

Consumer Health Identity Standard

HISO 10046:2021

Published August 2021

Contributors

The following organisations contributed to the development of this standard through representation on the Health Information Standards Organisation (HISO) or one of its working groups:

- Health Sector Architects Group
- Chief Medical Officers Forum
- Patients First
- Māori interests
- interRAI New Zealand
- National Health IT Board Consumer Panel
- Nursing Council of New Zealand
- Accident Compensation Corporation
- Health Informatics New Zealand
- Māori Health Directorate

Document information

Citation: Ministry of Health. 2021. *HISO 10046:2021 Consumer Health Identity Standard*. Wellington: Ministry of Health.

Published in August 2021 by the Ministry of Health
PO Box 5013, Wellington 6140, New Zealand

ISBN 978-1-99-100729-2 (online)



HISO standards are published by the Ministry of Health for the health and disability sector.

This document is available at health.govt.nz



This work is licensed under the Creative Commons Attribution 4.0 International licence. In essence, you are free to: share ie, copy and redistribute the material in any medium or format; adapt ie, remix, transform and build upon the material. You must give appropriate credit, provide a link to the licence and indicate if changes were made.

Contents

1	Introduction	1
1.1	Purpose and scope	1
1.2	Legislation and regulations	1
1.3	Related specifications	1
1.4	Data element definitions	2
1.5	Changes in this revision	3
2	Person identity	4
2.1	NHI number	4
2.2	Person name	8
2.3	Birth date and place	14
2.4	Gender	17
2.5	Ethnicity	18
2.6	Mother's birth name	19
2.7	New Zealand residency and citizenship details	20
2.8	Person death information	22
3	Person address	25
3.1	Address format	25
3.2	Building name	26
3.3	Street address/address line 1	26
3.4	Additional street address/address line 2	27
3.5	Suburb/address line 3	27
3.6	Town or city/address line 4	27
3.7	Postcode (zip/postal code)	28
3.8	Country code	28
3.9	Address protected flag	28
3.10	Permanent address flag	29
3.11	Date address effective from	29
3.12	Date address effective to	30
3.13	Domicile code	30
3.14	Primary address flag	30
3.15	Address type	31
4	Language	32
4.1	Language	32

5	Contact information	33
5.1	Contact usage	33
5.2	Contact type	34
5.3	Contact details	35
5.4	Contact protected flag	35
5.5	Date contact details effective from	36
5.6	Date contact details effective to	36
5.7	Preferred contact	36
6	Adoption	37
	Appendix A: Person name prefix codes	38
	Appendix B: Person name suffix codes	41
List of Tables		
	Table 1: Conversion table for check digit calculation	6
	Table 2: Example check digit calculation for current NHI number ZAC536_	7
	Table 3: Example check digit calculation for new NHI number ZBC42D_	7

1 Introduction

1.1 Purpose and scope

This document presents a standard data set specification for the collection and representation of personal identity and demographic information for patients and consumers of health and disability services.

This is a standard for the National Health Index (NHI) system and for the practice management systems, patient administration systems and clinical information systems used by New Zealand health providers.

This standard does not cover clinical information.

The standard is a living document and updates will continue to be made as new data requirements arise and as new all-of-government mandated data standards are introduced.

For the next iteration of the standard, work is underway to determine requirements for recording several new data elements. This includes 'sex recorded at birth', Māori descent and iwi affiliation, disability status and personal pronouns.

1.2 Legislation and regulations

The following Acts of Parliament and Regulations have relevance to this standard. Readers should be aware of the need to consider other legislation and regulations as may be appropriate to their own implementation or use of this standard.

- Health Act 1956
- Health and Disability Commissioner (Code of Health and Disability Services Consumers' Rights) Regulations 1996
- Health Information Privacy Code 2020
- Privacy Act 2020

1.3 Related specifications

The documents listed below have been used in the development of this standard.

- ISO/IEC 11179 Information Technology – specification and standardization of data elements – Part 3: Basic attributes of data elements
- ISO 639-3:2007 Codes for the representation of names of languages – Part 3: Alpha-3 code for comprehensive coverage of languages

- AS/NZS 2632.1:2020 Codes for the representation of names of countries and their subdivisions – Part 1: Country Codes
- ISO 8601-1:2019 Date and time. Representations for information interchange – Part 1: Basic rules
- **HISO 10001:2017 Ethnicity Data Protocols**
- **HISO 10005 Health Practitioner Index (HPI) Data Set**
- **HISO 10006 Health Practitioner Index (HPI) Code Set**
- **HISO 10029:2015 Health Information Security Framework**
- **HISO 10064:2017 Health Information Governance Guidelines**
- **National collections domicile codes**
- **Identification Management Standards**
- **Health and Disability Services Eligibility Direction 2011**
- **New Zealand Government Customer Information Quality (CIQ) Profiles**

1.4 Data element definitions

Each data element is defined according to a set of metadata components based on ISO/IEC Standard 11179 *Information Technology – specification and standardization of data elements, 2004*.¹ Most components (eg, definition, data type, representational class, data domain) describe essential features of the structure of a data element.

Definition	A statement that expresses the essential nature of the data element and its differentiation from all other data elements.		
Source standards	Details of established data definitions or guidelines for data elements that have been cited in this standard.		
Data type	Alphanumeric (X), Alphabetic (A), Numeric (N, numbers including decimals), Boolean, Date	Representational class	For X, A, and N, use code, free text or identifier. For date, use full, partial or both date types. Does not apply to Boolean types.
Field size	Maximum number of characters that may be recorded in the field.	Representational layout	The arrangement of characters in the data element. For example, 'A(50)' means up to 50 alphabetic characters; 'NNAAAA' means numeric, numeric, alpha, alpha, alpha, alpha. Does not apply to Boolean types. Year (Y), Month (M) and Day (D). Full date representation is YYYYMMDD.

¹ See <https://standards.iso.org/ittf/PubliclyAvailableStandards/index.html>

Data domain	The valid values or codes that are acceptable for the data element. The data elements contained in this standard are dates, free text or coded. For each data element that is coded, the following is provided: <u>Either</u> a code value, as well as a description and an explanation of the code value <u>Or</u> reference to internationally recognised code values (eg, International Organization for Standardization (ISO), Department of Internal Affairs (DIA)).
Obligation	Indicates if the data element is mandatory or optional for storage within the entity being discussed (eg, Contact Usage Code is mandatory when Contact is being added). It also mentions any conditional obligations on the data element.
Guide for use	Additional guidance to inform the use of the data element when collecting and recording that particular individual data element.
Verification rules	Quality control mechanisms that preclude non-valid codes from the data element.

1.5 Changes in this revision

The 2021 revision of this standard incorporates:

- further information related to the upcoming NHI number format change
- a wider range of options for recording gender and ethnicity
- updated legislation references (the Privacy Act and Health Information Privacy Code)
- removing outdated elements (the New Zealand Post address specification format) and adding reference to government mandated standards
- introducing more specific adoption and implementation requirements

2 Person identity

This section describes the data elements needed for the unambiguous identification of individuals. Some additional data elements are included to assist in the identification of individuals and the administration of their identity record.

Data element	Data element
2.1 NHI number	2.5 Ethnicity
2.2 Person name	2.6 Mother's birth name
2.3 Birth date and place	2.7 New Zealand residency and citizenship details
2.4 Gender	2.8 Person death information

2.1 NHI number

An NHI number is assigned to each person at their first use of health and disability services. The NHI system has been in place since the 1990s as the system used to issue NHI numbers and record person identity and demographic information. The NHI number is the primary key used to associate people with their health information.

2.1.1 NHI number format change

By 2025 the NHI system will have exhausted all of the NHI numbers that are available using the current AAANNNC format, which is three letters, followed by three digits and then a numeric check digit.

After sector consultation, we have decided to supplement the existing system by introducing a new seven-character NHI number format that will allow NHI numbers to be issued for several more decades.

The chosen new NHI number format is AAANNAC, which is three letters, followed by two digits, one letter and an alphabetic check character.

Once introduced, the new format will be used for issuing all new NHI numbers. All existing NHI numbers will be retained in their original format and will continue to be used as before. The two formats will co-exist indefinitely, and all administrative and clinical systems will need to support them both.

Continuing with seven-character NHI numbers is intended to minimise the impact on primary care and hospital information systems that are designed for identifiers of this length on screens, labels, barcodes etc.

All systems should be changed to accommodate the new format by July 2023 to allow a comfortable lead time before the first numbers are issued in the new format.

2.1.2 Current NHI number format

The current NHI number format will continue to be supported, except for the issuing of new numbers, once the new and supplementary format is introduced.

NHI numbers are issued sequentially on the first six characters eg ZAA0067, ZAA0075, ZAA0083, ZAA0091, ZAA0105, ZAA0113, ZAA0121, ZAA0130, ZAA0148, ZAA0156.....ZAB0003, ZAB0011, ZAB0020, ZAB0038, ZAB0046, ZAB0054, ZAB0062 and so on.

Definition	A unique 7-character identification number assigned to a person by the NHI system.		
Source standards			
Data type	Alphanumeric	Representational class	Identifier
Field size	Max: 7	Representational layout	AAANNNC
Data domain	Valid NHI number only		
Obligation	Mandatory		
Guide for use	<p>Only the NHI system generates the unique NHI number that is assigned to a person's identity. NHI numbers are not reused once assigned to a person. Where more than one number exists for a person, one number is declared 'live' and all other numbers are made 'dormant' and attached to the live record.</p> <p>The NHI number is the primary key for individual patients' records.</p> <p>The assignment of the first six characters is arbitrary and bears no relationship to the individual to whom the NHI number is assigned.</p> <p>The NHI number is represented with the alphabetic characters in upper case.</p>		
Verification rules	<p>A – is an alphabetic character but not 'I' or 'O'</p> <p>N – is a number 0–9</p> <p>C – is a numeric check digit 0–9, calculated using the algorithm in Table 2 below</p>		

2.1.3 New NHI number format-

This is the new NHI number format that will be introduced with changes to the NHI system from July 2022. Systems will need to support both the new format and the original format.

NHI numbers will be issued in sequential order of the first letter and then a randomised allocation of the next 5 characters with the last character, an alpha check digit. All NHIs starting with A will be issued first, B's next, C's and so on. Within the A's the remaining characters would be in a random order e.g. ALU18KZ, AUL78CF, ARM79XB, ATD33RD, ADH48ZJ.....BGA66HA, BTX92DF, BMW47VV, BCN94BU

Definition	A unique 7-character identification number assigned to a person by the NHI system.		
Source standards			
Data type	Alphanumeric	Representational class	Identifier
Field size	Max: 7	Representational layout	AAANNAC

Data domain	Valid NHI number only
Obligation	Mandatory
Guide for use	<p>Only the NHI system generates the unique NHI number that is assigned to a person's identity. NHI numbers are not reused once assigned to a person. Where more than one number exists for a person, one number is declared 'live' and all other numbers are made 'dormant' and attached to the live record.</p> <p>The NHI number is the primary key for patients' records.</p> <p>The assignment of the first six characters is arbitrary and bears no relationship to the individual to whom the NHI number is assigned.</p> <p>The NHI number is represented with the alphabetic characters in upper case.</p>
Verification rules	<p>A – is an alphabetic character but not 'I' or 'O'</p> <p>N – is a number 0–9</p> <p>C – is an alphabetic check character (A–Z, excluding I and O), calculated using the algorithm in Table 3 below</p>

2.1.4 NHI number check digit calculation

There are two variants of the check digit algorithm to allow for the current NHI number format having a numeric check digit while the new format has an alphabetic check character.

Systems that wish to validate the check digit will need to determine which format a particular NHI number is in. If the last character is a numeric digit, then it is the current format. If it is a letter, then it is the new format.

The calculation is as follows.

Each alphabetic character is given a numeric value equal to its ordinal position within a version of the alphabet that omits the letters I and O. The ordinal range is 1–24 as shown in Table 1. This gives A=1 and Z=24, for example.

Each numeric character is used with its face value 0–9 in the calculation.

Table 1: Conversion table for check digit calculation

A	1	J	9	S	17
B	2	K	10	T	18
C	3	L	11	U	19
D	4	M	12	V	20
E	5	N	13	W	21
F	6	P	14	X	22
G	7	Q	15	Y	23
H	8	R	16	Z	24

Each character's equivalent numeric value is then multiplied by its reverse ordinal position within the NHI number. The first value is multiplied by 7, the second by 6, the third by 5, the fourth by 4, the fifth by 3 and the sixth by 2. The sum of the six products is calculated.

For NHI numbers in the current format, the calculated sum modulo 11 is subtracted from 11 to give the check digit. A value of 10 is translated to zero. If the sum modulo 11 equals zero, then the NHI number is invalid and cannot be used.

For NHI numbers in the new format, the calculated sum modulo 24 is subtracted from 24 to give an index number. If the index number is zero, then the NHI number is invalid and cannot be used. Otherwise, the check character is the letter that corresponds to the index number in Table 1.

Table 2: Example check digit calculation for current NHI number ZAC536_

Step	Example
Step 1. Calculate the numeric values for each position	Z=24 A=1 C=3 5=5 3=3 6=6
Step 2. Multiply these values by their reverse ordinal position	$24 \times 7 = 168$ $1 \times 6 = 6$ $3 \times 5 = 15$ $5 \times 4 = 20$ $3 \times 3 = 9$ $6 \times 2 = 12$
Step 3. Sum the results	$168 + 6 + 15 + 20 + 9 + 12 = 230$
Step 4. Divide by 11 and get the remainder	$230 \text{ mod } 11 = 10$
Step 5. Subtract this from 11 to get the check digit	$11 - 10 = 1$
Step 6. Append the check digit to the NHI number	ZAC5361

Table 3: Example check digit calculation for new NHI number ZBC42D_

Step	Example
Step 1. Calculate the numeric values for each position	Z=24 B=2 C=3 4=4 2=2 D=4
Step 2. Multiply these values by their reverse ordinal position	$24 \times 7 = 168$ $2 \times 6 = 12$ $3 \times 5 = 15$

	$4 \times 4 = 16$ $2 \times 3 = 6$ $4 \times 2 = 8$
Step 3. Sum the results	$168 + 12 + 15 + 16 + 6 + 8 = 225$
Step 4. Divide by 24 and get the remainder	$225 \text{ mod } 24 = 9$
Step 5. Subtract this from 24 to get the index number to the check character in Table 1	$24 - 9 = 15$ $15 = Q$
Step 6. Append the check digit to the NHI number	ZBC42DQ

2.1.5 Invalid NHI numbers

NHI numbers are sometimes referred to as being valid or invalid. Any NHI number that does not fit the correct format or has an incorrect check digit is invalid.

The new NHI number format contains more letters than the original format, and there is now a risk of letter sequences that may be inappropriate for an identifier. A list will be maintained to ensure that NHI numbers are not issued with these sequences.

2.1.6 NHI test numbers

NHI numbers starting with the letter Z are reserved as test numbers.

NHI numbers in the new format will be available in the NHI test environment from July 2020 for test use eg, ZZZ00AX, ZGT56KB, ZHS91BR, ZHW58CN, ZLV86AX.

2.2 Person name

A person's name details are captured using a combination of the following data elements:

Data element	Data element
2.2.1 Title (prefix)	2.2.6 Preferred name indicator
2.2.2 Given name	2.2.7 Name protection flag
2.2.3 Other given name(s)	2.2.8 Name information source
2.2.4 Family name (surname)	2.2.9 Date name effective from
2.2.5 Name suffix	2.2.10 Date name effective to

Name elements are labelled by the actual order of the names (eg, given name, second and further given name(s), surname). No meaning can or should be derived from the order of names. For example, the surname or family name may be either in the fields titled 'given name' or the 'family name' depending on the cultural naming convention that particular person uses. There may be more than one name recorded for each person. At least one name must be recorded.

The person name data set is designed to adhere to the **mandated data standard for person name** and the **NZ Government OASIS CIQ Name Profile**. The CIQ Name Profile states 'All name elements must be encoded in a form that preserves macrons and diacritics. UTF-8 is the minimum acceptable standard'.

Where the person offers more than one name, clarification should be obtained from the person to ensure accurate identification and recording of the various names. All currently used names, as well as all names by which the person has previously been known, should be recorded. An example of this follows.

Example	Title (prefix)	Given name	Other (second and subsequent) given name(s)	Family name (surname)	Name suffix	Preferred name indicator
The full name of the person	Sir	Robert	Leonard Jackson	Hall-Smith	Jnr OBE	
Any name by which the person is known	Sir	Robert	Jack	Smith		Y
The name at birth of a female person	Ms	Mary-Anne	Ellen	Francis		
The name of a person as changed by statutory declaration	Mrs	Janet	May	Russell		

2.2.1 Title (prefix)

Definition	The 'Title (prefix)' is an honorific form of address preceding a name, used when addressing a person		
Source standards	NZ CIQ Name Profile		
Data type	Alphabetic	Representational class	Code
Field size	Max: 10	Representational layout	A(10)
Data domain	Appendix A: Person name prefix code		
Obligation	Optional		
Guide for use			
Verification rules	Valid code set value only		

2.2.2 Given name

Definition	The person's forename or given name at birth		
Source standards	NZ CIQ Name Profile		
Data type	Alphabetic	Representational class	Free text
Field size	Max: 50	Representational layout	A(50)
Data domain			
Obligation	Mandatory when section 2.2.4 Family name (surname) is not supplied.		

Guide for use	<p>This data element should only be used for the 'Given name' ('first name').</p> <p>The data element for Other given name(s) should be used for second and subsequent names or initials, but not the Family name (surname).</p> <p>The text entered can include one or more spaces, an apostrophe, and/or a hyphen (eg, 'Te Manaia', 'Mary-Anne'). All name elements must be encoded in a form that preserves macrons and diacritics. UTF-8 is the minimum acceptable standard eg, Kāhu vs Kahu</p>
Verification rules	Given name is required when family name (surname) is not available.

2.2.3 Other given name(s)

Definition	The person's other given names or middle name and initials, but not the family name at birth		
Source standards	NZ CIQ Name Profile		
Data type	Alphabetic	Representational class	Free text
Field size	Max: 100	Representational layout	A(100)
Data domain			
Obligation	Optional. May be recorded only after a first Given name is supplied.		
Guide for use	<p>This data element should only be used for a person's further given names or initials, but not for their given or family name.</p> <p>Field may be left blank if a person does not have any second or further given names. If there are multiple other given names, separate each entry with a blank space.</p> <p>Text entered can include one or more spaces, an apostrophe, and/or a hyphen (eg, 'Te Manaia', 'Mary-Anne'). All name elements must be encoded in a form that preserves macrons and diacritics. UTF-8 is the minimum acceptable standard eg, Kāhu vs Kahu</p>		
Verification rules			

2.2.4 Family name (surname)

Definition	The family name (surname) of a person as distinct from their given, second and subsequent name(s)		
Source standards	NZ CIQ Name Profile		
Data type	Alphabetic	Representational class	Free text
Field size	Max: 100	Representational layout	A(100)
Data domain			
Obligation	Mandatory when given name is not supplied.		

Guide for use	<p>This data element should be used for only the person's surname, but <u>not</u> for their given (first) and further 'other given name(s)' or initials.</p> <p>The content must preserve sentence case. For example: 'Maccall' is different from 'MacCall'.</p> <p>The text entered can include one or more spaces, an apostrophe, and/or a hyphen (eg, 'Van der Valk', 'O'Leary', 'Vaughn-Jones'). All name elements must be encoded in a form that preserves macrons and diacritics. UTF-8 is the minimum acceptable standard eg, Kāhu vs Kahu</p>
Verification rules	Family name must be recorded if person's given name is not available

2.2.5 Name suffix

Definition	The suffix contains the parts of a person's name attached to the end of a name but other than the title, given names and family name – eg, awards, qualifications, academic, honorary, esquire, professional and professional membership		
Source standards	NZ CIQ Name Profile		
Data type	Alphabetic	Representational class	Code
Field size	Max: 5	Representational layout	A(5)
Data domain	Appendix B: Person name suffix code		
Obligation	Optional		
Guide for use	<p>Name suffix can include generational identifiers – eg, JNR (Junior), SNR (Senior).</p> <p>Multiple codes may be used (eg, 'DSM', 'OBE')</p>		
Verification rules	Valid code set value only		

2.2.6 Preferred name indicator

Definition	An indicator used to denote that a particular person name is the person's preferred name		
Source standards	NZ CIQ Name Profile		
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	<p>1 – Preferred Name</p> <p>0 – Not Preferred Name</p>		
Obligation	Mandatory		
Guide for use	This flag may be applied to any of the person's names		
Verification rules	Valid value only. A person can only have one preferred name at any given time		

2.2.7 Name protection flag

Definition	This indicator denotes that the person's name information is to be held 'in confidence'		
Source standards			
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	1 – Protected 0 – Not Protected		
Obligation	Mandatory		
Guide for use	The flag indicates whether person name information held can be shared as part of the person name record. Organisations holding or accessing this information are responsible for ensuring appropriate controls are implemented and active to provide name protection. Default value is 0. This flag is set to 1 if the person indicates they have a reason to not share this name		
Verification rules	Valid value only		

2.2.8 Name information source

Definition	A code indicating the name source																																						
Source standards																																							
Data type	Boolean	Representational class	N/A																																				
Field size	Max: 1	Representational layout	N(1,0)																																				
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>BRCT</td> <td>Birth Certificate</td> <td></td> </tr> <tr> <td>BREG</td> <td>Birth Register</td> <td></td> </tr> <tr> <td>CSC</td> <td>Community Services Card</td> <td></td> </tr> <tr> <td>NPRF</td> <td>Proof not sighted</td> <td>Information (Not proof) provided by the person/whānau</td> </tr> <tr> <td>NZCI</td> <td>NZ Certificate of Identity</td> <td></td> </tr> <tr> <td>NZCT</td> <td>NZ Citizenship Certificate</td> <td></td> </tr> <tr> <td>NZCU</td> <td>NZ Civil Union Certificate</td> <td></td> </tr> <tr> <td>NZDL</td> <td>NZ Driver Licence</td> <td></td> </tr> <tr> <td>NZET</td> <td>NZ Emergency Travel Document</td> <td></td> </tr> <tr> <td>NZMC</td> <td>NZ Marriage Certificate</td> <td></td> </tr> <tr> <td>NZNC</td> <td>NZ Name Change Certificate or Deed Poll</td> <td>NZ Name Change Certificate effective from 25 January 2009, Name Change by Statutory</td> </tr> </tbody> </table>			Code	Description	Comment	BRCT	Birth Certificate		BREG	Birth Register		CSC	Community Services Card		NPRF	Proof not sighted	Information (Not proof) provided by the person/whānau	NZCI	NZ Certificate of Identity		NZCT	NZ Citizenship Certificate		NZCU	NZ Civil Union Certificate		NZDL	NZ Driver Licence		NZET	NZ Emergency Travel Document		NZMC	NZ Marriage Certificate		NZNC	NZ Name Change Certificate or Deed Poll	NZ Name Change Certificate effective from 25 January 2009, Name Change by Statutory
Code	Description	Comment																																					
BRCT	Birth Certificate																																						
BREG	Birth Register																																						
CSC	Community Services Card																																						
NPRF	Proof not sighted	Information (Not proof) provided by the person/whānau																																					
NZCI	NZ Certificate of Identity																																						
NZCT	NZ Citizenship Certificate																																						
NZCU	NZ Civil Union Certificate																																						
NZDL	NZ Driver Licence																																						
NZET	NZ Emergency Travel Document																																						
NZMC	NZ Marriage Certificate																																						
NZNC	NZ Name Change Certificate or Deed Poll	NZ Name Change Certificate effective from 25 January 2009, Name Change by Statutory																																					

	Declaration Documents issued for names changes made between September 1995 and 25 January 2009, Deed Poll for name changes prior to September 1995	
	NZPV	NZ Permanent Resident Visa A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand
	NZTV	NZ Resident Visa A New Zealand Resident Visa (time bound) issued by Immigration New Zealand
	NZRT	NZ Refugee Travel Document
	OTHR	Other Other Official documents
	PPRT	Passport
Obligation	Optional	
Guide for use	This information should be recorded for any person name element where valid proof of identity documents have been provided	
Verification rules	Valid code set value only	

2.2.9 Date name effective from

Definition	The date the name is effective from		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full date
Field size	Max: 8	Representational layout	YYYYMMDD
Data domain	A valid date		
Obligation	Optional		
Guide for use	A valid date greater than or equal to the date recorded in Date of birth		
Verification rules	Valid date only		

2.2.10 Date name effective to

Definition	The date the name is effective to		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full date
Field size	Max: 8	Representational layout	YYYYMMDD
Data domain	A valid date		

Obligation	Optional
Guide for use	
Verification rules	Valid date only

2.3 Birth date and place

A person's birth details are captured using a combination of the following data elements:

Data element	Data element
2.3.1 Date of birth	2.3.4 Country of birth code
2.3.2 Date of birth information source	2.3.5 Country of birth information source
2.3.3 Place of birth	

The date of birth data element conforms to the **mandated data standard for date of birth**.

2.3.1 Date of birth

Definition	The date on which the person was born		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full or partial date
Field size	Max: 8	Representational layout	YYYY[MM[DD]]
Data domain	A valid full date or partial date		
Obligation	The Year component of the date is <u>mandatory</u> . Month is <u>conditional</u> and to be used if known. Day is <u>conditional</u> and to be used if known <u>and</u> month has been recorded		
Guide for use	Year of birth must be recorded as a minimum		
Verification rules	The date of birth must be a valid day, month and year combination and cannot be in the future For a partial date, the month of birth can be left blank if unknown. In this case, the day of birth must be blank		

2.3.2 Date of birth information source

Definition	A code indicating the origin of date of birth information																																												
Source standards																																													
Data type	Alphanumeric	Representational class	Code																																										
Field size	Max: 15	Representational layout	X(15)																																										
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>BRCT</td> <td>Birth Certificate</td> <td>An overseas birth certificate is acceptable</td> </tr> <tr> <td>BREG</td> <td>Birth Register</td> <td>Only applied by the Ministry of Health update from matching with the Birth Register</td> </tr> <tr> <td>HL7</td> <td>HL7 applied</td> <td>Date of birth has been applied via HL7 message</td> </tr> <tr> <td>MIGR</td> <td>Migrated</td> <td>From the legacy NHI system</td> </tr> <tr> <td>NPRF</td> <td>Proof Not Sighted</td> <td>Information (not proof) provided by the person/whānau</td> </tr> <tr> <td>NZCI</td> <td>NZ Certificate of Identity</td> <td></td> </tr> <tr> <td>NZCT</td> <td>NZ Citizenship Certificate</td> <td>New Zealand Citizenship Certificate issued by Department of Internal Affairs</td> </tr> <tr> <td>NZET</td> <td>NZ Emergency Travel Document</td> <td></td> </tr> <tr> <td>NZPV</td> <td>NZ Permanent Resident Visa</td> <td>A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand</td> </tr> <tr> <td>NZTV</td> <td>NZ Resident Visa</td> <td>A New Zealand Resident Visa (time bound) issued by Immigration New Zealand</td> </tr> <tr> <td>NZRT</td> <td>NZ Refugee Travel Document</td> <td></td> </tr> <tr> <td>OTHR</td> <td>Other</td> <td>Other official document provided</td> </tr> <tr> <td>PPRT</td> <td>Passport</td> <td>An overseas passport is acceptable</td> </tr> </tbody> </table>			Code	Description	Comment	BRCT	Birth Certificate	An overseas birth certificate is acceptable	BREG	Birth Register	Only applied by the Ministry of Health update from matching with the Birth Register	HL7	HL7 applied	Date of birth has been applied via HL7 message	MIGR	Migrated	From the legacy NHI system	NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau	NZCI	NZ Certificate of Identity		NZCT	NZ Citizenship Certificate	New Zealand Citizenship Certificate issued by Department of Internal Affairs	NZET	NZ Emergency Travel Document		NZPV	NZ Permanent Resident Visa	A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand	NZTV	NZ Resident Visa	A New Zealand Resident Visa (time bound) issued by Immigration New Zealand	NZRT	NZ Refugee Travel Document		OTHR	Other	Other official document provided	PPRT	Passport	An overseas passport is acceptable
Code	Description	Comment																																											
BRCT	Birth Certificate	An overseas birth certificate is acceptable																																											
BREG	Birth Register	Only applied by the Ministry of Health update from matching with the Birth Register																																											
HL7	HL7 applied	Date of birth has been applied via HL7 message																																											
MIGR	Migrated	From the legacy NHI system																																											
NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau																																											
NZCI	NZ Certificate of Identity																																												
NZCT	NZ Citizenship Certificate	New Zealand Citizenship Certificate issued by Department of Internal Affairs																																											
NZET	NZ Emergency Travel Document																																												
NZPV	NZ Permanent Resident Visa	A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand																																											
NZTV	NZ Resident Visa	A New Zealand Resident Visa (time bound) issued by Immigration New Zealand																																											
NZRT	NZ Refugee Travel Document																																												
OTHR	Other	Other official document provided																																											
PPRT	Passport	An overseas passport is acceptable																																											
Obligation	Mandatory																																												
Guide for use	This element should be recorded when a date of birth is supplied. Code 'NPRF' should be used if proof has not been sighted for date of birth source																																												
Verification rules	Valid code set value only																																												

2.3.3 Place of birth

Definition	The town, suburb, city etc where the person was born		
Source standards	NZ CIQ Address Profile		
Data type	Alphabetic	Representational class	Free text
Field size	Max: 100	Representational layout	A(100)
Data domain			
Obligation	Optional		
Guide for use	<p>The field can be left blank if this information is not known</p> <p>The text entered can include one or more spaces, an apostrophe, and/or a hyphen. This element must be encoded in a form that preserves macrons and diacritics. UTF-8 is the minimum acceptable standard</p>		
Verification rules			

2.3.4 Country of birth code

Definition	Country where the person was born		
Source standards	AS/NZS 2632.1:2020 <i>Codes for the representation of names of countries and their subdivisions – Part 1: Country codes</i>		
Data type	Alphabetic	Representational class	Code
Field size	Max: 4	Representational layout	A(4)
Data domain	See http://www.iso.org/iso/country_codes		
Obligation	Optional		
Guide for use	<p>Null is a valid option where the country of birth is unknown.</p> <p>Use the current country name code wherever possible and a former name code only by exception</p> <p>Accessible ISO Country Codes Collection is available at: https://www.iso.org/obp/ui/#iso:pub:PUB500001:en and https://www.iso.org/obp/ui/#search</p>		
Verification rules	Valid code set value only		

2.3.5 Country of birth information source

Definition	A code indicating the source of information supporting the code for country of birth																																						
Source standards																																							
Data type	Alphanumeric	Representational class	Code																																				
Field size	Max: 15	Representational layout	X(15)																																				
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>BRCT</td> <td>Birth Certificate</td> <td></td> </tr> <tr> <td>BREG</td> <td>Birth Register</td> <td>Only applied by the Ministry of Health update from matching with the Birth Register</td> </tr> <tr> <td>NPRF</td> <td>Proof Not Sighted</td> <td>Information (not proof) provided by the person/whānau</td> </tr> <tr> <td>NZCI</td> <td>NZ Certificate of Identity</td> <td></td> </tr> <tr> <td>NZCT</td> <td>NZ Citizenship Certificate</td> <td></td> </tr> <tr> <td>NZET</td> <td>NZ Emergency Travel Document</td> <td></td> </tr> <tr> <td>NZPV</td> <td>NZ Permanent Resident Visa</td> <td>A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand</td> </tr> <tr> <td>NZTV</td> <td>NZ Resident Visa</td> <td>A New Zealand Resident Visa (time bound) issued by Immigration New Zealand</td> </tr> <tr> <td>NZRT</td> <td>NZ Refugee Travel Document</td> <td></td> </tr> <tr> <td>OTHR</td> <td>Other</td> <td>Other official document provided</td> </tr> <tr> <td>PPRT</td> <td>Passport</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	BRCT	Birth Certificate		BREG	Birth Register	Only applied by the Ministry of Health update from matching with the Birth Register	NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau	NZCI	NZ Certificate of Identity		NZCT	NZ Citizenship Certificate		NZET	NZ Emergency Travel Document		NZPV	NZ Permanent Resident Visa	A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand	NZTV	NZ Resident Visa	A New Zealand Resident Visa (time bound) issued by Immigration New Zealand	NZRT	NZ Refugee Travel Document		OTHR	Other	Other official document provided	PPRT	Passport	
Code	Description	Comment																																					
BRCT	Birth Certificate																																						
BREG	Birth Register	Only applied by the Ministry of Health update from matching with the Birth Register																																					
NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau																																					
NZCI	NZ Certificate of Identity																																						
NZCT	NZ Citizenship Certificate																																						
NZET	NZ Emergency Travel Document																																						
NZPV	NZ Permanent Resident Visa	A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand																																					
NZTV	NZ Resident Visa	A New Zealand Resident Visa (time bound) issued by Immigration New Zealand																																					
NZRT	NZ Refugee Travel Document																																						
OTHR	Other	Other official document provided																																					
PPRT	Passport																																						
Obligation	Mandatory when a country of birth code is recorded																																						
Guide for use	Code 'NPRF' should be used if proof has not been sighted																																						
Verification rules	Valid code set value only																																						

2.4 Gender

The requirements in this section conform with the **Statistical standard for gender, sex, and variations of sex characteristics** published in April 2021 by Stats NZ | Tauranga Aotearoa.

Data element	Data element
2.4.1 Gender code	2.4.2 Gender detail

2.4.1 Gender code

Definition	A classification of the person's gender as self-identified by the person												
Source standards	Statistical standard for gender, sex, and variations of sex characteristics												
Data type	Alphabetic	Representational class	Code										
Field size	Max: 1	Representational layout	A(1)										
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Female Wahine</td> </tr> <tr> <td>M</td> <td>Male Tāne</td> </tr> <tr> <td>O</td> <td>Another gender He ira kē anō</td> </tr> <tr> <td>U</td> <td>Unspecified or unknown</td> </tr> </tbody> </table>			Code	Description	F	Female Wahine	M	Male Tāne	O	Another gender He ira kē anō	U	Unspecified or unknown
Code	Description												
F	Female Wahine												
M	Male Tāne												
O	Another gender He ira kē anō												
U	Unspecified or unknown												
Obligation	Mandatory												
Guide for use	<p>Gender is self-identified by the person. Gender refers to a person's social and personal identity as male, female, or another gender or genders that may be non-binary. A person's current gender may differ from the sex recorded at their birth. A person's gender may change over time. Some people may not identify with any gender.</p> <p>See the source standard for more information about how to collect gender information from the person.</p>												
Verification rules	Valid code set value only												

2.4.2 Gender detail

Definition	Text provided by the person with the choice of 'Another gender'		
Source standards			
Data type	Alphabetic	Representational class	Free text
Field size	Max: 150	Representational layout	A(150)
Data domain			
Obligation	Optional when 'Another gender' is selected in section 2.4.1 Gender code		
Guide for use	Record verbatim any text provided by the person in response to the obligation specified above		
Verification rules			

2.5 Ethnicity

Data element	Data element
2.5.1 Ethnicity code	2.5.2 Ethnicity detail

2.5.1 Ethnicity code

Definition	A classification of the ethnicity of an individual person as self-identified by the person		
Source standards	HISO 10001:2017 Ethnicity data protocols		
Data type	Numeric	Representational class	Code
Field size	Max: 5	Representational layout	N(5)
Data domain	http://www.health.govt.nz/publication/ethnicity-data-protocols-health-and-disability-sector		
Obligation	Mandatory – At least one ethnicity must be provided and recorded at Level 4 of the classification		
Guide for use	Up to six ethnicities may be recorded. Use the standard ethnicity collection question from section 3.3 of the Ethnicity Data Protocols to enable the person to select which ethnic group(s) they identify with		
Verification rules	Valid code set value only		

2.5.2 Ethnicity detail

Definition	Text the person used to answer the ethnicity question where the 'Other' option has been selected.		
Source standards			
Data type	Alphabetic	Representational class	Free text
Field size	Max: 600	Representational layout	A(600)
Data domain			
Obligation	Mandatory on a response of 'Other' for section 2.5.1 Ethnicity code		
Guide for use	Record verbatim any text provided by the person in response to the obligation specified above		
Verification rules			

2.6 Mother's birth name

Definition	The full name of the person's mother at the time of the <u>mother's</u> birth		
Source standards	Evidence of Identity Standard		
Data type	Alphabetic	Representational class	String
Field size	Max: 255	Representational layout	A(255)
Data domain	Free text		
Obligation	Optional		
Guide for use	Mother's full birth name is a recommended data element for use where name, date of birth and place of birth are insufficient to establish a unique identity		
Verification rules			

2.7 New Zealand residency and citizenship details

The New Zealand Residency and Citizenship details are captured using the following data elements:

Data element	Data element
2.7.1 New Zealand residency status	2.7.3 New Zealand citizenship status
2.7.2 New Zealand residency status information source	2.7.4 New Zealand citizenship status information source

2.7.1 New Zealand residency status

Definition	This field indicates if the person holds New Zealand permanent residency														
Source standards															
Data type	Alphabetic	Representational class	Code												
Field size	Max: 1	Representational layout	A(1)												
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not a Permanent Resident</td> <td></td> </tr> <tr> <td>U</td> <td>Unknown</td> <td>For use if the residency status of the person cannot be determined or is unknown</td> </tr> <tr> <td>Y</td> <td>Permanent Resident</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	N	Not a Permanent Resident		U	Unknown	For use if the residency status of the person cannot be determined or is unknown	Y	Permanent Resident	
Code	Description	Comment													
N	Not a Permanent Resident														
U	Unknown	For use if the residency status of the person cannot be determined or is unknown													
Y	Permanent Resident														
Obligation	Mandatory														
Guide for use															
Verification rules	Valid code set value only														

2.7.2 New Zealand residency status information source

Definition	A code indicating the source of information of the person's New Zealand residency status		
Source standards			
Data type	Alphanumeric	Representational class	Code
Field size	Max: 15	Representational layout	X(15)

Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>HL7</td> <td>HL7 applied</td> <td>Residency Status has been applied via HL7 message</td> </tr> <tr> <td>INZ</td> <td>Immigration New Zealand</td> <td>The code is added only by the Ministry of Health or DHB from information provided by Immigration New Zealand) data sharing</td> </tr> <tr> <td>MIGR</td> <td>Migrated</td> <td>From the legacy NHI system</td> </tr> <tr> <td>NPRF</td> <td>Proof Not Sighted</td> <td>Information (not proof) provided by the person/whānau</td> </tr> <tr> <td>NZPV</td> <td>NZ Permanent Resident Visa</td> <td>A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand</td> </tr> <tr> <td>NZTV</td> <td>NZ Resident Visa</td> <td>A New Zealand Resident Visa (time bound) issued by Immigration New Zealand</td> </tr> <tr> <td>PPRT</td> <td>Passport</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	HL7	HL7 applied	Residency Status has been applied via HL7 message	INZ	Immigration New Zealand	The code is added only by the Ministry of Health or DHB from information provided by Immigration New Zealand) data sharing	MIGR	Migrated	From the legacy NHI system	NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau	NZPV	NZ Permanent Resident Visa	A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand	NZTV	NZ Resident Visa	A New Zealand Resident Visa (time bound) issued by Immigration New Zealand	PPRT	Passport	
	Code	Description	Comment																								
	HL7	HL7 applied	Residency Status has been applied via HL7 message																								
	INZ	Immigration New Zealand	The code is added only by the Ministry of Health or DHB from information provided by Immigration New Zealand) data sharing																								
	MIGR	Migrated	From the legacy NHI system																								
	NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau																								
	NZPV	NZ Permanent Resident Visa	A New Zealand Permanent Resident Visa (not time bound) issued by Immigration New Zealand																								
	NZTV	NZ Resident Visa	A New Zealand Resident Visa (time bound) issued by Immigration New Zealand																								
PPRT	Passport																										
Obligation	Mandatory when 'Y' is recorded for section 2.7.1 New Zealand residency status . Optional in all other cases																										
Guide for use	An effort must be made to confirm the New Zealand Residency Status against an official source																										
Verification rules	Valid code set value only																										

2.7.3 New Zealand citizenship status

Definition	This field indicates if the person holds New Zealand citizenship														
Source standards															
Data type	Alphabetic	Representational class	Code												
Field size	Max: 1	Representational layout	A(1)												
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>Not a New Zealand Citizen</td> <td></td> </tr> <tr> <td>U</td> <td>Unknown</td> <td>The New Zealand citizenship status of the person is unknown and cannot be determined</td> </tr> <tr> <td>Y</td> <td>NZ Citizen</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	N	Not a New Zealand Citizen		U	Unknown	The New Zealand citizenship status of the person is unknown and cannot be determined	Y	NZ Citizen	
	Code	Description	Comment												
	N	Not a New Zealand Citizen													
	U	Unknown	The New Zealand citizenship status of the person is unknown and cannot be determined												
Y	NZ Citizen														
Obligation	Optional														
Guide for use															
Verification rules	Valid code set value only														

2.7.4 New Zealand citizenship status information source

Definition	A code indicating the source of information of the person's New Zealand citizenship status																				
Source standards																					
Data type	Alphabetic	Representational class	Code																		
Field size	Max: 4	Representational layout	A(4)																		
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>BRCT</td> <td>NZ Birth Certificate</td> <td></td> </tr> <tr> <td>DIA</td> <td>DIA data share</td> <td>Only applied by the Ministry of Health update from matching with Department of Internal Affairs</td> </tr> <tr> <td>NPRF</td> <td>Proof Not Sighted</td> <td>Information (not proof) provided by the person/whānau</td> </tr> <tr> <td>NZCT</td> <td>NZ Citizenship Certificate</td> <td></td> </tr> <tr> <td>PPRT</td> <td>NZ Passport</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	BRCT	NZ Birth Certificate		DIA	DIA data share	Only applied by the Ministry of Health update from matching with Department of Internal Affairs	NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau	NZCT	NZ Citizenship Certificate		PPRT	NZ Passport	
Code	Description	Comment																			
BRCT	NZ Birth Certificate																				
DIA	DIA data share	Only applied by the Ministry of Health update from matching with Department of Internal Affairs																			
NPRF	Proof Not Sighted	Information (not proof) provided by the person/whānau																			
NZCT	NZ Citizenship Certificate																				
PPRT	NZ Passport																				
Obligation	Mandatory when a 'Y' is recorded for section 2.7.3 New Zealand citizenship status . Optional in all other cases																				
Guide for use	Citizenship status should be verified with official data information																				
Verification rules	Valid code set value only																				

2.8 Person death information

The person's date of death details are captured using the following data elements:

Data element	Data element
2.8.1 Date of death	2.8.2 Date of death information source

2.8.1 Date of death

Definition	The date the person died		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full or partial date
Field size	Max: 8	Representational layout	YYYY[MM[DD]]
Data domain	Valid date or year		
Obligation	Year of death must be recorded Day and month are optional		
Guide for use	The day or month can be left blank if either cannot be ascertained with accuracy and in a timely manner, or the full date is unknown at time of data entry. If the day is populated, the month and year must be populated		
Verification rules	This field must be a valid date that is: (a) less than or equal to the current date (b) greater than or equal to the date of birth		

2.8.2 Date of death information source

Definition	A code indicating the valid date of death information source																							
Source standards																								
Data type	Alphanumeric	Representational class	Code																					
Field size	Max: 15	Representational layout	X(15)																					
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>DREG</td> <td>Death Register</td> <td>Only applied by the Ministry of Health update from matching with Department of Internal Affairs</td> </tr> <tr> <td>MCCOD</td> <td>Medical certificate cause of death</td> <td>Information from the death documents application</td> </tr> <tr> <td>HL7</td> <td>HL7 applied</td> <td>Date of death information source has been applied via HL7 message</td> </tr> <tr> <td>MIGR</td> <td>Migrated</td> <td>From the legacy NHI system</td> </tr> <tr> <td>OSEA</td> <td>Death Overseas</td> <td>Indicates a non-New Zealand registered death advised by a third party or discovered by a media search</td> </tr> <tr> <td>PROV</td> <td>Provisional</td> <td>May be applied only for a New Zealand death prior to Ministry of Health update from matching with Department of Internal Affairs. Code will then be changed to DREG</td> </tr> </tbody> </table>			Code	Description	Comment	DREG	Death Register	Only applied by the Ministry of Health update from matching with Department of Internal Affairs	MCCOD	Medical certificate cause of death	Information from the death documents application	HL7	HL7 applied	Date of death information source has been applied via HL7 message	MIGR	Migrated	From the legacy NHI system	OSEA	Death Overseas	Indicates a non-New Zealand registered death advised by a third party or discovered by a media search	PROV	Provisional	May be applied only for a New Zealand death prior to Ministry of Health update from matching with Department of Internal Affairs. Code will then be changed to DREG
Code	Description	Comment																						
DREG	Death Register	Only applied by the Ministry of Health update from matching with Department of Internal Affairs																						
MCCOD	Medical certificate cause of death	Information from the death documents application																						
HL7	HL7 applied	Date of death information source has been applied via HL7 message																						
MIGR	Migrated	From the legacy NHI system																						
OSEA	Death Overseas	Indicates a non-New Zealand registered death advised by a third party or discovered by a media search																						
PROV	Provisional	May be applied only for a New Zealand death prior to Ministry of Health update from matching with Department of Internal Affairs. Code will then be changed to DREG																						
Obligation	Optional																							

Guide for use	Only OSEA and PROV may be supplied by an external party The default value is MIGR from the legacy NHI system
Verification rules	Valid code set value only

3 Person address

This section describes the data elements used to capture and store the person’s current address or location details if known. Multiple addresses can be held for the person (eg, residential or mailing address). The following data elements are used to record person address.

Data element	Data element
3.1 Address format	3.9 Address protected flag
3.2 Building name	3.10 Permanent address flag
3.3 Street address/address line 1	3.11 Date address effective from
3.4 Additional street address/address line 2	3.12 Date address effective to
3.5 Suburb/address line 3	3.13 Domicile code
3.6 Town or city/address line 4	3.14 Primary address flag
3.7 Postcode (zip/postal code)	3.15 Address type
3.8 Country code	

3.1 Address format

Address details can be captured using the **NZ CIQ Address Profile** format as the following example demonstrates:

Example: NZ CIQ Address Profile	Address					
	Street address (street number and name or PO box)	Other designation	Other geographic designation (suburb)	City	Postcode	Country code
35 Prince Regent Drive, Manukau	35 Prince Regent Drive			Manukau	1706	
25 Victor Drive, Sydney, Australia	25 Victor Drive			Sydney		AU
10th Floor, 108 The Terrace, Wellington	10th Floor	108 The Terrace		Wellington	6001	
PO Box 27386, Mount Roskill, Auckland 1440	PO Box 27386		Mount Roskill	Auckland		

4381 State Highway 12, RD2, Ruawai 0592	4831 State Highway 12	RD2		Ruawai	0592	
---	-----------------------	-----	--	--------	------	--

3.2 Building name

Definition	Free text field that is used to record building names or institution names		
Source standards	NZ CIQ Address Profile		
Data type	Alphanumeric	Representational class	Free text
Field size	Max: 1000	Representational layout	X(1000)
Data domain			
Obligation	Optional		
Guide for use	When printing or displaying address, this field should be placed at the top of the address		
Verification rules			

3.3 Street address/address line 1

Definition	The floor, unit or street address details of the person		
Source standards	NZ CIQ Address Profile		
Data type	Alphanumeric	Representational class	Free text
Field size	Max: 100	Representational layout	X(100)
Data domain			
Obligation	Mandatory		
Guide for use	This line is used to capture floor, unit, or street address details, whichever is applicable		
Verification rules			

3.4 Additional street address/address line 2

Definition	Other geographic information related to the person's address		
Source standards	NZ CIQ Address Profile		
Data type	Alphanumeric	Representational class	Free text
Field size	Max: 100	Representational layout	X(100)
Data domain			
Obligation	Optional		
Guide for use	This line is used to capture street address if floor or unit details have been recorded in the Street Address element. For rural address, this line contains the rural delivery (RD) number		
Verification rules			

3.5 Suburb/address line 3

Definition	This field may be used for either the name of the suburb within a city/town situation or other delivery information		
Source standards	NZ CIQ Address Profile		
Data type	Alphabetic	Representational class	Free text
Field size	Max: 50	Representational layout	A(50)
Data domain			
Obligation	Optional		
Guide for use	Suburb must always be recorded in this element		
Verification rules			

3.6 Town or city/address line 4

Definition	This field is used for the name of the city		
Source standards	NZ CIQ Address Profile		
Data type	Alphabetic	Representational class	Free text
Field size	Max: 50	Representational layout	A(50)
Data domain			
Obligation	Optional		
Guide for use	The town/city may in some instances be a location that is recognised in 'its own right'		
Verification rules			

3.7 Postcode (zip/postal code)

Definition	The numeric descriptor for a postal delivery area, aligned with the locality, suburb or place for the address		
Source standards	NZ CIQ Address Profile		
Data type	Alphanumeric	Representational class	Code
Field size	Max: 15	Representational layout	X(15)
Data domain			
Obligation	Optional		
Guide for use	International or New Zealand postcodes can be recorded if provided by the person		
Verification rules			

3.8 Country code

Definition	A code for the country that forms part of an address		
Source standards	AS/NZS 2632.1:2020 <i>Codes for the representation of names of countries and their subdivisions – Part 1: Country codes</i>		
Data type	Alphabetic	Representational class	Code
Field size	Max: 4	Representational layout	A(4)
Data domain	See http://www.iso.org/iso/country_codes		
Obligation	Optional		
Guide for use	<p>The code for a country other than New Zealand as specified by the person. Leave this field blank for a New Zealand address.</p> <p>Use the current country name code wherever possible and a former name code only by exception</p> <p>Accessible ISO Country Codes Collection is available at: https://www.iso.org/obp/ui/#iso:pub:PUB500001:en and https://www.iso.org/obp/ui/#search</p>		
Verification rules	Valid code set value only		

3.9 Address protected flag

Definition	This indicator denotes that the person's address information is to be held 'in confidence'		
Source standards			
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	<p>1 – Yes, Protected</p> <p>0 – No, Not Protected</p>		

Obligation	Mandatory
Guide for use	The flag indicates whether person address information held can be shared as part of the person address record. Organisations holding or accessing this information are responsible for ensuring appropriate controls are implemented and active to provide address protection. The default is 0 (Not Protected). This flag is set to 1 if the person indicates they have a reason to not share this name
Verification rules	Valid value only

3.10 Permanent address flag

Definition	An indicator used to denote an address is a permanent address		
Source standards			
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	1 – Permanent Address 0 – Not a Permanent Address		
Obligation	Mandatory		
Guide for use	The default is 0 – Not a Permanent Address This indicator is for use if Address type is 'R' (see section 3.15 Address type)		
Verification rules	Valid value only		

3.11 Date address effective from

Definition	Date that an address is effective from		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full date
Field size	Max: 8	Representational layout	YYYYMMDD
Data domain	Valid date		
Obligation	Optional		
Guide for use			
Verification rules	Valid date only		

3.12 Date address effective to

Definition	Date that an address is effective to		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full date
Field size	Max: 8	Representational layout	YYYYMMDD
Data domain	Valid date		
Obligation	Optional		
Guide for use			
Verification rules	Valid date only		

3.13 Domicile code

Definition	New Zealand health domicile code representing a person's usual residential address		
Source standards	Domicile Code Set Table, Ministry of Health		
Data type	Alphanumeric	Representational class	Code
Field size	Max: 4	Representational layout	X(4)
Data domain			
Obligation	Optional		
Guide for use	This field should only be supplied if the associated address cannot be verified		
Verification rules	Valid code set value only		

3.14 Primary address flag

Definition	An indicator used to denote that the address is the primary address for the person		
Source standards			
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	1 – Primary Address 0 – Not Primary Address		
Obligation	Mandatory		
Guide for use	The default is 0 – Not Primary Address		
Verification rules	There may be only one primary address for a person		

3.15 Address type

Definition	The type of address of a person											
Source standards	NZ CIQ Address Profile											
Data type	Alphabetic	Representational class	Code									
Field size	Max: 1	Representational layout	A(1)									
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>M</td> <td>Mailing</td> <td></td> </tr> <tr> <td>R</td> <td>Residential</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	M	Mailing		R	Residential	
Code	Description	Comment										
M	Mailing											
R	Residential											
Obligation	Mandatory											
Guide for use	The person may specify multiple addresses. Select the code relevant to each address provided											
Verification rules	Valid code set value only											

4 Language

This section describes the language data elements that are recorded at the person's option. There can be several language records created for each person.

4.1 Language

Definition	A code representing a language spoken or understood by the person		
Source standards	ISO 639-3:2007 <i>Codes for the representation of names of languages – Part 3: Alpha-3 code for comprehensive coverage of languages</i>		
Data type	Alphabetic	Representational class	Code
Field size	Max: 3	Representational layout	A(3)
Data domain	https://www.iso.org/standard/39534.html		
Obligation	Mandatory when the person's language is being recorded.		
Guide for use	There can be multiple languages recorded against a person. Upper- and lower-case validation of this field is enforced in storing the selected language		
Verification rules	Valid code set value only		

5 Contact information

This section describes the data elements provided (at the option of the person) detailing the method of electronic communication to be used to contact them.

Examples of this are:

Contact usage	Contact type	Contact details	Contact protected flag
Emergency (E)	Telephone (T)	+64 4 123 4567	N
Business (B)	Telephone (T)	+64 4 765 4321	N
Personal (P)	Mobile (Cell Phone) (C)	030 123 4567	Y
Business (B)	Pager (P)	1234	N
Business (B)	Email (E)	person@chosendomainname.isptype.nz	N
Business (B)	Facsimile Machine (F)	+64 4 987 6543	N
Business (B)	Mailbox (M)	MailBoxDetails	Y

The following data elements list the contact detail:

Data element	Data element
5.1 Contact usage	5.5 Date contact details effective from
5.2 Contact type	5.6 Date contact details effective to
5.3 Contact details	5.7 Preferred contact
5.4 Contact protected flag	

5.1 Contact usage

Definition	The classification specifies the type of event that a particular contact medium is intended to be used for (eg, business, emergency)														
Source standards															
Data type	Alphabetic	Representational class	Code												
Field size	Max: 1	Representational layout	A(1)												
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Business</td> <td>Business address</td> </tr> <tr> <td>E</td> <td>Emergency</td> <td>Emergency address</td> </tr> <tr> <td>P</td> <td>Personal</td> <td>Personal address</td> </tr> </tbody> </table>			Code	Description	Comment	B	Business	Business address	E	Emergency	Emergency address	P	Personal	Personal address
Code	Description	Comment													
B	Business	Business address													
E	Emergency	Emergency address													
P	Personal	Personal address													
Obligation	Mandatory when contact information is being recorded														
Guide for use	Multiple contact usages may be recorded as required by the person														
Verification rules	Valid code set value only														

5.2 Contact type

Definition	The code representing the type of electronic contact medium to be used (eg, email, telephone, pager)																																						
Source standards																																							
Data type	Alphabetic	Representational class	Code																																				
Field size	Max: 10	Representational layout	A(10)																																				
Data domain	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Monitored alarms</td> <td></td> </tr> <tr> <td>C</td> <td>Mobile (cell phone)</td> <td></td> </tr> <tr> <td>E</td> <td>Email</td> <td></td> </tr> <tr> <td>F</td> <td>Facsimile</td> <td></td> </tr> <tr> <td>M</td> <td>Electronic mail box</td> <td>A specific, individual mail 'container' provided by a particular vendor or agency (eg, Chat, Skype)</td> </tr> <tr> <td>P</td> <td>Pager</td> <td></td> </tr> <tr> <td>S</td> <td>Short messaging service (SMS)</td> <td>A text message</td> </tr> <tr> <td>T</td> <td>Telephone number</td> <td></td> </tr> <tr> <td>U</td> <td>URL (Universal Resource Locator)</td> <td></td> </tr> <tr> <td>V</td> <td>Videoconferencing</td> <td></td> </tr> <tr> <td>W</td> <td>Web forum (social media)</td> <td></td> </tr> </tbody> </table>			Code	Description	Comment	A	Monitored alarms		C	Mobile (cell phone)		E	Email		F	Facsimile		M	Electronic mail box	A specific, individual mail 'container' provided by a particular vendor or agency (eg, Chat, Skype)	P	Pager		S	Short messaging service (SMS)	A text message	T	Telephone number		U	URL (Universal Resource Locator)		V	Videoconferencing		W	Web forum (social media)	
Code	Description	Comment																																					
A	Monitored alarms																																						
C	Mobile (cell phone)																																						
E	Email																																						
F	Facsimile																																						
M	Electronic mail box	A specific, individual mail 'container' provided by a particular vendor or agency (eg, Chat, Skype)																																					
P	Pager																																						
S	Short messaging service (SMS)	A text message																																					
T	Telephone number																																						
U	URL (Universal Resource Locator)																																						
V	Videoconferencing																																						
W	Web forum (social media)																																						
Obligation	Mandatory when electronic contact information is being recorded																																						
Guide for use	Multiple contact media may be recorded																																						
Verification rules	Where Contact Medium is provided, Contact Type and Details are required. Valid code set value only																																						

5.3 Contact details

Definition	The person's contact details		
Source standards			
Data type	Alphanumeric	Representational class	Free text
Field size	Max: 255	Representational layout	X(255)
Data domain	Alphanumeric text string including spaces where applicable		
Obligation	Mandatory		
Guide for use	These may comprise an electronic address or a number. For phone numbers, record the full phone number (including any prefixes) with no punctuation (hyphens or brackets) (eg, +6441234567)		
Verification rules	Where Contact Details are provided, Contact Usage and Contact Type are required		

5.4 Contact protected flag

Definition	This indicator denotes that the person's contact information is to be held 'in confidence'		
Source standards			
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	1 – Protected 0 – Not Protected		
Obligation	Mandatory		
Guide for use	<p>The flag indicates whether the person's contact information held can be shared as part of the person's contact information record. Organisations holding or accessing this information are responsible for ensuring appropriate controls are implemented and active to provide contact information protection.</p> <p>The default is 0 – Not Protected. This flag is set to 1 if the person indicates they have a reason to not share this name</p>		
Verification rules	Valid value only		

5.5 Date contact details effective from

Definition	The date contact details are effective from, as provided by the person		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full date
Field size	Max: 8	Representational layout	YYYYMMDD
Data domain	Valid date		
Obligation	Mandatory		
Guide for use			
Verification rules	Valid date only		

5.6 Date contact details effective to

Definition	The date contact details are effective to, as provided by the person		
Source standards	ISO 8601-1:2019 <i>Date and time. Representations for information interchange – Part 1: Basic rules</i>		
Data type	Date	Representational class	Full date
Field size	Max: 8	Representational layout	YYYYMMDD
Data domain	Valid date		
Obligation	Optional		
Guide for use	The 'effective to' date of the contact record (where known).		
Verification rules	Valid date only		

5.7 Preferred contact

Definition	This flag denotes that the contact details provided are the person's preference		
Source standards			
Data type	Boolean	Representational class	N/A
Field size	Max: 1	Representational layout	N(1,0)
Data domain	0 – Not Preferred 1 – Preferred		
Obligation	Mandatory		
Guide for use	The default is 0 – Not Preferred		
Verification rules	Valid value only		

6 Adoption

Over a period of 12 months, it is intended that all district health boards will institute the updates documented in this standard. As part of the implementation procedure, other agencies, eg primary healthcare organisations, are to work with district health boards, their associated laboratories and vendors to promote and support the implementation of this standard. As this is a fundamental health sector standard, it is subject to ongoing reviews to ensure the standard remains fit for purpose.

DHBs are required, and other organisations that use the National Health Index system will be encouraged, to adopt this standard. Where practical, the level of adoption will be tracked by the Ministry and reported to HISO.

Appendix A: Person name prefix codes

Name prefix or title is an honorific form of address preceding a name, used when addressing a person. This includes Mr, Mrs, Miss, Dr, Professor, etc.

Code	Description	Comment
DAME	Dame	
DR	Doctor	
HER EXCEL	Her Excellency	
HIS EXCEL	His Excellency	
LADY	Lady	
MISS	Miss	
MR	Mr	
MRS	Mrs	
MS	Ms	
MASTER	Master	
MX	Generic Person	Not sex/gender specific
PROF	Professor	
SIR	Sir	
REV	Reverend	Title given to ministers of some religions
RIGHT REV	The Right Reverend	Anglican Bishop
VERY REV	The Very Reverend	Dean
MOST REV	The Most Reverend	Archbishop/Bishop/Catholic Priest
VEN	The Venerable	Archdeacon
CARD	Cardinal	Catholic Priest
MON	Monsignor	Catholic Priest
CANON	Canon	Priest
BR	Brother	Of a Religious Order
FR	Father	Of a Religious Order
SISTER	Sister	Of a Religious Order
HON	The Honourable	Executive Council, Speaker, Appeal/High Court and Supreme Court Judges
RT HON	The Right Honourable	The Right Honourable, Prime Minister or Privy Councillor
AC	Aircraftman	Military Personnel
AIRCDRE	Air Commodore	Military Personnel

Code	Description	Comment
AM	Air Marshal	Military Personnel
AMT	Able Medical Assistant	Military Personnel
AVM	Air Vice Marshal	Military Personnel
BDR	Bombardier	Military Personnel
BRIG	Brigadier	Military Personnel
CAPT	Captain	Military Personnel
CDR	Commander	Military Personnel
CDRE	Commodore	Military Personnel
COL	Colonel	Military Personnel
CPL	Corporal	Military Personnel
CPOMED	Chief Petty Officer Medic	Military Personnel
ENS	Ensign	Military Personnel
F/SGT	Flight Sergeant	Military Personnel
FGOFF	Flying Officer	Military Personnel
FLTLT	Flight Lieutenant	Military Personnel
GEN	General	Military Personnel
GPCAPT	Group Captain	Military Personnel
LAC	Leading Aircraftman	Military Personnel
LCPL	Lance Corporal	Military Personnel
LMED	Leading Medic	Military Personnel
LT	Lieutenant	Military Personnel
LT CDR	Lieutenant Commander	Military Personnel
LT COL	Lieutenant Colonel	Military Personnel
LT GEN	Lieutenant General	Military Personnel
MAJ	Major	Military Personnel
MAJ GEN	Major General	Military Personnel
MID	Midshipman	Military Personnel
OMT	Ordinary Medical Assistant	Military Personnel
PLTOFF	Pilot Officer	Military Personnel
POMED	Petty Officer Medic	Military Personnel
PTE	Private	Military Personnel
RA	Rear Admiral	Military Personnel
SGN CDR	Surgeon Commander	Military Personnel
SGN LT	Surgeon Lieutenant	Military Personnel
SGN LTCDR	Surgeon Lieutenant Commander	Military Personnel
SGT	Sergeant	Military Personnel

Code	Description	Comment
SLT	Sub Lieutenant	Military Personnel
SPR	Sapper	Military Personnel
SQNLDR	Squadron Leader	Military Personnel
SSGT	Staff Sergeant	Military Personnel
TPR	Trooper	Military Personnel
W/O	Warrant Officer	Military Personnel
WGCDR	Wing Commander	Military Personnel
WO	Warrant Officer	Military Personnel
WOMED	Warrant Officer Medic	Military Personnel

Appendix B: Person name suffix codes

Name suffix is an additional term following a person's name. It may include formal awards and honours, etc.

Code	Comment
1ST	The First
2ND	The Second
3RD	The Third
ADC	Aide-de-Camp
AE	Air Efficiency Award
AFC	Air Force Cross
AFM	Air Force Medal
ARRC	Associate of the Royal Red Cross
BEM	British Empire Medal
BT	Baronet
CB	Companion of the Order of the Bath
CBE	Commander of the Order of the British Empire
CGC	Conspicuous Gallantry Cross
CGM	Conspicuous Gallantry Medal
CH	Companion of Honour, Order of the Companions of Honour
CMG	Companion of the Order of St Michael and St George
CNZM	Companion of the New Zealand Order of Merit
CSO	Companion of the Distinguished Service Order
CVO	Commander of the Royal Victorian Order
DBE	Dame Commander of the Order of the British Empire
DCB	Dame Commander of the Order of the Bath
DCM	Distinguished Conduct Medal
DCMG	Dame Commander of the Order of St Michael and St George
DCNZM	Distinguished Companion of the New Zealand Order of Merit
DCVO	Dame Commander of the Royal Victorian Order
DFC	Distinguished Flying Cross
DFM	Distinguished Flying Medal
DNZM	Dame Companion of the New Zealand Order of Merit
DSC	Distinguished Service Cross

Code	Comment
DSM	Distinguished Service Medal
DSO	Distinguished Service Order
ED	Efficiency Decoration
EM	Efficiency Medal
GBE	Dame/Knight Grand Cross, Order of the British Empire
GC	George Cross
GCB	Dame/Knight Grand Cross, Order of the Bath
GCMG	Dame/Knight Grand Cross, Order of St Michael and St George
GCVO	Dame/Knight Grand Cross, Royal Victorian Order
GM	George Medal
GNZM	Dame/Knight Grand Companion of the New Zealand Order of Merit
ISO	Companion of the Imperial Service Order
JNR	Junior
JP	Justice of the Peace
KBE	Knight Commander, Order of the British Empire
KCB	Knight Commander, Order of the Bath
KCMG	Knight Commander, Order of St Michael and St George
KCVO	Knight Commander, Royal Victorian Order
KG	Knight of the Garter, Order of the Garter
KNZM	Knight Companion, the New Zealand Order of Merit
KT	Knight of the Thistle, Order of the Thistle
LG	Lady of the Garter
LT	Lady of the Thistle
LVO	Lieutenant of the Royal Victorian Order
MBE	Member of the Order of the British Empire
MC	Military Cross
MID	Mentioned in Dispatches
MM	Military Medal
MNZM	Member of the New Zealand Order of Merit
MP	Member of Parliament
MVO	Member of the Royal Victorian Order
NZC	New Zealand Cross
OBE	Officer of the Order of the British Empire
OM	Member of the Order of Merit
ONZ	Member of the Order of New Zealand
ONZM	Officer of the New Zealand Order of Merit
QC	Queen's Counsel

Code	Comment
QCBC	Queen's Commendation for Brave Conduct
QCVSA	Queen's Commendation for Valuable Service in the Air
QFSM	Queen's Fire Service Medal for Distinguished Service
QGM	Queen's Gallantry Medal
QHP	Queen's Honorary Physician
QPM	Queen's Police Medal for Distinguished Service
QSM	Queen's Service Medal
QSO	Companion of the Queen's Service Order
RD	Royal New Zealand Naval Reserve Decoration
RRC	Royal Red Cross
RVM	Royal Victorian Medal
SNR	Senior
VC	Victoria Cross
VRD	Royal New Zealand Naval Volunteer Reserve Decoration
WKB	Wife of Knight Bachelor, Baronet or Peer of the Realm