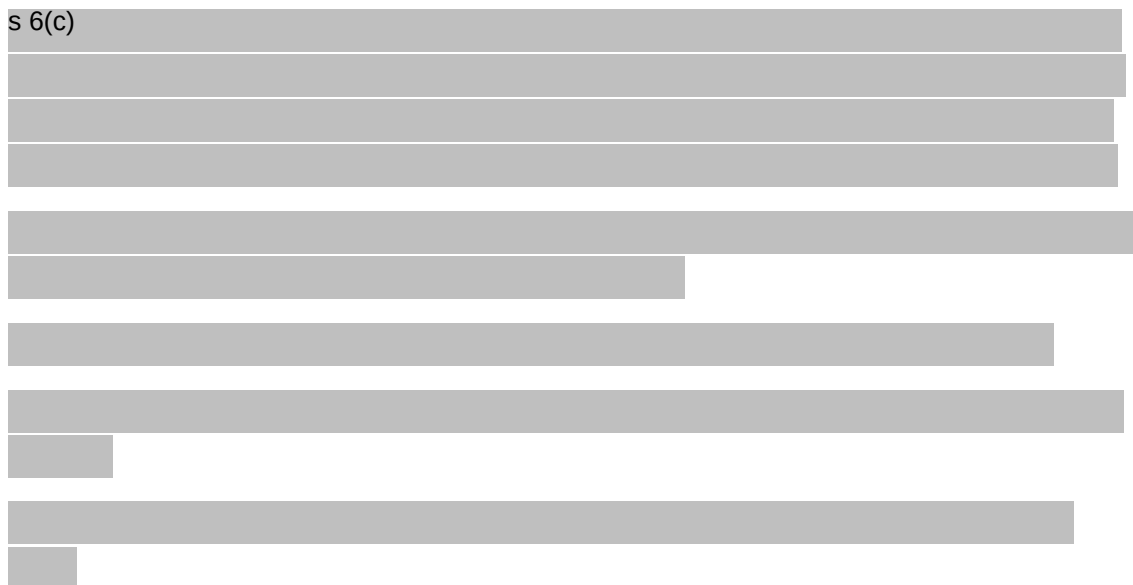
4. New system description

Overview

As part of the Biometric Capability Update (BCU) project AMS will become the primary holder of INZ biographic identity information including travel documents, address details and family relationships

All creation of identities will first occur in AMS then AMS will create a Data Broker create identity message for the identity to be processed through the identity management engine (IDME).

s 6(c)



There is no change to identities received via Provider Direct (Student Online).

Business requirements

s 6(c)





5. Terms and definitions

The following terms and abbreviations have been referenced in this document.

Term	Description
Must	Mandatory requirement (core functionality without which the solution would not work / would not support core business objectives).
Should	Requirement preferred but not mandatory (have a workaround solution and doesn't affect core solution).
Could	Requirement optional (nice to have but not necessary).
s 6(c)	
AMS	Application Management System
IGMS	Immigration Global Management System
IPE	In Person Enrolment
IDMe	Identity Management Engine
s 6(c)	
INZ	Immigration New Zealand
Reveal	The NEC application used for face image matching
AED	Add, edit or delete in the Maintain Identity screen in IGMS
s 6(c)	



IN CONFIDENCE



Biometric Capability Update

Changes to AMS

Requirements

Version 0.6

Date: 28/05/2020



1. Document control

Version history

Date	Version	Author	Description of change
18/05/2020	0.2	s 9(2)(a)	Template completed with additional requirements
18/05/2020	0.3		Remove DB05 from BR15, add DB07 and DB08 to BR16 and add definitions
19/05/2020	0.4		Minor changes not related to technical content
28/05/2020	0.5		Incorporating feedback from s9(2)(a)
28/05/2020	0.6		Minor Updates

Template information

This document was produced using Capital Portfolio Office's (CPO) Project delivery model 'Requirements template' template, version 3.0.

Approved by

Name	Role	Date	Signature*
s 9(2)(a)	Business Owner		

Reviewed by

The following people have a formal quality assurance role with respect to this document.

Name	Role	Date	Signature
s 9(2)(a)	Project Manager	19/05/20	6(c) of the OIA
	Peer Reviewer	28/05/20	6(c) of the OIA
	Subject	18/05/20	6(c) of the OIA



s 9(2)(a)	matter expert		6(c) of the OIA
	Subject matter expert	03/05/20	6(c) of the OIA
	Technical review	14/05/20	6(c) of the OIA
	AMS Subject Matter Expert	14/05/20	6(c) of the OIA
	Test Manager	18/05/20	6(c) of the OIA

Consulted

The following people have been consulted in the production of this document (list excludes approvers and reviewers).

Name	Role	Date

Distributed to

The following people / groups have been sent a copy of this document (list excludes approvers, reviewers, and consulted).

Name	Role	Date
s 9(2)(a)	Systems Integration Manager	19/05/20
s 9(2)(a)		19/05/20
s 9(2)(a)		19/05/20



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2. Introduction

Purpose

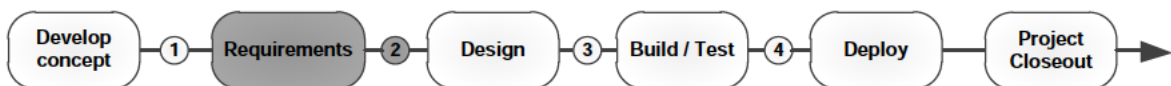
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A detailed requirements document for all changes to AMS and the vendors involved will also be written and provided for approval.

Context

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Further information on the project can be found as follows:

Document title	Version	Author	Date
Biometric Capability Update Requirements s6(c)	0.4	s9(2) (a)	17/06/2019

Background

The Identity Management Engine (IDme) is a service within the INZ system that provides capability for Capturing, Matching, Managing and Sharing identity information (comprising biographic and biometric data). The service is made up of several functions and capabilities that were designed and built over five years ago.

The BCU project is implementing changes to how identity information is managed; part of that change affects how biographic information is added, edited and deleted. s 6(c)

With the changes BCU is implementing all creation of identities will first occur in AMS then AMS will create a Data Broker create identity message for the identity to be processed through IDme.



Data Broker messages to and from AMS will be reviewed to ensure information passes between the correct systems and the AMS image capture service will be updated to send and retrieve images from NEC.

Users will be able to edit identities in AMS with no time limitation or redirection to the Maintain Identity screen (AED) in IGMS, changes will be recorded and the syncing of data with IGMS is no longer required.

Project objectives

The objectives of this piece of work within the BCU project are:

- Remove Identity information inconsistencies between IGMS and AMS.
- Ensure Identity biographic information will only be maintained in AMS by removing the s 6(c)

Benefits

- Enhance operability – simplified design and support model allows for simpler and faster identity resolutions.
- Maintenance of biographic data is completed within one system with no data syncing between AMS and IGMS required.
- Images used for searching will only be saved in NEC reducing the storage required in AMS.

Scope

The following table indicates what is and is not be covered by the requirements, for the purposes of creating a clear understanding of system boundaries for DXC.

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Data Broker messages DB10 will continue to be sent to IGMS, and DB14 & DB16 will continue to be received from IGMS by AMS.	Online Visa applications will not have identities checked or created.
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Direct access to the Maintain Identity (AED) screen in IGMS will not be possible.	Users may try to update information in IGMS that does not update AMS.
Functional and non-functional requirements for Datacom and DXC and use in testing will be documented in the detailed requirements.	All business, functional and non-functional requirements are not documented and approved.

Acceptance criteria

The following are the acceptance criteria for the solution.

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Stakeholders

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Stakeholder	Interest
s9(2)(a)	Changes to AMS, Data Broker and SIH



s9(2)(a)

Additional Stakeholders may be identified as the project progresses.

Anticipated business area impacts

The following table indicates what business areas are likely to be impacted by this project, for the purposes of communications and implementation planning.

Business area	Potential impact
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Anticipated system impacts

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3. Current system description

Current state business processes

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- Deletion of an identity
- Creation of a new identity
- Manual linking of identities
- Adding and removing images
- s 6(c)

IGMS functionality

Maintain identity, AED

This functionality allows a user to edit an identity's biographic information; and add or remove face images. When an identity is edited, the existing Claimed Identity is marked as 'Historical' and a new Claimed Identity is created with the 'Edit Identity' Business Context. This new Claimed Identity will go through the match process.

Interfaces and interdependencies with other systems

Data Broker

The Data Broker utilises IMB and Service Integration Hub (SIH) for message based integration of AMS and IGMS. It consists of AMS, IGMS and SIH components using s 6(c)

Users of the current system

User Group	Primary Goals
INZ Staff: Border and Visa Operations Intelligence Data & Insights Verification & Compliance	View and Update identities in AMS
Immigration Contact Centre (ICC)	View and Update identities in AMS

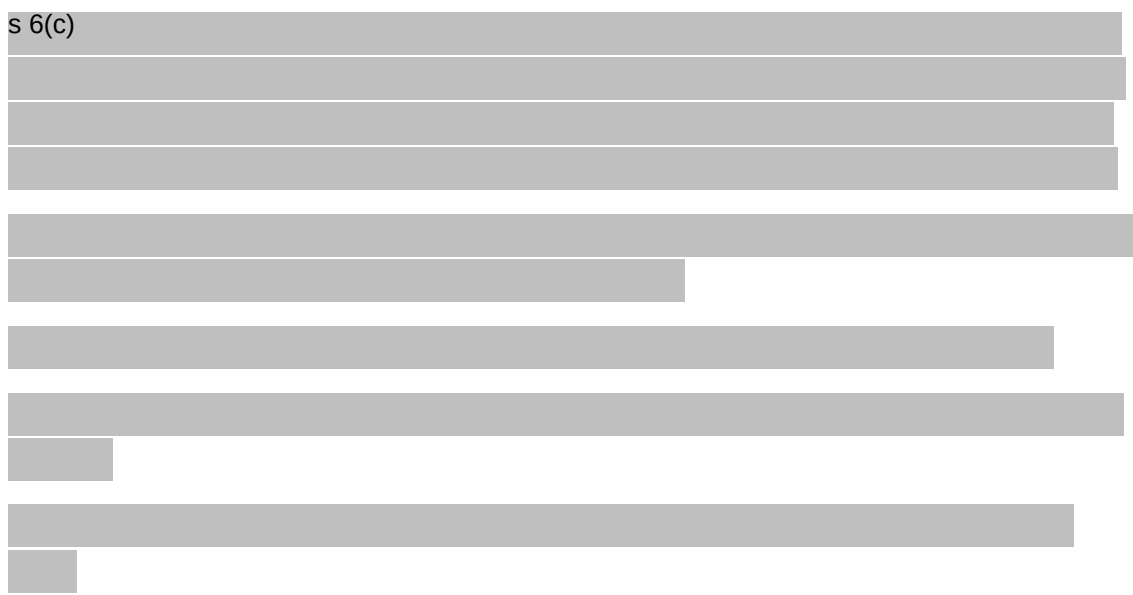
4. New system description

Overview

As part of the Biometric Capability Update (BCU) project AMS will become the primary holder of INZ biographic identity information including travel documents, address details and family relationships

All creation of identities will first occur in AMS then AMS will create a Data Broker create identity message for the identity to be processed through the identity management engine (IDME).

s 6(c)



There is no change to identities received via Provider Direct (Student Online).

Business requirements

s 6(c)





5. Terms and definitions

The following terms and abbreviations have been referenced in this document.

Term	Description
Must	Mandatory requirement (core functionality without which the solution would not work / would not support core business objectives).
Should	Requirement preferred but not mandatory (have a workaround solution and doesn't affect core solution).
Could	Requirement optional (nice to have but not necessary).
s 6(c)	
AMS	Application Management System
IGMS	Immigration Global Management System
IPE	In Person Enrolment
IDMe	Identity Management Engine
s 6(c)	
INZ	Immigration New Zealand
Reveal	The NEC application used for face image matching
AED	Add, edit or delete in the Maintain Identity screen in IGMS
s 6(c)	



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HĪKINA WHAKATUTUKI



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3644 Biometric Capability Update

AMS Changes Detailed Requirements

Version 0.2

Date: 02/09/20

1. Document control

Version history

Date	Version	Author	Organisation	Description of change
13/08/20	0.1	s 9(2)(a)	MBIE and DXC	Initial draft
02/09/20	0.2	s 9(2)(a)	MBIE	Add DB11 to assumptions as per DXC feedback. Change issues to be AMS and IGMS specific, identify new NFRs, add to terms and definitions and update acceptance criteria as per s9(2)(a) s 9(2)(a).

Template information

This document was produced using Capital Portfolio Office's (CPO) Project delivery model 'Requirements template' template, version 3.0.

Approved by

Name	Role	Organisation	Date	Signature*
s 9(2)(a)	Business Owner	MBIE		

Reviewed by

The following people have a formal quality assurance role with respect to this document.

Name	Role	Organisation	Supported?	Date	Signature
s 9(2)(a)	s9(2)(a)	MBIE			
	Solution Architect	MBIE		03/09/2020	

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s 9(2)(a)	Project Manager	DXC	Yes	14/08/2020	

Consulted

The following people have been consulted in the production of this document (list excludes approvers and reviewers).

Name	Role	Organisation	Date
s 9(2)(a)	Subject matter expert	MBIE	13 August 2020
	Subject matter expert	MBIE	13 August 2020

Distributed to

The following people / groups have been sent a copy of this document (list excludes approvers, reviewers, and consulted).

Name	Role	Organisation	Date
s 9(2)(a)	s9(2)(a)	MBIE	
	Business Product Owner	MBIE	
	BCU Delivery Manager	MBIE	
	BCU Change Manager	MBIE	
	BCU Project Manager	MBIE	
	s9(2)(a)	MBIE	
		MBIE	
		MBIE	
		MBIE	
		MBIE	



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s 9(2)(a)	s9(2)(a)	MBIE	
		MBIE	

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2. Introduction

Purpose

The purpose of this document is to sufficiently define requirements that address the AMS System changes that will be delivered by DXC and are required as part of the 3644 Biometric Capability Update (BCU) project so that:

- DXC Enterprise NZ (a DXC Technology Company, thereafter referred to as “DXC”) can design and cost a solution;
- MBIE has a basis on which to assess the suitability of possible solutions and define acceptance criteria;
- MBIE can plan and cost this work as part of the BCU project to deliver the solution.

Context

This document has been written as part of the Capital Portfolio Office’s (CPO) Project delivery model ‘Requirements’ phase for the 3644 Biometric Capability Update project.



Further information on the project can be found as follows:

Document title	Version	Author	Organisation	Date
Changes to AMS Requirements s6(c)	0.5	s9(2)(a)	MBIE	28/05/202
Biometric Capability Update (Part A).docx s6(c)	0.6	s9(2)(a)	MBIE	17/04/202

Background

The Identity Management Engine (IDme) is a service within the INZ system that provides capability for Capturing, Matching, Managing and Sharing identity information (comprising biographic and biometric data). The service is made up of several functions and capabilities that were designed and built over five years ago.

The BCU project is implementing changes to how identity information is managed; part of that change affects how biographic information is added, edited and deleted. s 6(c)

With the changes BCU is implementing all creation of identities will first occur in AMS, users will be able to edit identities in AMS with no time limitation or redirection to the Maintain Identity screen (AED) in IGMS, changes will be recorded and the syncing of data with IGMS is no longer required.

Project objectives

The objectives of this piece of work within the BCU project are:

- Remove Identity information inconsistencies between IGMS and AMS.
- Ensure Identity biographic information will only be maintained in AMS.

Benefits

- Enhance operability – simplified design and support model allows for simpler and faster identity resolutions.
- Maintenance of biographic data is completed within one system with no data syncing between AMS and IGMS required.
- Images used for searching will only be saved in NEC reducing the storage required in AMS.

Scope

The following table indicates what is and is not covered by the requirements, for the purposes of creating a clear understanding of system boundaries and project scope for each organisation.

In scope	Out of scope
Changes to AMS to enable add, edit, delete functionality can be completed within AMS.	
Changes to SIH and Data Broker to ensure Data Broker messages are sent and received by the correct systems.	
Changes to non-searchable face image and travel documentation image storage	
Changes to reports to include a report that can be used for OIA and PA requests.	FCR report

Assumptions

The following assumptions have been made with respect to these requirements.

Assumption	Impact if not validated
All face images will be stored in the NEC biometric store and managed through the NEC interface Reveal.	New algorithms will not be applied to images

Assumption	Impact if not validated
Fingerprints will be stored in the NEC biometric store and managed through the NEC interface IBW5.	New algorithms will not be applied to fingerprints.
Data Broker messages DB10 will continue to be sent to IGMS, and DB11, DB14 & DB16 will continue to be received from IGMS by AMS.	Online Visa applications will not have identities checked or created.
New Data Broker messages will be created to support identity information provided by In Person Enrolment via NEC and not Daon.	New identity information will not be added to AMS.

MBIE Acceptance Criteria

The following are the acceptance criteria for the solution.

Acceptance criteria	How measured by MBIE
Maintenance of all Identity biographic data is completed in AMS.	Changes to an Identity are completed and saved in AMS with the time constraint removed.
Searchable face images are saved in the NEC Unified Database (UDB) and not saved in AMS.	Confirmation from NEC and unable to save an image to be used for searching/matching into AMS.
Fingerprint images are saved in the NEC UDB and not saved in AMS.	Confirmation from NEC and only able to view fingerprints through NEC IBW.
Data Broker messages pass between NEC and AMS	Expected responses to DB messages both new and continuing will be confirmed in AMS and by NEC and Datacom.
Identity information from all channels is added or updated in AMS.	New identity information created from e.g. ETA, IPE or Immigration Online applications are available in AMS.

DXC High Level Deliverables

The following deliverables will be provided by DXC:

Work Product Name	Responsible
Statement of Work	
Change Request for additional requirements not included in SOW	
Detailed Design	

Stakeholders

The following have been identified as key stakeholders in this project:

Stakeholder	Interest
s 9(2)(a)	Changes to AMS, Data Broker and SIH

MBIE Anticipated business area impacts

The following table indicates what business areas are likely to be impacted by this project, for the purposes of communications and implementation planning.

Business area	Potential impact
Immigration Contact Centre (ICC)	Minor changes to the data available in AMS and how to maintain identity data
Immigration Officers	Minor changes to the data available in AMS and how to maintain identity data
Identity Resolution	Minor changes to the data available in AMS and how to maintain identity data
Data Sharing and Development	Minor changes to the data available in AMS, how to maintain identity data and run reports.
Intelligence, Data and Insights	Minor changes to the data available in AMS.
Verification and Compliance	Minor changes to the data available in AMS and how to maintain identity data
Quality, Risk & Assurance, Complaints teams	Minor changes to the data available in AMS and run reports.
Border and Visa Operations	Read, Add, Edit identity data, run reports

Enablement	Minor changes to the data available in AMS, how to maintain identity data and run reports.
Strategy, Engagement and Education	Minor changes to the data available in AMS.
Operations, Tasking and Improvement	Minor changes to the data available in AMS.
Refugee and Migrant Services	Minor changes to the data available in AMS and how to maintain identity data.
Immigration Advisors Authority	Minor changes to the data available in AMS.
CGI Data Warehouse	Minor changes to the data available in AMS.

Anticipated system impacts

The following table indicates what systems are likely to be impacted by this project, for the purposes of project planning.

System	Potential impact	Managed By
AMS	All add, edit or delete functions for Identity Biographic information now completed in AMS	
IGMS	Biographic identity data is no longer added, edited or deleted in IGMS.	
SIH	Changes to sender and recipients of Data Broker messages.	
Data Broker	Changes to and deletion of some Data Broker messages	
Data Warehouse	Changes to the data received for reporting.	
I		

3. Current system description

MBIE Current state business processes

AMS

AMS is INZ's system for managing applications and holds information on an identity's immigration status. There are a number of functions relating to an identity that currently reside in AMS:

- Deletion of an identity
- Creation of a new identity
- Manual linking of identities
- Adding and removing images
- s 6(c)

IGMS functionality

Maintain identity, AED

This functionality allows a user to edit an identity's biographic information; and add or remove face images. When an identity is edited, the existing Claimed Identity is marked as 'Historical' and a new Claimed Identity is created with the 'Edit Identity' Business Context. This new Claimed Identity will go through the match process.

Issues with the current system

- In AMS manually editing or adding to an identity is only possible in the 25 minutes following creation. If the changes are not submitted within the 25 minutes an error message appears asking whether to redirect to the Maintain Identity screen, regardless of the decision the user makes any changes that were made are lost.
- If an identity in AMS is syncing with IDme IGMS or undergoing matching or manual resolution it cannot be edited and the user has to wait until those processes are completed. Users are advised to try again later.
- If two users edit the same identity but different information, the second user cannot complete their edit of the identity until the first edit has been resolved, they are advised to try again later.

Interfaces and interdependencies with other systems

Data Broker

The Data Broker utilises IMB and Service Integration Hub (SIH) for message based integration of AMS and IGMS. It consists of AMS, IGMS and SIH components using s 6(c)

Users of the current system

User Group	Primary Goals
------------	---------------

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Immigration Contact Centre (ICC)	Read, Add, Edit identity data
Immigration Officers	Read, Add, Edit identity data
Identity Resolution	Read, Add, Edit, Link and Delete identity data
Data Sharing and Development	Read, Add, Edit, Link and Delete identity data, run reports
Intelligence, Data and Insights	Read identity data
Verification and Compliance	Read, Add, Edit identity data
Quality, Risk & Assurance, Complaints teams	Read identity data, run report
Border and Visa Operations	Read, Add, Edit identity data, run reports
Enablement	Read, Add, Edit identity data
Strategy, Engagement and Education	Read identity data
Operations, Tasking and Improvement	Read identity data
Refugee and Migrant Services	Read, Add, Edit identity data
Immigration Advisors Authority	Read identity data
CGI Data Warehouse	Read identity data, run reports
Department of Internal Affairs	Read identity data, run report
NZ Customs	Read identity data
NZ Police	Read identity data
ICT Testers	Read, Add, Edit, Link and Delete identity data, run reports

**Pages 15 to 87 have been removed in full
under s 6(c) of the Act**

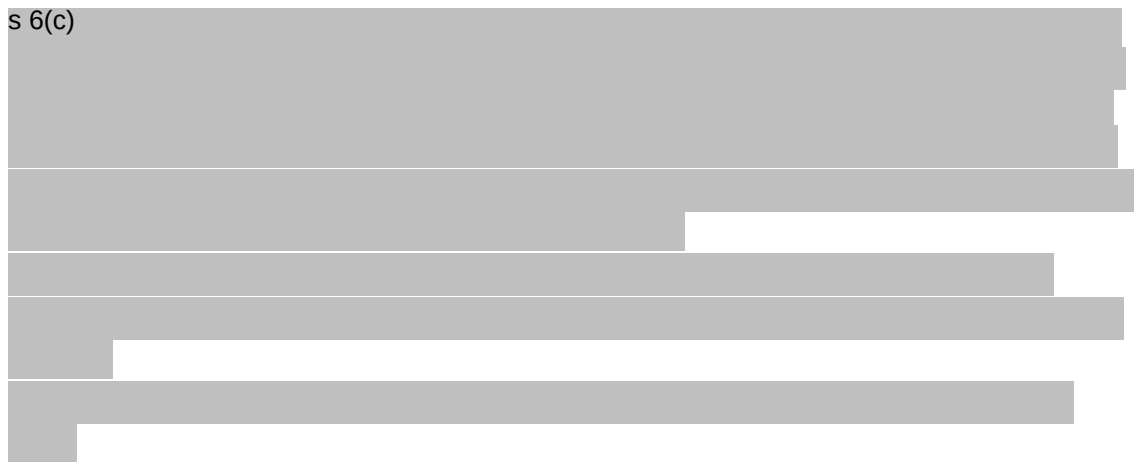
4. New system description

Overview

As part of the Biometric Capability Update (BCU) project AMS will become the primary holder of INZ biographic identity information including travel documents, address details and family relationships

All creation of identities will first occur in AMS then AMS will create a Data Broker create identity message for the identity to be processed through the identity management engine (IDme).

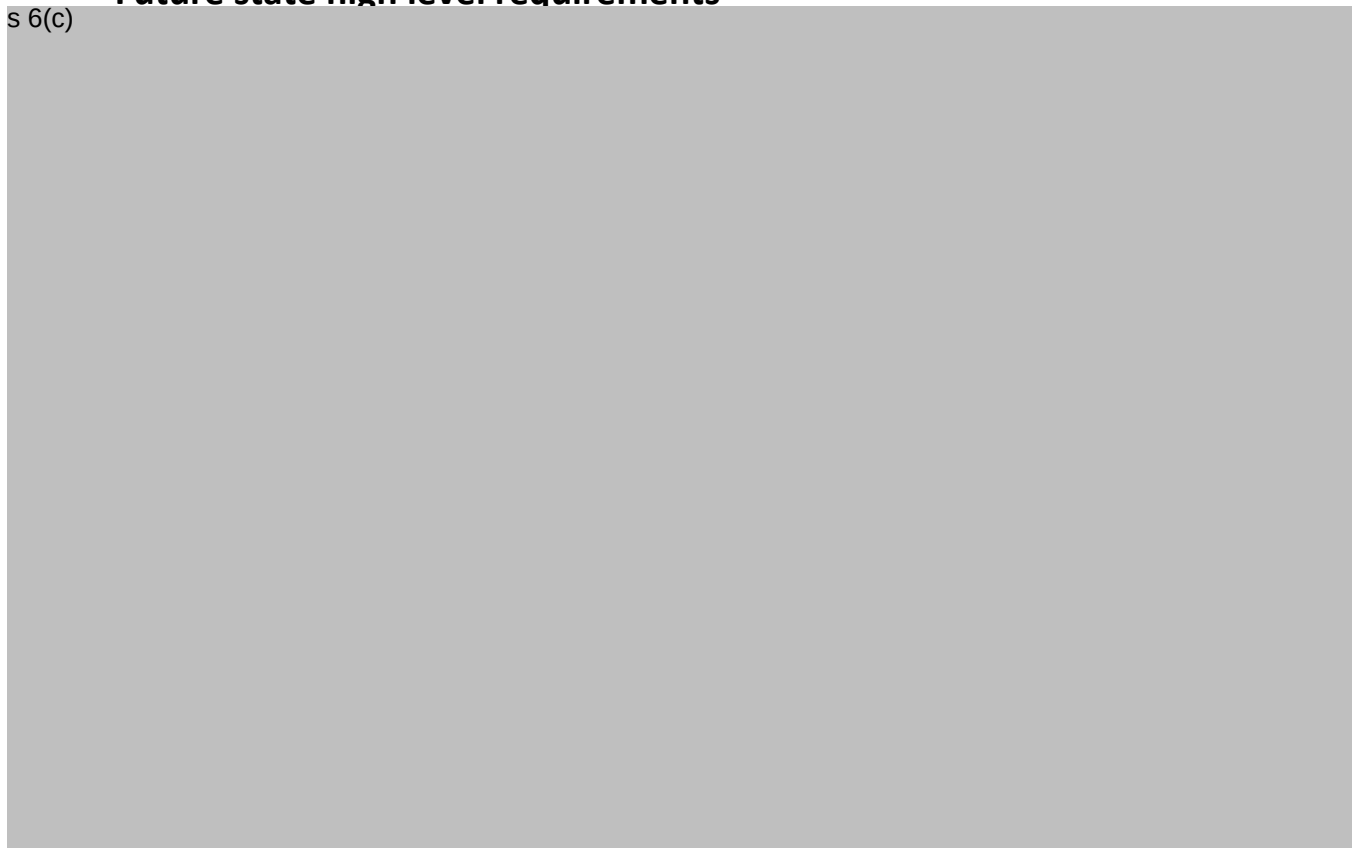
s 6(c)



There is no change to identities received via Online Services (Provider Direct or WHS).

Future state high level requirements

s 6(c)



5. Terms and definitions

The following terms and abbreviations have been referenced in this document.

Term	Description
Must	Mandatory requirement (core functionality without which the solution would not work / would not support core business objectives).
Should	Requirement preferred but not mandatory (have a workaround solution and doesn't affect core solution).
Could	Requirement optional (nice to have but not necessary).
ETA	Electronic Travel Authority
s 6(c)	
AMS	Application Management System
IGMS	Immigration Global Management System
IPE	In Person Enrolment
IDMe	Identity Management Engine
s 6(c)	
INZ	Immigration New Zealand
Reveal	The NEC interface used for face image templating and matching
IBW	The NEC interface used for fingerprint templating and matching.
AED	Add, edit or delete in the Maintain Identity screen in IGMS
IMB	IGMS identity message bus
s 6(c)	
PQC	Photo Quality Checker
IQ Office	Biographic matching solution

6. Appendices

Image Types in AMS (s 6(c))

Image Type Id	Image Type Code	Image Type Desc	Image Category	Image/Document
1	AP	INZ Application Form	AA	
2	BE	Biographic details from e-chip	BB	
3	ID	Identity Document	AA	
4	IR	IR Forensic Test	BB	
5	PE	Photo from e-chip or e-passport	BB	
6	PH	Other photo	AA	
7	PO	Photo from passport biodata page	AA	
8	PP	Passport biodata page	AA	
9	s 6(c)			
10				
11				
12*	PE	Photo from e-chip or e-passport failed PQC	BB	
13*	PH	Other Image failed PQC	AA	
14*	PP	Passport Biopage failed PQC	AA	
15*	FP	Fingerprint	AA	

*means this is a new entry to be added to the table

Source Document Types in AMS

Source Document Type Id	Descrip
1	Passport Number
2	Photo, unknown source
3	INZ Application Form
4	Other Identity Document

Submission Channels s 6(c))

Description must equal what is provided in the Business Context

Submission Channel Type Id	Submission Channel Type	Description	Business Context (New Description)	Notes
1	B	s 6(c)		
2	E			Not going to be used
3	I			
4	M			
5	N			
6	W			This does not create Identities

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Submission Channel Type Id	Submission Channel Type	Description	Business Context (New Description)	Notes
7	O	s 6(c)		
8	R			Not going to be used
9*	?			
10*	?			
11*				From the Datacom list this is "Client Not Present"
12*				
13*				Sent by DIA
14*				Replacing the two Online services channels above and including the new WebBDC channel
15*				See spd_InterpolAlerts_IdentityCreate
16*				See spd_passportScan_tIdentity_Add
17*				Missing from the Datacom list
18*				Missing from the Datacom list

*means this is a new entry to be added to the table

7. MBIE & DXC Approvals

Client Approval

This document has been accepted and agreed by:

Name:

Title:

Signature:..... Date:

On behalf of Ministry of Business, Innovation and Employment

Name:

Title:

Signature:..... Date:

On behalf of Ministry of Business, Innovation and Employment

MBIE Cost Centre Code (in format 3370/400 or A8810 LEQR)	
---	--

DXC Enterprise NZ (DXC) Approval

This document has been accepted and agreed by:

Authorised Representative

Name:

Signature:..... Date:

On behalf of DXC Enterprise NZ (DXC)

Change Request

WI-836 Biometrics Capability Upgrade (BCU)



Following extract from DXC CR provided by BCU PM 2 Feb 2021 – for Requirements Reconciliation

1.0 Scope

1.1 In Scope for Service Provider

The Service Provider will deliver a solution to meet the additional requirements listed in Section 5.0 Requirements of this Change Request, as part of the services documented in Section 5 of the SoW.

The following is a summary of the additional scope covered by this Change Request. This is described in detail in Section 5.0 Requirements:

1. Updates to AMS databases to allow the storing of data, non-face images and documents associated with In-Person Enrolments;
2. Changes to enable stored documents to be opened in the native application (according to the document type);
3. Changes to permit the viewing of passport scan results obtained from an In-Person Enrolment;
4. s 6(c) [REDACTED]
5. s 6(c) [REDACTED]
6. s 6(c) [REDACTED]
7. s 6(c) [REDACTED]
8. Delivery of additional High Level and Functional requirements that were not initially accounted for;
9. Early delivery of changes to DB16 and DB19 so that relevant biographics provided by IGMS Online are recorded in AMS; and
10. Implementation of feature switches enable or disable NEC integration for Identity processing.

**Pages 2 to 12 have been
removed in full under s 6(c)
of the Act**

NEC New Zealand

MBIE New Zealand

BCU Project

Functional and Non-Functional Requirements

[Final Version 1.0]



Document Control

Version	Description
1.0	As agreed, 21/7/2020

**Pages 1 to 31 have been removed
in full under s 6(c) of the Act**



IN CONFIDENCE

3644 In Person Enrolment Hardware Requirements

Version 1.0

Date: 13/11/2020



1. Document control

Version history

Date	Version	Author	Description of change
01/09/2020	0.1	s 9(2)(a)	Author
11/09/2020	0.2		Review and initial feedback
18/09/2020	0.3		Updates to NFRs Incorporating initial feedback from NECs s 9(2)(a)
22/09/2020	0.4		Updates to NFRs.
07/10/2020	0.5		Change priority for Win s 6(e) for mobile devices, update and renumber NFRs Incorporate feedback from s 9(2)(a) RQP, NEC and RSU
13/11/2020	1.0		Pg17 Amend FR4.1 to output in JPG format Pg18 Amend FR5.1 to add output in PDF format Pg 18 Amend FR6.1 to add minimal mobile kit configuration, Kit 3, an alternative where there is no all in one device. Pg20 added Note to the equipment kit requirements table explaining no increase in total numbers and Kit 3 numbers to be determined. Version issued for approval

Template information

This document was produced using 'Requirements template', version 3.1.

Approved by

Name	Role	Date	Signature
s 9(2)(a)	Manager ICT Systems		
	National Manager Identity		



Endorsed by

Name	Role	Date	Signature
s 9(2)(a)	9(2)(a) of the OIA	16/10/2020	 RE Action Required - Endorsement - IPE
		16/10/2020	 RE Action Required - Endorsement - IPE
		13/10/2020	 RE Action Required - Endorsement - IPE
		11/11/20	 RE IPE Hardware requirements - endc
		13/10/2020	 RE Action Required - Final Review - IPE t

Reviewed by

The following people have a formal quality assurance role with respect to this document.

Name	Role	Date	Signature
s 9(2)(a)	Solution Architect ICT	8/10/2020	
	Project Manager, IPE	8/10/2020	
	Project Manager, IPE	8/10/2020	

Consulted

The following people have been consulted in the production of this document (list excludes approvers and reviewers).

Name	Role	Date
Various	NEC	



Distributed to

The following people / groups have been sent a copy of this document (list excludes approvers, reviewers, and consulted).

Name	Role	Date
BCU User Working Group		23/09/2020
s 9(2)(a)	NEC	8/10/2020
	NEC	8/10/2020
	NEC	8/10/2020
	NEC	8/10/2020



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2. Introduction

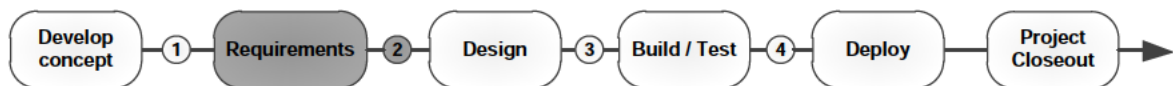
Purpose

The purpose of this document is to sufficiently define requirements that address the 3644 In Person Enrolment (IPE) hardware requirements so that:

- MBIE has a basis on which to assess the suitability of possible solution options and define acceptance criteria;
- The business need is clearly articulated for the supplier of the IPE service.

Context

This document has been written as part of the SDLC 'Requirements' for the In Person Enrolment (IPE) project.



Further information on the project can be found as follows:

Document title	Author	Date	Link
IPE Specific Use Cases	s9(2)(a)	May-2020	Confluence: IPE Specific Use Cases

Background

Immigration NZ is seeking to replace Daon Enroll as its primary solution for In-Person enrolment and to provide supporting hardware that meets this business needs. The future IPE solution consists of the implementation of:

- a new software solution to capture a person's biometrics (face and fingerprints) and biographic details when they are physically present (in person),
- the hardware equipment required to run the new software solution and enable INZ users to complete the IPE process, and;
- the provision of the software and hardware solutions, and their support and maintenance, as a service by NEC.

These requirements are focused on the INZ user hardware equipment for IPE.

Project objectives

INZ's key objectives for the new solution are:

- Capture of in-person enrolment including biometrics (face and fingerprints) and biographic details,
- Centralised, automated updating and maintenance of the client equipment from a central service management platform,
- On Shore, local support from a Global tier 1 provider.



Anticipated business area impacts

The following table indicates what business areas are likely to be impacted by this project, for the purposes of communications and implementation planning.

Business areas that use IPE hardware for In Person Enrolments

Business area	Potential impact
Border Operations	Changes to the equipment (user device and peripherals) they use for in person enrolment at the border.
Compliance	Changes to the equipment (user device and peripherals) they use for in person enrolment when working in the field or in a MBIE premises
Refugee Quota Programme (RQP)	Changes to the equipment (user device and peripherals) they use for in person enrolment when overseas or at the Border
Refugee Status Unit (RSU)	Changes to the equipment (user device and peripherals) they use for in person enrolment in a MBIE premises or other NZ government location within New Zealand.
Identity Services	Changes to the equipment (user device and peripherals) they use for in person enrolment in a MBIE premises or out in the field.
INZ ICT Test Team	Change to the equipment (user device and peripherals) for testing purposes

Anticipated system impacts

The following table indicates what hardware equipment is likely to be impacted by this project, for the purposes of project planning.

Hardware Equipment	Potential impact
Existing Daon Enroll Equipment using the Daon Enroll software incl. - Cameras for face image capture - Fingerprint scanners - Passport scanners - Document Scanners - Hovercam Multi-Page Scanners	MBIE purchased equipment replaced with NEC equipment as a service, using the SmartScan software



Hardware Equipment	Potential impact
MBIE Windows s 6(c) used for Daon Enroll	Will be replaced with new hardware and a MBIE-approved operating system.



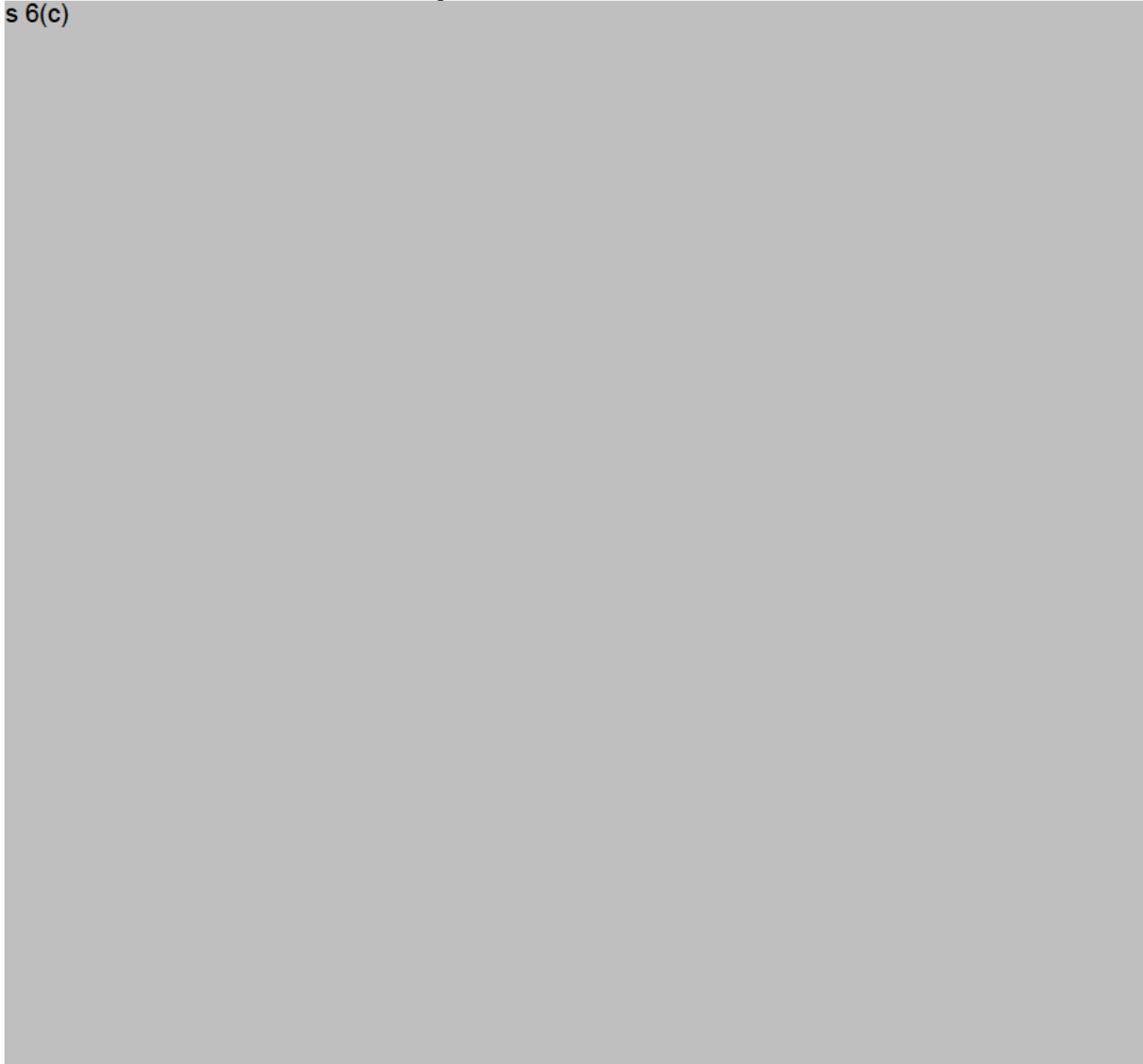
3. Business Processes

Overview

Analysis to date has identified that the hardware equipment required to undertake In Person Enrolment is used by INZ staff in a number of different scenarios. These are summarised in the table below.

Business Process Summary

s 6(c)



Users of the system

User Group	Primary Goals
Border Operations	Reliable equipment MBIE Health and Safety requirements are met Data stored on the equipment is protected if the equipment is lost or stolen Biometric capture meets IDme image quality standards



User Group	Primary Goals
Compliance Refugee (RQP, RSU) and Identity Services	Reliable equipment Portable equipment, light weight, compact and minimal size. MBIE Health and Safety requirements are met Security, health and safety requirements of other government agencies workplaces are met (e.g. Department of Corrections, Police) Data stored on the equipment is protected if the equipment is lost or stolen Biometric capture meets IDme image quality standards

**Pages 12 to 28 have been removed in
full under s 6(c) of the Act**



6. User Scenarios

Refugee Quota Program

s 6(c)



Refugee Quota Programme team members will interview refugees that were selected from a list provided by the United Nations High Commissioner for Refugees (UNHCR). The list is of mandated refugees and selections are made by RQP before a RQP team leaves New Zealand.

Some biographic information has already been provided and an identity is created in AMS.

Prior to Departure

s 6(c)





s 6(c)

[Redacted]

Once back in NZ

s 6(c)

[Redacted]

s6(a)

[Redacted]

Deportation or Breach of Visa Conditions Investigation

s 6(c)

[Redacted]

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

[Redacted]

Location examples, a business premises, farm, orchard, building site etc

s 6(c)

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]



IN CONFIDENCE

In Person Enrolment Functional Specifications

Version 2.3

Date: 17/11/2020



References

Ref	Document	Location
	IPE Business Case	IDme Rescaling IPE Sub-Project Business Case v1.3.doc ⁵
	IPE Solution Architecture (Part A)	(Mako) s6(c)

Reviewed by

The following people have a formal quality assurance role with respect to this document.

Name	Role	Date
s 9(2)(a)	Project Business Owner	18/08/2020
	s9(2)(a)	20/08/2020
		19/08/2020
		20/08/2020
	Immigration Improvement	20/08/2020
	Intelligence and Risk	20/08/2020
	Refugee Quota	20/08/2020
	Refugee Status	20/08/2020
	s9(2)(a)	20/08/2020
		20/08/2020
		June to September 2020
		June to September 2020
		23/03/2020

Endorsed by



Name	Role	Version	Date
s 9(2)(a)	s9(2)(a)	2.0	 FW Endorsement Required Function:
	Immigration Improvement	2.0	 RE Endorsement Required Function:
	Intelligence and Risk	2.0	 RE Endorsement Required Function:
	Refugee Quota	2.0	 RE Endorsement Required Function:
	Refugee Status	2.0	 RE Endorsement Required Function:
	s9(2)(a)	2.0	 FW Endorsement Required Function:
		2.0	 FW Endorsement Required Function:
		2.0	 RE Endorsement Required Function:
		2.1	 RE Endorsement Required Function:

Consulted

The following people have been consulted in the production of this document.

Name	Role	Date
s 9(2)(a)	For NEC	18/06/2020
	NEC Solution consultant	June to September 2020



Name	Role	Date
s 9(2)(a)	s9(2)(a)	 FW Endorsement Required Function: v2.0

Approvers

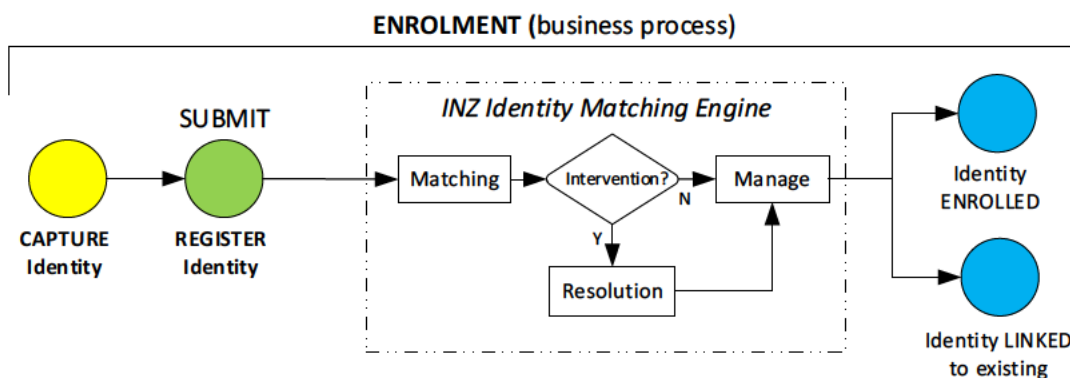
The following people have approved the design & build as per this document.

Name	Role	Version	Date
s 9(2)(a)	Business Owner	2.1	20 Oct 2020  RE Approval Required IPE Functi
s9(2)(a)		2.2	22 Oct 2020  RE Approval Required IPE Functi

Terminology

Enrolment versus registration

In this solution, enrolment refers to a business process, which involves the capture and register steps for a client identity (which staff perform in IPE) along with other business activities.





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1 Introduction

1.1 Outcome statement

Immigration NZ is seeking to replace Daon Enroll as its primary solution for In-Person identity enrolment.

INZ's key objectives for the new solution are:

- Capture of in-person enrolment including biometrics (face and fingerprints) and biographics,
- Centralised, automated updating and maintenance of the client equipment from a central service management platform,
- On Shore, local support from a Global tier 1 provider.
- Align the hardware and software components of the solution with standard, off-the-shelf products wherever possible.

INZ expects that the enhanced IPE functionality will streamline the enrolment process by reducing common sources of error within the current technologies and methods.

1.2 Purpose of this document

This document specifies the detail in terms of features, tasks, and business processes that will realise the functional and non-functional requirements

These features should be supported by the hardware (device) used for the IPE processes and scenarios.

Features specified in this document meet the primary requirements for the IPE solution, however, additional out of the box features or configuration of SmartScan may also be required.

This specification will be updated with any agreed details emerging during the detailed design phase and project implementation.

1.3 Audience

SME, Vendor, Tester, User, Business Analyst, Business Owner, System Owner.

**Pages 13 to 51 have been removed in full
under s 6(c) of the Act**



2 Features

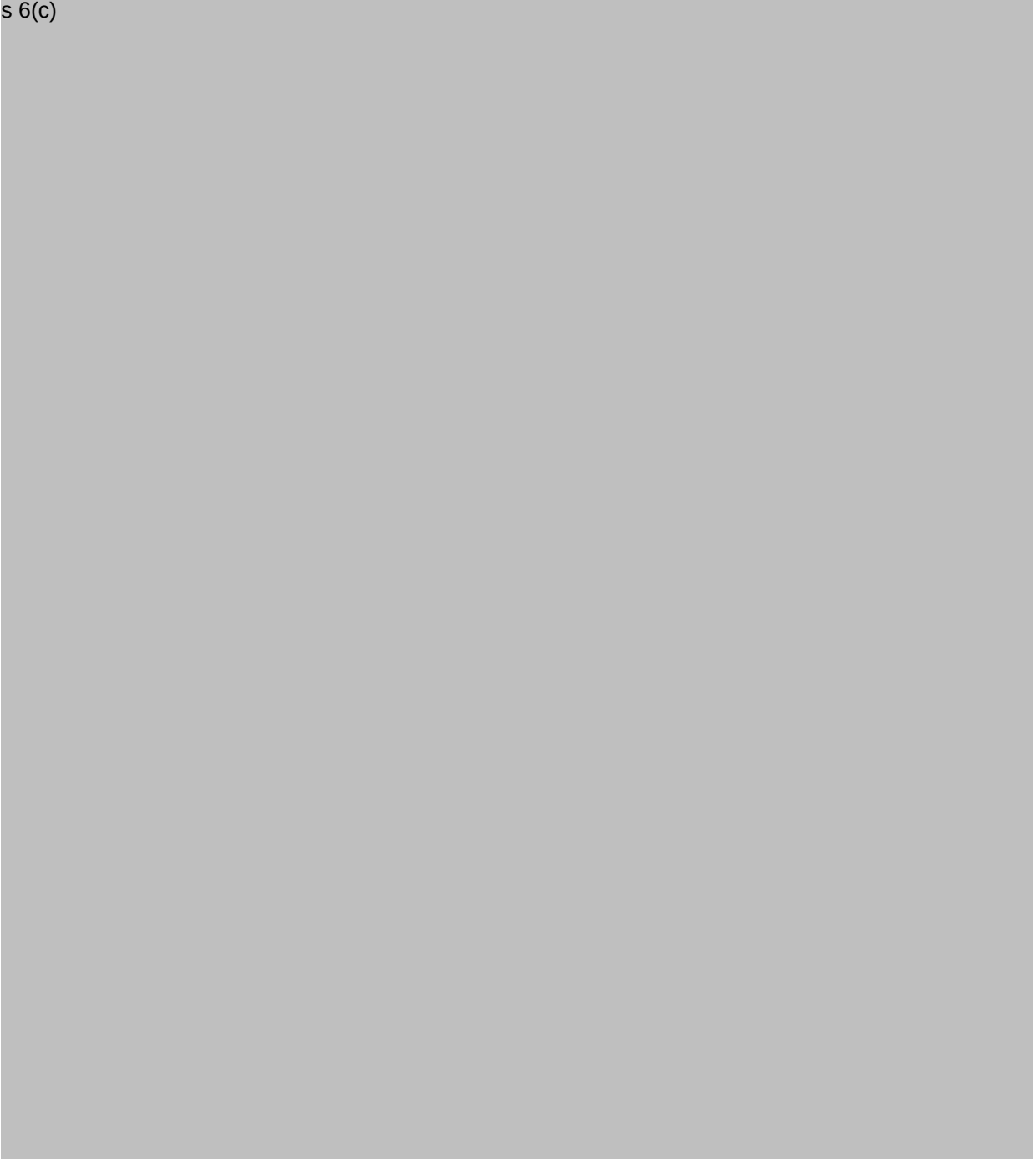
Features represent the low level functional building blocks of the system that will be used by users to capture identity data.

2.1 Scan Travel Documents

Objective of this feature is to capture and display the details from the travel document being scanned by the user, for the identity being enrolled.

Behaviour

s 6(c)



BCU Requirements Reconciliation

As at 3 Feb 2021

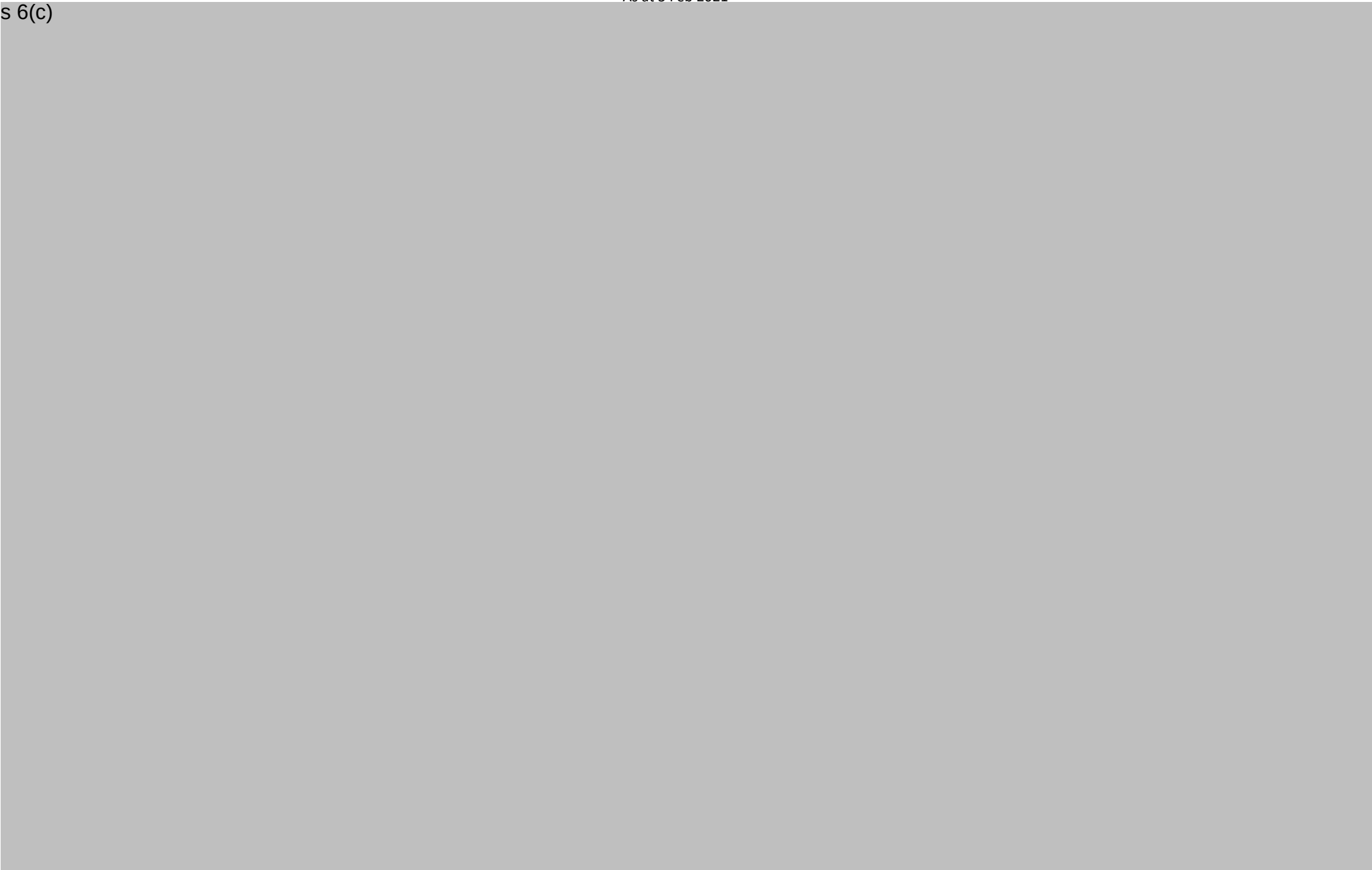
s 6(c)



BCU Requirements Reconciliation

As at 3 Feb 2021

s 6(c)



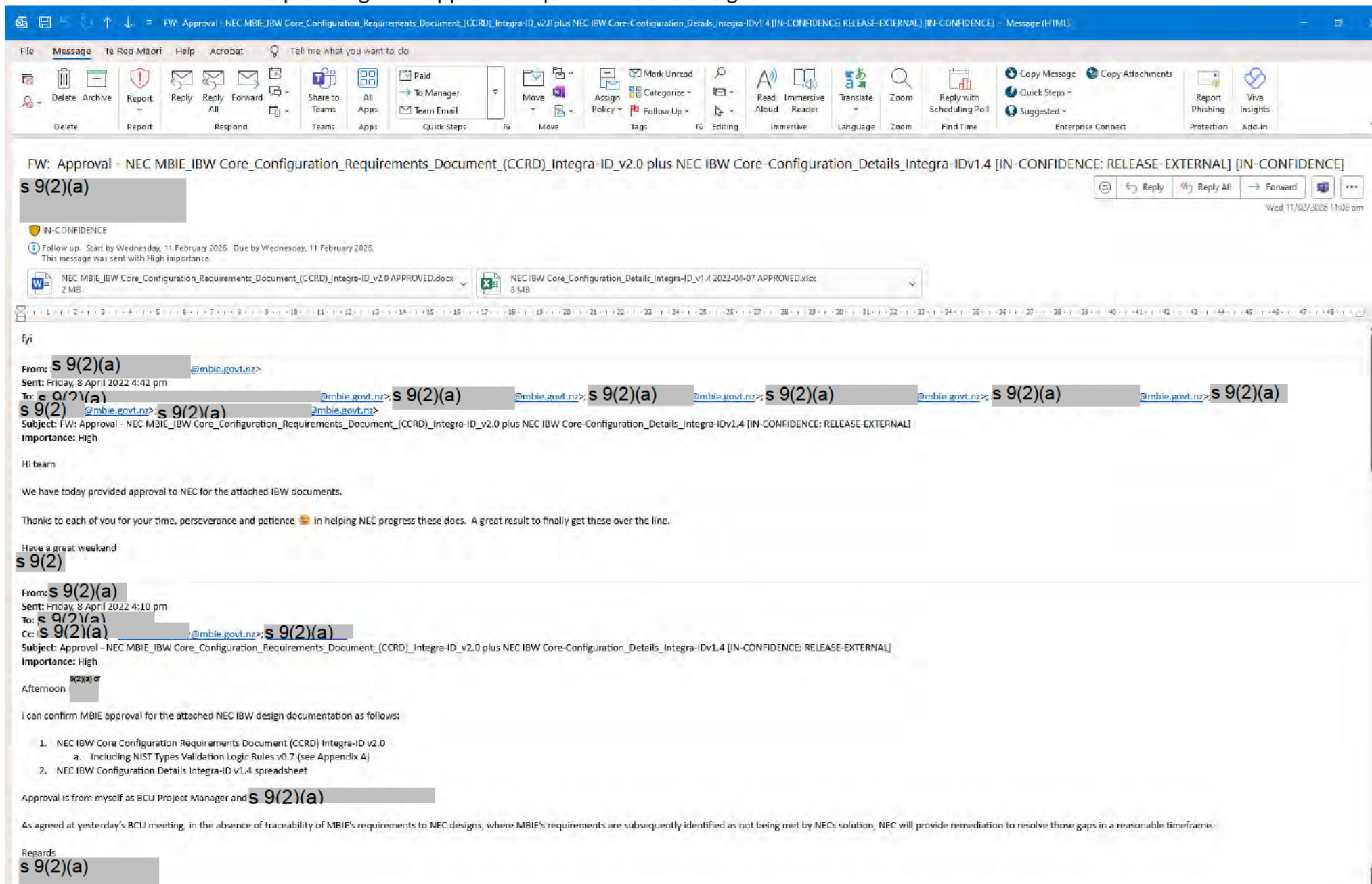
BCU Requirements Reconciliation

As at 3 Feb 2021

s 6(c)



Email trails from MBIE to NEC providing MBIE approved requirements and designs:



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s 9(2) @mbie.govt.nz | 9(2)(a) of the
(env) s, 110 Featherston Street, Wellington | PO Box 1473, Wellington, 6011, New Zealand

From: s 9(2)(a)
Sent: Friday, 8 April 2022 3:31 pm
To: s 9(2)(a) @mbie.govt.nz>
Cc: s 9(2)(a) @mbie.govt.nz>; s 9(2)(a) @mbie.govt.nz> s 9(2)(a) @mbie.govt.nz>
Subject: RE: FOR APPROVAL: NEC MBIE_IBW Core_Configuration_Requirements_Document_(CCRD)_Integra-ID_v2.0 plus NEC IBW Core_Configuration_Details_Integra-IDv1.4 [IN-CONFIDENCE: RELEASE-EXTERNAL]

I confirm my approval of the IBW CCRD and IBW configuration spreadsheet.

s 9(2)

From: s 9(2)(a) @mbie.govt.nz>
Sent: Friday, 8 April 2022 3:09 PM
To: s 9(2)(a) @mbie.govt.nz>
Cc: s 9(2)(a) @mbie.govt.nz> s 9(2)(a) @mbie.govt.nz> s 9(2)(a) @mbie.govt.nz>
Subject: FOR APPROVAL: NEC MBIE_IBW Core_Configuration_Requirements_Document_(CCRD)_Integra-ID_v2.0 plus NEC IBW Core_Configuration_Details_Integra-IDv1.4 [IN-CONFIDENCE: RELEASE-EXTERNAL]
Importance: High

Hi s 9(2)

Please find attached the final NEC IBW documents as follows. If you could confirm your approval as BCU Solution Architect would be appreciated

1. NEC IBW CCRD s
a. Including NIST Types Validation Logic Rules s
2. NEC IBW Configuration Spreadsheet s

Regards

s 9(2)(a)

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FW: APPROVED: NEC REVEAL MBE Specific Configuration Requirements Document, (CSCRD) 05_12_2022 V3.2 [IN-CONFIDENCE RELEASE-EXTERNAL] [IN-CONFIDENCE] - Message (HTML)

Wed 11/02/2025 11:11 am

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 84

From: s 9(2)(a) <[REDACTED]@mbie.govt.nz>
Sent: Monday, 16 May 2022 9:27 AM
To: s 9(2)(a) <[REDACTED]@mbie.govt.nz>
Subject: FOR APPROVAL: NEC MBIE_Specific_Configuration_Requirements_Document (CSCRD_05_12)

IN CONFIDENCE

Importance: High

Hi **S**

Please confirm your approval as BCU Solution Architect for the attached Reveal MBIE Specific CSCRD v3_2 (dated 12-May-22)

Many thanks

s 9(2)(a)

ICT | Digital, Data and Insights Group

Ministry of Business, Innovation & Employment

s 9(2) [@mbie.govt.nz](mailto:s9(2)@mbie.govt.nz) | **9(2)(a)** of the

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IN CONFIDENCE

FW: APPROVED: NEC MBIE REVEAL UI Designs [IN-CONFIDENCE: RELEASE-EXTERNAL] [IN-CONFIDENCE] - Message (HTML)

File Message To: Reo Māori Help Acrobat Tell me what you want to do

Delete Archive Report Reply Reply All Forward Share to Teams All Apps Paid To Manager Move Assign Policy Categorize Mark Unread Follow Up Editing Immersive Reader Translate Zoom Reply with Scheduling Poll Copy Message Copy Attachments Quick Steps Suggested Report Phishing Viva Insights Enterprise Connect Protection Add-in

FW: APPROVED: NEC MBIE REVEAL UI Designs [IN-CONFIDENCE: RELEASE-EXTERNAL] [IN-CONFIDENCE]

s 9(2)(a)

IN-CONFIDENCE

Follow up. Start by Wednesday, 11 February 2026. Due by Wednesday, 11 February 2026. You replied to this message on 11/02/2026 2:25 pm. This message was sent with High importance.

NEC MBIE REVEAL_UI_Specific_Configuration_Details_v1_24 APPROVED.xlsx 3 MB

Reveal Wireframes Ad Hoc Search Wire Frame-updated-05-12-2022 APPROVED.pdf 772 KB

Reveal Wireframes Ad Hoc Search Wire Frame-updated-05-12-2022 APPROVED.vsdx 942 KB

Reveal Wireframes Dashboard - Analysis - Verify - Results-updated-04-07-20221 APPROVED.pdf 3 MB

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Reveal Wireframes Gallery Search & QC Edit Wire Frame-updated-04-07-202211 APPROVED.vsdx 9 MB

Reveal Wireframes Gallery Search & QC Edit Wire Frame-updated-04-07-202211 APPROVED.pdf

Reveal Wireframes Global Search Wireframe_2_24_2022 APPROVED.pdf

Reveal Wireframes Global Search Wireframe_2_24_2022 APPROVED.vsdx

fyi

From: s 9(2)(a) @mbie.govt.nz

Sent: Monday, 16 May 2022 10:20 am

To: s 9(2)(a)

Cc: s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz

Subject: APPROVED: NEC MBIE REVEAL UI Designs [IN-CONFIDENCE: RELEASE-EXTERNAL]

Importance: High

Morning S

I can confirm MBIE approval for the attached Reveal UI Configuration and Wireframes. Approval is from myself as BCU Project Manager and s 9(2)(a)

1. Reveal UI Configuration Spreadsheet v1_24 (dated 13-May-22)
2. Reveal Wireframes
 - a. Ad Hoc Search (dated 12-May-22)
 - b. Dashboard - Analysis - Verify - Results (dated 7-April-22)
 - c. Gallery Search & QC Edit (dated 7-April-22)
 - d. Global Search (dated 24-Feb-22)
 - e. Unknown Face Enrollment (dated 22-Feb-22)

In the absence of traceability of MBIE's requirements to NEC designs, where MBIE's requirements are subsequently identified as not being met by NEC's solution, NEC will provide remediation to resolve those gaps in a reasonable timeframe.

Kind regards

s 9(2)(a)

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Ministry of Business, Innovation & Employment

s 9(2)(a) @mbie.govt.nz | Mobile: 9(2)(a) of
Level 5, 110 Featherston Street, Wellington | PO Box 1473, Wellington, 6011, New Zealand

From: s 9(2)(a)

Sent: Monday, 16 May 2022 9:55 am

To: s 9(2)(a) @mbie.govt.nz; s 9(2)(a) @mbie.govt.nz

IN CONFIDENCE

Importance: High

Hi **S**

Can you please confirm your approval as BCU Solution Architect for the following NEC Reveal documents:

1. Reveal UI Configuration Spreadsheet v1_24 (dated 13-May-22)
2. Reveal Wireframes
 - a. Ad Hoc Search (dated 12-May-22)
 - b. Dashboard – Analysis – Verify – Results (dated 7-April-22)
 - c. Gallery Search & QC Edit (dated 7-April-22)
 - d. Global Search (dated 24-Feb-22)
 - e. Unknown Face Enrollment (dated 22-Feb-22)

Many thanks

s 9(2)(a)

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s 9(2)(a) [s9\(2\)\(a\)@mbie.govt.nz](mailto:s9(2)(a)@mbie.govt.nz) | Mobile: **9(2)(a)** of

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