

IDENTITY MANAGEMENT SUB-COMMITTEE

PAN-CANADIAN IDENTITY MANAGEMENT – INFORMATION EXCHANGE SPECIFICATION

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1 PURPOSE

The purpose of this document is to provide specifications for the structure and content of the data that are or will be exchanged between federal, provincial, territorial, and municipal government organizations as part of the Pan-Canadian approach to federating identity. The document describes the message payload of Pan-Canadian Identity Management (PCIM) data exchanges in sufficient detail so as to:

- Be able to determine if an existing data exchange standard is PCIM compliant
- Be able to derive a new data exchange standard that is PCIM compliant
- Be able to establish a list of PCIM compliant data exchange standards that will be included in the Pan-Canadian Trust Framework service profile

2 AUDIENCE

This document is intended for:

- Federal/provincial/territorial/municipal business program and service owners
- Organizations that intend to be providers of standardized identity information and personal information validation, retrieval, and notification services (authoritative parties)
- Organizations that intend to be consumers of standardized identity information and personal information validation, retrieval, and notification services (relying parties)
- Implementers who design, build, or provide standards-based technical solutions

3 APPLICATION AND AUTHORITY

It is intended that the specifications contained in this document be sufficiently general enough that they are capable of being met by several existing data exchange standards including the *National Routing System (NRS) Data Exchanges Standards* and the *National Information Exchange Model (NIEM)*¹.

This document will be refined as required, subject to the consensus of the participating federal/provincial/territorial/municipal stakeholders.

¹ Information about NIEM can be found at: <https://www.niem.gov/>

4 SCOPE

4.1 In Scope

This document is limited to describing the structure and content of the six types of data exchange services² that have been deemed to be in scope for the initial implementation of Canada's Digital Interchange (CDI):

- identity information validation
- personal information validation
- identity information retrieval
- personal information retrieval
- identity information notification
- personal information notification

This document is also limited to providing specifications for the message payload³ of the data exchange services listed above. *Message envelope* information is not specified in this document nor does this document provide specifications for *error handling messages* or reliable messaging constructs such as *acknowledgements*.

4.2 Out of Scope

The following types of data exchange services have been deemed to be out of scope for the initial implementation of CDI. They may be considered for a future implementation:

- Validation, retrieval, or notification of information related to organizations
- Identity verification (i.e. confirming that the identity information being presented relates to the person who is making the claim)
- Document information notification (i.e. notification about a document where there is no personal information attached as in the case of missing or stolen document stock)

² See Section 8 for more detailed information about the six types of data exchange services. Additional information can be found in *Canada's Digital Interchange – Service Definition*.

³ *Message* refers to the entire electronic transmission of one communication from a sender to a receiver. A message is comprised of two distinct parts: the *envelope* and the *payload*. The envelope contains the non-business specific information that is used to determine how, when, and where to deliver the message. This is sometimes referred to as the *message routing information*. The envelope is used to aid in the transmission, authorization, authentication, and validation of the message. The payload is the portion of the message that contains the business data (e.g. personal information about an individual).

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- Document authentication (i.e. confirming the genuineness of a document by verifying security features, etc.)

5 TERMS AND DEFINITIONS

Definitions of various terms used in this document can be found in *Appendix A: Terms and Definitions*.

6 BACKGROUND AND CONTEXT

A thorough familiarity with the *Pan-Canadian Identity Management Validation Standard*, the *Pan-Canadian Identity Management Retrieval Standard*, and the *Pan-Canadian Identity Management Notification Standard* (collectively referred to as the PCIM Standards) is essential for a complete understanding of this document. In addition, it is helpful if the reader is familiar with the fundamental concepts that govern Canada's Digital Interchange project. A good overview of the CDI project can be found in the *Executive Summary* section of *Canada's Digital Interchange – Business Case*. Additional background information can be found in *Canada's Digital Interchange – Service Definition* and *Canada's Digital Interchange – Consolidated Business Requirements*.

7 IDENTITY MANAGEMENT OVERVIEW

This section provides a general overview of specific topics in identity management that are relevant to identity information and personal information validation, retrieval, and notification. Additional information can be found in the *Guideline on Identity Assurance*.

7.1 Identity

Identity is defined as a reference or designation used to distinguish a unique and particular person, organization, or device.

An identity must be unique⁴. The uniqueness requirement ensures the following:

- that persons can be distinguished from one another and, when required, uniquely identified;
- that a service can be delivered to a specific person (e.g. the same person from a previous registration or enrolment process); and
- that a service is delivered to the right person; uniqueness reduces the possibility of the wrong person receiving a service or benefit (i.e. a service or benefit intended for someone else).

7.2 Defining the Population

Those persons who fall within the legislated mandate of a program or service constitute the population of the program or service⁵. In Canada, the population universe is first partitioned between political jurisdictions (i.e. national, provincial/territorial, municipal) and then within those boundaries the population is further divided by degree of program coverage (i.e. universal vs. criteria-based).

The following are some examples of program/service populations in Canada:

- Persons who were born in Alberta
- Persons who are required to file a federal income tax return
- Persons who are licensed to drive in Quebec
- Persons who are military veterans
- Persons who were not born in Canada
- Persons who are covered by provincial health insurance in Ontario

⁴ This is one of the requirements for establishing an identity assurance level. See Appendix C of the *Standard on Identity and Credential Assurance*.

⁵ The characteristics of a program/service population are a key factor in determining identity context. See the next section.

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- Persons who have Indian status in Canada
 - Persons who receive social assistance benefits in British Columbia

7.3 Defining the Identity Context

In delivering their programs and services, government organizations operate within a certain environment or set of circumstances, which in the domain of identity management is referred to as the identity context. Identity context is determined by factors such as mandate, target population (i.e. clients), and other responsibilities prescribed by legislation or agreements.

Understanding and defining the identity context assists government organizations in determining what identity information is required and what identity information is not required. Identity context also assists in determining commonalities with other government organizations or jurisdictions, and whether identity information and assurance processes can be leveraged across contexts.

The following considerations should be kept in mind when defining the identity context of a given program or service:

- Intended recipients of a service – recipients may be external to government (e.g. citizens, non-Canadians, businesses, non-profit organizations), or internal to government (e.g. employees, departments)
- Size, characteristics, and composition of the client population
- Commonalities with other services (i.e. across government)
- Government organizations with similar mandates
- Use of shared services

7.4 Determining Identity Information Requirements

A property or characteristic associated with an identifiable person is referred to as an *identity attribute* or an *identity data element*. Examples of identity attributes include *name*, *date of birth*, and *sex*. For any given program or service, identity information is the set of identity attributes that is both:

- Sufficient to distinguish between different persons within the program/service population (i.e. achieve the uniqueness requirement for identity); and
- Sufficient to describe the person as required by the program or service.

When determining the sufficiency of identity information for a program or service, government organizations need to distinguish between identity information and program-specific personal information, as these can overlap. For example, *date of birth* can be used to help achieve identity uniqueness (i.e. it is used as identity information) – but *date of birth* can also be used as an age eligibility requirement (i.e. it is used as program-specific personal information). When overlap between identity information and program-specific personal information occurs, it is a good practice to describe both purposes. This is to ensure that the use of identity information is consistent with the original purpose for which the identity information was obtained and that it can be managed separately or additionally protected by appropriate security and privacy controls. Government organizations are advised to reduce the overlap between identity information and program-specific personal information as much as possible.

7.4.1 Identifier

The set of identity attributes that is used to uniquely distinguish a unique and particular person within a program/service population is referred to as an *identifier*. This set of attributes is usually a subset of the identity information requirements of a program or service.

Different sets of identity attributes may be specified as an identifier depending on program or service requirements and legislation. For example, one program may specify *name* and *date of birth* as the identifier set of identity attributes. Another program may specify *name*, *date of birth*, and *sex* as the identifier set of identity attributes. Yet another program may use an *assigned identifier* (such as a health insurance number) as the identifier set of identity attributes. The PCIM Standards provide flexibility on what can be specified as the identifier set of identity attributes.

When determining the set of identity attributes to be used as an identifier, the following factors should be considered:

- **Universality** – Every person within the program/service population must possess the identifier set of identity attributes. For example, including a cell phone number as part of the identifier set may result in many null values for the identity attribute because ownership of a cell phone may not be sufficiently universal enough within the population of interest. Even when an identity attribute is universal, widespread missing or incomplete values for the identity attribute may render it useless as part of an identifier set. For example, many dates of birth for persons born outside of Canada consist only of the year or the year and the month.

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- **Uniqueness** – The values associated with the identity attributes must be sufficiently different for each person within the program/service population that the persons within the program/service population can be distinguished from one another. For example, *date of birth* information by itself is insufficient to distinguish between persons in a population because many people have the same birthdate.
 - **Constancy** – The values associated with the identity attributes should vary minimally (if at all) over time. For example, having address information in the identifier set is problematic because a person’s address is likely to change several times in their lifetime.
 - **Collectability** – Obtaining a set of values for the identity attributes should be relatively easy. For example, human DNA sequences are universal, unique, and very stable over time, but they are difficult to obtain.

7.4.2 Assigned Identifier

It is generally agreed that *name* and *date of birth* comprise the minimum set of identity attributes required to constitute an identifier. Analyses⁶ have shown that a combination of *name (surname + first given name)* and full *date of birth* will distinguish between upwards of 96% of the persons in any population. While adding other identity attributes (e.g. *sex, place of birth*) to the set provides some marginal improvement, no combination of identity attributes can guarantee absolute uniqueness for 100% of a given population. Consequently, due to the potential for identity overlap in whatever residual percentage of the population remains, government organizations employ the use of an *assigned identifier*. An assigned identifier is an artificial identity attribute that is used solely for the purpose of providing identity uniqueness. It consists of a numeric or alphanumeric string that is generated automatically and is assigned to the person at the time of identity establishment or enrolment. However, before an assigned identifier can be associated with a person, the uniqueness of the person’s identity within the relevant population must first be established (i.e. identity resolution must be achieved (see next section)) through the use of other identity attributes (e.g. *name, date of birth, etc.*). Therefore, the use of an assigned identifier does not eliminate the need for traditional identity resolution techniques, but it does reduce the need to a one-time only occurrence for each person within a population.

Once associated with a person, an assigned identifier uniquely distinguishes that person from all other persons in a population without the use of any other identity attributes. Examples of assigned identifiers include birth registration numbers, driver’s license numbers, and social insurance numbers.

⁶ NASPO IDPV Project, Report of the IDPV Identity Resolution Project, February 17, 2014

The following considerations apply to the use of assigned identifiers:

- Assigned identifiers may be kept internal to the program that maintains them. Examples of internal assigned identifiers are database unique keys and globally unique identifiers.
- Assigned identifiers maintained by one program may be provided to other programs so that those programs can also use the assigned identifier to distinguish between different persons within their program/service population; however, there may be restrictions on this practice due to privacy considerations or legislation.
- Certain assigned identifiers may be subject to legal and policy restrictions. For example, the Government of Canada imposes restrictions on the collection, use, retention, disclosure, and disposal of the social insurance number.

7.5 Identity Resolution

Identity resolution is defined as the establishment of the uniqueness of a person within a program/service population through the use of identity information. A program or service defines its identity resolution requirements in terms of identity attributes; that is, it specifies the set of identity attributes that is required to achieve identity resolution within its population. Since the identifier is the set of identity attributes that is used to uniquely distinguish a unique and particular person within a program/service population, the identifier is the means by which identity resolution is achieved.

Identity resolution requirements may differ from one program or service to another. The PCIM Standards provide a set of specifications for dealing with differing identity resolution requirements.

The responsibilities of authoritative parties and relying parties in respect to identity resolution are the following:

- Both authoritative parties and relying parties must establish the identity resolution requirements of their program/service populations.
- An authoritative party must publish the identity resolution requirements of its program/service population.
- When preparing a validation or retrieval request, a relying party must fulfill the authoritative party's identity resolution requirements.
- Based on the identity information provided by a relying party in a validation or retrieval request, the authoritative party must achieve identity resolution as the first step to preparing the validation or retrieval response.
- Based on the identity information provided by the authoritative party in a notification, the relying party must achieve identity resolution as the first step to processing the notification.

7.6 Ensuring the Accuracy of Identity Information

Identity information must be accurate, complete, and up to date⁷. Accuracy ensures the quality of identity information. It ensures that the information represents what is true about a person, and that it is as complete and up to date as necessary.

For identity information to be considered accurate, three requirements must be met:

- **The identity information is correct and up to date.** Identity information, due to certain life events (e.g. marriage), may change over time. Ongoing updates to identity information may be required; otherwise, it becomes incorrect.
- **The identity information relates to a real person.** Identity information must be associated with a person who actually exists. In most cases, the person is still alive, but cases of deceased persons also apply.
- **The identity information relates to the correct individual.** In large populations, persons may have the same or similar identity information as other persons. While the requirement for identity uniqueness addresses this issue, the possibility of relating identity information to the wrong person still remains.

It is the responsibility of government organizations to ensure the accuracy of the identity information that is used within their programs and services. The accuracy of identity information can be ensured by using an authoritative source. There are three methods by which this can be achieved:

- On an as needed basis, request confirmation from an authoritative source that the identity information is accurate. This process is referred to as *identity information validation*. For example, a person's sex might be electronically validated using a provincial vital statistics registry⁸.
- On an as needed basis, request the identity information from an authoritative source. This process is referred to as *identity information retrieval*. For example, a person's *place of birth* might be electronically retrieved from the federal registry of persons born abroad.

⁷ This is one of the requirements for establishing an identity assurance level. See Appendix C of the *Standard on Identity and Credential Assurance*.

⁸ Factors such as spelling and phonetic variations, name changes, and different character sets can make the validation of some identity data elements problematic. Such factors may make it difficult to demand exact matching. Government organizations may need to use approximate or statistical matching methods to determine if identity information acceptably matches an authoritative record. However, it should be noted that **an identifier is always subject to an exact match**. In cases where the integrity of an identifier can be determined using a mathematical algorithm (e.g. a checksum calculation for an assigned identifier), these methods should be applied.

- Subscribe to a notification service provided by an authoritative source. This process is referred to as *identity information notification*. For example, death notifications might be received from a provincial vital statistics registry.

These methods can be used independently or in combination, and an effective strategy usually requires the use of all three.

If ensuring the accuracy of identity information by means of an authoritative source is not feasible, other methods may be employed, such as corroborating identity information using one or more instances of evidence of identity.

Determining the accuracy of identity information includes confirming that the person currently exists or previously existed (i.e. is now deceased). This means that the identity information relates to a real person (living or dead), and not to a false or incorrect person. The accuracy of identity information is independent of whether a person is living or deceased. A person's identity information does not become invalid after death.

8 TYPES OF DATA EXCHANGE SERVICES

The initial implementation of Canada's Digital Interchange will provide six types of data exchange services⁹:

- identity information¹⁰ validation
- personal information¹¹ validation
- identity information retrieval
- personal information retrieval
- identity information notification
- personal information notification

8.1 Validation

The validation¹² data exchange service utilizes the *Request/Response* message exchange pattern¹³.

8.1.1 Identity Information Validation

Identity information validation is the process whereby, if identity resolution¹⁴ is achieved based on the identity information of a person as supplied by the relying party in an identity information validation request, the authoritative party will confirm (via an identity information validation response) the accuracy of the relying party's identity information about the person.

⁹ Additional information about the six types of data exchange services can be found in *Canada's Digital Interchange – Service Definition*.

¹⁰ Identity information is discussed in detail in section 9.4.

¹¹ Personal information is discussed in detail in section 9.3.

¹² More detailed information on validation can be found in the *Pan-Canadian Identity Management Validation Standard*.

¹³ Request/Response is a message exchange pattern in which a requestor sends a request message to a responder who receives and processes the request, and then sends back a response message to the requestor. Sometimes this pattern is implemented synchronously (i.e. the communications channel is held open until the response is received or a specified timeout period expires). However, more often the Request/Response pattern is implemented asynchronously where the communications connection is severed as soon as the request is sent.

¹⁴ Identity resolution is discussed in detail in section 7.5.

8.1.2 Personal Information Validation

Personal information validation is the process whereby, if identity resolution is achieved based on the identity information of a person as supplied by the relying party in a personal information validation request, the authoritative party will confirm (via a personal information validation response) the accuracy of the relying party's personal information about the person.

8.2 Retrieval

The retrieval¹⁵ data exchange service utilizes the Request/Response message exchange pattern. Conceptually, retrieval can be viewed as "*Notification on Demand*".

8.2.1 Identity Information Retrieval

Identity information retrieval is the process whereby, if identity resolution is achieved based on the identity information of a person as supplied by the relying party in an Identity information retrieval request, the authoritative party will disclose (via an identity information retrieval response) identity information about the person to the relying party.

8.2.2 Personal Information Retrieval

Personal information retrieval is the process whereby, if identity resolution is achieved based on the identity information of a person as supplied by the relying party in a personal information retrieval request, the authoritative party will disclose (via a personal information retrieval response) personal information about the person to the relying party.

8.3 Notification

The notification¹⁶ data exchange service utilizes the *Publish/Subscribe* message exchange pattern¹⁷.

¹⁵ More detailed information on retrieval can be found in the *Pan-Canadian Identity Management Retrieval Standard*.

¹⁶ More detailed information on notification can be found in the *Pan-Canadian Identity Management Notification Standard*.

¹⁷ Publish/Subscribe is a message exchange pattern in which subscribers register their interest in an event, or a pattern of events, and are subsequently asynchronously notified of events generated by publishers. In the Publish/Subscribe model, subscribers typically receive only a subset of the total messages published. The process of selecting messages for reception is called *filtering*. The two most common forms of filtering are topic-based filtering and content-based filtering.

8.3.1 Identity Information Notification

Identity information notification is the disclosure of Identity information about a person by an authoritative party to a relying party that is triggered by the establishment of the person's identity, a change in their identity information, or an indication that their identity information has been exposed to a risk factor (e.g. the death of the person, use of expired documents, a privacy breach, fraudulent use of the identity information).

8.3.2 Personal Information Notification

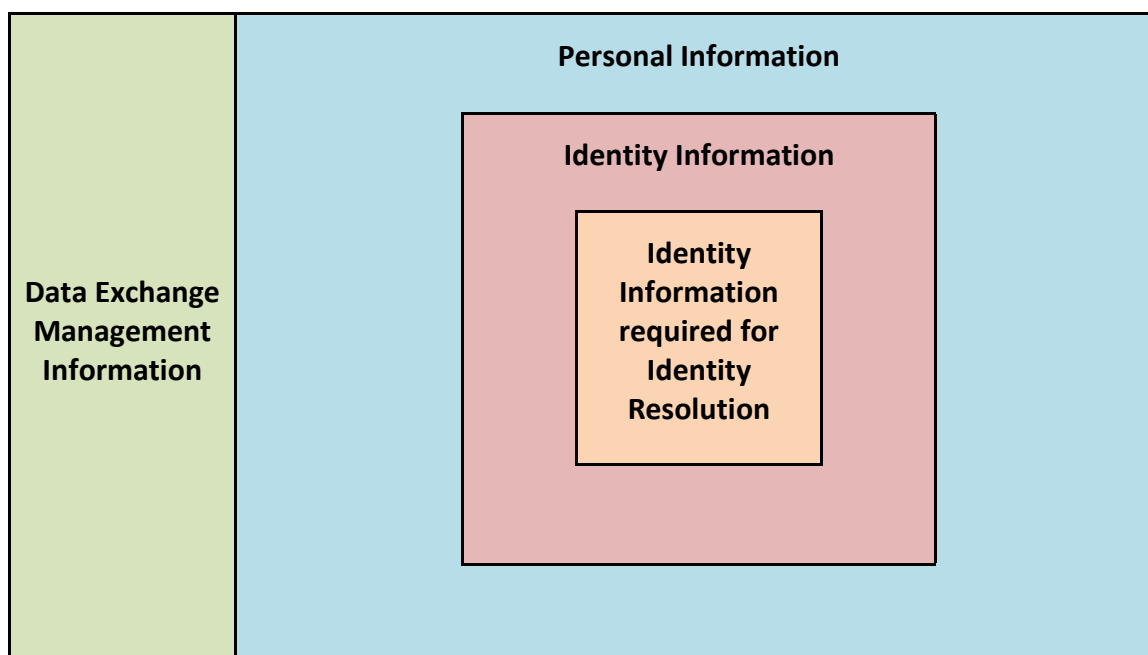
Personal information notification is the disclosure of personal information about a person by an authoritative party to a relying party that is triggered by the establishment of the person's identity or a change in their personal information.

9 TYPES OF INFORMATION EXCHANGED

9.1 Overview

The contents of a PCIM data exchange message payload can be divided into two major categories: data exchange management information and personal information. Personal information contains a subset of personal attributes that is defined as identity information; and identity information contains an even stricter subset of attributes that are required for identity resolution. These various categories of data are shown graphically in Figure 1.

Figure 1: Categorizing the Contents of a PCIM Data Exchange Message Payload



9.2 Data Exchange Management Information

Each instance of a PCIM data exchange message payload contains a set of data elements that are required for data exchange management. These data elements contain information about the data exchange itself and are used for such purposes as uniquely identifying the message payload, identifying the sender and intended recipient of the message, indicating the type of message payload, specifying disclosure levels, encoding optional message handling instructions, and relaying status information about the message.

The data exchange management data elements are:

- Data Exchange Type Code
- Source Federation Member Code
- Target Federation Member Code
- Message Payload Identifier
- Message Payload Creation Date and Time
- Requested Validation Assurance Level Code
- Requested Validation Disclosure Level Code
- Requested Retrieval Assurance Level Code
- Case Reference Identifier
- Request Priority Code
- Adjudication Requested Code
- Response Validation Assurance Level Code
- Response Validation Disclosure Level Code
- Response Retrieval Assurance Level Code
- Response Type Code
- Notification Assurance Level Code
- Vital Event Year
- Vital Event Notification Status Code

Some of the data exchange management data elements appear in every PCIM data exchange message payload. Others are specific to certain message payload types.

9.3 Personal Information

Besides the data elements that are required for data exchange management, the primary contents of a PCIM data exchange message payload are a set of data elements that are deemed to be personal information. Personal information is defined generally in legislation *as information about an identifiable person*¹⁸ and this can include a wide range of information “about” a person, including metadata. Personal information includes the stricter subset of personal attributes known as identity information¹⁹.

¹⁸ This is the generic definition that is generally found in the different legislation.

¹⁹ See section 9.4.

Personal information that is collected and used for the specific purpose of administering a program or delivering a service may be referred to as *program-specific* personal information. Program-specific personal information is usually restricted to the program and constrained by privacy legislation to ensure consistent use for which it was collected (e.g. to determine program eligibility).

Although the legislative definition of personal information may be very broad, only a limited set of personal information is supported by the PCIM Standards (see sections 9.7 and 9.8).

9.4 Identity Information

Identity information is the set of identity attributes that is sufficient to distinguish one person from all other persons within a program/service population and that is sufficient to describe the person as required by a program or service. Identity information is a subset of personal information.

Identity information often varies between different programs and services. Factors that determine what constitutes identity information for a given program or service include mandate, target population (i.e. clients), and other responsibilities prescribed by legislation or agreements.

An important subset of identity information is the set of identity attributes that is required to achieve *identity resolution* within a program/service population. Identity resolution is defined as the establishment of the uniqueness of a person within a program/service population through the use of identity information. Identity resolution requirements may differ from one program or service to another and the PCIM Standards provide a set of specifications for dealing with differing identity resolution requirements.

There are three important considerations to keep in mind in regards to identity information:

- In the case of validation and retrieval, it is the responsibility of the relying party to supply sufficient identity information in a validation or retrieval request to allow the authoritative party to achieve identity resolution.
- In the case of notification, the authoritative party will supply the identity information that is required to achieve identity resolution within the authoritative party's population. Using this same set of identity information to achieve identity resolution with the relying party's population can be problematic and must be done with considerable care.

-
- Overlap between identity information and program-specific personal information can occur. For example, *date of birth* may be used to help achieve identity resolution (i.e. it is used as identity information) and it can also be used as an age eligibility requirement (i.e. it is used as program-specific personal information).

9.4.1 Additional Identity Information Required for Identity Resolution

Additional identity information is personal information that may be supplied by the relying party to assist the authoritative party in achieving identity resolution. The need to supply additional identity information in a validation or retrieval request is normally the result of a misalignment between the relying party's identity resolution requirements and the authoritative party's identity resolution requirements. Additional identity information, although not required by the relying party to distinguish one person from all other persons within the relying party's program/service population, may be required by the authoritative party to assist the authoritative party in achieving identity resolution, especially in the case where the authoritative party maintains a large population.

It is the responsibility of the relying party to supply sufficient identity information in a validation or retrieval request to allow the authoritative party to achieve identity resolution. While this is normally achieved by providing the identity information that the relying party uses for identity resolution (e.g. *name*, *date of birth*, and *assigned identifier*), additional identity information may need to be provided to further assist in the authoritative party's identity resolution process. This is important in cases where an *assigned identifier* is not available and *name* and *date of birth* as identity information are insufficient to resolve to a unique person. To achieve identity resolution, the authoritative party might require additional identity information, such as *sex*, *place of birth*, etc.

Privacy legislation may restrict what can be used as additional identity information in a validation or retrieval request. The relying party may require additional authority to use other personal information as additional identity information in a validation or retrieval request.

Depending on what is provided as additional identity information, the authoritative party may decide to use only a subset of the additional identity information to assist in the identity resolution process. For example, if a health insurance number and a driver's license number are supplied in the validation or retrieval request, the authoritative party may determine that the driver license number is sufficient to resolve to the right person (and therefore not use the health insurance number).

9.5 Validation/Retrieval Result Information

Validation/retrieval result information consists of five data elements that only appear in a validation/retrieval response. These data elements are supplied by an authoritative party as part of a validation/retrieval response and indicate the result of a requested validation/retrieval process. From the point of view of the privacy legislation and therefore for the purposes of PCIM, these five data elements are considered to be personal information.

The validation/retrieval result data elements are:

- Identity Resolution Indicator Code

- Identity Resolution Score

- Validation Indicator Code

- Validation Score

- Retrieval Indicator Code

The *Identity Resolution Indicator Code* data element and the *Identity Resolution Score* data element appear in the identity resolution component²⁰ of a validation/retrieval response. The *Validation Indicator Code* data element and the *Validation Score* data element appear in the validation component of a validation/retrieval response and apply to a specific identity information data element or personal information data element in the validation/retrieval response. The *Retrieval Indicator Code* data element appears in the retrieval component of a validation/retrieval response and applies to a specific identity information data element or personal information data element in the validation/retrieval response.

²⁰ See section 12 for more information on data components.

9.6 Providers of Information

The different types of information contained in a PCIM data exchange message payload and their relationship to relying parties and authoritative parties are shown in Figure 2.

Figure 2: Categorizing the Contents of a PCIM Data Exchange Message Payload from the Perspective of Relying Parties and Authoritative Parties

Data Exchange Management Information that is provided by either the authoritative party or the relying party	Personal Information as defined by the initiator of the data exchange and that the relying party has the authority to collect and maintain for the purposes of administering a program or service					
	Identity Information as defined by the initiator of the data exchange				Personal Information that is maintained by the relying party	
	Identity Resolution as defined by the authoritative party		Identity Information that is maintained by the relying party			
	Identity Information that is used for Identity Resolution by both the authoritative party and the relying party	Additional Identity Information that may be required for Identity Resolution by the authoritative party				

The table shows that the distinction between personal information and identity information is defined by the initiator of the PCIM data exchange. In the case of validation/retrieval the initiator of the PCIM data exchange is the relying party (i.e. via a validation/retrieval request). In the case of notification the initiator of the PCIM data exchange is the authoritative party. When looking at a PCIM data exchange it is sometimes useful to be able to discern the provider of the information contained in the message payload and also the initiator of the data exchange. The data exchange management information identifies the origin of the data exchange.

9.7 Personal Information Categories

The PCIM Standards group the personal information data elements that can be exchanged into fourteen personal information categories:

1. **PERSON NAME** indicates the name by which a person is known or referred to. A person's name is usually a combination of a *surname* and one or more *given names*. A person may have several known names (due to name change, name variations, marriage, etc.).
2. **DATE OF EVENT** indicates the date on which an event in a person's life occurred. Examples of date of event are: date of birth, date of death, and date of stillbirth. The completeness and accuracy of date of event information are dependent on where and when the event occurred.
3. **PLACE OF EVENT** indicates the place where an event in a person's life occurred. Examples of place of event are: place of birth, place of death, and place of stillbirth. The completeness, accuracy, and currency of place of event information are dependent on where and when the event occurred.
4. **SEX, GENDER, DOCUMENTED SEX** indicates the sex, gender, or documented sex of a person. Depending on the program or service delivery requirement, a person may have one or several indications.
5. **ASSIGNED IDENTIFIER** indicates an artificial identifier (typically a numeric or alphanumeric string) that has been assigned to a unique person. An assigned identifier may be associated with an event (e.g. a birth registration), a program (e.g. a provincial health insurance program), or a document issued to a person (e.g. a passport). A person may have several assigned identifiers – for example, a person may have a birth registration number, a provincial health insurance number, and a passport number.
6. **PERSON STATUS** indicates an officially recognized standing of a person. Depending on the program or service delivery requirement, a person may have one or several indications.
7. **ADDRESS** indicates where a person lives or can be communicated with. A person may have several addresses, including primary and secondary residences, mailing addresses, and previous residences.
8. **BIOMETRIC IMAGE** indicates personal information (in the form of a digital image) that describes a person's physiology or physical appearance.
9. **PERSON AGE** indicates the age of a person expressed in units of hours, days, months, or years.
10. **CONTACT DETAIL** indicates personal information that aids in communicating directly with a person.

-
11. **BIRTH VITAL EVENT DETAIL** indicates personal information that provides specialized documentary detail of a birth vital event.
 12. **DEATH VITAL EVENT DETAIL** indicates personal information that provides specialized documentary detail of a death vital event.
 13. **STILLBIRTH VITAL EVENT DETAIL** indicates personal information that provides specialized documentary detail of a stillbirth vital event.
 14. **ASSOCIATED PERSON** indicates another person who has an affiliation with or a legal authority to act on behalf of a person (e.g. spouse, parent, guardian, power of attorney, etc.). A person may have several associated persons.

The PCIM Standards specify which personal information categories can be used in validation, retrieval, and notification, and for each personal information category, the PCIM Standards specify the associated data elements that may be or must be used.

9.8 Limits on the Exchange of Personal Information

9.8.1 Validation

The *Pan-Canadian Identity Management Validation Standard* limits the scope of personal information to the following personal information categories and their associated data elements²¹:

PERSON NAME [1:5]²²

- Person Name Type Code
- Surname
- Given Names Listed
- First Given Name Listed
- Second Given Name Listed
- Third and Additional Given Names Listed

²¹ While the *Pan-Canadian Identity Management Validation Standard* considers all of these personal information categories and their associated data elements to be personal information, it imposes restrictions on which of these personal information categories and their associated data elements can be considered as identity information. See Table 2 for more information.

²² An item appearing in *Block Bold* (e.g. **PERSON NAME**) indicates a personal information category. The notation [**n₁:n₂**] means that the personal information category can be present from n₁ to n₂ times.

DATE OF EVENT [1:2]

Event Type Code

Event Date

Event Year

Event Month

Event Day

PLACE OF EVENT [0:2]

Event Type Code

Municipality Name

Province/Territory Code

Province/Territory/State Abbreviation Code

Province/Territory/State Name

Country Code

Country Name

Census Division and Census Subdivision Code

SEX, GENDER, DOCUMENTED SEX

Sex Code

Gender Code

Documented Sex Code

ASSIGNED IDENTIFIER [0:5]

Assigned Identifier Type Code
Person Identifier
Registration Date
Effective Date
Expiry Date
Issue Date
Person Identifier Status Code
Person Identifier Status Reason Code

PERSON STATUS

Death Status Code
Marital Status Code
Change of Legal Name Status Code
Canadian Citizenship Status Code
Legal Presence in Canada Status Code

ADDRESS [0:3]

Address Type Code
Street Address
Street Address Line1
Street Address Line2
Unit Specification
Civic Number
Civic Number Suffix
Street Name
Street Type Specification
Street Direction
Postal Box
Rural Route
Postal Station

Additional Delivery Specifications

Municipality Name

Province/Territory Code

Province/Territory/State Abbreviation Code

Province/Territory/State Name

Country Code

Country Name

Postal Code

Census Division and Census Subdivision Code

ASSOCIATED PERSON [0:5]

Associated Person Type Code

PERSON NAME [1:2]

DATE OF EVENT [0:2]

PLACE OF EVENT [0:2]

SEX, GENDER, DOCUMENTED SEX

ASSIGNED IDENTIFIER [0:2]

9.8.2 Retrieval

The *Pan-Canadian Identity Management Retrieval Standard* limits the scope of personal information to the following personal information categories and their associated data elements²³:

PERSON NAME [1:5]

- Person Name Type Code
- Surname
- Given Names Listed
- First Given Name Listed
- Second Given Name Listed
- Third and Additional Given Names Listed

DATE OF EVENT [1:2]

- Event Type Code
- Event Date
- Event Year
- Event Month
- Event Day

PLACE OF EVENT [0:2]

- Event Type Code
- Municipality Name
- Province/Territory Code
- Province/Territory/State Abbreviation Code
- Province/Territory/State Name
- Country Code

²³ While the *Pan-Canadian Identity Management Retrieval Standard* considers all of these personal information categories and their associated data elements to be personal information, it imposes restrictions on which of these personal information categories and their associated data elements can be considered as identity information. See Table 2 for more information.

Country Name

Census Division and Census Subdivision Code

SEX, GENDER, DOCUMENTED SEX

Sex Code

Gender Code

Documented Sex Code

ASSIGNED IDENTIFIER [0:5]

Assigned Identifier Type Code

Person Identifier

Registration Date

Effective Date

Expiry Date

Issue Date

Person Identifier Status Code

Person Identifier Status Reason Code

PERSON STATUS

Death Status Code

Marital Status Code

Change of Legal Name Status Code

Canadian Citizenship Status Code

Legal Presence in Canada Status Code

ADDRESS [0:3]

Address Type Code

Street Address

Street Address Line1

Street Address Line2

Unit Specification

Civic Number
Civic Number Suffix
Street Name
Street Type Specification
Street Direction
Postal Box
Rural Route
Postal Station
Additional Delivery Specifications
Municipality Name
Province/Territory Code
Province/Territory/State Abbreviation Code
Province/Territory/State Name
Country Code
Country Name
Postal Code
Census Division and Census Subdivision Code

BIOMETRIC IMAGE

Full Frontal Face Image

ASSOCIATED PERSON [0:5]

Associated Person Type Code

PERSON NAME [1:2]

DATE OF EVENT [0:2]

PLACE OF EVENT [0:2]

SEX, GENDER, DOCUMENTED SEX

ASSIGNED IDENTIFIER [0:2]

9.8.3 Notification

The *Pan-Canadian Identity Management Notification Standard* limits the scope of personal information to the following personal information categories and their associated data elements²⁴:

PERSON NAME [1:5]

- Person Name Type Code
- Surname
- Given Names Listed
- First Given Name Listed
- Second Given Name Listed
- Third and Additional Given Names Listed

DATE OF EVENT [1:2]

- Event Type Code
- Event Date
- Event Year
- Event Month
- Event Day

PLACE OF EVENT [0:2]

- Event Type Code
- Municipality Name
- Province/Territory Code
- Province/Territory/State Abbreviation Code
- Province/Territory/State Name
- Country Code

²⁴ While the *Pan-Canadian Identity Management Notification Standard* considers all of these personal information categories and their associated data elements to be personal information, it imposes restrictions on which of these personal information categories and their associated data elements can be considered as identity information. See Table 2 for more information.

Country Name

Census Division and Census Subdivision Code

SEX, GENDER, DOCUMENTED SEX

Sex Code

Gender Code

Documented Sex Code

ASSIGNED IDENTIFIER [0:5]

Assigned Identifier Type Code

Person Identifier

Registration Date

Effective Date

Expiry Date

Issue Date

Person Identifier Status Code

Person Identifier Status Reason Code

PERSON STATUS

Death Status Code

Marital Status Code

Change of Legal Name Status Code

Canadian Citizenship Status Code

Legal Presence in Canada Status Code

ADDRESS [0:3]

Address Type Code

Street Address

Street Address Line1

Street Address Line2

Unit Specification

Civic Number
Civic Number Suffix
Street Name
Street Type Specification
Street Direction
Postal Box
Rural Route
Postal Station
Additional Delivery Specifications
Municipality Name
Province/Territory Code
Province/Territory/State Abbreviation Code
Province/Territory/State Name
Country Code
Country Name
Postal Code
Census Division and Census Subdivision Code

BIOMETRIC IMAGE

Full Frontal Face Image

PERSON AGE

Age
Time Units Code

CONTACT DETAIL

Language of Correspondence Code
Telephone Number (Primary)
Telephone Number (Secondary)
Email Address

BIRTH VITAL EVENT DETAIL

Birth Weight
Birth Locality Code
Attendant Designation Code
Number of Liveborn Plus Stillborn in This Vital Event
Number of Stillborn in This Vital Event
Birth Order Code
Pregnancy Duration
Parents Married to Each Other Code
Total Children Liveborn by This Mother Including This Vital Event
Total Children Stillborn by This Mother Including This Vital Event

DEATH VITAL EVENT DETAIL

Death Locality Code
Injury Locality Code
Certifier Designation Code
Underlying Cause of Death Code
Autopsy Performed Code
Autopsy Findings Used in Stated Underlying Cause of Death Code
Further Information Expected on Underlying Cause of Death Code
Disposition of Body Code

STILLBIRTH VITAL EVENT DETAIL

Birth Weight
Stillbirth Locality Code
Attendant Designation Code
Number of Liveborn Plus Stillborn in This Vital Event
Number of Stillborn in This Vital Event
Birth Order Code
Labour Induced Code
Death of Foetus Before Labour Code

Death of Foetus Before Operative Procedures Code
Death of Foetus During Labour Code
Underlying Cause of Stillbirth Code
Autopsy Performed Code
Autopsy Findings Used in Stated Underlying Cause of Stillbirth Code
Further Information Expected on Underlying Cause of Stillbirth Code
Disposition of Body Code
Pregnancy Duration
Parents Married to Each Other Code
Total Children Liveborn by This Mother Including This Vital Event
Total Children Stillborn by This Mother Including This Vital Event

ASSOCIATED PERSON [0:5]

Associated Person Type Code

PERSON NAME [0:2]

DATE OF EVENT [0:2]

PLACE OF EVENT [0:2]

SEX, GENDER, DOCUMENTED SEX

ASSIGNED IDENTIFIER [0:2]

PERSON STATUS

ADDRESS [0:2]

PERSON AGE

CONTACT DETAIL

9.8.4 Summary Tables

The limits on the exchange of personal information, as documented in the PCIM Standards, are summarized in Table 1. (Note: for clarity, only the personal information categories are listed – their associated data elements are not shown)

Table 1: Limits on the Exchange of Personal Information

Validation	Retrieval	Notification
PERSON NAME [1:5] DATE OF EVENT [1:2] PLACE OF EVENT [0:2] SEX, GENDER, DOCUMENTED SEX ASSIGNED IDENTIFIER [0:5] PERSON STATUS ADDRESS [0:3] ASSOCIATED PERSON [0:5] PERSON NAME [1:2] DATE OF EVENT [0:2] PLACE OF EVENT [0:2] SEX, GENDER, DOCUMENTED SEX ASSIGNED IDENTIFIER [0:2]	PERSON NAME [1:5] DATE OF EVENT [1:2] PLACE OF EVENT [0:2] SEX, GENDER, DOCUMENTED SEX ASSIGNED IDENTIFIER [0:5] PERSON STATUS ADDRESS [0:3] ASSOCIATED PERSON [0:5] PERSON NAME [1:2] DATE OF EVENT [0:2] PLACE OF EVENT [0:2] SEX, GENDER, DOCUMENTED SEX ASSIGNED IDENTIFIER [0:2]	PERSON NAME [1:5] DATE OF EVENT [1:2] PLACE OF EVENT [0:2] SEX, GENDER, DOCUMENTED SEX ASSIGNED IDENTIFIER [0:5] PERSON STATUS ADDRESS [0:3] ASSOCIATED PERSON [0:5] PERSON NAME [0:2] DATE OF EVENT [0:2] PLACE OF EVENT [0:2] SEX, GENDER, DOCUMENTED SEX ASSIGNED IDENTIFIER [0:2]
		PERSON STATUS ADDRESS [0:2] PERSON AGE CONTACT DETAIL
	BIOMETRIC IMAGE	BIOMETRIC IMAGE
		PERSON AGE CONTACT DETAIL BIRTH VITAL EVENT DETAIL DEATH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

The limits on the designation of personal information categories and their associated data elements as identity information, as documented in the PCIM Standards, are summarized in Table 2. (Note: for clarity, only the personal information categories are listed – their associated data elements are not shown)

Table 2: Limits on the Designation of Personal Information Categories and Their Associated Data Elements as Identity Information

Personal Information Category	Validation	Retrieval	Notification
PERSON NAME	Yes	Yes	Yes
DATE OF EVENT	Yes	Yes	Yes
PLACE OF EVENT	Yes	Yes	Yes
SEX, GENDER, DOCUMENTED SEX	Yes	Yes	Yes
ASSIGNED IDENTIFIER	Yes	Yes	Yes
PERSON STATUS	No	No	No
ADDRESS	No	No	No
ASSOCIATED PERSON	Yes	Yes	Yes
BIOMETRIC IMAGE	N/A	No	No
PERSON AGE	N/A	N/A	No
CONTACT DETAIL	N/A	N/A	No
BIRTH VITAL EVENT DETAIL	N/A	N/A	No
DEATH VITAL EVENT DETAIL	N/A	N/A	No
STILLBIRTH VITAL EVENT DETAIL	N/A	N/A	No

10 STRUCTURING THE DATA IN THE MESSAGE PAYLOAD

The objective of this section is to derive a message payload data structure for PCIM data exchanges. The approach that will be taken is to first enumerate the data structures that are inherent in a PCIM message payload and then regroup and merge the categorizations into a single data structure.

10.1 Inherent Structures

The inherent structures within a PCIM message payload can be classified as follows:

- entities and relationships
- functions
- information types
- message exchange patterns

10.1.1 Entities and Relationships

The Pan-Canadian Identity Management entity-relationship model can be viewed as a hierarchal structure:

Business Domain: Pan-Canadian Identity Management

Entity Type: Person

[Attributes (i.e. information about a person) which embed
the **Relationship Type:** Person-Person]

Entity Type: Organization

[Attributes (i.e. information about an organization) which embed
the **Relationship Type:** Organization-Organization]

Relationship Type: Person-Organization

The scope limitations imposed on the initial implementation of CDI reduce the entity-relationship model to a single entity type, Person, with a many-to-many relationship between instances of the Person entity type. The attributes of the Person entity type consist of all the data elements that are deemed to be personal information. Future implementations of CDI will introduce the Organization entity type (which includes businesses, institutions, etc.) and the many-to-many relationship type between the Person and Organization entity types.

10.1.2 Functions

The six data exchange services²⁵ that are in scope for the initial implementation of CDI consist of three primary functions (i.e. validation, retrieval, and notification) which are each subdivided into two sub-functions based on information type (i.e. identity information or personal information²⁶):

Function: Validation

Sub-Function: Identity Information Validation

Sub-Function: Personal Information Validation

Function: Retrieval

Sub-Function: Identity Information Retrieval

Sub-Function: Personal Information Retrieval

Function: Notification

Sub-Function: Identity Information Notification

Sub-Function: Personal Information Notification

In addition, each primary function requires an *identity resolution*²⁷ sub-function:

Function: Validation

Sub-Function: Identity Resolution

Function: Retrieval

Sub-Function: Identity Resolution

Function: Notification

Sub-Function: Identity Resolution

²⁵ The six types of data exchange services are discussed in detail in section 8.

²⁶ The types of information exchanged are discussed in detail in section 9.

²⁷ Identity resolution is discussed in detail in section 7.5.

10.1.3 Information Types

The contents²⁸ of a PCIM data exchange message payload can be divided into two major categories: data exchange management information and personal information. Personal information contains a subset of personal attributes that is defined as identity information; and identity information contains an even stricter subset of identity attributes that are required for identity resolution. Thus, there are four types of information contained within a PCIM data exchange message payload:

- data exchange management information
- identity resolution identity information
- identity information
- personal information

10.1.4 Message Exchange Patterns

The three primary functions can be categorized according to the message exchange pattern²⁹ that they employ:

Message Exchange Pattern: Request/Response

- Validation
- Retrieval

Message Exchange Pattern: Publish/Subscribe

- Notification

²⁸ The types of information exchanged are discussed in detail in section 9.

²⁹ The two message exchange patterns are explained in section 8.

10.2 The High-Level Data Structure

The implementation schedule for CDI is based on an entity-centric approach. Because the function, information type, and message exchange pattern structures can be placed within the entity type, the entity-relationship structure can be used to form the highest levels of the PCIM data exchange message payload data structure as follows:

```
PCIM Data Exchange
  Person
    [Sub-Structures]
  Organization
    [Sub-Structures]
  Person-Organization
    [Sub-Structures]
```

Because the initial implementation of CDI consists of the Person entity type only, the current high-level PCIM data exchange message payload data structure can be simplified to:

```
PCIM Data Exchange
  Person
    [Sub-Structures]
```

10.3 Combining the Data Sub-Structures

The two sub-functions of each of the three primary functions outlined in section 10.1.2 (e.g. Identity Information Retrieval and Personal Information Retrieval) are functionally identical to each other and are only differentiated from each other by the type of information that they act on. Therefore, the three primary functions can be restructured as follows:

Function: Validation

Information Type: Identity Information

Information Type: Personal Information

Function: Retrieval

Information Type: Identity Information

Information Type: Personal Information

Function: Notification

Information Type: Identity Information

Information Type: Personal Information

Since the validation and retrieval functions use the same message exchange pattern, they can be grouped together under one message type:

Message Type: Validation/Retrieval

Component: Validation Function

Section: Identity Information

Section: Personal Information

Component: Retrieval Function

Section: Identity Information

Section: Personal Information

Message Type: Notification

Component: Notification Function

Section: Identity Information

Section: Personal Information

To be complete, a PCIM data exchange message payload requires two other types of information: data exchange management information and identity information that is required for the identity resolution³⁰ function:

Message Type: Validation/Retrieval

Section: Data Exchange Management Information

Component: Identity Resolution Function

Section: Identity Information

Section: Additional Identity Information

Component: Validation Function

Section: Identity Information

Section: Personal Information

Component: Retrieval Function

Section: Identity Information

Section: Personal Information

Message Type: Notification

Section: Data Exchange Management Information

Component: Identity Resolution Function

Section: Identity Information

Component: Notification Function

Section: Identity Information

Section: Personal Information

Finally, because there are content differences³¹ between the request and response forms of the validation/retrieval message type there are in fact three PCIM data exchange types:

³⁰ Identity resolution is discussed in detail in section 7.5.

³¹ The primary difference being that the response includes a copy of the original request (see section 12.3).

PCIM Data Exchange Type: Validation/Retrieval Request

Module: Request

Section: Data Exchange Management Information

Component: Identity Resolution Function

Section: Identity Information

Section: Additional Identity Information

Component: Validation Function

Section: Identity Information

Section: Personal Information

Component: Retrieval Function

Section: Identity Information

Section: Personal Information

PCIM Data Exchange Type: Validation/Retrieval Response

Module: Request

[A copy of the Request module of the original Validation/Retrieval Request]

Module: Response

Section: Data Exchange Management Information

Component: Identity Resolution Function

Section: Identity Resolution Result Information

Component: Validation Function

Section: Identity Information Validation Result Information

Section: Personal Information Validation Result Information

Component: Retrieval Function

Section: Identity Information Retrieval Result Information

Section: Personal Information Retrieval Result Information

PCIM Data Exchange Type: Notification

Section: Data Exchange Management Information

Component: Identity Resolution Function

Section: Identity Information

Component: Notification Function

Section: Identity Information

Section: Personal Information

10.4 The Completed Data Structure

A merge of the high-level data structure with the reworked data sub-structures results in the following:

PCIM Data Exchange

Person

Validation/Retrieval Request

Request Module

Data Exchange Management Information

Identity Resolution Component

Identity Information

Additional Identity Information

Validation Component

Identity Information

Personal Information

Retrieval Component

Identity Information

Personal Information

Validation/Retrieval Response

Request Module

[A copy of the Request section of the original
Validation/Retrieval Request]

Response Module

Data Exchange Management Information

Identity Resolution Component

Identity Resolution Result Information

Validation Component

Identity Information Validation Result
Information

Personal Information Validation Result
Information

Retrieval Component

Identity Information Retrieval Result
Information

Personal Information Retrieval Result
Information

Notification

Data Exchange Management Information

Identity Resolution Component

Identity Information

Notification Component

Identity Information

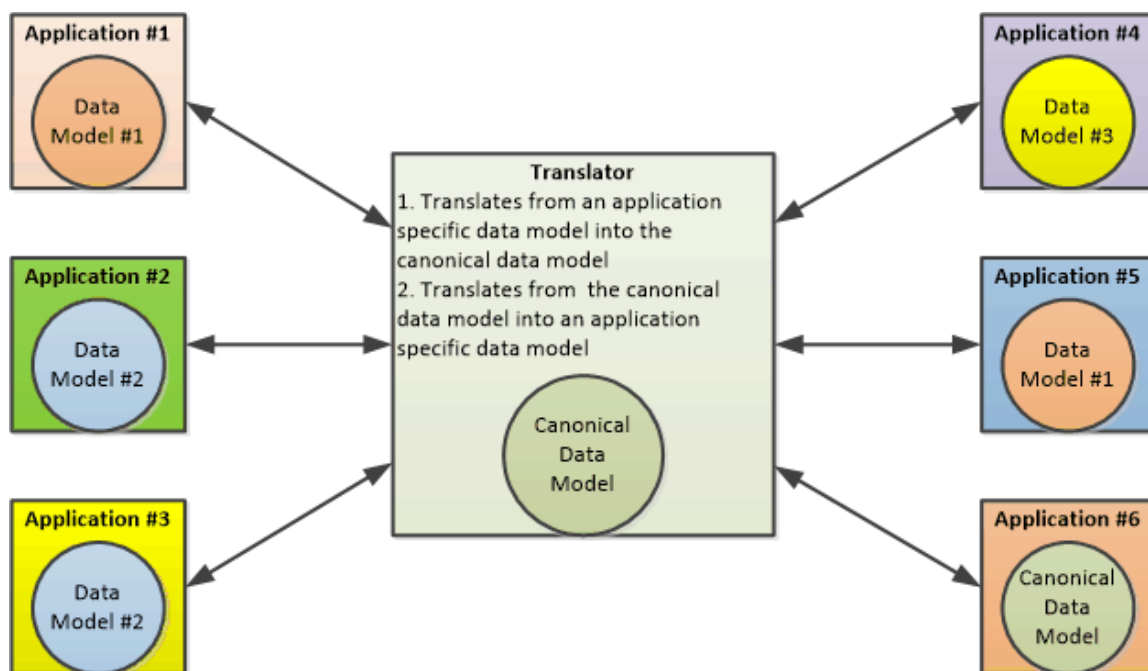
Personal Information

11 THE PCIM CANONICAL DATA MODEL

The data structure specifications for PCIM data exchanges as shown in section 12, combined with the data element specifications found in section 13 and the data type specifications found in section 14, constitute the Pan-Canadian Identity Management canonical data model (CDM)³².

The purpose of a canonical data model is to standardize data specifications associated with related business systems. In the realm of messaging applications, a canonical data model includes a set of specifications for the structure and content of the message payload. With a shared canonical data model in place, application specific data models can be mapped to and transformed into their shared CDM. In turn, the canonical data model can be converted into any of the application specific data models that share the same CDM. As a result, instead of building customized application-to-application data model translators between all applications, it is sufficient to build just one data model translator between each application's format and the canonical format.

Figure 3: Data Model Translator



³² A *canonical data model (CDM)* is a generic data model or design pattern that can be shared by related applications but that is independent from any specific application. A CDM is very useful when exchanging information between separate and independent applications.

12 DATA STRUCTURE SPECIFICATIONS

12.1 High-Level Data Structure

The high-level data structure of a PCIM message payload is the following:

PCIM Data Exchange

Person

Validation/Retrieval Request

[Sub-Structures]

Validation/Retrieval Response

[Sub-Structures]

Notification

[Sub-Structures]

12.2 Validation/Retrieval Request Data Structure

The validation/retrieval request data structure is the following:

VALIDATION/RETRIEVAL REQUEST

REQUEST MODULE

Data Exchange Management Information

[Data Elements]

Identity Resolution Component

Identity Information

[Personal Information Categories [Data Elements]]

Additional Identity Information

[Personal Information Categories [Data Elements]]

Validation Component

Identity Information

[Personal Information Categories [Data Elements]]

Personal Information

[Personal Information Categories [Data Elements]]

Retrieval Component

Identity Information

[Personal Information Categories [Data Elements]³³]

Personal Information

[Personal Information Categories [Data Elements]³³]

³³ The data value for these data elements will be an asterisk (“*”).

For example, a validation/retrieval request might contain the following:

VALIDATION/RETRIEVAL REQUEST

REQUEST MODULE

Data Exchange Management Information

Data Exchange Type Code
Source Federation Member Code
Target Federation Member Code
Message Payload Identifier
Message Payload Creation Date and Time
Requested Validation Assurance Level Code
Requested Validation Disclosure Level Code
Requested Retrieval Assurance Level Code

Identity Resolution Component

Identity Information

Assigned Identifier [1]³⁴
Assigned Identifier Type Code
Person Identifier

Additional Identity Information

Assigned Identifier [2]
Assigned Identifier Type Code
Person Identifier

Validation Component

Identity Information

Person Name [1]
Person Name Type Code
Surname
Given Names Listed
Date of Event [1]
Event Type Code
Event Date

³⁴ The number inside square brackets indicates the particular instance of a personal information category in the case of a multi-instance personal information category.

Place of Event [1]
Event Type Code
Country Code
Country Name
Sex, Gender, Documented Sex
Sex Code

Personal Information

Person Name [2]
Person Name Type Code
Surname
Given Names Listed
Person Status
Death Status Code
Marital Status Code
Address [1]
Address Type Code
Municipality Name
Province/Territory/State Name
Postal Code

Retrieval Component

Identity Information

Assigned Identifier [3]
Assigned Identifier Type Code
Person Identifier
Issue Date
Expiry Date
Associated Person [1]
Associated Person Type Code
Person Name [1]
Person Name Type Code
Surname
Given Names Listed
Place of Event [1]
Event Type Code
Country Name

Associated Person [2]

Associated Person Type Code

Person Name [1]

Person Name Type Code

Surname

Given Names Listed

Place of Event [1]

Event Type Code

Country Name

Personal Information

Date of Event [2]

Event Type Code

Event Date

Place of Event [2]

Event Type Code

Province/Territory/State Name

Country Name

Sex, Gender, Documented Sex

Gender Code

Person Status

Canadian Citizenship Status Code

Legal Presence in Canada Status Code

Address [2]

Address Type Code

Municipality Name

Province/Territory/State Name

Postal Code

12.3 Validation/Retrieval Response Data Structure

As a general rule for the validation component and the retrieval component in a validation/retrieval response, the set of data elements supplied by the authoritative party mirrors the set of data elements supplied by the relying party in the validation/retrieval request.

In the case of the validation component, this means that for each data element supplied by the relying party in the request, the authoritative party will supply in the response a corresponding set of up to three data elements:

1. A data element whose data value indicates the accuracy of the data value supplied by the relying party in the request
2. Optionally, a data element whose value indicates the probability that the data value supplied by the relying party in the request is equivalent to the authoritative party's data value
3. Optionally, the authoritative party's data value

In the case of the retrieval component, this means that for each data element supplied by the relying party in the request, the authoritative party will supply in the response a corresponding set of two data elements:

1. A data element whose data value indicates the result of the retrieval process
2. The authoritative party's data value

In addition, a validation/retrieval response contains within it an exact copy of the original validation/retrieval request. Thus, the validation/retrieval response data structure is the following:

VALIDATION/RETRIEVAL RESPONSE

REQUEST MODULE

Data Exchange Management Information

[Data Elements]

Identity Resolution Component

Identity Information

[Personal Information Categories [Data Elements]]

Additional Identity Information

[Personal Information Categories [Data Elements]]

Validation Component

Identity Information

[Personal Information Categories [Data Elements]]

Personal Information

[Personal Information Categories [Data Elements]]

Retrieval Component

Identity Information

[Personal Information Categories [Data Elements]]

Personal Information

[Personal Information Categories [Data Elements]]

RESPONSE MODULE

Data Exchange Management Information

[Data Elements]³⁵

Identity Resolution Component

[Data Elements]³⁶

Validation Component

Identity Information

[Personal Information Categories [Data Elements]³⁷]

Personal Information

[Personal Information Categories [Data Elements]³⁷]

³⁵ These data elements and/or their values may be different from the data exchange management information in the validation/retrieval request.

³⁶ These data elements indicate the result of the identity resolution process.

³⁷ These data elements include indicators of the result of the validation process and, optionally, the authoritative party's data value.

Retrieval Component*Identity Information*[Personal Information Categories [Data Elements]³⁸]*Personal Information*[Personal Information Categories [Data Elements]³⁸]

For example, the validation/retrieval response to the validation/retrieval request example given in section 12.2 would contain the following:

VALIDATION/RETRIEVAL RESPONSE**REQUEST MODULE***(See the example in section 12.2)***RESPONSE MODULE***Data Exchange Management Information*

Data Exchange Type Code
Source Federation Member Code
Target Federation Member Code
Message Payload Identifier
Message Payload Creation Date and Time
Response Validation Assurance Level Code
Response Validation Disclosure Level Code
Response Retrieval Assurance Level Code
Response Type Code

Identity Resolution Component

Identity Resolution Indicator Code
Identity Resolution Score

³⁸ These data elements include an indicator of the result of the retrieval process and the authoritative party's data value.

Validation Component*Identity Information*

Person Name [1]

Person Name Type Code

Response Surname

Validation Indicator Code

Validation Score

Surname

Response Given Names Listed

Validation Indicator Code

Validation Score

Given Names Listed

Date of Event [1]

Event Type Code

Response Event Date

Validation Indicator Code

Validation Score

Event Date

Place of Event [1]

Event Type Code

Response Country Code

Validation Indicator Code

Validation Score

Country Code

Response Country Name

Validation Indicator Code

Validation Score

Country Name

Sex, Gender, Documented Sex

Response Sex Code

Validation Indicator Code

Validation Score

Sex Code

Personal Information

Person Name [2]

Person Name Type Code

Response Surname

Validation Indicator Code

Validation Score

Surname

Response Given Names Listed
Validation Indicator Code
Validation Score
Given Names Listed

Person Status

Response Death Status Code
Validation Indicator Code
Validation Score
Death Status Code

Response Marital Status Code
Validation Indicator Code
Validation Score
Marital Status Code

Address [1]

Address Type Code
Response Municipality Name
Validation Indicator Code
Validation Score
Municipality Name
Response Province/Territory/State Name
Validation Indicator Code
Validation Score
Province/Territory/State Name
Response Postal Code
Validation Indicator Code
Validation Score
Postal Code

Retrieval Component

Identity Information

Assigned Identifier [3]
Assigned Identifier Type Code
Response Person Identifier
Retrieval Indicator Code
Person Identifier
Response Issue Date
Retrieval Indicator Code
Issue Date
Response Expiry Date
Retrieval Indicator Code
Expiry Date

Associated Person [1]
Associated Person Type Code
Person Name [1]
Person Name Type Code
Response Surname
Retrieval Indicator Code
Surname
Response Given Names Listed
Retrieval Indicator Code
Given Names Listed
Place of Event [1]
Event Type Code
Response Country Name
Retrieval Indicator Code
Country Name
Associated Person [2]
Associated Person Type Code
Person Name [1]
Person Name Type Code
Response Surname
Retrieval Indicator Code
Surname
Response Given Names Listed
Retrieval Indicator Code
Given Names Listed
Place of Event [1]
Event Type Code
Response Country Name
Retrieval Indicator Code
Country Name

Personal Information

Date of Event [2]
Event Type Code
Response Event Date
Retrieval Indicator Code
Event Date

Place of Event [2]

Event Type Code

Response Province/Territory/State Name

Retrieval Indicator Code

Province/Territory/State Name

Response Country Name

Retrieval Indicator Code

Country Name

Sex, Gender, Documented Sex

Response Gender Code

Retrieval Indicator Code

Gender Code

Person Status

Response Canadian Citizenship Status Code

Retrieval Indicator Code

Canadian Citizenship Status Code

Response Legal Presence in Canada Status Code

Retrieval Indicator Code

Legal Presence in Canada Status Code

Address [2]

Address Type Code

Response Municipality Name

Retrieval Indicator Code

Municipality Name

Response Province/Territory/State Name

Retrieval Indicator Code

Province/Territory/State Name

Response Postal Code

Retrieval Indicator Code

Postal Code

12.4 Notification Data Structure

The notification data structure is the following:

NOTIFICATION

Data Exchange Management Information

[Data Elements]

Identity Resolution Component

Identity Information

[Personal Information Categories [Data Elements]]

Notification Component

Identity Information

[Personal Information Categories [Data Elements]]

Personal Information

[Personal Information Categories [Data Elements]]

For example, a birth vital event notification sent from a provincial or territorial Vital Statistics Office to Statistics Canada contains the following:

NOTIFICATION

Data Exchange Management Information

Data Exchange Type Code

Source Federation Member Code

Target Federation Member Code

Message Payload Identifier

Message Payload Creation Date and Time

Notification Assurance Level Code

Vital Event Year

Vital Event Notification Status Code

Identity Resolution Component

Identity Information

Assigned Identifier [1]
Assigned Identifier Type Code
Person Identifier

Notification Component

Identity Information

Person Name [1]
Person Name Type Code
Surname
Given Names Listed
First Given Name Listed
Second Given Name Listed
Third and Additional Given Names Listed
Date of Event [1]
Event Type Code
Event Date
Place of Event [1]
Event Type Code
Municipality Name
Province/Territory Code
Country Code
Census Division and Census Subdivision Code
Sex, Gender, Documented Sex
Sex Code
Assigned Identifier [1]
Assigned Identifier Type Code
Registration Date

Personal Information

Birth Vital Event Detail
Birth Weight
Birth Locality Code
Attendant Designation Code
Number of Liveborn Plus Stillborn in This Vital Event
Number of Stillborn in This Vital Event
Birth Order Code
Pregnancy Duration
Parents Married to Each Other Code

Total Children Liveborn by This Mother Including This Vital
Event

Total Children Stillborn by This Mother Including This Vital
Event

Associated Person [1]

Associated Person Type Code

Person Name [1]

Person Name Type Code

Surname

Given Names Listed

First Given Name Listed

Second Given Name Listed

Third and Additional Given Names Listed

Date of Event [1]

Event Type Code

Event Date

Place of Event [1]

Event Type Code

Province/Territory Code

Country Code

Person Age

Age

Associated Person [2]

Associated Person Type Code

Person Name [1]

Person Name Type Code

Surname

Given Names Listed

First Given Name Listed

Second Given Name Listed

Third and Additional Given Names Listed

Person Name [2]

Person Name Type Code

Surname

Date of Event [1]

Event Type Code

Event Date

Place of Event [1]

Event Type Code

Province/Territory Code

Country Code

Assigned Identifier [1]

Assigned Identifier Type Code

Person Identifier

Person Status

Marital Status Code

Address [1]

Address Type Code

Street Address

Municipality Name

Province/Territory Code

Country Code

Postal Code

Census Division and Census Subdivision Code

Address [2]

Address Type Code

Street Address

Street Address Line1

Street Address Line2

Unit Specification

Civic Number

Street Name

Rural Route

Municipality Name

Province/Territory Code

Country Code

Postal Code

Person Age

Age

Contact Detail

Language of Correspondence Code

Telephone Number (Primary)

Telephone Number (Secondary)

For another example, a death vital event notification sent from a provincial or territorial Vital Statistics Office to Statistics Canada contains the following:

NOTIFICATION*Data Exchange Management Information*

Data Exchange Type Code
Source Federation Member Code
Target Federation Member Code
Message Payload Identifier
Message Payload Creation Date and Time
Notification Assurance Level Code
Vital Event Year
Vital Event Notification Status Code

Identity Resolution Component*Identity Information*

Assigned Identifier [1]
Assigned Identifier Type Code
Person Identifier

Notification Component*Identity Information*

Person Name [1]
Person Name Type Code
Surname
Given Names Listed
First Given Name Listed
Second Given Name Listed
Third and Additional Given Names Listed
Person Name [2]
Person Name Type Code
Surname
Date of Event [1]
Event Type Code
Event Date
Date of Event [2]
Event Type Code
Event Date

Place of Event [1]

Event Type Code
Municipality Name
Province/Territory Code
Country Code

Place of Event [2]

Event Type Code
Municipality Name
Province/Territory Code
Country Code
Census Division and Census Subdivision Code

Sex, Gender, Documented Sex

Sex Code

Assigned Identifier [1]

Assigned Identifier Type Code
Registration Date

Assigned Identifier [2]

Assigned Identifier Type Code
Person Identifier

Personal Information

Person Status

Marital Status Code

Address [1]

Address Type Code
Street Address
Municipality Name
Province/Territory Code
Country Code
Postal Code
Census Division and Census Subdivision Code

Person Age

Age
Time Units Code

Death Vital Event Detail

Death Locality Code
Injury Locality Code
Certifier Designation Code
Underlying Cause of Death Code
Autopsy Performed Code
Autopsy Findings Used in Stated Underlying Cause of
Death Code

Further Information Expected on Underlying Cause of
Death Code
Disposition of Body Code
Associated Person [1]
Associated Person Type Code
Person Name [1]
Person Name Type Code
Surname
Given Names Listed
First Given Name Listed
Second Given Name Listed
Third and Additional Given Names Listed
Person Name [2]
Person Name Type Code
Surname
Sex, Gender, Documented Sex
Sex Code
Associated Person [2]
Associated Person Type Code
Person Name [1]
Person Name Type Code
Surname
Given Names Listed
First Given Name Listed
Second Given Name Listed
Third and Additional Given Names Listed
Place of Event [1]
Event Type Code
Province/Territory Code
Country Code
Associated Person [3]
Associated Person Type Code
Person Name [1]
Person Name Type Code
Surname
Given Names Listed
First Given Name Listed
Second Given Name Listed
Third and Additional Given Names Listed
Person Name [2]
Person Name Type Code
Surname

Place of Event [1]
Event Type Code
Province/Territory Code
Country Code

12.5 Sources of Information by Data Exchange Type

Table 3 shows the source of the various types of information by type of data exchange and component.

Table 3: Information Source by Type of Data Exchange and Component

Data Exchange Management Information that is provided by either the authoritative party or the relying party	Personal Information as defined by the initiator of the data exchange and that the relying party has the authority to collect and maintain for the purposes of administering a program or service					
	Identity Information as defined by the initiator of the data exchange				Personal Information that is maintained by the relying party	Personal Information that is maintained by the authoritative party
	Identity Resolution as defined by the authoritative party		Identity Information that is maintained by the relying party	Identity Information that is maintained by the authoritative party		
	Identity Information that is used for Identity Resolution by both the authoritative party and the relying party	Additional Identity Information that may be required for Identity Resolution by the authoritative party				
All Data Exchange Types	Validation/ Retrieval Request (Identity Resolution Component)	Validation/ Retrieval Request (Identity Resolution Component)	Validation/ Retrieval Request (Validation Component)	Validation/ Retrieval Response (Validation Component and Retrieval Component)	Validation/ Retrieval Request (Validation Component)	Validation/ Retrieval Response (Validation Component and Retrieval Component)
	Notification (Identity Resolution Component)			Notification (Notification Component)		Notification (Notification Component)

12.6 Defined Message Payloads

The PCIM message payload data structure permits a great deal of flexibility in regards to the personal information categories that can appear within the identity resolution, validation, retrieval, and notification components of a PCIM data exchange. Although there are some restrictions specified in the PCIM Standards, to a large degree the choice and placement of personal information categories and their associated data elements within the PCIM message payload structure is unfettered.

Nonetheless, for historical and operational reasons (i.e. the NRS), and for convenience there are (or will be) some defined message payloads. Currently, there are nine PCIM data exchanges³⁹ that have been (or will be) defined:

Validation/Retrieval

- Birth Certificate Information Validation/Retrieval Request
- Birth Certificate Information Validation/Retrieval Response

Notification

- Birth Vital Event Notification
- Death Vital Event Notification
- Stillbirth Vital Event Notification
- Change of Legal Name Notification
- Change of Sex Notification
- Change of Legal Presence in Canada Notification
- Removal from Canada Notification

³⁹ See Appendix B for more information.

13 DATA ELEMENT SPECIFICATIONS

Additional Delivery Specifications

Data Element Name:	Additional Delivery Specifications
Object Name:	AdditionalDeliverySpecifications
Description:	Any additional delivery information in an address (e.g. attention line, title, building name, floor)
PCIM Data Type:	pcimAdditionalDeliverySpecificationsType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Address Type Code	
Data Element Name:	Address Type Code
Object Name:	AddressTypeCode
Description:	A code indicating the type of address
PCIM Data Type:	pcimAddressTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Adjudication Requested Code	
Data Element Name:	Adjudication Requested Code
Object Name:	AdjudicationRequestedCode
Description:	A code indicating if the validation/retrieval request should be sent for manual adjudication in cases where identity resolution is not achieved
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request
Information Type:	Data Exchange Management Information

Age	
Data Element Name:	Age
Object Name:	Age
Description:	<p>The age of a person in time units of minutes, hours, days, months, or years as indicated by the <i>Time Units Code</i> data element. If the <i>Time Units Code</i> data element is not present the time units are assumed to be years.</p> <p>Age is preferably expressed as the number of completed time units (e.g. age in years as of last birthday). Ages of 60 minutes or more should be reported in units of hours, days, months, or years. Ages of 24 hours or more should be reported in units of days, months, or years. Ages of 28-31 days or more should be reported in units of months or years. Ages of 12 months or more should be reported in units of years.</p>
PCIM Data Type:	pcimAgeQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON AGE

Assigned Identifier Type Code

Data Element Name:	Assigned Identifier Type Code
Object Name:	AssignedIdentifierTypeCode
Description:	A code indicating the type of assigned identifier
PCIM Data Type:	pcimAssignedIdentifierTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Associated Person Type Code

Data Element Name:	Associated Person Type Code
Object Name:	AssociatedPersonTypeCode
Description:	A code indicating the type of associated person
PCIM Data Type:	pcimAssociatedPersonTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSOCIATED PERSON

Attendant Designation Code

Data Element Name:	Attendant Designation Code
Object Name:	AttendantDesignationCode
Description:	A code indicating the designation of the person who was in attendance at the delivery of the child
PCIM Data Type:	pcimAttendantDesignationCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Autopsy Findings Used in Stated Underlying Cause of Death Code

Data Element Name:	Autopsy Findings Used in Stated Underlying Cause of Death Code
Object Name:	AutopsyFindingsUsedInUCDCode
Description:	A code indicating whether the stated Underlying Cause of Death takes into account autopsy findings (a death certificate may have been completed before the results of an autopsy were available)
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL

Autopsy Findings Used in Stated Underlying Cause of Stillbirth Code

Data Element Name:	Autopsy Findings Used in Stated Underlying Cause of Stillbirth Code
Object Name:	AutopsyFindingsUsedInUCSCode
Description:	A code indicating whether the stated Underlying Cause of Stillbirth takes into account autopsy findings (a death certificate may have been completed before the results of an autopsy were available)
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Autopsy Performed Code

Data Element Name:	Autopsy Performed Code
Object Name:	AutopsyPerformedCode
Description:	A code indicating if an autopsy was performed or not
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Birth Locality Code	
Data Element Name:	Birth Locality Code
Object Name:	BirthLocalityCode
Description:	A code indicating the site where the birth occurred
PCIM Data Type:	pcimLocalityCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL

Birth Order Code	
Data Element Name:	Birth Order Code
Object Name:	BirthOrderCode
Description:	A code indicating the birth order of this child (all the children born as part of a birth vital event or a stillbirth vital event are ranked whether liveborn or stillborn)
PCIM Data Type:	pcimBirthOrderCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Birth Weight	
Data Element Name:	Birth Weight
Object Name:	BirthWeight
Description:	<p>A number indicating the weight of a person at birth, in grams</p> <p>Note: To convert pounds and ounces to grams, the following formula should be used:</p> $\text{grams} = [(\text{pounds} \times 16) + \text{ounces}] \times 28.35$
PCIM Data Type:	pcimWeightQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Canadian Citizenship Status Code

Data Element Name:	Canadian Citizenship Status Code
Object Name:	CanadianCitizenshipStatusCode
Description:	A code indicating the Canadian citizenship status of a person
PCIM Data Type:	pcimCanadianCitizenshipStatusCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON STATUS

Case Reference Identifier

Data Element Name:	Case Reference Identifier
Object Name:	CaseReferenceIdentifier
Description:	A unique identifier assigned by the relying party to the case associated with the validation/retrieval request
PCIM Data Type:	pcimEntityAssignedIdentifierType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Information Type:	Data Exchange Management Information

Census Division and Census Subdivision Code

Data Element Name:	Census Division and Census Subdivision Code
Object Name:	CDCSDCode
Description:	A code (Statistics Canada standard) indicating the Census Division (CD) and Census Subdivision (CSD) in Canada
PCIM Data Type:	pcimCDCSDCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Certifier Designation Code

Data Element Name:	Certifier Designation Code
Object Name:	CertifierDesignationCode
Description:	A code indicating the designation of the person who registered the death
PCIM Data Type:	pcimCertifierDesignationCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL

Change of Legal Name Status Code

Data Element Name:	Change of Legal Name Status Code
Object Name:	ChangeOfLegalNameStatusCode
Description:	A code indicating the change of legal name status of a person
PCIM Data Type:	pcimChangeOfLegalNameStatusCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON STATUS

Civic Number	
Data Element Name:	Civic Number
Object Name:	CivicNumber
Description:	The civic number portion of a civic address
PCIM Data Type:	pcimCivicNumberType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Civic Number Suffix	
Data Element Name:	Civic Number Suffix
Object Name:	CivicNumberSuffix
Description:	The civic number suffix portion of a civic address
PCIM Data Type:	pcimCivicNumberSuffixType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Country Code	
Data Element Name:	Country Code
Object Name:	CountryCode
Description:	A code (ISO-3166-1 Numeric-3) indicating a country
PCIM Data Type:	pcimCountryCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Country Name	
Data Element Name:	Country Name
Object Name:	CountryName
Description:	The name of a country
PCIM Data Type:	pcimGeographicalNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Data Exchange Type Code

Data Element Name:	Data Exchange Type Code
Object Name:	DataExchangeTypeCode
Description:	A code indicating the type of data exchange
PCIM Data Type:	pcimDataExchangeTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Information Type:	Data Exchange Management Information

Death Locality Code

Data Element Name:	Death Locality Code
Object Name:	DeathLocalityCode
Description:	A code indicating the site where the death occurred
PCIM Data Type:	pcimLocalityCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL

Death of Foetus Before Labour Code

Data Element Name:	Death of Foetus Before Labour Code
Object Name:	DeathOfFoetusBeforeLabourCode
Description:	A code indicating whether the death of the foetus occurred before the onset of labour
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Death of Foetus Before Operative Procedures Code

Data Element Name:	Death of Foetus Before Operative Procedures Code
Object Name:	DeathOfFoetusBeforeOpProcsCode
Description:	A code indicating whether the death of the foetus occurred before operative procedures were initiated
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Death of Foetus During Labour Code

Data Element Name:	Death of Foetus During Labour Code
Object Name:	DeathOfFoetusDuringLabourCode
Description:	A code indicating whether the death of the foetus occurred during labour
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Death Status Code

Data Element Name:	Death Status Code
Object Name:	DeathStatusCode
Description:	A code indicating the death status of a person
PCIM Data Type:	pcimDeathStatusCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON STATUS

Disposition of Body Code	
Data Element Name:	Disposition of Body Code
Object Name:	DispositionOfBodyCode
Description:	A code indicating the manner in which the body was disposed
PCIM Data Type:	pcimDispositionOfBodyCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Documented Sex Code	
Data Element Name:	Documented Sex Code
Object Name:	DocumentedSexCode
Description:	A code indicating the documented sex of a person (i.e. the sex code that the person wishes to have appear on non-foundational documents)
PCIM Data Type:	pcimDocumentedSexCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	SEX, GENDER, DOCUMENTED SEX

Effective Date	
Data Element Name:	Effective Date
Object Name:	EffectiveDate
Description:	The effective date of an assigned identifier
PCIM Data Type:	pcimRestrictedDateType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Email Address	
Data Element Name:	Email Address
Object Name:	EmailAddress
Description:	The email address of a person
PCIM Data Type:	pcimEmailAddressType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	CONTACT DETAIL

Event Date	
Data Element Name:	Event Date
Object Name:	EventData
Description:	The date on which an event in a person's life occurred. Examples of date of event are: date of birth, date of death, and date of stillbirth.
PCIM Data Type:	pcimRestrictedDateType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	DATE OF EVENT

Event Day	
Data Element Name:	Event Day
Object Name:	EventDay
Description:	The day on which an event in a person's life occurred
PCIM Data Type:	pcimNumericDayType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	DATE OF EVENT

Event Month	
Data Element Name:	Event Month
Object Name:	EventMonth
Description:	The month in which an event in a person's life occurred
PCIM Data Type:	pcimNumericMonthType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	DATE OF EVENT

Event Type Code	
Data Element Name:	Event Type Code
Object Name:	EventTypeCode
Description:	A code indicating the type of event
PCIM Data Type:	pcimEventTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	DATE OF EVENT PLACE OF EVENT

Event Year	
Data Element Name:	Event Year
Object Name:	EventYear
Description:	The year in which an event in a person's life occurred
PCIM Data Type:	pcimRestrictedYearType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	DATE OF EVENT

Expiry Date	
Data Element Name:	Expiry Date
Object Name:	ExpiryDate
Description:	The expiry date of an assigned identifier
PCIM Data Type:	pcimRestrictedDateType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

First Given Name Listed	
Data Element Name:	First Given Name Listed
Object Name:	FirstGivenNameListed
Description:	The first given name of a person (as listed in the application or document)
PCIM Data Type:	pcimPersonNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	PERSON NAME

Full Frontal Face Image	
Data Element Name:	Full Frontal Face Image
Object Name:	FullFrontalFaceImage
Description:	A full frontal face image of a person that conforms to the ISO/IEC 19794-5 standard
PCIM Data Type:	pcimDigitalImageType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	BIOMETRIC IMAGE

Further Information Expected on Underlying Cause of Death Code	
Data Element Name:	Further Information Expected on Underlying Cause of Death Code
Object Name:	FurtherInformationExpectedOnUCDCCode
Description:	A code indicating whether, at the time of completion of the death certificate, it was expected that there would be further information forthcoming on the underlying cause of the death
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL

Further Information Expected on Underlying Cause of Stillbirth Code	
Data Element Name:	Further Information Expected on Underlying Cause of Stillbirth Code
Object Name:	FurtherInformationExpectedOnUCSCode
Description:	A code indicating whether, at the time of completion of the stillbirth certificate, it was expected that there would be further information forthcoming on the underlying cause of the stillbirth
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Gender Code	
Data Element Name:	Gender Code
Object Name:	GenderCode
Description:	A code indicating the gender of a person
PCIM Data Type:	pcimGenderCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	SEX, GENDER, DOCUMENTED SEX

Given Names Listed	
Data Element Name:	Given Names Listed
Object Name:	GivenNamesListed
Description:	The given names of a person (in the order as listed in the application or document)
PCIM Data Type:	pcimPersonNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	PERSON NAME

Identity Resolution Indicator Code	
Data Element Name:	Identity Resolution Indicator Code
Object Name:	IdentityResolutionIndicatorCode
Description:	A code indicating the result of identity resolution
PCIM Data Type:	pcimIdentityResolutionIndicatorCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Component Type:	Identity Resolution Component
Information Type:	Validation/Retrieval Result

Identity Resolution Score	
Data Element Name:	Identity Resolution Score
Object Name:	IdentityResolutionScore
Description:	A value indicating the probability that two identities are equivalent
PCIM Data Type:	pcimScoreType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Component Type:	Identity Resolution Component
Information Type:	Validation/Retrieval Result

Injury Locality Code	
Data Element Name:	Injury Locality Code
Object Name:	InjuryLocalityCode
Description:	A code indicating the site where the accident or poisoning occurred (if the cause of death indicates that an accident or poisoning occurred)
PCIM Data Type:	pcimInjuryLocalityCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL

Issue Date	
Data Element Name:	Issue Date
Object Name:	IssueDate
Description:	The issue date of an assigned identifier
PCIM Data Type:	pcimRestrictedDateType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Labour Induced Code	
Data Element Name:	Labour Induced Code
Object Name:	LabourInducedCode
Description:	A code indicating whether labour was induced
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Language of Correspondence Code

Data Element Name:	Language of Correspondence Code
Object Name:	LanguageOfCorrespondenceCode
Description:	A code indicating the preferred language of correspondence of a person
PCIM Data Type:	pcimLanguageOfCorrespondenceCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	CONTACT DETAIL

Legal Presence in Canada Status Code

Data Element Name:	Legal Presence in Canada Status Code
Object Name:	LegalPresenceInCanadaStatusCode
Description:	A code indicating the legal presence in Canada status of a person
PCIM Data Type:	pcimLegalPresenceInCanadaStatusCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON STATUS

Marital Status Code	
Data Element Name:	Marital Status Code
Object Name:	MaritalStatusCode
Description:	A code indicating the marital status of a person
PCIM Data Type:	pcimMaritalStatusCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON STATUS

Message Payload Creation Date and Time	
Data Element Name:	Message Payload Creation Date and Time
Object Name:	MessagePayloadCreationDateTime
Description:	The date and time (expressed in Zulu Time (i.e. Coordinated Universal Time (UTC))) when the message payload was created
PCIM Data Type:	pcimRestrictedDateTimeZuluType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Information Type:	Data Exchange Management Information

Message Payload Identifier

Data Element Name:	Message Payload Identifier
Object Name:	MessagePayloadIdentifier
Description:	A unique identifier assigned to the message payload by the creator of the message payload
PCIM Data Type:	pcimMessagePayloadIdentifierType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Information Type:	Data Exchange Management Information

Municipality Name	
Data Element Name:	Municipality Name
Object Name:	MunicipalityName
Description:	The name of a city, town, or village
PCIM Data Type:	pcimGeographicalNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Notification Assurance Level Code

Data Element Name:	Notification Assurance Level Code
Object Name:	NotificationAssuranceLevelCode
Description:	A code indicating the assurance level of the notification
PCIM Data Type:	pcimAssuranceLevelCodeType
Occurrence:	
Data Exchange Type:	Notification
Information Type:	Data Exchange Management Information

Number of Liveborn Plus Stillborn in This Vital Event

Data Element Name:	Number of Liveborn Plus Stillborn in This Vital Event
Object Name:	LivebornPlusStillbornInThisVitalEvent
Description:	The total number of liveborn plus stillborn children in this birth vital event or stillbirth vital event
PCIM Data Type:	pcimEventTotalBornQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Number of Stillborn in This Vital Event

Data Element Name:	Number of Stillborn in This Vital Event
Object Name:	StillbornInThisVitalEvent
Description:	<p>The number of stillborn children in this birth vital event or stillbirth vital event</p> <p>If this is a birth vital event:</p> <p style="padding-left: 40px;">If it was a single birth, then the child must have been liveborn for this to be reported as a birth vital event (in which case, Number of Stillborn in This Vital Event = 0).</p> <p style="padding-left: 40px;">If it was a multiple birth, then at least one child must have been liveborn for this to be reported as a birth vital event.</p> <p>If this is a stillbirth vital event:</p> <p style="padding-left: 40px;">If it was a single birth, then the child must have been stillborn for this to be reported as a stillbirth vital event (in which case, Number of Stillborn in This Vital Event = 1).</p> <p style="padding-left: 40px;">If it was a multiple birth, then at least one child must have been stillborn for this to be reported as a stillbirth vital event</p>
PCIM Data Type:	pcimEventStillbornQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Parents Married to Each Other Code

Data Element Name:	Parents Married to Each Other Code
Object Name:	ParentsMarriedToEachOtherCode
Description:	A code indicating whether the father and mother of the person were married to each other at the time the birth or stillbirth occurred
PCIM Data Type:	pcimYesNoCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Person Identifier	
Data Element Name:	Person Identifier
Object Name:	PersonIdentifier
Description:	A unique identifier assigned to a person (or assigned to a document entrusted to a person) by an authoritative party
PCIM Data Type:	pcimEntityAssignedIdentifierType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Person Identifier Status Code	
Data Element Name:	Person Identifier Status Code
Object Name:	PersonIdentifierStatusCode
Description:	A code indicating the status of an assigned identifier
PCIM Data Type:	pcimPersonIdentifierStatusCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Person Identifier Status Reason Code

Data Element Name:	Person Identifier Status Reason Code
Object Name:	PersonIdentifierStatusReasonCode
Description:	A code indicating the reason for the status of an assigned identifier
PCIM Data Type:	pcimPersonIdentifierStatusReasonCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Person Name Type Code	
Data Element Name:	Person Name Type Code
Object Name:	PersonNameTypeCode
Description:	A code indicating the type of person name
PCIM Data Type:	pcimPersonNameTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	PERSON NAME

Postal Box	
Data Element Name:	Postal Box
Object Name:	PostalBox
Description:	The postal box information in an address
PCIM Data Type:	pcimPostalBoxType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Postal Code	
Data Element Name:	Postal Code
Object Name:	PostalCode
Description:	The postal code information in an address
PCIM Data Type:	pcimPostalCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Postal Station	
Data Element Name:	Postal Station
Object Name:	PostalStation
Description:	The postal station information in an address
PCIM Data Type:	pcimPostalStationType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Pregnancy Duration	
Data Element Name:	Pregnancy Duration
Object Name:	PregnancyDuration
Description:	The gestation period of the pregnancy, in completed number of weeks
PCIM Data Type:	pcimPregnancyDurationQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Province/Territory Code	
Data Element Name:	Province/Territory Code
Object Name:	ProvinceTerritoryCode
Description:	A code (Statistics Canada standard) indicating a province or territory in Canada
PCIM Data Type:	pcimProvinceTerritoryCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Province/Territory/State Abbreviation Code

Data Element Name:	Province/Territory/State Abbreviation Code
Object Name:	ProvinceTerritoryStateAbbrevCode
Description:	A code (Canada Post and United States Postal Service standard) indicating a province, territory, or state in Canada or the USA
PCIM Data Type:	pcimProvinceTerritoryStateAbbrevCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Province/Territory/State Name	
Data Element Name:	Province/Territory/State Name
Object Name:	ProvinceTerritoryStateName
Description:	The name of a province, territory, or state in Canada or the USA
PCIM Data Type:	pcimGeographicalNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ADDRESS PLACE OF EVENT

Registration Date	
Data Element Name:	Registration Date
Object Name:	RegistrationDate
Description:	The date on which the vital event was registered by the registrar
PCIM Data Type:	pcimRestrictedDateType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	ASSIGNED IDENTIFIER

Request Priority Code	
Data Element Name:	Request Priority Code
Object Name:	RequestPriorityCode
Description:	A code indicating the priority of the validation/retrieval request
PCIM Data Type:	pcimRequestPriorityCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request
Information Type:	Data Exchange Management Information

Requested Retrieval Assurance Level Code

Data Element Name:	Requested Retrieval Assurance Level Code
Object Name:	RequestedRetrievalAssuranceLevelCode
Description:	A code indicating the requested assurance level of the retrieval component of the validation/retrieval response
PCIM Data Type:	pcimAssuranceLevelCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request
Information Type:	Data Exchange Management Information

Requested Validation Assurance Level Code

Data Element Name:	RequestedValidationAssuranceLevelCode
Object Name:	RequestedValidationAssuranceLevelCode
Description:	A code indicating the requested assurance level of the validation component of the validation/retrieval response
PCIM Data Type:	pcimAssuranceLevelCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request
Information Type:	Data Exchange Management Information

Requested Validation Disclosure Level Code

Data Element Name:	Requested Validation Disclosure Level Code
Object Name:	RequestedValidationDisclosureLevelCode
Description:	A code indicating the requested disclosure level of the validation component of the validation/retrieval response
PCIM Data Type:	pcimValidationDisclosureLevelCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request
Information Type:	Data Exchange Management Information

Response Retrieval Assurance Level Code

Data Element Name:	Response Retrieval Assurance Level Code
Object Name:	ResponseRetrievalAssuranceLevelCode
Description:	A code indicating the actual assurance level of the retrieval component of the validation/retrieval response
PCIM Data Type:	pcimAssuranceLevelCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Information Type:	Data Exchange Management Information

Response Type Code	
Data Element Name:	Response Type Code
Object Name:	ResponseTypeCode
Description:	A code indicating the type of validation/retrieval response
PCIM Data Type:	pcimResponseTypeCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Information Type:	Data Exchange Management Information

Response Validation Assurance Level Code	
Data Element Name:	Response Validation Assurance Level Code
Object Name:	ResponseValidationAssuranceLevelCode
Description:	A code indicating the actual assurance level of the validation component of the validation/retrieval response
PCIM Data Type:	pcimAssuranceLevelCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Information Type:	Data Exchange Management Information

Response Validation Disclosure Level Code

Data Element Name:	Response Validation Disclosure Level Code
Object Name:	ResponseValidationDisclosureLevelCode
Description:	A code indicating the actual disclosure level of the validation component of the validation/retrieval response
PCIM Data Type:	pcimValidationDisclosureLevelCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Information Type:	Data Exchange Management Information

Retrieval Indicator Code

Data Element Name:	Retrieval Indicator Code
Object Name:	RetrievalIndicatorCode
Description:	A code indicating the result of the retrieval of a data element
PCIM Data Type:	pcimRetrievalIndicatorCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Component Type:	Retrieval Component
Information Type:	Validation/Retrieval Result

Rural Route	
Data Element Name:	Rural Route
Object Name:	RuralRoute
Description:	The rural route information in an address
PCIM Data Type:	pcimRuralRouteType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Second Given Name Listed	
Data Element Name:	Second Given Name Listed
Object Name:	SecondGivenNameListed
Description:	The second given name of a person (as listed in the application or document)
PCIM Data Type:	pcimPersonNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	PERSON NAME

Sex Code	
Data Element Name:	Sex Code
Object Name:	SexCode
Description:	A code indicating the sex of a person
PCIM Data Type:	pcimSexCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	SEX, GENDER, DOCUMENTED SEX

Source Federation Member Code

Data Element Name:	Source Federation Member Code
Object Name:	SourceFederationMemberCode
Description:	A code indicating the PCIM federation member that sent the message
PCIM Data Type:	pcimFederationMemberCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Information Type:	Data Exchange Management Information

Stillbirth Locality Code

Data Element Name:	Stillbirth Locality Code
Object Name:	StillbirthLocalityCode
Description:	A code indicating the site where the stillbirth occurred
PCIM Data Type:	pcimLocalityCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Street Address	
Data Element Name:	Street Address
Object Name:	StreetAddress
Description:	The complete civic address (which is comprised of some or all of the following: unit specification, civic number, civic number suffix, street name, street type specification, street direction)
PCIM Data Type:	pcimStreetAddressType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Street Address Line1	
Data Element Name:	Street Address Line1
Object Name:	StreetAddressLine1
Description:	The complete civic address (which is comprised of some or all of the following: unit specification, civic number, civic number suffix, street name, street type specification, street direction)
PCIM Data Type:	pcimStreetAddressLineType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Street Address Line2	
Data Element Name:	Street Address Line2
Object Name:	StreetAddressLine2
Description:	Any additional delivery information in an address (e.g. attention line, title, building name, floor)
PCIM Data Type:	pcimStreetAddressLineType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Street Direction	
Data Element Name:	Street Direction
Object Name:	StreetDirection
Description:	The street direction portion of a civic address
PCIM Data Type:	pcimStreetDirectionType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Street Name	
Data Element Name:	Street Name
Object Name:	StreetName
Description:	The street name portion of a civic address
PCIM Data Type:	pcimStreetNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Street Type Specification	
Data Element Name:	Street Type Specification
Object Name:	StreetTypeSpecification
Description:	The street type specification portion of a civic address
PCIM Data Type:	pcimStreetTypeSpecificationType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Surname	
Data Element Name:	Surname
Object Name:	Surname
Description:	The surname (i.e. the last name) of a person
PCIM Data Type:	pcimPersonNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	PERSON NAME

Target Federation Member Code

Data Element Name:	Target Federation Member Code
Object Name:	TargetFederationMemberCode
Description:	A code indicating the PCIM federation member for whom the message was intended
PCIM Data Type:	pcimFederationMemberCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Information Type:	Data Exchange Management Information

Telephone Number (Primary)

Data Element Name:	Telephone Number (Primary)
Object Name:	TelephoneNumberPrimary
Description:	The primary contact telephone number of a person
PCIM Data Type:	pcimTelephoneNumberType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	CONTACT DETAIL

Telephone Number (Secondary)

Data Element Name:	Telephone Number (Secondary)
Object Name:	PhoneNumberSecondary
Description:	The secondary contact telephone number of a person
PCIM Data Type:	pcimPhoneNumberType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	CONTACT DETAIL

Third and Additional Given Names Listed

Data Element Name:	Third and Additional Given Names Listed
Object Name:	ThirdAddGivenNamesListed
Description:	The third and any additional given names of a person (as listed in the application or document)
PCIM Data Type:	pcimPersonNameType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Identity Resolution Component Validation Component Retrieval Component Notification Component
Information Type:	Identity Information Personal Information
Personal Information Category:	PERSON NAME

Time Units Code	
Data Element Name:	Time Units Code
Object Name:	TimeUnitsCode
Description:	A code indicating the unit of time measurement (minutes, hours, days, months, or years)
PCIM Data Type:	pcimTimeUnitsCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	PERSON AGE

Total Children Liveborn by This Mother Including This Vital Event	
Data Element Name:	Total Children Liveborn By This Mother Including This Vital Event
Object Name:	TotalLivebornByThisMother
Description:	The total number of children ever liveborn to this mother, previous to and including this birth vital event or stillbirth vital event
PCIM Data Type:	pcimMotherTotalBornQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Total Children Stillborn by This Mother Including This Vital Event	
Data Element Name:	Total Children Stillborn By This Mother Including This Vital Event
Object Name:	TotalStillbornByThisMother
Description:	The total number of children ever stillborn to this mother, previous to and including this birth vital event or stillbirth vital event
PCIM Data Type:	pcimMotherTotalBornQuantityType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	BIRTH VITAL EVENT DETAIL STILLBIRTH VITAL EVENT DETAIL

Underlying Cause of Death Code	
Data Element Name:	Underlying Cause of Death Code
Object Name:	UnderlyingCauseOfDeathCode
Description:	A code indicating the disease or injury which initiated the sequence of morbid events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury
PCIM Data Type:	pcimUnderlyingCauseOfDeathCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	DEATH VITAL EVENT DETAIL

Underlying Cause of Stillbirth Code

Data Element Name:	Underlying Cause of Stillbirth Code
Object Name:	UnderlyingCauseOfStillbirthCode
Description:	A code indicating the foetal or maternal disease or condition that initiated the sequence of morbid events leading directly to the death of the foetus
PCIM Data Type:	pcimUnderlyingCauseOfDeathCodeType
Occurrence:	
Data Exchange Type:	Notification
Component Type:	Notification Component
Information Type:	Personal Information
Personal Information Category:	STILLBIRTH VITAL EVENT DETAIL

Unit Specification	
Data Element Name:	Unit Specification
Object Name:	UnitSpecification
Description:	A number or other specification of an apartment, suite, or other unit information in a civic address
PCIM Data Type:	pcimUnitSpecificationType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Request Validation/Retrieval Response Notification
Component Type:	Validation Component Retrieval Component Notification Component
Information Type:	Personal Information
Personal Information Category:	ADDRESS

Validation Indicator Code	
Data Element Name:	Validation Indicator Code
Object Name:	ValidationIndicatorCode
Description:	A code indicating the result of the validation of a data element
PCIM Data Type:	pcimValidationIndicatorCodeType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Component Type:	Validation Component
Information Type:	Validation/Retrieval Result

Validation Score	
Data Element Name:	Validation Score
Object Name:	ValidationScore
Description:	A value indicating the probability that the values of two data elements are equivalent
PCIM Data Type:	pcimScoreType
Occurrence:	
Data Exchange Type:	Validation/Retrieval Response
Component Type:	Validation Component
Information Type:	Validation/Retrieval Result

Vital Event Notification Status Code	
Data Element Name:	Vital Event Notification Status Code
Object Name:	VitalEventNotificationStatusCode
Description:	<p>A code indicating whether the vital event notification is a new vital event registration, an amendment to (i.e. a replacement of) an existing vital event registration, or the cancellation of a vital event registration number</p> <p>Note: Although the precise meaning of <i>amendment</i> differs from one provincial/territorial vital statistics agency to another, generally speaking its definition is confined to only those changes that result in the issuance of a new registration document.</p>
PCIM Data Type:	pcimVitalEventNotificationStatusCodeType
Occurrence:	
Data Exchange Type:	Notification
Information Type:	Data Exchange Management Information

Vital Event Year	
Data Element Name:	Vital Event Year
Object Name:	VitalEventYear
Description:	The year in which the vital event occurred
PCIM Data Type:	pcimRestrictedYearType
Occurrence:	
Data Exchange Type:	Notification
Information Type:	Data Exchange Management Information

14 DATA TYPE SPECIFICATIONS

In the previous section, the data elements are specified in terms of a *PCIM data type*. Each PCIM data type has four properties: a *base data type*, a minimum length (in bytes), a maximum length (in bytes), and a set of valid values. In this section, the PCIM data types are specified first and then are followed by the specifications of the base data types.

14.1 PCIM Data Types

pcimAdditionalDeliverySpecificationsType	
PCIM Data Type:	pcimAdditionalDeliverySpecificationsType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	150
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimAddressTypeCodeType													
PCIM Data Type:	pcimAddressTypeCodeType												
Base Data Type:	pcimCharacterStringType												
Minimum Length:	4												
Maximum Length:	4												
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>MADD</td> <td>Mailing Address</td> </tr> <tr> <td>PRSD</td> <td>Primary Residence, Usual Residence</td> </tr> <tr> <td>PPRS</td> <td>Previous Primary Residence</td> </tr> <tr> <td>SRSD</td> <td>Secondary Residence</td> </tr> <tr> <td></td> <td>...etc. (to be confirmed)</td> </tr> </tbody> </table>	Code	Description	MADD	Mailing Address	PRSD	Primary Residence, Usual Residence	PPRS	Previous Primary Residence	SRSD	Secondary Residence		...etc. (to be confirmed)
	Code	Description											
	MADD	Mailing Address											
	PRSD	Primary Residence, Usual Residence											
	PPRS	Previous Primary Residence											
	SRSD	Secondary Residence											
	...etc. (to be confirmed)												

pcimAgeQuantityType	
PCIM Data Type:	pcimAgeQuantityType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	3
Valid Values:	1 to 150

pcimAssignedIdentifierTypeCodeType		
PCIM Data Type:	pcimAssignedIdentifierTypeCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	5	
Maximum Length:	5	
Valid Values:	Code	Description
	ABBRN	Government of Alberta Birth Registration Number
	BCDLN	Government of British Columbia Driver's Licence Number
	CACCN	Government of Canada Citizenship Certificate Number
	CAPPN	Government of Canada Passport Number
	CASIN	Government of Canada Social Insurance Number
	ONBCN	Government of Ontario Birth Certificate Number
	NBHIN	Government of New Brunswick Health Insurance Number
		...etc. (to be confirmed)

pcimAssociatedPersonTypeCodeType		
PCIM Data Type:	pcimAssociatedPersonTypeCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	5	
Maximum Length:	5	
Valid Values:	Code	Description
	CHILD	Child
	FATHR	Father
	GUARD	Guardian
	MOTHR	Mother
	PCARE	Primary Caregiver
	SPOSE	Spouse
		...etc. (to be confirmed)

pcimAssuranceLevelCodeType		
PCIM Data Type:	pcimAssuranceLevelCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Little or no (low) degree of confidence required
	2	Some (substantial) degree of confidence required
	3	High (high) degree of confidence required
	4	Very high degree of confidence required

pcimAttendantDesignationCodeType		
PCIM Data Type:	pcimAttendantDesignationCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Medical doctor
	2	Registered nurse
	3	Midwife
	4	Other specified value

pcimBirthOrderCodeType		
PCIM Data Type:	pcimBirthOrderCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	First born
	2	Second born
	3	Third born
	4	Fourth born
	5	Fifth born
	6	Sixth born
	7	Seventh born
	8	Eighth born
	9	Ninth born

pcimCanadianCitizenshipStatusCodeType		
PCIM Data Type:	pcimCanadianCitizenshipStatusCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Temporary resident
	2	Permanent resident
	3	Citizen
	4	Citizenship revoked
	5	Removed from Canada
	6	Citizenship renounced
	(to be confirmed)	

pcimCDCSDCodeType		
PCIM Data Type:	pcimCDCSDCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	5	
Maximum Length:	5	
Valid Values:	Code	Description
	00000	
	99999	
		Note: the complete codeset and descriptions are available from Statistics Canada, Health Statistics Division, Vital Statistics Section

pcimCertifierDesignationCodeType													
PCIM Data Type:	pcimCertifierDesignationCodeType												
Base Data Type:	pcimCharacterStringType												
Minimum Length:	1												
Maximum Length:	1												
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Medical doctor</td> </tr> <tr> <td>2</td> <td>Registered nurse</td> </tr> <tr> <td>3</td> <td>Midwife</td> </tr> <tr> <td>4</td> <td>Coroner/medical examiner</td> </tr> <tr> <td>5</td> <td>Other specified value</td> </tr> </tbody> </table>	Code	Description	1	Medical doctor	2	Registered nurse	3	Midwife	4	Coroner/medical examiner	5	Other specified value
	Code	Description											
	1	Medical doctor											
	2	Registered nurse											
	3	Midwife											
	4	Coroner/medical examiner											
5	Other specified value												

pcimChangeOfLegalNameStatusCodeType											
PCIM Data Type:	pcimChangeOfLegalNameStatusCodeType										
Base Data Type:	pcimCharacterStringType										
Minimum Length:	1										
Maximum Length:	1										
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Never changed</td> </tr> <tr> <td>2</td> <td>Pending</td> </tr> <tr> <td>3</td> <td>Completed</td> </tr> <tr> <td></td> <td>(to be confirmed)</td> </tr> </tbody> </table>	Code	Description	1	Never changed	2	Pending	3	Completed		(to be confirmed)
	Code	Description									
	1	Never changed									
	2	Pending									
	3	Completed									
	(to be confirmed)										

pcimCivicNumberType	
PCIM Data Type:	pcimCivicNumberType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	10
Valid Values:	1 to 9999999999

pcimCivicNumberSuffixType	
PCIM Data Type:	pcimCivicNumberType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	4
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimCountryCodeType		
PCIM Data Type:	pcimCountryCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	3	
Maximum Length:	3	
Valid Values:	Code	Description
	004	Afghanistan
	008	Albania
	010	Antarctica
	012	Algeria
	016	American Samoa
	020	Andorra
	024	Angola
	028	Antigua and Barbuda
	031	Azerbaijan

	032	Argentina
	036	Australia
	040	Austria
	044	Bahamas
	048	Bahrain
	050	Bangladesh
	051	Armenia
	052	Barbados
	056	Belgium
	060	Bermuda
	064	Bhutan
	068	Bolivia, Plurinational State of
	070	Bosnia and Herzegovina
	072	Botswana
	074	Bouvet Island
	076	Brazil
	084	Belize
	086	British Indian Ocean Territory
	090	Solomon Islands
	092	Virgin Islands, British
	096	Brunei Darussalam
	100	Bulgaria
	104	Myanmar
	108	Burundi
	112	Belarus
	116	Cambodia
	120	Cameroon
	124	Canada
	132	Cabo Verde

	136	Cayman Islands
	140	Central African Republic
	144	Sri Lanka
	148	Chad
	152	Chile
	156	China
	158	Taiwan, Province of China
	162	Christmas Island
	166	Cocos (Keeling) Islands
	170	Colombia
	174	Comoros
	175	Mayotte
	178	Congo
	180	Congo, the Democratic Republic of the
	184	Cook Islands
	188	Costa Rica
	191	Croatia
	192	Cuba
	196	Cyprus
	203	Czech Republic
	204	Benin
	208	Denmark
	212	Dominica
	214	Dominican Republic
	218	Ecuador
	222	El Salvador
	226	Equatorial Guinea
	231	Ethiopia
	232	Eritrea

	233	Estonia
	234	Faroe Islands
	238	Falkland Islands (Malvinas)
	239	South Georgia and the South Sandwich Islands
	242	Fiji
	246	Finland
	248	Aland Islands
	250	France
	254	French Guiana
	258	French Polynesia
	260	French Southern Territories
	262	Djibouti
	266	Gabon
	268	Georgia
	270	Gambia
	275	Palestine, State of
	276	Germany
	288	Ghana
	292	Gibraltar
	296	Kiribati
	300	Greece
	304	Greenland
	308	Grenada
	312	Guadeloupe
	316	Guam
	320	Guatemala
	324	Guinea
	328	Guyana
	332	Haiti

	334	Heard Island and McDonald Islands
	336	Holy See (Vatican City State)
	340	Honduras
	344	Hong Kong
	348	Hungary
	352	Iceland
	356	India
	360	Indonesia
	364	Iran, Islamic Republic of
	368	Iraq
	372	Ireland
	376	Israel
	380	Italy
	384	Côte d'Ivoire
	388	Jamaica
	392	Japan
	398	Kazakhstan
	400	Jordan
	404	Kenya
	408	Korea, Democratic People's Republic of
	410	Korea, Republic of
	414	Kuwait
	417	Kyrgyzstan
	418	Lao People's Democratic Republic
	422	Lebanon
	426	Lesotho
	428	Latvia
	430	Liberia
	434	Libya

	438	Liechtenstein
	440	Lithuania
	442	Luxembourg
	446	Macao
	450	Madagascar
	454	Malawi
	458	Malaysia
	462	Maldives
	466	Mali
	470	Malta
	474	Martinique
	478	Mauritania
	480	Mauritius
	484	Mexico
	492	Monaco
	496	Mongolia
	498	Moldova, Republic of
	499	Montenegro
	500	Montserrat
	504	Morocco
	508	Mozambique
	512	Oman
	516	Namibia
	520	Nauru
	524	Nepal
	528	Netherlands
	531	Curaçao
	533	Aruba
	534	Sint Maarten (Dutch part)

	535	Bonaire, Sint Eustatius and Saba
	540	New Caledonia
	548	Vanuatu
	554	New Zealand
	558	Nicaragua
	562	Niger
	566	Nigeria
	570	Niue
	574	Norfolk Island
	578	Norway
	580	Northern Mariana Islands
	581	United States Minor Outlying Islands
	583	Micronesia, Federated States of
	584	Marshall Islands
	585	Palau
	586	Pakistan
	591	Panama
	598	Papua New Guinea
	600	Paraguay
	604	Peru
	608	Philippines
	612	Pitcairn
	616	Poland
	620	Portugal
	624	Guinea-Bissau
	626	Timor-Leste
	630	Puerto Rico
	634	Qatar
	638	Réunion

	642	Romania
	643	Russian Federation
	646	Rwanda
	652	Saint Barthélemy
	654	Saint Helena, Ascension and Tristan da Cunha
	659	Saint Kitts and Nevis
	660	Anguilla
	662	Saint Lucia
	663	Saint Martin (French part)
	666	Saint Pierre and Miquelon
	670	Saint Vincent and the Grenadines
	674	San Marino
	678	Sao Tome and Principe
	682	Saudi Arabia
	686	Senegal
	688	Serbia
	690	Seychelles
	694	Sierra Leone
	702	Singapore
	703	Slovakia
	704	Viet Nam
	705	Slovenia
	706	Somalia
	710	South Africa
	716	Zimbabwe
	724	Spain
	728	South Sudan
	729	Sudan
	732	Western Sahara

	740	Suriname
	744	Svalbard and Jan Mayen
	748	Swaziland
	752	Sweden
	756	Switzerland
	760	Syrian Arab Republic
	762	Tajikistan
	764	Thailand
	768	Togo
	772	Tokelau
	776	Tonga
	780	Trinidad and Tobago
	784	United Arab Emirates
	788	Tunisia
	792	Turkey
	795	Turkmenistan
	796	Turks and Caicos Islands
	798	Tuvalu
	800	Uganda
	804	Ukraine
	807	Macedonia, the former Yugoslav Republic of
	818	Egypt
	826	United Kingdom
	831	Guernsey
	832	Jersey
	833	Isle of Man
	834	Tanzania, United Republic of
	840	United States
	850	Virgin Islands, U.S.

	854	Burkina Faso
	858	Uruguay
	860	Uzbekistan
	862	Venezuela, Bolivarian Republic of
	876	Wallis and Futuna
	882	Samoa
	887	Yemen
	894	Zambia

pcimDataExchangeTypeCodeType																															
PCIM Data Type:	pcimDataExchangeTypeCodeType																														
Base Data Type:	pcimCharacterStringType																														
Minimum Length:	8																														
Maximum Length:	8																														
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>PNTF0001</td> <td>Person: Notification (Canonical)</td> </tr> <tr> <td>PNTF0101</td> <td>Birth Vital Event Notification (Canonical)</td> </tr> <tr> <td>PNTF0102</td> <td>Birth Vital Event Notification (CRA specific)</td> </tr> <tr> <td>PNTF0103</td> <td>Birth Vital Event Notification (SC specific)</td> </tr> <tr> <td>PNTF0104</td> <td>Birth Vital Event Notification (STC specific)</td> </tr> <tr> <td>PNTF0201</td> <td>Death Vital Event Notification (Canonical)</td> </tr> <tr> <td>PNTF0202</td> <td>Death Vital Event Notification (CRA specific)</td> </tr> <tr> <td>PNTF0203</td> <td>Death Vital Event Notification (SC specific)</td> </tr> <tr> <td>PNTF0204</td> <td>Death Vital Event Notification (STC specific)</td> </tr> <tr> <td>PNTF0205</td> <td>Death Vital Event Notification (PTs specific)</td> </tr> <tr> <td>PNTF0301</td> <td>Stillbirth Vital Event Notification (Canonical)</td> </tr> <tr> <td>PNTF0302</td> <td>Stillbirth Vital Event Notification (STC specific)</td> </tr> <tr> <td>PNTF0401</td> <td>Change of Legal Name Notification (Canonical)</td> </tr> <tr> <td>PNTF0501</td> <td>Change of Sex Notification (Canonical)</td> </tr> </tbody> </table>	Code	Description	PNTF0001	Person: Notification (Canonical)	PNTF0101	Birth Vital Event Notification (Canonical)	PNTF0102	Birth Vital Event Notification (CRA specific)	PNTF0103	Birth Vital Event Notification (SC specific)	PNTF0104	Birth Vital Event Notification (STC specific)	PNTF0201	Death Vital Event Notification (Canonical)	PNTF0202	Death Vital Event Notification (CRA specific)	PNTF0203	Death Vital Event Notification (SC specific)	PNTF0204	Death Vital Event Notification (STC specific)	PNTF0205	Death Vital Event Notification (PTs specific)	PNTF0301	Stillbirth Vital Event Notification (Canonical)	PNTF0302	Stillbirth Vital Event Notification (STC specific)	PNTF0401	Change of Legal Name Notification (Canonical)	PNTF0501	Change of Sex Notification (Canonical)
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	PNTF0203	Death Vital Event Notification (SC specific)																													
	PNTF0204	Death Vital Event Notification (STC specific)																													
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	PNTF0401	Change of Legal Name Notification (Canonical)																													
PNTF0501	Change of Sex Notification (Canonical)																														

PNTF0601	Change of Legal Presence in Canada Notification (Canonical)
PNTF0701	Removal from Canada Notification (Canonical)
PREQ0001	Person: Validation/Retrieval Request (Canonical)
PREQ0101	Birth Certificate Information Validation/Retrieval Request (Canonical)
PREQ0102	Birth Certificate Information Validation/Retrieval Request (SC specific)
PREQ0103	Birth Certificate Information Validation/Retrieval Request (IRCC-PPTC specific)
PRSP0001	Person: Validation/Retrieval Response (Canonical)
PRSP0101	Birth Certificate Information Validation/Retrieval Response (Canonical)
PRSP0102	Birth Certificate Information Validation/Retrieval Response (SC specific)
PRSP0103	Birth Certificate Information Validation/Retrieval Response (IRCC-PPTC specific)
	...etc. (to be confirmed)

pcimDeathStatusCodeType																	
PCIM Data Type:	pcimDeathStatusCodeType																
Base Data Type:	pcimCharacterStringType																
Minimum Length:	1																
Maximum Length:	1																
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Not deceased</td> </tr> <tr> <td>2</td> <td>Deceased – the person died in province</td> </tr> <tr> <td>3</td> <td>Deceased – the person died out of province, but within Canada</td> </tr> <tr> <td>4</td> <td>Deceased – the person died outside of Canada</td> </tr> <tr> <td>5</td> <td>Deceased – the place of death is unknown</td> </tr> <tr> <td>6</td> <td>Unknown</td> </tr> <tr> <td></td> <td>(to be confirmed)</td> </tr> </tbody> </table>	Code	Description	1	Not deceased	2	Deceased – the person died in province	3	Deceased – the person died out of province, but within Canada	4	Deceased – the person died outside of Canada	5	Deceased – the place of death is unknown	6	Unknown		(to be confirmed)
	Code	Description															
	1	Not deceased															
	2	Deceased – the person died in province															
	3	Deceased – the person died out of province, but within Canada															
	4	Deceased – the person died outside of Canada															
	5	Deceased – the place of death is unknown															
6	Unknown																
	(to be confirmed)																

pcimDigitalImageType	
PCIM Data Type:	pcimDigitalImageType
Base Data Type:	pcimBinaryStringType
Minimum Length:	10,000 (or Unbounded?)
Maximum Length:	60,000 (or Unbounded?)
Valid Values:	Any digital image in JPEG format (at a maximum compression ratio of 10:1) expressed as a binary string that respects the <i>pcimBinaryStringType</i> base data type specification

pcimDispositionOfBodyCodeType		
PCIM Data Type:	pcimDispositionOfBodyCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Burial
	2	Cremation
	3	Other specified value

pcimDocumentedSexCodeType		
PCIM Data Type:	pcimDocumentedSexCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Male
	2	Female
	3	Other specified value
		(to be confirmed) (codeset = pcimSexCodeType?)

pcimEmailAddressType	
PCIM Data Type:	pcimEmailAddressType
Base Data Type:	pcimCharacterStringType
Minimum Length:	8
Maximum Length:	254
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimEntityAssignedIdentifierType	
PCIM Data Type:	pcimEntityAssignedIdentifierType
Base Data Type:	pcimCharacterStringType
Minimum Length:	6
Maximum Length:	40
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimEventStillbornQuantityType	
PCIM Data Type:	pcimEventStillbornQuantityType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	1
Valid Values:	0 to 9

pcimEventTotalBornQuantityType	
PCIM Data Type:	pcimEventTotalBornQuantityType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	1
Valid Values:	1 to 9

pcimEventTypeCodeType		
PCIM Data Type:	pcimEventTypeCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	5	
Maximum Length:	5	
Valid Values:	Code	Description
	BIRTH	Birth
	DEATH	Death
	STBIR	Stillbirth
		(to be confirmed)

pcimFederationMemberCodeType		
PCIM Data Type:	pcimFederationMemberCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	3	
Maximum Length:	3	
Valid Values:	Code	Description
	005	Passport Canada (PPTC)
	014	Service Canada (SC)
	050	Immigration, Refugees, and Immigration Canada (IRCC)
	054	Statistics Canada (STC)
	085	Canada Border Services Agency (CBSA)
	122	Canada Revenue Agency (CRA)
	127	Public Works and Government Services Canada (PWGSC)
	210	Newfoundland and Labrador Vital Statistics (NLVS)
	211	Prince Edward Island Vital Statistics (PEVS)
	212	Nova Scotia Vital Statistics (NSVS)
	213	New Brunswick Vital Statistics (NBVS)

	224	Quebec Vital Statistics (QCVS)
	235	Ontario Vital Statistics (ONVS)
	246	Manitoba Vital Statistics (MBVS)
	247	Saskatchewan Vital Statistics (SKVS)
	248	Alberta Vital Statistics (ABVS)
	259	British Columbia Vital Statistics (BCVS)
	260	Yukon Vital Statistics (YKVS)
	261	Northwest Territories Vital Statistics (NTVS)
	262	Nunavut Vital Statistics (NUVS)
		...etc. (to be confirmed)

pcimGenderCodeType		
PCIM Data Type:	pcimGenderCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Male
	2	Female
	3	Other specified value
		(to be confirmed) (codeset = pcimSexCodeType?)

pcimGeographicalNameType	
PCIM Data Type:	pcimGeographicalNameType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	100
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimIdentityResolutionIndicatorCodeType		
PCIM Data Type:	pcimIdentityResolutionIndicatorCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	4	
Maximum Length:	4	
Valid Values:	Code	Description
	ACMA	Acceptably matched
	FUMA	Fully matched
	NOMA	Not matched
		(to be confirmed)

pcimInjuryLocalityCodeType		
PCIM Data Type:	pcimInjuryLocalityCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	0	Home
	1	Residential institution
	2	School/other institution/public administrative area
	3	Sports/athletics area
	4	Street/highway
	5	Trade/service area
	6	Industrial/construction area
	7	Farm
	8	Other specified value

pcimLanguageOfCorrespondenceCodeType		
PCIM Data Type:	pcimLanguageOfCorrespondenceCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	English
	2	French

pcimLegalPresenceInCanadaStatusCodeType		
PCIM Data Type:	pcimLegalPresenceInCanadaStatusCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	2	
Maximum Length:	2	
Valid Values:	Code	Description
	01	Citizen
	03	Wanted
	06	Permanent Resident
	08	Protected Person
	09	Not Deemed Protected Person
	10	Convention Refugee
	11	Abandoned Refugee Claim
	12	Withdrawn Refugee Claim
	13	Refugee Claimant
	14	Refused Refugee Claim Eligibility
	16	Foreign National – No Status
	17	Foreign National – In Status
18	Foreign National – Implied Status	
19	Foreign National – No Visa Required	

	20	Foreign National – Authorized
	21	Deceased
	22	Householded
	23	Unknown

pcimLocalityCodeType		
PCIM Data Type:	pcimLocalityCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Hospital
	2	Private home
	3	Other health care facility (not a hospital)
	4	Other specified value

pcimMaritalStatusCodeType		
PCIM Data Type:	pcimMaritalStatusCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Single (never married)
	2	Married
	3	Widowed
	4	Separated
	5	Divorced
	6	Other specified value

pcimMessagePayloadIdentifierType	
PCIM Data Type:	pcimMessagePayloadIdentifierType
Base Data Type:	pcimCharacterStringType
Minimum Length:	20
Maximum Length:	30
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification Note: It is recommended that data providers use a GUID (globally unique identifier) for this data element

pcimMotherTotalBornQuantityType	
PCIM Data Type:	pcimMotherTotalBornQuantityType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	2
Valid Values:	0 to 50

pcimNumericDayType	
PCIM Data Type:	pcimNumericDayType
Base Data Type:	pcimFixedLengthUnsignedIntegerType
Minimum Length:	2
Maximum Length:	2
Valid Values:	01 to 31

pcimNumericMonthType	
PCIM Data Type:	pcimNumericMonthType
Base Data Type:	pcimFixedLengthUnsignedIntegerType
Minimum Length:	2
Maximum Length:	2
Valid Values:	01 to 12

pcimPersonIdentifierStatusCodeType		
PCIM Data Type:	pcimPersonIdentifierStatusCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Valid
	2	Invalid
	3	Indeterminate
		(to be confirmed)

pcimPersonIdentifierStatusReasonCodeType		
PCIM Data Type:	pcimPersonIdentifierStatusReasonCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	3	
Maximum Length:	3	
Valid Values:	Code	Description
	AC1	Account status: inactive
	AC2	Account status: cancelled
	AC3	Account Status: fraud detected
	DC1	Document status: reported lost
	DC2	Document status: reported stolen

	DC3	Document status: cancelled
	DC4	Document status: fraud detected
	DC5	Document status: document issued prior to electronic document capture and storage
	VE1	Vital event status: issues detected
	VE2	Vital event status: vital event occurred prior to electronic vital event capture and storage
		...etc. (to be confirmed)

pcimPersonNameType	
PCIM Data Type:	pcimPersonNameType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	100
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimPersonNameTypeCodeType		
PCIM Data Type:	pcimPersonNameTypeCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	4	
Maximum Length:	4	
Valid Values:	Code	Description
	FOUND	Foundation Name
	PRIME	Primary Name
	PRIMP	Previous Primary Name
	PPTFM	Primary Name Prior To First Marriage
		(to be confirmed)

pcimPostalBoxType	
PCIM Data Type:	pcimPostalBoxType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	20
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimPostalCodeType	
PCIM Data Type:	pcimPostalCodeType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	20
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimPostalStationType	
PCIM Data Type:	pcimPostalStationType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	20
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimPregnancyDurationQuantityType	
PCIM Data Type:	pcimPregnancyDurationQuantityType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	2
Valid Values:	0 to 50

pcimProvinceTerritoryCodeType		
PCIM Data Type:	pcimProvinceTerritoryCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	2	
Maximum Length:	2	
Valid Values:	Code	Description
	10	Newfoundland and Labrador
	11	Prince Edward Island
	12	Nova Scotia
	13	New Brunswick
	24	Quebec
	35	Ontario
	46	Manitoba
	47	Saskatchewan
	48	Alberta
	59	British Columbia
	60	Yukon
	61	Northwest Territories
	62	Nunavut
99	Outside Canada	

pcimProvinceTerritoryStateAbbrevCodeType																																																	
PCIM Data Type:	pcimProvinceTerritoryStateAbbrevCodeType																																																
Base Data Type:	pcimCharacterStringType																																																
Minimum Length:	2																																																
Maximum Length:	2																																																
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	MA	Massachusetts
	MB	Manitoba
	MD	Maryland
	ME	Maine
	MI	Michigan
	MN	Minnesota
	MO	Missouri
	MP	Northern Mariana Islands
	MS	Mississippi
	MT	Montana
	NB	New Brunswick
	NC	North Carolina
	ND	North Dakota
	NE	Nebraska
	NH	New Hampshire
	NJ	New Jersey
	NL	Newfoundland and Labrador
	NM	New Mexico
	NS	Nova Scotia
	NT	Northwest Territories
	NU	Nunavut
	NV	Nevada
	NY	New York
	OH	Ohio
	OK	Oklahoma
	ON	Ontario
	OR	Oregon
	PA	Pennsylvania
	PE	Prince Edward Island

	PR	Puerto Rico
	QC	Quebec
	RI	Rhode Island
	SC	South Carolina
	SD	South Dakota
	SK	Saskatchewan
	TN	Tennessee
	TX	Texas
	UT	Utah
	VA	Virginia
	VI	Virgin Islands
	VT	Vermont
	WA	Washington
	WI	Wisconsin
	WV	West Virginia
	WY	Wyoming
	YT	Yukon

pcimRequestPriorityCodeType		
PCIM Data Type:	pcimRequestPriorityCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Normal
	2	High

pcimResponseTypeCodeType							
PCIM Data Type:	pcimResponseTypeCodeType						
Base Data Type:	pcimCharacterStringType						
Minimum Length:	1						
Maximum Length:	1						
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Interim response</td> </tr> <tr> <td>2</td> <td>Final response</td> </tr> </tbody> </table>	Code	Description	1	Interim response	2	Final response
	Code	Description					
	1	Interim response					
2	Final response						

pcimRestrictedDateType	
PCIM Data Type:	pcimRestrictedDateType
Base Data Type:	pcimDateType
Minimum Length:	10
Maximum Length:	10
Valid Values:	1800-01-01 to 2199-12-31

pcimRestrictedDateTimeZuluType	
PCIM Data Type:	pcimRestrictedDateTimeZuluType
Base Data Type:	pcimDateTimeZuluType
Minimum Length:	20
Maximum Length:	20
Valid Values:	1800-01-01T00:00:00Z to 2199-12-31T23:59:59Z

pcimRestrictedYearType	
PCIM Data Type:	pcimRestrictedYearType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	4
Maximum Length:	4
Valid Values:	1800 to 2199

pcimRetrievalIndicatorCodeType		
PCIM Data Type:	pcimRetrievalIndicatorCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	4	
Maximum Length:	4	
Valid Values:	Code	Description
	DISC	Disclosed
	NOAV	Not available
	NODI	No disclosure
		(to be confirmed)

pcimRuralRouteType	
PCIM Data Type:	pcimRuralRouteType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	20
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimScoreType	
PCIM Data Type:	pcimScoreType
Base Data Type:	pcimUnsignedRationalType
Minimum Length:	6
Maximum Length:	6
Valid Values:	0.0000 to 1.0000

pcimSexCodeType											
PCIM Data Type:	pcimSexCodeType										
Base Data Type:	pcimCharacterStringType										
Minimum Length:	1										
Maximum Length:	1										
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Male</td> </tr> <tr> <td>2</td> <td>Female</td> </tr> <tr> <td>3</td> <td>Other specified value</td> </tr> <tr> <td></td> <td>(to be confirmed)</td> </tr> </tbody> </table>	Code	Description	1	Male	2	Female	3	Other specified value		(to be confirmed)
	Code	Description									
	1	Male									
	2	Female									
3	Other specified value										
	(to be confirmed)										

pcimStreetAddressType	
PCIM Data Type:	pcimStreetAddressType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	150
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimStreetAddressLineType	
PCIM Data Type:	pcimStreetAddressLineType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	150
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimStreetDirectionType																			
PCIM Data Type:	pcimStreetDirectionType																		
Base Data Type:	pcimCharacterStringType																		
Minimum Length:	1																		
Maximum Length:	2																		
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>East</td> </tr> <tr> <td>N</td> <td>North</td> </tr> <tr> <td>NE</td> <td>Northeast</td> </tr> <tr> <td>NW</td> <td>Northwest</td> </tr> <tr> <td>S</td> <td>South</td> </tr> <tr> <td>SE</td> <td>Southeast</td> </tr> <tr> <td>SW</td> <td>Southwest</td> </tr> <tr> <td>W</td> <td>West</td> </tr> </tbody> </table>	Code	Description	E	East	N	North	NE	Northeast	NW	Northwest	S	South	SE	Southeast	SW	Southwest	W	West
	Code	Description																	
	E	East																	
	N	North																	
	NE	Northeast																	
	NW	Northwest																	
	S	South																	
	SE	Southeast																	
	SW	Southwest																	
W	West																		

pcimStreetNameType	
PCIM Data Type:	pcimStreetNameType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	100
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimStreetTypeSpecificationType	
PCIM Data Type:	pcimStreetTypeSpecificationType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	20
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimTelephoneNumberType	
PCIM Data Type:	pcimTelephoneNumberType
Base Data Type:	pcimCharacterStringType
Minimum Length:	10
Maximum Length:	25
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimTimeUnitsCodeType		
PCIM Data Type:	pcimTimeUnitsCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Minutes
	2	Hours
	3	Days
	4	Months
	5	Years

pcimUnderlyingCauseOfDeathCodeType													
PCIM Data Type:	pcimUnderlyingCauseOfDeathCodeType												
Base Data Type:	pcimCharacterStringType												
Minimum Length:	3												
Maximum Length:	4												
Valid Values:	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>A00</td> <td></td> </tr> <tr> <td>Z99</td> <td></td> </tr> <tr> <td>A000</td> <td></td> </tr> <tr> <td>Z999</td> <td></td> </tr> <tr> <td></td> <td>Note: the complete codeset and descriptions are available from Statistics Canada, Health Statistics Division, Vital Statistics Section; or visit: http://apps.who.int/classifications/icd10/browse/2015/en http://apps.who.int/classifications/icd10/browse/2008/fr#/</td> </tr> </tbody> </table>	Code	Description	A00		Z99		A000		Z999			Note: the complete codeset and descriptions are available from Statistics Canada, Health Statistics Division, Vital Statistics Section; or visit: http://apps.who.int/classifications/icd10/browse/2015/en http://apps.who.int/classifications/icd10/browse/2008/fr#/
	Code	Description											
	A00												
	Z99												
	A000												
Z999													
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pcimUnitSpecificationType	
PCIM Data Type:	pcimUnitSpecificationType
Base Data Type:	pcimCharacterStringType
Minimum Length:	1
Maximum Length:	10
Valid Values:	Any character string that respects the <i>pcimCharacterStringType</i> base data type specification

pcimValidationDisclosureLevelCodeType		
PCIM Data Type:	pcimValidationDisclosureLevelCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Validation indicator code
	2	Validation indicator code and validation score
	3	Validation indicator code, validation score, and value on record
		(to be confirmed)

pcimValidationIndicatorCodeType		
PCIM Data Type:	pcimValidationIndicatorCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	4	
Maximum Length:	4	
Valid Values:	Code	Description
	DIFF	Different
	NOAV	Not available
	NODI	No disclosure
	SAME	Same
	SIML	Similar
		(to be confirmed)

pcimVitalEventNotificationStatusCodeType		
PCIM Data Type:	pcimVitalEventNotificationStatusCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	New registration
	2	Amendment
	3	Cancellation

pcimWeightQuantityType	
PCIM Data Type:	pcimWeightQuantityType
Base Data Type:	pcimUnsignedIntegerType
Minimum Length:	1
Maximum Length:	5
Valid Values:	1 to 11000

pcimYesNoCodeType		
PCIM Data Type:	pcimYesNoCodeType	
Base Data Type:	pcimCharacterStringType	
Minimum Length:	1	
Maximum Length:	1	
Valid Values:	Code	Description
	1	Yes
	2	No

14.2 Base Data Types

pcimBinaryStringType	
Base Data Type:	pcimBinaryStringType
Format:	B[...L _s (string length limit)] Where B is an octet (i.e. 8 bits) of binary data
Valid Values:	Valid values are dependent on the binary-to-text encoding scheme that is used (e.g. MIME Base64, UTF-7 Base64). The encoding scheme that will be used needs to be determined.

pcimCharacterStringType	
Base Data Type:	pcimCharacterStringType
Format:	C[...L _s (string length limit)] Where C is a valid character value
Valid Character Values:	Valid character values are restricted to the following character set: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n o p q r s t u v w x y z À Á Â Ã Ä Ç È É Ê Ë Ì Í Î Ï Ñ Ò Ó Ô Õ Ö Ù Ú Û Ü Ý Þ à á â ã ä å ç è é ê ë ì í î ï ñ ò ó ô õ ö ù ú û ü ý ÿ 0 1 2 3 4 5 6 7 8 9 . , - - ' ' " / @ # & ? * () { } []
Note:	A “blank” character is a valid character value. However, the first character in a character string cannot be a blank character.
Example:	A8dw6 pi2-BV4@ré (RE2)

pcimDateType	
Base Data Type:	pcimDateType
Format:	YYYY-MM-DD Where YYYY is the year (0000 to 9999) MM is the month (01 to 12) DD is the day (01 to 31)
Valid Character Values:	Valid character values are restricted to the following character set: 0 1 2 3 4 5 6 7 8 9 -
Note:	A valid calendar date must be provided. The year, month, and day parts must be separated by a hyphen ("-"). If any part of the date is present, then all parts of the date must be present.
Example:	1965-07-04

pcimDateTimeLocalType	
Base Data Type:	pcimDateTimeLocalType
Format:	YYYY-MM-DDThh:mm:ss Where YYYY is the year (0000 to 9999) MM is the month (01 to 12) DD is the day (01 to 31) hh is the hour (00 to 23) mm is the minute (00 to 59) ss is the second (00 to 59)
Valid Character Values:	Valid character values are restricted to the following character set: 0 1 2 3 4 5 6 7 8 9 - T :
Note:	A valid calendar date must be provided. The year, month, and day parts must be separated by a hyphen ("-"). The time portion must begin with the letter "T". The hour, minute, and second parts must be separated by a colon (":"). If any part of the datetime is present, then all parts of the datetime must be present.
Example:	2014-08-12T09:35:12

pcimDateTimeZuluType	
Base Data Type:	pcimDateTimeZuluType
Format:	YYYY-MM-DDThh:mm:ssZ Where YYYY is the year (0000 to 9999) MM is the month (01 to 12) DD is the day (01 to 31) hh is the hour (00 to 23) mm is the minute (00 to 59) ss is the second (00 to 59)
Valid Character Values:	Valid character values are restricted to the following character set: 0 1 2 3 4 5 6 7 8 9 - T Z :
Note:	A valid calendar date must be provided. The year, month, and day parts must be separated by a hyphen ("-"). The time portion must begin with the letter "T" and must terminate with the letter "Z" (for Zulu Time (i.e., Coordinated Universal Time (UTC))). The hour, minute, and second parts must be separated by a colon (":"). If any part of the datetime is present, then all parts of the datetime must be present.
Example:	2014-09-04T07:51:06Z

pcimFixedLengthUnsignedIntegerType	
Base Data Type:	pcimFixedLengthUnsignedIntegerType
Format:	N[...L _i (integer length limit)] Where N is a valid numeric character value
Valid Character Values:	Valid character values are restricted to the following character set: 0 1 2 3 4 5 6 7 8 9
Note:	Leading zeroes are required.
Example:	003617

pcimUnsignedIntegerType	
Base Data Type:	pcimUnsignedIntegerType
Format:	N[...L _i (integer length limit)] Where N is a valid numeric character value
Valid Character Values:	Valid character values are restricted to the following character set: 0 1 2 3 4 5 6 7 8 9
Note:	Leading zeroes are not valid. However, a single zero by itself is valid.
Example:	1209874356

pcimUnsignedRationalType	
Base Data Type:	pcimUnsignedRationalType
Format:	N[...L _i (integer length limit)].N[...L _f (fractional length limit)] Where N is a valid numeric character value and a period (“.”) indicates the beginning of the fractional portion
Valid Character Values:	Valid character values are restricted to the following character set: 0 1 2 3 4 5 6 7 8 9 .
Note:	Leading and trailing zeroes are permitted.
Example:	76.034

15 OUTSTANDING ISSUES

The following issues need to be addressed by the IMSC Working Group:

1. Some data element minimum and maximum lengths need to be finalized: these are highlighted in yellow within the document.
2. Some data element codesets need to be finalized: these are highlighted in yellow within the document.
3. The list of valid characters specified for the *pcimCharacterStringType* base data type might be too restrictive. Should the set of valid characters be extended to include character sets from other languages (e.g. aboriginal language characters)?
4. It has been proposed by Alberta that a *Legal Land Description* data element be included within the PLACE OF EVENT personal information category.
5. Is there a requirement for an *overall validation response*?
6. The following defined message payloads need to be finalized:
 - Change of Legal Name Notification
 - Change of Sex Notification
 - Change of Legal Presence in Canada Notification
 - Removal from Canada Notification
7. There are four issues relevant to the PCIM Information Exchange Specification that were explored during the evolution of the NRS Data Exchange Standards. The decisions made by the NRS Data Exchange Standards Working Group in regards to these issues should be reviewed and discussed. The four issues are:

a) Required Data Elements for Notification Cancellation

All mandatory data elements must be present in a notification “cancellation” and the values supplied for the data elements (other than data exchange management data elements) must match the values supplied in the original notification.

b) Standards for Given Name Information

The *initial* NRS Data Exchanges Standards developed for the NRS Pilot allowed for three *given name* data elements. One data element contained the first given name, a second data element contained the second given name, and a third data element contained all other given names. However, during the course of the NRs Pilot it was realized that not all provinces and territories collect and maintain given names as three separate data elements. Many registrars have defined one data element that contains all given names. In those cases, to generate a proper NRS notification message payload the data provider was required to parse the string of given names into one, two, or three separate data values based on the spaces between the individual given names.

The practice of parsing a single string into multiple sub-strings based on internal spaces does not always result in an accurate (i.e. legal) representation of the given names of a person (e.g. first given name: Lee Ann *versus* first given name: Lee, second given name: Ann). However, the intent of such parsing is not to provide the *actual* first, second, third and additional given names but to provide the first, second, third, and additional given names *as listed on the certificate/document*. For this reason, the NRS Data Exchanges Standards data element names refer to *First Given Name Listed, Second Given Name Listed, etc.*

Nonetheless, despite this legal technicality, some data providers and consumers remained uncomfortable with the concept of parsing given names. It was felt that such parsing had the potential effect of reducing data accuracy. Therefore, a new data element (i.e. *Given Names Listed*) was added to the NRS Data Exchanges Standards which could be used as an optional mechanism for providing given name information.

As a result, the NRS Data Exchanges Standards supports two standards for given name information:

1. Defined as one data element (i.e. *Given Names Listed*)
2. Defined as three separate data elements (i.e. *First Given Name Listed, Second Given Name Listed, and Third and Additional Given Names Listed*)

c) Absence of Given Name Information

In some jurisdictions it is possible, though discouraged, to register the birth of a child without supplying a given name for the child. In these cases only a surname is provided which is often different from the surname of either parent and this surname is intended to be the child's only name. In some jurisdictions, it is also possible for an adult to change their full name to a single surname-only name.

Since it cannot be guaranteed that in all cases at least one given name will be provided, the NRS Data Exchanges Standards does not define any of the various given name data elements as mandatory for validation/retrieval or notification.

d) Standards for Civic Address Information

The NRS Data Exchanges Standards supports three standards for civic address information:

1. Defined as one data element (i.e. *Street Address*)
2. Defined as two separate data elements (i.e. *Street Address Line1* and *Street Address Line2*)
3. Defined as a set of separate data elements (e.g. *Civic Number, Street Name, Unit Specification*)

16 APPENDIX A: TERMS AND DEFINITIONS

The definitions that follow include authoritative definitions from the *Standard on Identity and Credential Assurance*, definitions found in related guidelines and industry references, and definitions developed by the working group for the purposes of this document.

Term	Definition
anonymous credential	Refers to a credential that, while still making an assertion about some property, status, or right of the person, does not reveal the person's identity. A credential may contain identity attributes but still be treated as anonymous if the identity attributes are not recognized or used for identity validation purposes. Anonymous credentials provide persons with a means by which to prove statements about themselves and their relationships with public and private organizations anonymously.
assigned identifier	A numeric or alphanumeric string that is generated automatically and that uniquely distinguishes between persons without the use of any other identity attributes.
assurance	A measure of certainty that a statement or fact is true.
assurance level	A level of confidence that may be relied on by others.
assurance of credential	Concerns the binding of a credential to a person (without regard to their identity).
assurance of identity	Concerns the claim that the person is really who they say they are.
attribute	A property or characteristic associated with an entity. See also "identity attribute".
authentication	The process of establishing truth or genuineness to generate an assurance of credential or identity.
authoritative party	A federation member that provides assurances of credential or identity to other federation members (i.e. "relying parties").
authoritative source	A collection or registry of records maintained by an authority that meets established criteria.

Term	Definition
biological or behavioural characteristic confirmation	A process that compares biological (anatomical and physiological) characteristics in order to establish a link to a person (e.g. facial photo comparison).
biometrics	A general term used alternatively to describe a characteristic or a process. It can refer to a measurable biological (anatomical and physiological) or behavioural characteristic that can be used for automated recognition. It can also refer to automated methods of recognizing an individual based on measurable biological (anatomical and physiological) and behavioural characteristics.
business event	A business event is a significant discrete episode that occurs in the life span of a business. By law a business event must be recorded with a government entity and is subject to legislation and regulation. Examples of business events are registration of charter, merger, amalgamation, surrender of charter, and dissolution.
client	The intended recipient for a service output. External clients are generally persons (Canadian citizens, permanent residents, etc.) and businesses (public and private sector organizations). Internal clients are generally public service employees and contractors.
context	A set of circumstances, a situation, or a scenario in which a person interacts with other persons or with an organization.
credential	A unique physical or electronic object (or identifier) issued to, or associated with, a person, organization, or device (e.g. key, token, document, program identifier).
credential assurance	The assurance that a person, organization, or device has maintained control over the credential with which they have been entrusted (e.g. key, token, document, identifier) and that the credential has not been compromised (e.g. tampered with, corrupted, modified).

Term	Definition
credential assurance level	The level of confidence that a person, organization, or device has maintained control over the credential with which they have been entrusted (e.g. key, token, document, identifier) and that the credential has not been compromised (e.g. tampered with, corrupted, modified).
credential federation	A federation established for the purpose of credential management.
credential risk	The risk that a person, organization, or device has lost control over the credential with which they have been entrusted.
document authentication	The process of confirming the authenticity of a document: genuine, counterfeit, forged, etc. Document authentication is achieved by checking the security features of a document, such as secure laminate, holographic images, etc.
documentary evidence	Any physical record of information that can be used as evidence. This is widely understood to mean information written on paper, but the more general definition is preferable.
documented sex	An attribute copied from the “sex” or “gender” indicator on a credential.
electronic or digital evidence	Any data that is recorded or preserved on any medium in, or by, a computer system or other similar device. Examples include database records, audit logs, and electronic word processing documents.
evidence of identity	A record from an authoritative source that supports the integrity and accuracy of the claims made by a person. There are two categories of evidence of identity: foundational and supporting. See “foundational evidence of identity” and “supporting evidence of identity”.
federated credential management	The sharing of assurances of credentials with trusted members of a federation.
federated identity	The sharing of assurances of identity with trusted

Term	Definition
management	members of a federation.
federating credentials	The process of establishing a federation in which members share assurances of credentials with trusted members of the federation.
federating identity	The process of establishing a federation in which members share assurances of identity with trusted members of the federation.
federation	A cooperative agreement between autonomous entities that have agreed to relinquish some of their autonomy in order to work together effectively to support a collaborative effort. The federation is supported by trust relationships and standards to support interoperability.
foundation name	The name of a person as indicated on an official record identifying the person (e.g. vital statistics record, immigration record).
foundation registry	A registry that maintains permanent records about persons who were born in Canada, persons who are Canadian but who were born abroad, or persons who are foreign nationals who have applied to enter Canada.
foundational evidence of identity	Evidence of identity that establishes core identity information such as surname, given name(s), date of birth, sex, and place of birth. Examples include records of birth, death, immigration, or citizenship originating from a jurisdictional authority.
gender	The socially constructed roles, behaviours, activities, and attributes that a given society considers appropriate for a male or a female.
identifier	The set of identity attributes used to uniquely distinguish a unique and particular person, organization, or device.
identity	A reference or designation used to distinguish a unique and particular person, organization, or device.
identity assurance	A measure of certainty that a person, organization, or device is who or what it claims to be.
identity assurance level	The level of confidence that a person, organization, or

Term	Definition
	device is who or what it claims to be.
identity attribute	A property or characteristic associated with an identifiable person, organization, or device (also known as “identity data element”).
identity claim	An assertion of the truth of something that pertains to a person's identity.
identity data element	See “identity attribute”.
identity establishment	The creation of an authoritative record of identity that is relied on by others for subsequent government activities, programs, and services.
identity federation	A federation established for the purpose of identity management.
identity fraud	The deceptive use of personal information in connection with frauds such as the misuse of debit/credit cards or applying for loans using stolen personal information.
identity information	The set of identity attributes that is sufficient to distinguish one person from all other persons within a program/service population and that is sufficient to describe the person as required by the program or service. Identity information is a subset of personal information.
identity information notification	The disclosure of identity information about a person by an authoritative party to a relying party that is triggered by the establishment of the person’s identity, a change in their identity information, or an indication that their identity information has been exposed to a risk factor (e.g. the death of the person, use of expired documents, a privacy breach, fraudulent use of the identity information).
identity information retrieval	The disclosure of identity information about a person by an authoritative party to a relying party that is triggered by a request from the relying party.

Term	Definition
identity information validation	The confirmation of the accuracy of identity information about a person as established by an authoritative party. Note: Identity information validation does not ensure that the person is using their own identity information, only that the identity information the person is using is accurate and up to date.
identity management	The set of principles, practices, processes, and procedures used to realize an organization's mandate and its objectives related to identity.
identity resolution	The establishment of the uniqueness of a person within a program/service population through the use of identity information.
identity risk	The risk that a person, organization, or device is not who or what it claims to be.
identity theft	The preparatory stage of acquiring and collecting someone else's personal information for criminal purposes.
identity verification	The confirmation that the identity information being presented relates to the person who is making the claim.
interoperability	The ability of organizations to operate synergistically through consistent security and identity management practices.
jurisdictional hub	A system that all entities within a jurisdiction connect to in order for them to electronically interact with all other jurisdictions via one external facing common gateway.
knowledge-based confirmation	A process that compares personal or private information (i.e. shared secrets) to establish a person's identity. Examples of information that can be used for knowledge-based confirmation include passwords, personal identification numbers, hint questions, program-specific information, and credit or financial information.
legal name	See "primary name".
legal presence	Lawful entitlement to be or reside in Canada.
person	A human being including "minors" and others who might

Term	Definition
	not be deemed to be persons under the law.
personal information	Information about an identifiable person.
personal information notification	The disclosure of personal information about a person by an authoritative party to a relying party that is triggered by the establishment of the person's identity or a change in their personal information.
personal information retrieval	The disclosure of personal information about a person by an authoritative party to a relying party that is triggered by a request from the relying party.
personal information validation	The confirmation of the accuracy of personal information about a person as established by an authoritative party.
physical possession confirmation	A process that requires physical possession or presentation of evidence to establish a person's identity.
preferred name	The name by which a person prefers to be informally addressed.
primary name	The name that a person uses for formal and legal purposes (also known as "legal name").
relying party	A federation member who relies on assurances of credential or identity from other federation members (i.e. "authoritative parties").
risk	The uncertainty that surrounds future events and outcomes. It is the expression of the likelihood and impact of an event with the potential to influence the achievement of an organization's objectives.
sex	The biological characteristics that define a human being as female or male. These sets of biological characteristics are not mutually exclusive as there are persons who possess both female and male characteristics.
supporting evidence of identity	Evidence of identity that corroborates the foundational evidence of identity and assists in linking the identity information to a person. It may also provide additional information such as a photo, signature, or address. Examples include social insurance records; records of

Term	Definition
	entitlement to travel, drive, or obtain health insurance; and records of marriage, name change, or death originating from a jurisdictional authority.
trust	A firm belief in the reliability or truth of a person or thing.
trust framework	A formalized scheme that ensures that federation members have continued confidence in one another. A trust framework formally underpins trust relationships by stipulating adherence to standards, formalizing assessment processes, and defining roles and responsibilities of multi-party arrangements.
trust relationship	A defined arrangement or agreement that ensures confidence.
trusted referee confirmation	A process that relies on a trusted referee to establish a link to a person. The trusted referee is determined by program-specific criteria. Examples of trusted referees include guarantors, notaries, and certified agents.
vital event	A vital event is a significant discrete episode that occurs in the life span of a person. By law a vital event must be recorded with a government entity and is subject to legislation and regulation. Examples of vital events are live birth, foetal death (i.e. stillbirth), adoption, legitimation, recognition of parenthood, marriage, annulment of marriage, legal separation, divorce, and death.

17 APPENDIX B: DEFINED MESSAGE PAYLOADS

The Validation/Retrieval request and response data structures and the Notification data structures that are outlined in this appendix are derived from the PCIM canonical data model.

17.1 Validation/Retrieval

17.1.1 Current NRS Usage

Birth certificate information validation/retrieval requests and responses are exchanged between Service Canada (SC) and the provinces and territories.

17.1.2 Birth Certificate Information Validation/Retrieval Request

(Level) Object Name	Data Element Name
(1) PersonBirthCertificateInformationVRRRequest	
(2) RequestModule	
(3) DataExchangeManagementInformation	
(4) DataExchangeTypeCode (= "PREQ0101")	Data Exchange Type Code
(4) SourceFederationMemberCode	Source Federation Member Code
(4) TargetFederationMemberCode	Target Federation Member Code
(4) MessagePayloadIdentifier	Message Payload Identifier
(4) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(4) RequestedValidationAssuranceLevelCode	Requested Validation Assurance Level Code
(4) RequestedValidationDisclosureLevelCode	Requested Validation Disclosure Level Code
(4) RequestedRetrievalAssuranceLevelCode	Requested Retrieval Assurance Level Code
(4) CaseReferenceIdentifier	Case Reference Identifier
(4) RequestPriorityCode	Request Priority Code
(4) AdjudicationRequestedCode	Adjudication Requested Code
(3) IdentityResolutionComponent	
(4) IdentityInformation	
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN" ⁴⁰)	Assigned Identifier Type Code
(6) PersonIdentifier	Person Identifier

⁴⁰ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

(Level) Object Name	Data Element Name
(3) ValidationComponent	
(4) IdentityInformation	
(5) PersonName1 /* Foundation */	
(6) PersonNameTypeCode (= "FOUND")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) EventDate	Event Date
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) MunicipalityName	Municipality Name
(5) SexGenderDocumentedSex	
(6) SexCode	Sex Code
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(6) RegistrationDate	Registration Date
(5) AssignedIdentifier2 /* Birth Cert Num */	
(6) AssignedIdentifierTypeCode (= "PTBCN")	Assigned Identifier Type Code
(6) PersonIdentifier	Person Identifier
(6) IssueDate	Issue Date
(4) PersonalInformation	
(5) AssociatedPerson1 /* Father */	
(6) AssociatedPersonTypeCode (= "FATHR")	Associated Person Type Code
(6) PersonName1 /* Primary */	
(7) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(7) Surname	Surname
(7) GivenNamesListed	Given Names Listed
(6) PlaceOfEvent1 /* Birth */	
(7) EventTypeCode (= "BIRTH")	Event Type Code
(7) ProvinceTerritoryStateName	Province/Territory/State Name
(7) CountryName	Country Name
(5) AssociatedPerson2 /* Mother */	
(6) AssociatedPersonTypeCode (= "MOTHR")	Associated Person Type Code
(6) PersonName1 /* Primary */	
(7) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(7) Surname	Surname
(7) GivenNamesListed	Given Names Listed
(6) PersonName2 /* Prior to First Marriage */	

(Level) Object Name	Data Element Name
(7) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(7) Surname	Surname
(6) PlaceOfEvent1 /* Birth */	
(7) EventTypeCode (= "BIRTH")	Event Type Code
(7) ProvinceTerritoryStateName	Province/Territory/State Name
(7) CountryName	Country Name
(3) RetrievalComponent	
(4) IdentityInformation	
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(6) PersonIdentifierStatusCode	Person Identifier Status Code
(6) PersonIdentifierStatusReasonCode	Person Identifier Status Reason Code
(5) AssignedIdentifier2 /* Birth Cert Num */	
(6) AssignedIdentifierTypeCode (= "PTBCN")	Assigned Identifier Type Code
(6) PersonIdentifierStatusCode	Person Identifier Status Code
(6) PersonIdentifierStatusReasonCode	Person Identifier Status Reason Code
(4) PersonalInformation	
(5) PersonStatus	
(6) DeathStatusCode	Death Status Code
(6) ChangeOfLegalNameStatusCode	Change of Legal Name Status Code

17.1.3 Birth Certificate Information Validation/Retrieval Response

(Level) Object Name	Data Element Name
(1) PersonBirthCertificateInformationVRRResponse	
(2) RequestModule	
(3) DataExchangeManagementInformation	
(4) DataExchangeTypeCode (= "PREQ0101")	Data Exchange Type Code
(4) SourceFederationMemberCode	Source Federation Member Code
(4) TargetFederationMemberCode	Target Federation Member Code
(4) MessagePayloadIdentifier	Message Payload Identifier
(4) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(4) RequestedValidationAssuranceLevelCode	Requested Validation Assurance Level Code
(4) RequestedValidationDisclosureLevelCode	Requested Validation Disclosure Level Code
(4) RequestedRetrievalAssuranceLevelCode	Requested Retrieval Assurance Level Code
(4) CaseReferenceIdentifier	Case Reference Identifier
(4) RequestPriorityCode	Request Priority Code
(4) AdjudicationRequestedCode	Adjudication Requested Code
(3) IdentityResolutionComponent	
(4) IdentityInformation	
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN" ⁴¹)	Assigned Identifier Type Code
(6) PersonIdentifier	Person Identifier
(3) ValidationComponent	
(4) IdentityInformation	
(5) PersonName1 /* Foundation */	
(6) PersonNameTypeCode (= "FOUND")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) EventDate	Event Date
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code

⁴¹ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

(Level) Object Name	Data Element Name
(6) MunicipalityName	Municipality Name
(5) SexGenderDocumentedSex	
(6) SexCode	Sex Code
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(6) RegistrationDate	Registration Date
(5) AssignedIdentifier2 /* Birth Cert Num */	
(6) AssignedIdentifierTypeCode (= "PTBCN")	Assigned Identifier Type Code
(6) PersonIdentifier	Person Identifier
(6) IssueDate	Issue Date
(4) PersonAllInformation	
(5) AssociatedPerson1 /* Father */	
(6) AssociatedPersonTypeCode (= "FATHR")	Associated Person Type Code
(6) PersonName1 /* Primary */	
(7) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(7) Surname	Surname
(7) GivenNamesListed	Given Names Listed
(6) PlaceOfEvent1 /* Birth */	
(7) EventTypeCode (= "BIRTH")	Event Type Code
(7) ProvinceTerritoryStateName	Province/Territory/State Name
(7) CountryName	Country Name
(5) AssociatedPerson2 /* Mother */	
(6) AssociatedPersonTypeCode (= "MOTHR")	Associated Person Type Code
(6) PersonName1 /* Primary */	
(7) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(7) Surname	Surname
(7) GivenNamesListed	Given Names Listed
(6) PersonName2 /* Prior to First Marriage */	
(7) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(7) Surname	Surname
(6) PlaceOfEvent1 /* Birth */	
(7) EventTypeCode (= "BIRTH")	Event Type Code
(7) ProvinceTerritoryStateName	Province/Territory/State Name
(7) CountryName	Country Name
(3) RetrievalComponent	
(4) IdentityInformation	
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(6) PersonIdentifierStatusCode	Person Identifier Status Code

(Level) Object Name	Data Element Name
(6) PersonIdentifierStatusReasonCode	Person Identifier Status Reason Code
(5) AssignedIdentifier2 /* Birth Cert Num */	
(6) AssignedIdentifierTypeCode (= "PTBCN")	Assigned Identifier Type Code
(6) PersonIdentifierStatusCode	Person Identifier Status Code
(6) PersonIdentifierStatusReasonCode	Person Identifier Status Reason Code
(4) PersonAllInformation	
(5) PersonStatus	
(6) DeathStatusCode	Death Status Code
(6) ChangeOfLegalNameStatusCode	Change of Legal Name Status Code
(2) ResponseModule	
(3) DataExchangeManagement	
(4) DataExchangeTypeCode (= "PRSP0101")	Data Exchange Type Code
(4) SourceFederationMemberCode	Source Federation Member Code
(4) TargetFederationMemberCode	Target Federation Member Code
(4) MessagePayloadIdentifier	Message Payload Identifier
(4) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(4) ResponseValidationAssuranceLevelCode	Response Validation Assurance Level Code
(4) ResponseValidationDisclosureLevelCode	Response Validation Disclosure Level Code
(4) ResponseRetrievalAssuranceLevelCode	Response Retrieval Assurance Level Code
(4) ResponseTypeCode	Response Type Code
(3) IdentityResolutionComponent	
(4) IdentityResolutionIndicatorCode	Identity Resolution Indicator Code
(3) ValidationComponent	
(4) IdentityInformation	
(5) PersonName1 /* Foundation */	
(6) PersonNameTypeCode (= "FOUND")	Person Name Type Code
(6) RespSurname	
(7) ValidationIndicatorCode	Validation Indicator Code
(6) RespGivenNamesListed	
(7) ValidationIndicatorCode	Validation Indicator Code
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) RespEventDate	
(7) ValidationIndicatorCode	Validation Indicator Code
(5) PlaceOfEvent1 /* Birth */	

(Level) Object Name	Data Element Name
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) RespMunicipalityName	
(7) ValidationIndicatorCode	Validation Indicator Code
(5) SexGenderDocumentedSex	
(6) RespSexCode	
(7) ValidationIndicatorCode	Validation Indicator Code
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(6) RespRegistrationDate	
(7) ValidationIndicatorCode	Validation Indicator Code
(5) AssignedIdentifier2 /* Birth Cert Num */	
(6) AssignedIdentifierTypeCode (= "PTBCN")	Assigned Identifier Type Code
(6) RespPersonIdentifier	
(7) ValidationIndicatorCode	Validation Indicator Code
(6) RespIssueDate	
(7) ValidationIndicatorCode	Validation Indicator Code
(4) PersonalInformation	
(5) AssociatedPerson1 /* Father */	
(6) AssociatedPersonTypeCode (= "FATHR")	Associated Person Type Code
(6) PersonName1 /* Primary */	
(7) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(7) RespSurname	
(8) ValidationIndicatorCode	Validation Indicator Code
(7) RespGivenNamesListed	
(8) ValidationIndicatorCode	Validation Indicator Code
(6) PlaceOfEvent1 /* Birth */	
(7) EventTypeCode (= "BIRTH")	Event Type Code
(7) RespProvinceTerritoryStateName	
(8) ValidationIndicatorCode	Validation Indicator Code
(7) RespCountryName	
(8) ValidationIndicatorCode	Validation Indicator Code
(5) AssociatedPerson2 /* Mother */	
(6) AssociatedPersonTypeCode (= "MOTHR")	Associated Person Type Code
(6) PersonName1 /* Primary */	
(7) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(7) RespSurname	
(8) ValidationIndicatorCode	Validation Indicator Code
(7) RespGivenNamesListed	
(8) ValidationIndicatorCode	Validation Indicator Code

(Level) Object Name	Data Element Name
(6) PersonName2 /* Prior to First Marriage */	
(7) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(7) RespSurname	
(8) ValidationIndicatorCode	Validation Indicator Code
(6) PlaceOfEvent1 /* Birth */	
(7) EventTypeCode (= "BIRTH")	Event Type Code
(7) RespProvinceTerritoryStateName	
(8) ValidationIndicatorCode	Validation Indicator Code
(7) RespCountryName	
(8) ValidationIndicatorCode	Validation Indicator Code
(3) RetrievalComponent	
(4) IdentityInformation	
(5) AssignedIdentifier1 /* Birth Reg Number */	
(6) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(6) RespPersonIdentifierStatusCode	
(7) RetrievalIndicatorCode	Retrieval Indicator Code
(7) PersonIdentifierStatusCode	Person Identifier Status Code
(6) RespPersonIdentifierStatusReasonCode	
(7) RetrievalIndicatorCode	Retrieval Indicator Code
(7) PersonIdentifierStatusReasonCode	Person Identifier Status Reason Code
(5) AssignedIdentifier2 /* Birth Cert Num */	
(6) AssignedIdentifierTypeCode (= "PTBCN")	Assigned Identifier Type Code
(6) RespPersonIdentifierStatusCode	
(7) RetrievalIndicatorCode	Retrieval Indicator Code
(7) PersonIdentifierStatusCode	Person Identifier Status Code
(6) RespPersonIdentifierStatusReasonCode	
(7) RetrievalIndicatorCode	Retrieval Indicator Code
(7) PersonIdentifierStatusReasonCode	Person Identifier Status Reason Code
(4) PersonAllInformation	
(5) PersonStatus	
(6) RespDeathStatusCode	
(7) RetrievalIndicatorCode	Retrieval Indicator Code
(7) DeathStatusCode	Death Status Code
(6) RespChangeOfLegalNameStatusCode	
(7) RetrievalIndicatorCode	Retrieval Indicator Code
(7) ChangeOfLegalNameStatusCode	Change of Legal Name Status Code

17.2 Notification

17.2.1 Current NRS Usage

Birth vital event notifications and death vital event notifications are sent from the provinces and territories to the Canada Revenue Agency (CRA), Service Canada (SC), and Statistics Canada (STC). In addition, some provinces send death vital event notifications to the province or territory in which the person was born. Stillbirth vital event notifications are sent from the provinces and territories to Statistics Canada only.

Note: Because there is some degree of variability in the set of data elements sent to the relying parties, the birth vital event notification and death vital event notification defined message payloads shown below are a composite superset of all the data elements that are sent.

17.2.2 Birth Vital Event Notification

(Level) Object Name	Data Element Name
(1) PersonBirthVitalEventNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0101")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* Birth Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTBRN" ⁴²)	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) IdentityInformation	
(4) PersonName1 /* Foundation */	
(5) PersonNameTypeCode (= "FOUND")	Person Name Type Code

⁴² The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

(Level) Object Name	Data Element Name
(5) Surname	Surname
(5) GivenNamesListed	Given Names Listed
(5) FirstGivenNameListed	First Given Name Listed
(5) SecondGivenNameListed	Second Given Name Listed
(5) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(4) DateOfEvent1 /* Birth */	
(5) EventTypeCode (= "BIRTH")	Event Type Code
(5) EventDate	Event Date
(4) PlaceOfEvent1 /* Birth */	
(5) EventTypeCode (= "BIRTH")	Event Type Code
(5) MunicipalityName	Municipality Name
(5) ProvinceTerritoryCode	Province/Territory Code
(5) CountryCode	Country Code
(5) CDCSDCode	Census Division and Census Subdivision Code
(4) SexGenderDocumentedSex	
(5) SexCode	Sex Code
(4) AssignedIdentifier1 /* Birth Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTBRN")	Assigned Identifier Type Code
(5) RegistrationDate	Registration Date
(3) PersonalInformation	
(4) BirthVitalEventDetail	
(5) BirthWeight	Birth Weight
(5) BirthLocalityCode	Birth Locality Code
(5) AttendantDesignationCode	Attendant Designation Code
(5) LivebornPlusStillbornInThisVitalEvent	Number of Liveborn Plus Stillborn in This Vital Event
(5) StillbornInThisVitalEvent	Number of Stillborn in This Vital Event
(5) BirthOrderCode	Birth Order Code
(5) PregnancyDuration	Pregnancy Duration
(5) ParentsMarriedToEachOtherCode	Parents Married to Each Other Code
(5) TotalLivebornByThisMother	Total Children Liveborn by This Mother Including This Vital Event
(5) TotalStillbornByThisMother	Total Children Stillborn by This Mother Including This Vital Event
(4) AssociatedPerson1 /* Father */	
(5) AssociatedPersonTypeCode (= "FATHR")	Associated Person Type Code
(5) PersonName1 /* Primary */	

(Level) Object Name	Data Element Name
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) EventDate	Event Date
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(5) PersonAge	
(6) Age	Age
(4) AssociatedPerson2 /* Mother */	
(5) AssociatedPersonTypeCode (= "MOTHR")	Associated Person Type Code
(5) PersonName1 /* Primary */	
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) PersonName2 /* Prior to First Marriage */	
(6) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(6) Surname	Surname
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) EventDate	Event Date
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(5) AssignedIdentifier1 /* SIN */	
(6) AssignedIdentifierTypeCode (= "CASIN")	Assigned Identifier Type Code

(Level) Object Name	Data Element Name
(6) PersonIdentifier	Person Identifier
(5) PersonStatus	
(6) MaritalStatusCode	Marital Status Code
(5) Address1 /* Usual Residence */	
(6) AddressTypeCode (= "PRSD")	Address Type Code
(6) StreetAddress	Street Address
(6) MunicipalityName	Municipality Name
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(6) PostalCode	Postal Code
(6) CDCSDCode	Census Division and Census Subdivision Code
(5) Address2 /* Mailing Address */	
(6) AddressTypeCode (= "MADD")	Address Type Code
(6) StreetAddress	Street Address
(6) StreetAddressLine1	Street Address Line1
(6) StreetAddressLine2	Street Address Line2
(6) UnitSpecification	Unit Specification
(6) CivicNumber	Civic Number
(6) StreetName	Street Name
(6) RuralRoute	Rural Route
(6) MunicipalityName	Municipality Name
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(6) PostalCode	Postal Code
(5) PersonAge	
(6) Age	Age
(5) ContactDetail	
(6) LanguageOfCorrespondenceCode	Language of Correspondence Code
(6) TelephoneNumberPrimary	Telephone Number (Primary)
(6) TelephoneNumberSecondary	Telephone Number (Secondary)

17.2.3 Death Vital Event Notification

(Level) Object Name	Data Element Name
(1) PersonDeathVitalEventNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0201")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* Death Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTDRN" ⁴³)	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) IdentityInformation	
(4) PersonName1 /* Primary */	
(5) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(5) Surname	Surname
(5) GivenNamesListed	Given Names Listed
(5) FirstGivenNameListed	First Given Name Listed
(5) SecondGivenNameListed	Second Given Name Listed
(5) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(4) PersonName2 /* Prior to First Marriage */	
(5) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(5) Surname	Surname
(4) DateOfEvent1 /* Birth */	
(5) EventTypeCode (= "BIRTH")	Event Type Code
(5) EventDate	Event Date
(4) DateOfEvent2 /* Death */	
(5) EventTypeCode (= "DEATH")	Event Type Code

⁴³ The PT (as in PTDRN) would be replaced with the appropriate two character province/territory code.

(Level) Object Name	Data Element Name
(5) EventDate	Event Date
(4) PlaceOfEvent1 /* Birth */	
(5) EventTypeCode (= "BIRTH")	Event Type Code
(5) MunicipalityName	Municipality Name
(5) ProvinceTerritoryCode	Province/Territory Code
(5) CountryCode	Country Code
(4) PlaceOfEvent2 /* Death */	
(5) EventTypeCode (= "DEATH")	Event Type Code
(5) MunicipalityName	Municipality Name
(5) ProvinceTerritoryCode	Province/Territory Code
(5) CountryCode	Country Code
(5) CDCSDCode	Census Division and Census Subdivision Code
(4) SexGenderDocumentedSex	
(5) SexCode	Sex Code
(4) AssignedIdentifier1 /* Death Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTDRN")	Assigned Identifier Type Code
(5) RegistrationDate	Registration Date
(4) AssignedIdentifier2 /* SIN */	
(5) AssignedIdentifierTypeCode (= "CASIN")	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(3) PersonalInformation	
(4) PersonStatus	
(5) MaritalStatusCode	Marital Status Code
(4) Address1 /* Usual Residence */	
(5) AddressTypeCode (= "PRSD")	Address Type Code
(5) StreetAddress	Street Address
(5) MunicipalityName	Municipality Name
(5) ProvinceTerritoryCode	Province/Territory Code
(5) CountryCode	Country Code
(5) PostalCode	Postal Code
(5) CDCSDCode	Census Division and Census Subdivision Code
(4) PersonAge	
(5) Age	Age
(5) TimeUnitsCode	Time Units Code
(4) DeathVitalEventDetail	
(5) DeathLocalityCode	Death Locality Code

(Level) Object Name	Data Element Name
(5) InjuryLocalityCode	Injury Locality Code
(5) CertifierDesignationCode	Certifier Designation Code
(5) UnderlyingCauseOfDeathCode	Underlying Cause of Death Code
(5) AutopsyPerformedCode	Autopsy Performed Code
(5) AutopsyFindingsUsedInUCDCCode	Autopsy Findings Used in Stated Underlying Cause of Death Code
(5) FurtherInformationExpectedOnUCDCCode	Further Information Expected on Underlying Cause of Death Code
(5) DispositionOfBodyCode	Disposition of Body Code
(4) AssociatedPerson1 /* Spouse */	
(5) AssociatedPersonTypeCode (= "SPOSE")	Associated Person Type Code
(5) PersonName1 /* Primary */	
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) PersonName2 /* Prior to First Marriage */	
(6) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(6) Surname	Surname
(5) SexGenderDocumentedSex	
(6) SexCode	Sex Code
(4) AssociatedPerson2 /* Father */	
(5) AssociatedPersonTypeCode (= "FATHR")	Associated Person Type Code
(5) PersonName1 /* Primary */	
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(4) AssociatedPerson3 /* Mother */	

(Level) Object Name	Data Element Name
(5) AssociatedPersonTypeCode (= "MOTHR")	Associated Person Type Code
(5) PersonName1 /* Primary */	
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) PersonName2 /* Prior to First Marriage */	
(6) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(6) Surname	Surname
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code

17.2.4 Stillbirth Vital Event Notification

(Level) Object Name	Data Element Name
(1) PersonStillbirthVitalEventNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0301")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* Stillbirth Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTSRN" ⁴⁴)	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) IdentityInformation	
(4) PersonName1 /* Foundation */	
(5) PersonNameTypeCode (= "FOUND")	Person Name Type Code
(5) Surname	Surname
(5) GivenNamesListed	Given Names Listed
(5) FirstGivenNameListed	First Given Name Listed
(5) SecondGivenNameListed	Second Given Name Listed
(5) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(4) SexGenderDocumentedSex	
(5) SexCode	Sex Code
(4) AssignedIdentifier1 /* Stillbirth Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTSRN")	Assigned Identifier Type Code
(5) RegistrationDate	Registration Date
(3) PersonalInformation	
(4) DateOfEvent1 /* Stillbirth */	
(5) EventTypeCode (= "STBIR")	Event Type Code

⁴⁴ The PT (as in PTSRN) would be replaced with the appropriate two character province/territory code.

(Level) Object Name	Data Element Name
(5) EventDate	Event Date
(4) PlaceOfEvent1 /* Stillbirth */	
(5) EventTypeCode (= "STBIR")	Event Type Code
(5) MunicipalityName	Municipality Name
(5) ProvinceTerritoryCode	Province/Territory Code
(5) CountryCode	Country Code
(5) CDCSDCode	Census Division and Census Subdivision Code
(4) StillbirthVitalEventDetail	
(5) BirthWeight	Birth Weight
(5) StillbirthLocalityCode	Stillbirth Locality Code
(5) AttendantDesignationCode	Attendant Designation Code
(5) LivebornPlusStillbornInThisVitalEvent	Number of Liveborn Plus Stillborn in This Vital Event
(5) StillbornInThisVitalEvent	Number of Stillborn in This Vital Event
(5) BirthOrderCode	Birth Order Code
(5) LabourInducedCode	Labour Induced Code
(5) DeathOfFoetusBeforeLabourCode	Death of Foetus Before Labour Code
(5) DeathOfFoetusBeforeOpProcsCode	Death of Foetus Before Operative Procedures Code
(5) DeathOfFoetusDuringLabourCode	Death of Foetus During Labour Code
(5) UnderlyingCauseOfStillbirthCode	Underlying Cause of Stillbirth Code
(5) AutopsyPerformedCode	Autopsy Performed Code
(5) AutopsyFindingsUsedInUCSCCode	Autopsy Findings Used in Stated Underlying Cause of Stillbirth Code
(5) FurtherInformationExpectedOnUCSCCode	Further Information Expected on Underlying Cause of Stillbirth Code
(5) DispositionOfBodyCode	Disposition of Body Code
(5) PregnancyDuration	Pregnancy Duration
(5) ParentsMarriedToEachOtherCode	Parents Married to Each Other Code
(5) TotalLivebornByThisMother	Total Children Liveborn by This Mother Including This Vital Event
(5) TotalStillbornByThisMother	Total Children Stillborn by This Mother Including This Vital Event
(4) AssociatedPerson1 /* Father */	
(5) AssociatedPersonTypeCode (= "FATHR")	Associated Person Type Code
(5) PersonName1 /* Primary */	
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname

(Level) Object Name	Data Element Name
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) EventDate	Event Date
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(5) PersonAge	
(6) Age	Age
(4) AssociatedPerson2 /* Mother */	
(5) AssociatedPersonTypeCode (= "MOTHR")	Associated Person Type Code
(5) PersonName1 /* Primary */	
(6) PersonNameTypeCode (= "PRIME")	Person Name Type Code
(6) Surname	Surname
(6) GivenNamesListed	Given Names Listed
(6) FirstGivenNameListed	First Given Name Listed
(6) SecondGivenNameListed	Second Given Name Listed
(6) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(5) PersonName2 /* Prior to First Marriage */	
(6) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(6) Surname	Surname
(5) DateOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) EventDate	Event Date
(5) PlaceOfEvent1 /* Birth */	
(6) EventTypeCode (= "BIRTH")	Event Type Code
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(5) PersonStatus	
(6) MaritalStatusCode	Marital Status Code
(5) Address1 /* Usual Residence */	
(6) AddressTypeCode (= "PRSD")	Address Type Code

(Level) Object Name	Data Element Name
(6) ProvinceTerritoryCode	Province/Territory Code
(6) CountryCode	Country Code
(6) PostalCode	Postal Code
(6) CDCSDCode	Census Division and Census Subdivision Code
(5) PersonAge	
(6) Age	Age

17.2.5 Change of Legal Name Notification

This is a proposed (and possibly incomplete) data structure. It requires confirmation and possibly further development.

(Level) Object Name	Data Element Name
(1) PersonLegalChangeOfNameNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0401")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* Birth Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTBRN" ⁴⁵)	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) IdentityInformation	
(4) PersonName1 /* Foundation */	
(5) PersonNameTypeCode (= "FOUND")	Person Name Type Code
(5) Surname	Surname
(5) GivenNamesListed	Given Names Listed
(5) FirstGivenNameListed	First Given Name Listed
(5) SecondGivenNameListed	Second Given Name Listed
(5) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(4) PersonName2 /* Previous Primary */	
(5) PersonNameTypeCode (= "PRIMP")	Person Name Type Code
(5) Surname	Surname
(5) GivenNamesListed	Given Names Listed
(5) FirstGivenNameListed	First Given Name Listed

⁴⁵ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

(Level) Object Name	Data Element Name
(5) SecondGivenNameListed	Second Given Name Listed
(5) ThirdAddGivenNamesListed	Third and Additional Given Names Listed
(4) PersonName3 /* <i>Prior to First Marriage</i> */	
(5) PersonNameTypeCode (= "PPTFM")	Person Name Type Code
(5) Surname	Surname
(3) PersonAllInformation	
(4) PersonStatus	
(5) ChangeOfLegalNameStatusCode	Change of Legal Name Status Code

17.2.6 Change of Sex Notification

This is a proposed (and possibly incomplete) data structure. It requires confirmation and possibly further development.

(Level) Object Name	Data Element Name
(1) PersonChangeOfSexNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0501")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* Birth Reg Number */	
(5) AssignedIdentifierTypeCode (= "PTBRN" ⁴⁶)	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) IdentityInformation	
(4) SexGenderDocumentedSex	
(5) SexCode	Sex Code

⁴⁶ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

17.2.7 Change of Legal Presence in Canada Notification

This is a proposed (and possibly incomplete) data structure. It requires confirmation and possibly further development.

(Level) Object Name	Data Element Name
(1) PersonChangeOfLegalPresenceInCanadaNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0601")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* ?????? */	
(5) AssignedIdentifierTypeCode (= "?????")	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) PersonalInformation	
(4) PersonStatus	
(5) LegalPresenceInCanadaStatusCode	Legal Presence in Canada Status Code

17.2.8 Removal from Canada Notification

This is a proposed (and possibly incomplete) data structure. It requires confirmation and possibly further development.

(Level) Object Name	Data Element Name
(1) PersonRemovalFromCanadaNotification	
(2) DataExchangeManagementInformation	
(3) DataExchangeTypeCode (= "PNTF0701")	Data Exchange Type Code
(3) SourceFederationMemberCode	Source Federation Member Code
(3) TargetFederationMemberCode	Target Federation Member Code
(3) MessagePayloadIdentifier	Message Payload Identifier
(3) MessagePayloadCreationDateTime	Message Payload Creation Date and Time
(3) NotificationAssuranceLevelCode	Notification Assurance Level Code
(3) VitalEventYear	Vital Event Year
(3) VitalEventNotificationStatusCode	Vital Event Notification Status Code
(2) IdentityResolutionComponent	
(3) IdentityInformation	
(4) AssignedIdentifier1 /* ?????? */	
(5) AssignedIdentifierTypeCode (= "?????")	Assigned Identifier Type Code
(5) PersonIdentifier	Person Identifier
(2) NotificationComponent	
(3) PersonalInformation	
(4) PersonStatus	
(5) CanadianCitizenshipStatusCode	Canadian Citizenship Status Code

18 APPENDIX C: NRS TO PCIM CONCORDANCE

What follows are the data element equivalencies between the NRS defined message payloads (as detailed in the *NRS Data Exchanges Standards* document) and the PCIM defined message payloads (see Appendix B). It is important to note that this concordance shows the logical equivalencies at the structural level – it is possible that the format and codeset of an NRS data element may be different from the format and codeset of the equivalent PCIM data element specification.

Note: PCIM data elements that appear in *italics* have no equivalent in the NRS Data Exchanges Standards but need to be provided in the PCIM Information Exchange Specification. In these cases, the appropriate value that should be supplied is shown in the NRS column as a character string within quotation marks.

18.1 Validation/Retrieval

18.1.1 Current NRS usage

Birth certificate information validation/retrieval requests and responses are exchanged between Service Canada (SC) and the provinces and territories.

18.1.2 Birth Certificate Information Validation/Retrieval Request

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
PersonBirthCertificateInformationVRRequest	BirthCertInfoValidationRequest
RequestModule	
DataExchangeManagementInformation	DataExchangeManagement
<i>DataExchangeTypeCode</i>	= "PREQ0101"
SourceFederationMemberCode	=SourceParticipantCode
TargetFederationMemberCode	=TargetParticipantCode
MessagePayloadIdentifier	=RequestIdentifier
MessagePayloadCreationDateTime	=MsgPayloadCreationDateTime
<i>RequestedValidationAssuranceLevelCode</i>	= "3"
<i>RequestedValidationDisclosureLevelCode</i>	= "1"
<i>RequestedRetrievalAssuranceLevelCode</i>	= "3"
CaseReferenceIdentifier	=CaseReferenceIdentifier
RequestPriorityCode	=PriorityCode
AdjudicationRequestedCode	=AdjudicationRequestedCode
IdentityResolutionComponent	
IdentityInformation	
AssignedIdentifier1 /* Birth Reg Number */	

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
<i>AssignedIdentifierTypeCode</i>	= "PTBRN" ⁴⁷
PersonIdentifier	=RegistrationIdentifier
ValidationComponent	
IdentityInformation	
	Person
PersonName1 /* Foundation */	Name
<i>PersonNameTypeCode</i>	= "FOUND"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
DateOfEvent1 /* Birth */	
<i>EventTypeCode</i>	= "BIRTH"
EventDate	=BirthDate
PlaceOfEvent1 /* Birth */	PlaceOfOccurrence
<i>EventTypeCode</i>	= "BIRTH"
MunicipalityName	=CityName
SexGenderDocumentedSex	
SexCode	=SexCode
AssignedIdentifier1 /* Birth Reg Number */	
<i>AssignedIdentifierTypeCode</i>	= "PTBRN"
RegistrationDate	=RegistrationDate
AssignedIdentifier2 /* Birth Cert Num */	
<i>AssignedIdentifierTypeCode</i>	= "PTBCN"
PersonIdentifier	=DocumentIdentifier
IssueDate	=DocumentIssueDate
PersonAllInformation	
AssociatedPerson1 /* Father */	Parent1-Father
<i>AssociatedPersonTypeCode</i>	= "FATHR"
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	= "PRIME"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed

⁴⁷ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryStateName	= ProvinceTerritoryStateName
CountryName	= CountryName
AssociatedPerson2 /* Mother */	Parent2-Mother
<i>AssociatedPersonTypeCode</i>	= "MOTHR"
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	= "PRIME"
Surname	= Surname
	GivenNamesListedFormat1
GivenNamesListed	= GivenNamesListed
PersonName2 /* Prior to First Marriage */	
<i>PersonNameTypeCode</i>	= "PPTFM"
Surname	= SurnamePriorToFirstMarriage
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryStateName	= ProvinceTerritoryStateName
CountryName	= CountryName
RetrievalComponent	
IdentityInformation	
AssignedIdentifier1 /* Birth Reg Number */	
<i>AssignedIdentifierTypeCode</i>	= "PTBRN"
<i>PersonIdentifierStatusCode</i>	= "*"
<i>PersonIdentifierStatusReasonCode</i>	= "*"
AssignedIdentifier2 /* Birth Cert Num */	
<i>AssignedIdentifierTypeCode</i>	= "PTBCN"
<i>PersonIdentifierStatusCode</i>	= "*"
<i>PersonIdentifierStatusReasonCode</i>	= "*"
PersonAllInformation	
PersonStatus	
<i>DeathStatusCode</i>	= "*"
<i>ChangeOfLegalNameStatusCode</i>	= "*"

18.1.3 Birth Certificate Information Validation/Retrieval Response

TARGET	SOURCE
PCIM Information Exchange Specification	NRS Data Exchanges Standards
Object Name	Object Name
PersonBirthCertificateInformationVRResponse	BirthCertInfoValidationResponse
RequestModule	
DataExchangeManagementInformation	DataExchangeManagement
<i>DataExchangeTypeCode</i>	= "PREQ0101"
SourceFederationMemberCode	=TargetParticipantCode
TargetFederationMemberCode	=SourceParticipantCode
MessagePayloadIdentifier	=RequestIdentifier
MessagePayloadCreationDateTime	Value may not be available
<i>RequestedValidationAssuranceLevelCode</i>	= "3"
<i>RequestedValidationDisclosureLevelCode</i>	= "1"
<i>RequestedRetrievalAssuranceLevelCode</i>	= "3"
CaseReferenceIdentifier	=CaseReferenceIdentifier
RequestPriorityCode	=PriorityCode
AdjudicationRequestedCode	=AdjudicationRequestedCode
IdentityResolutionComponent	
IdentityInformation	
AssignedIdentifier1 /* Birth Reg Number */	
<i>AssignedIdentifierTypeCode</i>	= "PTBRN" ⁴⁸
PersonIdentifier	=RegistrationIdentifier
ValidationComponent	
IdentityInformation	
	Person
PersonName1 /* Foundation */	Name
<i>PersonNameTypeCode</i>	= "FOUND"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
DateOfEvent1 /* Birth */	
<i>EventTypeCode</i>	= "BIRTH"
EventDate	=BirthDate
PlaceOfEvent1 /* Birth */	PlaceOfOccurrence

⁴⁸ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
<i>EventTypeCode</i>	= "BIRTH"
MunicipalityName	= CityName
SexGenderDocumentedSex	
SexCode	= SexCode
AssignedIdentifier1 /* Birth Reg Number */	
<i>AssignedIdentifierTypeCode</i>	= "PTBRN"
RegistrationDate	= RegistrationDate
AssignedIdentifier2 /* Birth Cert Num */	
<i>AssignedIdentifierTypeCode</i>	= "PTBCN"
PersonIdentifier	= DocumentIdentifier
IssueDate	= DocumentIssueDate
PersonAllInformation	
AssociatedPerson1 /* Father */	Parent1-Father
<i>AssociatedPersonTypeCode</i>	= "FATHR"
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	= "PRIME"
Surname	= Surname
	GivenNamesListedFormat1
GivenNamesListed	= GivenNamesListed
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryStateName	= ProvinceTerritoryStateName
CountryName	= CountryName
AssociatedPerson2 /* Mother */	Parent2-Mother
<i>AssociatedPersonTypeCode</i>	= "MOTHR"
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	= "PRIME"
Surname	= Surname
	GivenNamesListedFormat1
GivenNamesListed	= GivenNamesListed
PersonName2 /* Prior to First Marriage */	
<i>PersonNameTypeCode</i>	= "PPTFM"
Surname	= SurnamePriorToFirstMarriage
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryStateName	= ProvinceTerritoryStateName

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
CountryName	=CountryName
RetrievalComponent	
IdentityInformation	
AssignedIdentifier1 /* Birth Reg Number */	
AssignedIdentifierTypeCode	= "PTBRN"
PersonIdentifierStatusCode	= "*"
PersonIdentifierStatusReasonCode	= "*"
AssignedIdentifier2 /* Birth Cert Num */	
AssignedIdentifierTypeCode	= "PTBCN"
PersonIdentifierStatusCode	= "*"
PersonIdentifierStatusReasonCode	= "*"
PersonAllInformation	
PersonStatus	
DeathStatusCode	= "*"
LegalChangeOfNameStatusCode	= "*"
ResponseModule	
DataExchangeManagementInformation	DataExchangeManagement (continued)
DataExchangeTypeCode	= "PRSP0101"
SourceFederationMemberCode	=SourceParticipantCode
TargetFederationMemberCode	=TargetParticipantCode
MessagePayloadIdentifier	=ResponseIdentifier
MessagePayloadCreationDateTime	=MsgPayloadCreationDateTime
ResponseValidationAssuranceLevelCode	= "3"
ResponseValidationDisclosureLevelCode	= "1"
ResponseRetrievalAssuranceLevelCode	= "3"
ResponseTypeCode	=ResponseTypeCode
	DataElementMatchResults
IdentityResolutionComponent	
IdentityResolutionIndicatorCode	=RegistrationIdentifierMIC
ValidationComponent	
IdentityInformation	
	Person
PersonName1 /* Foundation */	Name
PersonNameTypeCode	= "FOUND"
RespSurname	
ValidationIndicatorCode	=SurnameMIC

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
	GivenNamesListedFormat1
RespGivenNamesListed	
ValidationIndicatorCode	=GivenNamesListedMIC
DateOfEvent1 /* Birth */	
<i>EventTypeCode</i>	="BIRTH"
RespEventDate	
ValidationIndicatorCode	=BirthDateMIC
PlaceOfEvent1 /* Birth */	PlaceOfOccurrence
<i>EventTypeCode</i>	="BIRTH"
RespMunicipalityName	
ValidationIndicatorCode	=CityNameMIC
SexGenderDocumentedSex	
RespSexCode	
ValidationIndicatorCode	=SexCodeMIC
AssignedIdentifier1 /* Birth Reg Number */	
<i>AssignedIdentifierTypeCode</i>	="PTBRN"
RespRegistrationDate	
ValidationIndicatorCode	=RegistrationDateMIC
AssignedIdentifier2 /* Birth Cert Num */	
<i>AssignedIdentifierTypeCode</i>	="PTBCN"
RespPersonIdentifier	
ValidationIndicatorCode	=DocumentIdentifierMIC
RespIssueDate	
ValidationIndicatorCode	=DocumentIssueDateMIC
PersonAllInformation	
AssociatedPerson1 /* Father */	Parent1-Father
<i>AssociatedPersonTypeCode</i>	="FATHR"
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	="PRIME"
RespSurname	
ValidationIndicatorCode	=SurnameMIC
	GivenNamesListedFormat1
RespGivenNamesListed	
ValidationIndicatorCode	=GivenNamesListedMIC
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	="BIRTH"

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
RespProvinceTerritoryStateName	
ValidationIndicatorCode	=ProvinceTerrStateNameMIC
RespCountryName	
ValidationIndicatorCode	=CountryNameMIC
AssociatedPerson2 /* Mother */	Parent2-Mother
AssociatedPersonTypeCode	="MOTHR"
PersonName1 /* Primary */	Name
PersonNameTypeCode	="PRIME"
RespSurname	
ValidationIndicatorCode	=SurnameMIC
	GivenNamesListedFormat1
RespGivenNamesListed	
ValidationIndicatorCode	=GivenNamesListedMIC
PersonName2 /* Prior to First Marriage */	
PersonNameTypeCode	="PPTFM"
RespSurname	
ValidationIndicatorCode	=SurnamePriorToFirstMarrMIC
PlaceOfEvent1 /* Birth */	BirthPlace
EventTypeCode	="BIRTH"
RespProvinceTerritoryStateName	
ValidationIndicatorCode	=ProvinceTerrStateNameMIC
RespCountryName	
ValidationIndicatorCode	=CountryNameMIC
RetrievalComponent	
	RecordLevelMatchResults
IdentityInformation	
AssignedIdentifier1 /* Birth Reg Number */	
AssignedIdentifierTypeCode	="PTBRN"
RespPersonIdentifierStatusCode	
RetrievalIndicatorCode	="DISC"
PersonIdentifierStatusCode	=BirthVitalEventVC AND
	=BirthVitalEventInfoMIC
<i>Note: The value assigned to this PCIM data element depends on the values assigned to the NRS data elements highlighted in the column to the right.</i>	
RespPersonIdentifierStatusReasonCode	
RetrievalIndicatorCode	="DISC"

<p style="text-align: center;"><u>TARGET</u></p> <p style="text-align: center;">PCIM Information Exchange Specification</p> <p style="text-align: center;">Object Name</p>	<p style="text-align: center;"><u>SOURCE</u></p> <p style="text-align: center;">NRS Data Exchanges Standards</p> <p style="text-align: center;">Object Name</p>
<p style="text-align: center;">PersonIdentifierStatusReasonCode</p> <p><i>Note: The value assigned to this PCIM data element depends on the values assigned to the NRS data elements highlighted in the column to the right.</i></p>	<p style="text-align: center;">=BirthVitalEventVC AND</p> <p style="text-align: center;">=BirthVitalEventInfoMIC</p>
<p style="text-align: center;">AssignedIdentifier2 /* Birth Cert Num */</p>	
<p style="text-align: center;">AssignedIdentifierTypeCode</p>	<p style="text-align: center;">="PTBCN"</p>
<p style="text-align: center;">RespPersonIdentifierStatusCode</p>	
<p style="text-align: center;">RetrievalIndicatorCode</p>	<p style="text-align: center;">="DISC"</p>
<p style="text-align: center;">PersonIdentifierStatusCode</p> <p><i>Note: The value assigned to this PCIM data element depends on the values assigned to the NRS data elements highlighted in the column to the right.</i></p>	<p style="text-align: center;">=BirthCertificateVC AND</p> <p style="text-align: center;">=BirthCertificateInfoMIC AND</p> <p style="text-align: center;">=BirthCertificateInfoValidationMIC</p>
<p style="text-align: center;">RespPersonIdentifierStatusReasonCode</p>	
<p style="text-align: center;">RetrievalIndicatorCode</p>	<p style="text-align: center;">="DISC"</p>
<p style="text-align: center;">PersonIdentifierStatusReasonCode</p> <p><i>Note: The value assigned to this PCIM data element depends on the values assigned to the NRS data elements highlighted in the column to the right.</i></p>	<p style="text-align: center;">=BirthCertificateVC AND</p> <p style="text-align: center;">=BirthCertificateInfoMIC AND</p> <p style="text-align: center;">=BirthCertificateInfoValidationMIC</p>
<p style="text-align: center;">PersonAllInformation</p>	
<p style="text-align: center;">PersonStatus</p>	
<p style="text-align: center;">RespDeathStatusCode</p>	
<p style="text-align: center;">RetrievalIndicatorCode</p>	<p style="text-align: center;">="DISC"</p>
<p style="text-align: center;">DeathStatusCode</p>	<p style="text-align: center;">=DeathIC</p>
<p style="text-align: center;">RespChangeOfLegalNameStatusCode</p>	
<p style="text-align: center;">RetrievalIndicatorCode</p>	<p style="text-align: center;">="DISC"</p>
<p style="text-align: center;">ChangeOfLegalNameStatusCode</p>	<p style="text-align: center;">=LegalNameChangeIC</p>

18.2 Notification

18.2.1 Current NRS usage

Birth vital event notifications and death vital event notifications are sent from the provinces and territories to the Canada Revenue Agency (CRA), Service Canada (SC), and Statistics Canada (STC). In addition, some provinces send death vital event notifications to the province or territory in which the person was born. Stillbirth vital event notifications are sent from the provinces and territories to Statistics Canada only.

Note: Because there is some degree of variability in the set of data elements sent to the relying parties, the birth vital event notification and death vital event notification defined message payloads shown below are a composite superset of all the data elements that are sent.

18.2.2 Birth Vital Event Notification

<u>TARGET</u>	<u>SOURCE</u>
PCIM Information Exchange Specification	NRS Data Exchanges Standards
Object Name	Object Name
PersonBirthVitalEventNotification	BirthVitalEventNotification
DataExchangeManagementInformation	DataExchangeManagement
<i>DataExchangeTypeCode</i>	= "PNTF0101"
SourceFederationMemberCode	=SourceParticipantCode
TargetFederationMemberCode	=TargetParticipantCode
MessagePayloadIdentifier	=ReferenceIdentifier
MessagePayloadCreationDateTime	=ReferenceDateTime
<i>NotificationAssuranceLevelCode</i>	= "3"
VitalEventYear	=YearOfOccurrence
	DataExchangeManagement (<i>continued</i>)
VitalEventNotificationStatusCode	=RecordTypeCode
IdentityResolutionComponent	
IdentityInformation	
<i>AssignedIdentifier1 /* Birth Reg Number */</i>	
<i>AssignedIdentifierTypeCode</i>	= "PTBRN" ⁴⁹
PersonIdentifier	=RegistrationNumber
NotificationComponent	
IdentityInformation	
	Person

⁴⁹ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
PersonName1 /* Foundation */	Name
<i>PersonNameTypeCode</i>	= "FOUND"
Surname	= Surname
GivenNamesListed	GivenNamesListedFormat1 = GivenNamesListed
FirstGivenNameListed	GivenNamesListedFormat2 = FirstGivenNameListed
SecondGivenNameListed	= SecondGivenNameListed
ThirdAddGivenNamesListed	= ThirdAddGivenNamesListed
DateOfEvent1 /* Birth */	
<i>EventTypeCode</i>	= "BIRTH"
EventDate	= BirthDate
PlaceOfEvent1 /* Birth */	PlaceOfOccurrence
<i>EventTypeCode</i>	= "BIRTH"
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
CDCSDCode	= CDCSDCode
SexGenderDocumentedSex	
SexCode	= SexCode
AssignedIdentifier1 /* Birth Reg Number */	
<i>AssignedIdentifierTypeCode</i>	= "PTBRN"
RegistrationDate	= RegistrationDate
PersonalInformation	
BirthVitalEventDetail	
	Person (continued)
BirthWeight	= BirthWeight
BirthLocalityCode	= BirthLocalityCode
AttendantDesignationCode	= AttendantDesignationCode
LivebornPlusStillbornInThisVitalEvent	= LivebornPlusStillbornQuantity
StillbornInThisVitalEvent	= StillbornQuantity
BirthOrderCode	= BirthOrderCode
PregnancyDuration	= PregnancyDuration
ParentsMarriedToEachOtherCode	= ParentsMarriedToEachOtherCode
	Parent2-Mother
TotalLivebornByThisMother	= TotalEverLivebornQuantity

<u>TARGET</u>	<u>SOURCE</u>
PCIM Information Exchange Specification	NRS Data Exchanges Standards
Object Name	Object Name
TotalStillbornByThisMother	=TotalEverStillbornQuantity
AssociatedPerson1 /* Father */	Parent1-Father
AssociatedPersonTypeCode	= "FATHR"
PersonName1 /* Primary */	Name
PersonNameTypeCode	= "PRIME"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
DateOfEvent1 /* Birth */	
EventTypeCode	= "BIRTH"
EventDate	=BirthDate
PlaceOfEvent1 /* Birth */	BirthPlace
EventTypeCode	= "BIRTH"
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
PersonAge	
Age	=Age
AssociatedPerson2 /* Mother */	Parent2-Mother (continued)
AssociatedPersonTypeCode	= "MOTHR"
PersonName1 /* Primary */	Name
PersonNameTypeCode	= "PRIME"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
PersonName2 /* Prior to First Marriage */	
PersonNameTypeCode	= "PPTFM"
Surname	=SurnamePriorToFirstMarriage
DateOfEvent1 /* Birth */	

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
<i>EventTypeCode</i>	= "BIRTH"
EventDate	= BirthDate
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
AssignedIdentifier1 /* SIN */	
<i>AssignedIdentifierTypeCode</i>	= "CASIN"
PersonIdentifier	= SIN
PersonStatus	
MaritalStatusCode	= MaritalStatusCode
Address1 /* Usual Residence */	UsualResidence
<i>AddressTypeCode</i>	= "PRSD"
	StreetAddressFormat1
StreetAddress	= StreetAddress
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
PostalCode	= Postal Code
CDCSDCode	= CDCSDCode
Address2 /* Mailing Address */	MailingAddress
<i>AddressTypeCode</i>	= "MADD"
	StreetAddressFormat1
StreetAddress	= StreetAddress
	StreetAddressFormat2
StreetAddressLine1	= StreetAddressLine1
StreetAddressLine2	= StreetAddressLine2
	StreetAddressFormat3
UnitSpecification	= ApartmentNumber
CivicNumber	= StreetNumber
StreetName	= StreetName
RuralRoute	= DeliveryMode
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
PostalCode	= Postal Code

TARGET PCIM Information Exchange Specification Object Name	SOURCE NRS Data Exchanges Standards Object Name
PersonAge	
Age	=Age
ContactDetail	
LanguageOfCorrespondenceCode	=LanguageOfCorrespondenceCode
TelephoneNumberPrimary	=TelephoneNumberPrimary
TelephoneNumberSecondary	=TelephoneNumberSecondary

18.2.3 Death Vital Event Notification

TARGET PCIM Information Exchange Specification Object Name	SOURCE NRS Data Exchanges Standards Object Name
PersonDeathVitalEventNotification	DeathVitalEventNotification
DataExchangeManagementInformation	DataExchangeManagement
<i>DataExchangeTypeCode</i>	= "PNTF0201"
SourceFederationMemberCode	=SourceParticipantCode
TargetFederationMemberCode	=TargetParticipantCode
MessagePayloadIdentifier	=ReferenceIdentifier
MessagePayloadCreationDateTime	=ReferenceDateTime
<i>NotificationAssuranceLevelCode</i>	= "3"
VitalEventYear	=YearOfOccurrence
	DataExchangeManagement (<i>continued</i>)
VitalEventNotificationStatusCode	=RecordTypeCode
IdentityResolutionComponent	
IdentityInformation	
<i>AssignedIdentifier1 /* Death Reg Number */</i>	
<i>AssignedIdentifierTypeCode</i>	= "PTDRN" ⁵⁰
PersonIdentifier	=RegistrationNumber
NotificationComponent	
IdentityInformation	
	Person
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	= "PRIME"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
PersonName2 /* Prior to First Marriage */	
<i>PersonNameTypeCode</i>	= "PPTFM"
Surname	=SurnamePriorToFirstMarriage
DateOfEvent1 /* Birth */	

⁵⁰ The PT (as in PTDRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
<i>EventTypeCode</i>	= "BIRTH"
EventDate	= BirthDate
DateOfEvent2 /* Death */	
<i>EventTypeCode</i>	= "DEATH"
EventDate	= DeathDate
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
PlaceOfEvent2 /* Death */	PlaceOfOccurrence
<i>EventTypeCode</i>	= "DEATH"
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
CDCSDCode	= CDCSDCode
SexGenderDocumentedSex	
Sex Code	= SexCode
AssignedIdentifier1 /* Death Reg Number */	
<i>AssignedIdentifierTypeCode</i>	= "PTDRN"
RegistrationDate	= RegistrationDate
	Person (<i>continued</i>)
AssignedIdentifier2 /* SIN */	
<i>AssignedIdentifierTypeCode</i>	= "CASIN"
PersonIdentifier	= SIN
PersonalInformation	
	Person (<i>continued</i>)
PersonStatus	
MaritalStatusCode	= MaritalStatusCode
Address1 /* Usual Residence */	UsualResidence
<i>AddressTypeCode</i>	= "PRSD"
	StreetAddressFormat1
StreetAddress	= StreetAddress
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
PostalCode	=Postal Code
CDCSDCode	=CDCSDCode
PersonAge	
Age	=Age
TimeUnitsCode	=AgeTimeUnitsCode
DeathVitalEventDetail	
DeathLocalityCode	=DeathLocalityCode
InjuryLocalityCode	=InjuryLocalityCode
CertifierDesignationCode	=CertifierDesignationCode
UnderlyingCauseOfDeathCode	=UnderlyingCauseOfDeathCode
AutopsyPerformedCode	=AutopsyPerformedCode
AutopsyFindingsUsedInUCDCCode	=AutopsyFindingsUsedCode
FurtherInformationExpectedOnUCDCCode	=FurtherInformationExpectedCode
DispositionOfBodyCode	=DispositionOfBodyCode
AssociatedPerson1 /* Spouse */	Spouse
AssociatedPersonTypeCode	="SPOSE"
PersonName1 /* Primary */	Name
PersonNameTypeCode	="PRIME"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
PersonName2 /* Prior to First Marriage */	
PersonNameTypeCode	="PPTFM"
Surname	=SurnamePriorToFirstMarriage
SexGenderDocumentedSex	
Sex Code	=SexCode
AssociatedPerson2 /* Father */	Parent1-Father
AssociatedPersonTypeCode	="FATHR"
PersonName1 /* Primary */	Name
PersonNameTypeCode	="PRIME"
Surname	=Surname
	GivenNamesListedFormat1

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
AssociatedPerson3 /* Mother */	Parent2-Mother
<i>AssociatedPersonTypeCode</i>	= "MOTHR"
PersonName1 /* Primary */	Name
<i>PersonNameTypeCode</i>	= "PRIME"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
PersonName2 /* Prior to First Marriage */	
<i>PersonNameTypeCode</i>	= "PPTFM"
Surname	=SurnamePriorToFirstMarriage
PlaceOfEvent1 /* Birth */	BirthPlace
<i>EventTypeCode</i>	= "BIRTH"
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode

18.2.4 Stillbirth Vital Event Notification

TARGET PCIM Information Exchange Specification Object Name	SOURCE NRS Data Exchanges Standards Object Name
PersonStillbirthVitalEventNotification	StillbirthVitalEventNotification
DataExchangeManagementInformation	DataExchangeManagement
<i>DataExchangeTypeCode</i>	= "PNTF0301"
SourceFederationMemberCode	=SourceParticipantCode
TargetFederationMemberCode	=TargetParticipantCode
MessagePayloadIdentifier	=ReferenceIdentifier
MessagePayloadCreationDateTime	=ReferenceDateTime
<i>NotificationAssuranceLevelCode</i>	= "3"
VitalEventYear	=YearOfOccurrence
	DataExchangeManagement (<i>continued</i>)
VitalEventNotificationStatusCode	=RecordTypeCode
IdentityResolutionComponent	
IdentityInformation	
<i>AssignedIdentifier1 /* Stillbirth Reg Number */</i>	
<i>AssignedIdentifierTypeCode</i>	= "PTSRN" ⁵¹
PersonIdentifier	=RegistrationNumber
NotificationComponent	
IdentityInformation	
	Person
<i>PersonName1 /* Foundation */</i>	Name
<i>PersonNameTypeCode</i>	= "FOUND"
Surname	=Surname
	GivenNamesListedFormat1
GivenNamesListed	=GivenNamesListed
	GivenNamesListedFormat2
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
SexGenderDocumentedSex	
SexCode	=SexCode
<i>AssignedIdentifier1 /* Stillbirth Reg Number */</i>	
<i>AssignedIdentifierTypeCode</i>	= "PTSRN"

⁵¹ The PT (as in PTSRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u>	<u>SOURCE</u>
PCIM Information Exchange Specification	NRS Data Exchanges Standards
Object Name	Object Name
RegistrationDate	=RegistrationDate
PersonAllInformation	
	Person (<i>continued</i>)
DateOfEvent1 /* Stillbirth */	
EventTypeCode	= "STBIR"
EventDate	= StillbirthDate
PlaceOfEvent1 /* Stillbirth */	PlaceOfOccurrence
EventTypeCode	= "STBIR"
MunicipalityName	= CityName
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
CDCSDCode	= CDCSDCode
StillbirthVitalEventDetail	
	Person (<i>continued</i>)
BirthWeight	= BirthWeight
StillbirthLocalityCode	= StillbirthLocalityCode
AttendantDesignationCode	= AttendantDesignationCode
LivebornPlusStillbornInThisVitalEvent	= LivebornPlusStillbornQuantity
StillbornInThisVitalEvent	= StillbornQuantity
BirthOrderCode	= BirthOrderCode
LabourInducedCode	= LabourInducedCode
DeathOfFoetusBeforeLabourCode	= DeathOfFoetusBeforeLabourCode
DeathOfFoetusBeforeOpProcsCode	= DeathOfFoetusBeforeOpProcsCode
DeathOfFoetusDuringLabourCode	= DeathOfFoetusDuringLabourCode
UnderlyingCauseOfStillbirthCode	= UnderlyingCauseOfStillbirthCode
AutopsyPerformedCode	= AutopsyPerformedCode
AutopsyFindingsUsedInUCSCode	= AutopsyFindingsUsedCode
FurtherInformationExpectedOnUCSCode	= FurtherInformationExpectedCode
DispositionOfBodyCode	= DispositionOfBodyCode
PregnancyDuration	= PregnancyDuration
ParentsMarriedToEachOtherCode	= ParentsMarriedToEachOtherCode
	Parent2-Mother
TotalLivebornByThisMother	= TotalEverLivebornQuantity
TotalStillbornByThisMother	= TotalEverStillbornQuantity
AssociatedPerson1 /* Father */	Parent1-Father
AssociatedPersonTypeCode	= "FATHR"

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
PersonName1 /* Primary */	Name
PersonNameTypeCode	= "PRIME"
Surname	= Surname
GivenNamesListed	GivenNamesListedFormat1 = GivenNamesListed
FirstGivenNameListed	GivenNamesListedFormat2 = FirstGivenNameListed
SecondGivenNameListed	= SecondGivenNameListed
ThirdAddGivenNamesListed	= ThirdAddGivenNamesListed
DateOfEvent1 /* Birth */	
EventTypeCode	= "BIRTH"
EventDate	= BirthDate
PlaceOfEvent1 /* Birth */	BirthPlace
EventTypeCode	= "BIRTH"
ProvinceTerritoryCode	= ProvinceTerritoryCode
CountryCode	= CountryCode
PersonAge	
Age	= Age
AssociatedPerson2 /* Mother */	Parent2-Mother (continued)
AssociatedPersonTypeCode	= "MOTHR"
PersonName1 /* Primary */	Name
PersonNameTypeCode	= "PRIME"
Surname	= Surname
GivenNamesListed	GivenNamesListedFormat1 = GivenNamesListed
FirstGivenNameListed	GivenNamesListedFormat2 = FirstGivenNameListed
SecondGivenNameListed	= SecondGivenNameListed
ThirdAddGivenNamesListed	= ThirdAddGivenNamesListed
PersonName2 /* Prior to First Marriage */	
PersonNameTypeCode	= "PPTFM"
Surname	= SurnamePriorToFirstMarriage
DateOfEvent1 /* Birth */	
EventTypeCode	= "BIRTH"
EventDate	= BirthDate
PlaceOfEvent1 /* Birth */	BirthPlace

<u>TARGET</u> PCIM Information Exchange Specification Object Name	<u>SOURCE</u> NRS Data Exchanges Standards Object Name
<i>EventTypeCode</i>	="BIRTH"
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
PersonStatus	
MaritalStatusCode	=MaritalStatusCode
Address1 /* Usual Residence */	UsualResidence
<i>AddressTypeCode</i>	="PRSD"
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
PostalCode	=Postal Code
CDCSDCode	=CDCSDCode
PersonAge	
Age	=Age

19 APPENDIX D: PCIM TO NRS CONCORDANCE

What follows are the data element equivalencies between the PCIM defined message payloads (see Appendix B) and the NRS defined message payloads (as detailed in the *NRS Data Exchanges Standards* document). It is important to note that this concordance shows the logical equivalencies at the structural level – it is possible that the format and codeset of a PCIM data element may be different from the format and codeset of the equivalent NRS data element specification.

Note: PCIM data elements that appear in *italics* followed by a value in parentheses indicate which instance of a PCIM personal information category is the appropriate one to use.

19.1 Validation/Retrieval

19.1.1 Current NRS usage

Birth certificate information validation/retrieval requests and responses are exchanged between Service Canada (SC) and the provinces and territories.

19.1.2 Birth Certificate Information Validation/Retrieval Request

TARGET NRS Data Exchanges Standards Object Name	SOURCE PCIM Information Exchange Specification Object Name
BirthCertInfoValidationRequest	PersonBirthCertificateInformationVRRequest RequestModule
DataExchangeManagement	DataExchangeManagementInformation <i>DataExchangeTypeCode</i> (= "PREQ0101")
SourceParticipantCode	=SourceFederationMemberCode
TargetParticipantCode	=TargetFederationMemberCode
CaseReferenceIdentifier	=CaseReferenceIdentifier
RequestIdentifier	=MessagePayloadIdentifier
MsgPayloadCreationDateTime	=MessagePayloadCreationDateTime
PriorityCode	=RequestPriorityCode
AdjudicationRequestedCode	=AdjudicationRequestedCode
	IdentityResolutionComponent IdentityInformation
	<i>AssignedIdentifier1</i> /* <i>Birth Reg Number</i> */
	<i>AssignedIdentifierTypeCode</i> (= "PTBRN" ⁵²)

⁵² The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
RegistrationIdentifier	=PersonIdentifier
	ValidationComponent
	IdentityInformation
	AssignedIdentifier1 /* Birth Reg Number */ AssignedIdentifierTypeCode (= "PTBRN")
RegistrationDate	=RegistrationDate
	AssignedIdentifier2 /* Birth Cert Num */ AssignedIdentifierTypeCode (= "PTBCN")
DocumentIdentifier	=PersonIdentifier
DocumentIssueDate	=IssueDate
PlaceOfOccurrence	PlaceOfEvent1 /* Birth */ EventTypeCode (= "BIRTH")
CityName	=MunicipalityName
Person	
Name	PersonName1 /* Foundation */ PersonNameTypeCode (= "FOUND")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
	DateOfEvent1 /* Birth */ EventTypeCode (= "BIRTH")
BirthDate	=EventDate
	SexGenderDocumentedSex
SexCode	=SexCode
	PersonallInformation
Parent1-Father	AssociatedPerson1 /* Father */ AssociatedPersonTypeCode (= "FATHR")
Name	PersonName1 /* Primary */ PersonNameTypeCode (= "PRIME")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
BirthPlace	PlaceOfEvent1 /* Birth */ EventTypeCode (= "BIRTH")
ProvinceTerritoryStateName	=ProvinceTerritoryStateName
CountryName	=CountryName

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
Parent2-Mother	AssociatedPerson2 /* Mother */
	AssociatedPersonTypeCode (= "MOTHR")
Name	PersonName1 /* Primary */
	PersonNameTypeCode (= "PRIME")
Surname	=Surname
	PersonName2 /* Prior to First Marriage */
	PersonNameTypeCode (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (continued)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
BirthPlace	PlaceOfEvent1 /* Birth */
	EventTypeCode (= "BIRTH")
ProvinceTerritoryStateName	=ProvinceTerritoryStateName
CountryName	=CountryName

19.1.3 Birth Certificate Information Validation/Retrieval Response

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
BirthCertInfoValidationResponse	PersonBirthCertificateInformationVRRResponse
	ResponseModule
DataExchangeManagement	DataExchangeManagementInformation
	<i>DataExchangeTypeCode</i> (= "PRSP0101")
SourceParticipantCode	=SourceFederationMemberCode
TargetParticipantCode	=TargetFederationMemberCode
	RequestModule
	DataExchangeManagementInformation
	<i>DataExchangeTypeCode</i> (= "PREQ0101")
CaseReferenceIdentifier	=CaseReferenceIdentifier
RequestIdentifier	=MessagePayloadIdentifier
	ResponseModule (<i>continued</i>)
	DataExchangeManagementInformation
MsgPayloadCreationDateTime	=MessagePayloadCreationDateTime
	RequestModule (<i>continued</i>)
	DataExchangeManagementInformation
PriorityCode	=RequestPriorityCode
AdjudicationRequestedCode	=AdjudicationRequestedCode
	ResponseModule (<i>continued</i>)
	DataExchangeManagementInformation
ResponseIdentifier	=MessagePayloadIdentifier
ResponseTypeCode	=ResponseTypeCode
	RequestModule (<i>continued</i>)
	IdentityResolutionComponent
	IdentityInformation
	AssignedIdentifier1 /* Birth Reg Number */ / <i>AssignedIdentifierTypeCode</i> (= "PTBRN" ⁵³)
RegistrationIdentifier	=PersonIdentifier
	ValidationComponent
	IdentityInformation
	AssignedIdentifier1 /* Birth Reg Number */ /

⁵³ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u>	<u>SOURCE</u>
NRS Data Exchanges Standards	PCIM Information Exchange Specification
Object Name	Object Name
	<i>AssignedIdentifierTypeCode</i> (= "PTBRN")
RegistrationDate	=RegistrationDate
	<i>AssignedIdentifier2</i> /* Birth Cert Num */
DocumentIdentifier	<i>AssignedIdentifierTypeCode</i> (= "PTBCN") =PersonIdentifier
DocumentIssueDate	=IssueDate
PlaceOfOccurrence	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
CityName	=MunicipalityName
Person	
Name	PersonName1 /* Foundation */
	<i>PersonNameTypeCode</i> (= "FOUND")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	GivenNamesListed
	DateOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
BirthDate	=EventDate
	SexGenderDocumentedSex
SexCode	=SexCode
	PersonalInformation
Parent1-Father	AssociatedPerson1 /* Father */
	<i>AssociatedPersonTypeCode</i> (= "FATHR")
Name	PersonName1 /* Primary */
	<i>PersonNameTypeCode</i> (= "PRIME")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
ProvinceTerritoryStateName	=ProvinceTerritoryStateName
CountryName	=CountryName
Parent2-Mother	AssociatedPerson2 /* Mother */
	<i>AssociatedPersonTypeCode</i> (= "MOTHR")
Name	PersonName1 /* Primary */
	<i>PersonNameTypeCode</i> (= "PRIME")

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
Surname	=Surname
	PersonName2 /* Prior to First Marriage */ PersonNameTypeCode (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (continued)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
BirthPlace	PlaceOfEvent1 /* Birth */ EventTypeCode (= "BIRTH")
ProvinceTerritoryStateName	=ProvinceTerritoryStateName
CountryName	=CountryName
	ResponseModule (continued)
DataElementMatchResults	
	IdentityResolutionComponent
RegistrationIdentifierMIC	=IdentityResolutionIndicatorCode
	ValidationComponent
	IdentityInformation
	AssignedIdentifier1 /* Birth Reg Number */ AssignedIdentifierTypeCode (= "PTBRN")
	RespRegistrationDate
RegistrationDateMIC	=ValidationIndicatorCode
	AssignedIdentifier2 /* Birth Cert Num */ AssignedIdentifierTypeCode (= "PTBCN")
	RespPersonIdentifier
DocumentIdentifierMIC	=ValidationIndicatorCode
	RespIssueDate
DocumentIssueDateMIC	=ValidationIndicatorCode
PlaceOfOccurrence	PlaceOfEvent1 /* Birth */ EventTypeCode (= "BIRTH")
	RespMunicipalityName
CityNameMIC	=ValidationIndicatorCode
Person	
Name	PersonName1 /* Foundation */ PersonNameTypeCode (= "FOUND")
	RespSurname
SurnameMIC	=ValidationIndicatorCode

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
GivenNamesListedFormat1	
	RespGivenNamesListed
GivenNamesListedMIC	=ValidationIndicatorCode
	DateOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
	RespEventDate
BirthDateMIC	=ValidationIndicatorCode
	SexGenderDocumentedSex
	RespSexCode
SexCodeMIC	=ValidationIndicatorCode
	PersonalInformation
Parent1-Father	AssociatedPerson1 /* Father */
	<i>AssociatedPersonTypeCode</i> (= "FATHR")
Name	PersonName1 /* Primary */
	<i>PersonNameTypeCode</i> (= "PRIME")
	RespSurname
SurnameMIC	=ValidationIndicatorCode
GivenNamesListedFormat1	
	RespGivenNamesListed
GivenNamesListedMIC	=ValidationIndicatorCode
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
	RespProvinceTerritoryStateName
ProvinceTerrStateNameMIC	=ValidationIndicatorCode
	RespCountryName
CountryNameMIC	=ValidationIndicatorCode
Parent2-Mother	AssociatedPerson2 /* Mother */
	<i>AssociatedPersonTypeCode</i> (= "MOTHR")
Name	PersonName1 /* Primary */
	<i>PersonNameTypeCode</i> (= "PRIME")
	RespSurname
SurnameMIC	=ValidationIndicatorCode
	PersonName2 /* Prior to First Marriage */
	<i>PersonNameTypeCode</i> (= "PPTFM")
	RespSurname
SurnamePriorToFirstMarrMIC	=ValidationIndicatorCode

<u>TARGET</u>	<u>SOURCE</u>
NRS Data Exchanges Standards	PCIM Information Exchange Specification
Object Name	Object Name
	PersonName1 (<i>continued</i>)
GivenNamesListedFormat1	
	RespGivenNamesListed
GivenNamesListedMIC	=ValidationIndicatorCode
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
	RespProvinceTerritoryStateName
ProvinceTerrStateNameMIC	=ValidationIndicatorCode
	RespCountryName
CountryNameMIC	=ValidationIndicatorCode
RecordLevelMatchResults	
	RetrievalComponent
	PersonalInformation
	PersonStatus
	RespDeathStatusCode
DeathIC	=RetrievalIndicatorCode AND
	=DeathStatusCode
<i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	
	RespChangeOfLegalNameStatusCode
LegalNameChangeIC	=RetrievalIndicatorCode AND
	=ChangeOfLegalNameStatusCode
<i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	
BirthVitalEventVC	IdentityResolutionComponent (<i>continued</i>)
	=IdentityResolutionIndicatorCode AND
<i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	
	RetrievalComponent (<i>continued</i>)
	IdentityInformation
	AssignedIdentifier1 /* Birth Reg Number */
	<i>AssignedIdentifierTypeCode</i> (= "PTBRN")
	RespPersonIdentifierStatusCode
	=RetrievalIndicatorCode AND
	=PersonIdentifierStatusCode AND
	RespPersonIdentifierStatusReasonCode
	=RetrievalIndicatorCode AND

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
BirthVitalEventInfoMIC <i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	=PersonIdentifierStatusReasonCode ValidationComponent (<i>continued</i>) IdentityInformation PlaceOfEvent1 /* Birth */ EventActionCode (= "BIRTH") RespMunicipalityName =ValidationIndicatorCode AND PersonName1 /* Foundation */ PersonNameTypeCode (= "FOUND") RespSurname =ValidationIndicatorCode AND RespGivenNamesListed =ValidationIndicatorCode AND DateOfEvent1 /* Birth */ EventActionCode (= "BIRTH") RespEventDate =ValidationIndicatorCode AND SexGenderDocumentedSex RespSexCode =ValidationIndicatorCode
BirthCertificateVC <i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	IdentityResolutionComponent (<i>continued</i>) =IdentityResolutionIndicatorCode AND ValidationComponent (<i>continued</i>) IdentityInformation AssignedIdentifier2 /* Birth Cert Num */ AssignedIdentifierTypeCode (= "PTBCN") RespPersonIdentifier =ValidationIndicatorCode AND RetrievalComponent (<i>continued</i>) IdentityInformation AssignedIdentifier2 /* Birth Cert Num */ AssignedIdentifierTypeCode (= "PTBCN") RespPersonIdentifierStatusCode =RetrievalIndicatorCode AND =PersonIdentifierStatusCode AND RespPersonIdentifierStatusReasonCode

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
	=RetrievalIndicatorCode AND
	=PersonIdentifierStatusReasonCode
BirthCertificateInfoMIC <i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	ValidationComponent (<i>continued</i>)
	IdentityInformation
	AssignedIdentifier2 /* Birth Cert Num */
	AssignedIdentifierTypeCode (= "PTBCN")
	RespPersonIdentifier
	=ValidationIndicatorCode AND
	RespIssueDate
	=ValidationIndicatorCode AND
	RetrievalComponent (<i>continued</i>)
	IdentityInformation
	AssignedIdentifier2 /* Birth Cert Num */
	AssignedIdentifierTypeCode (= "PTBCN")
	RespPersonIdentifierStatusCode
	=RetrievalIndicatorCode AND
	=PersonIdentifierStatusCode AND
	RespPersonIdentifierStatusReasonCode
	=RetrievalIndicatorCode AND
	=PersonIdentifierStatusReasonCode
BirthCertificateInfoValidationMIC <i>Note: The value assigned to this NRS data element depends on the values assigned to the PCIM data elements highlighted in the column to the right.</i>	ValidationComponent (<i>continued</i>)
	IdentityInformation
	AssignedIdentifier2 /* Birth Cert Num */
	AssignedIdentifierTypeCode (= "PTBCN")
	RespPersonIdentifier
	=ValidationIndicatorCode AND
	RespIssueDate
	=ValidationIndicatorCode

19.2 Notification

19.2.1 Current NRS usage

Birth vital event notifications and death vital event notifications are sent from the provinces and territories to the Canada Revenue Agency (CRA), Service Canada (SC), and Statistics Canada (STC). In addition, some provinces send death vital event notifications to the province or territory in which the person was born. Stillbirth vital event notifications are sent from the provinces and territories to Statistics Canada only.

Note: Because there is some degree of variability in the set of data elements sent to the relying parties, the birth vital event notification and death vital event notification defined message payloads shown below are a composite superset of all the data elements that are sent.

19.2.2 Birth Vital Event Notification

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
BirthVitalEventNotification	PersonBirthVitalEventNotification
DataExchangeManagement	DataExchangeManagementInformation
	<i>DataExchangeTypeCode</i> ("PNTF0101")
SourceParticipantCode	=SourceFederationMemberCode
TargetParticipantCode	=TargetFederationMemberCode
ReferenceIdentifier	=MessagePayloadIdentifier
ReferenceDateTime	=MessagePayloadCreationDateTime
RecordTypeCode	=VitalEventNotificationStatusCode
YearOfOccurrence	=VitalEventYear
	IdentityResolutionComponent
	IdentityInformation
	<i>AssignedIdentifier1</i> /* Birth Reg Number */ / <i>AssignedIdentifierTypeCode</i> ("PTBRN" ⁵⁴)
RegistrationNumber	=PersonIdentifier
	NotificationComponent
	IdentityInformation
	<i>AssignedIdentifier1</i> /* Birth Reg Number */ / <i>AssignedIdentifierTypeCode</i> ("PTBRN")
RegistrationDate	=RegistrationDate

⁵⁴ The PT (as in PTBRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
PlaceOfOccurrence	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
CityName	=MunicipalityName
CDCSDCode	=CDCSDCode
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
	PersonalInformation
	BirthVitalEventDetail
BirthLocalityCode	=BirthLocalityCode
AttendantDesignationCode	=AttendantDesignationCode
LivebornPlusStillbornQuantity	=LivebornPlusStillbornInThisVitalEvent
StillbornQuantity	=StillbornInThisVitalEvent
BirthOrderCode	=BirthOrderCode
PregnancyDuration	=PregnancyDuration
ParentsMarriedToEachOtherCode	=ParentsMarriedToEachOtherCode
	IdentityInformation (<i>continued</i>)
Person	
Name	PersonName1 /* Foundation */
	<i>PersonNameTypeCode</i> (= "FOUND")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	DateOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
BirthDate	=EventDate
	SexGenderDocumentedSex
SexCode	=SexCode
	PersonalInformation (<i>continued</i>)
	BirthVitalEventDetail (<i>continued</i>)
BirthWeight	=BirthWeight
Parent1-Father	AssociatedPerson1 /* Father */
	<i>AssociatedPersonTypeCode</i> (= "FATHR")

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
Name	PersonName1 /* Primary */
	PersonNameTypeCode (= "PRIME")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	DateOfEvent1 /* Birth */
	EventTypeCode (= "BIRTH")
BirthDate	=EventDate
	PersonAge
Age	=Age
BirthPlace	PlaceOfEvent1 /* Birth */
	EventTypeCode (= "BIRTH")
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
Parent2-Mother	AssociatedPerson2 /* Mother */
	AssociatedPersonTypeCode (= "MOTHR")
Name	PersonName1 /* Primary */
	PersonNameTypeCode (= "PRIME")
Surname	=Surname
	PersonName2 /* Prior to First Marriage */
	PersonNameTypeCode (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (continued)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	DateOfEvent1 /* Birth */
	EventTypeCode (= "BIRTH")
BirthDate	=EventDate

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
	PersonAge
Age	=Age
	PersonStatus
MaritalStatusCode	=MaritalStatusCode
	AssignedIdentifier1 /* SIN */
	<i>AssignedIdentifierTypeCode (= "CASIN")</i>
SIN	=PersonIdentifier
	ContactDetail
TelephoneNumberPrimary	=TelephoneNumberPrimary
TelephoneNumberSecondary	=TelephoneNumberSecondary
LanguageOfCorrespondenceCode	=LanguageOfCorrespondenceCode
	BirthVitalEventDetail (<i>continued</i>)
TotalEverLivebornQuantity	=TotalLivebornByThisMother
TotalEverStillbornQuantity	=TotalStillbornByThisMother
	AssociatedPerson2 (<i>continued</i>)
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode (= "BIRTH")</i>
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
UsualResidence	Address1 /* Usual Residence */
	<i>AddressTypeCode (= "PRSD")</i>
StreetAddressFormat1	
StreetAddress	=StreetAddress
Postal Code	=PostalCode
CityName	=MunicipalityName
CDCSDCode	=CDCSDCode
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
MailingAddress	Address2 /* Mailing Address */
	<i>AddressTypeCode (= "MADD")</i>
StreetAddressFormat1	
StreetAddress	=StreetAddress
StreetAddressFormat2	
StreetAddressLine1	=StreetAddressLine1
StreetAddressLine2	=StreetAddressLine2
StreetAddressFormat3	

TARGET NRS Data Exchanges Standards Object Name	SOURCE PCIM Information Exchange Specification Object Name
StreetNumber	=CivicNumber
StreetName	=StreetName
ApartmentNumber	=UnitSpecification
DeliveryMode	=RuralRoute
Postal Code	=PostalCode
CityName	=MunicipalityName
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode

19.2.3 Death Vital Event Notification

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
DeathVitalEventNotification	PersonDeathVitalEventNotification
DataExchangeManagement	DataExchangeManagementInformation <i>DataExchangeTypeCode</i> (= "PNTF0201")
SourceParticipantCode	=SourceFederationMemberCode
TargetParticipantCode	=TargetFederationMemberCode
ReferenceIdentifier	=MessagePayloadIdentifier
ReferenceDateTime	=MessagePayloadCreationDateTime
RecordTypeCode	=VitalEventNotificationStatusCode
YearOfOccurrence	=VitalEventYear
	IdentityResolutionComponent
	IdentityInformation
	AssignedIdentifier1 /* Death Reg Number */ <i>AssignedIdentifierTypeCode</i> (= "PTDRN" ⁵⁵)
RegistrationNumber	=PersonIdentifier
	NotificationComponent
	IdentityInformation
	AssignedIdentifier1 /* Death Reg Number */ <i>AssignedIdentifierTypeCode</i> (= "PTDRN")
RegistrationDate	=RegistrationDate
PlaceOfOccurrence	PlaceOfEvent2 /* Death */ <i>EventTypeCode</i> (= "DEATH")
CityName	=MunicipalityName
CDCSDCode	=CDCSDCode
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
	PersonalInformation
	DeathVitalEventDetail
DeathLocalityCode	=DeathLocalityCode
InjuryLocalityCode	=InjuryLocalityCode
CertifierDesignationCode	=CertifierDesignationCode
UnderlyingCauseOfDeathCode	=UnderlyingCauseOfDeathCode
AutopsyPerformedCode	=AutopsyPerformedCode

⁵⁵ The PT (as in PTDRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u>	<u>SOURCE</u>
NRS Data Exchanges Standards	PCIM Information Exchange Specification
Object Name	Object Name
AutopsyFindingsUsedCode	=AutopsyFindingsUsedInUCDCCode
FurtherInformationExpectedCode	=FurtherInformationExpectedOnUCDCCode
DispositionOfBodyCode	=DispositionOfBodyCode
	IdentityInformation (<i>continued</i>)
Person	
Name	PersonName1 /* Primary */ PersonNameTypeCode (= "PRIME")
Surname	=Surname
	PersonName2 /* Prior to First Marriage */ PersonNameTypeCode (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (<i>continued</i>)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	DateOfEvent1 /* Birth */ EventTypeCode (= "BIRTH")
BirthDate	=EventDate
	DateOfEvent2 /* Death */ EventTypeCode (= "DEATH")
DeathDate	=EventDate
	PersonalInformation (<i>continued</i>)
	PersonAge
Age	=Age
AgeTimeUnitsCode	=TimeUnitsCode
	IdentityInformation (<i>continued</i>)
	SexGenderDocumentedSex
SexCode	=Sex Code
	PersonalInformation (<i>continued</i>)
	PersonStatus
MaritalStatusCode	=MaritalStatusCode
	IdentityInformation (<i>continued</i>)
	AssignedIdentifier2 /* SIN */

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
	<i>AssignedIdentifierTypeCode</i> (= "CASIN")
SIN	=PersonIdentifier
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
CityName	=MunicipalityName
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
	PersonAllInformation (<i>continued</i>)
UsualResidence	Address1 /* Usual Residence */
	<i>AddressTypeCode</i> (= "PRSD")
StreetAddressFormat1	
StreetAddress	=StreetAddress
Postal Code	=PostalCode
CityName	=MunicipalityName
CDCSDCode	=CDCSDCode
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
Spouse	AssociatedPerson1 /* Spouse */
	<i>AssociatedPersonTypeCode</i> (= "SPOSE")
Name	PersonName1 /* Primary */
	<i>PersonNameTypeCode</i> (= "PRIME")
Surname	=Surname
	PersonName2 /* Prior to First Marriage */
	<i>PersonNameTypeCode</i> (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (<i>continued</i>)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	SexGenderDocumentedSex
SexCode	=Sex Code
Parent1-Father	AssociatedPerson2 /* Father */
	<i>AssociatedPersonTypeCode</i> (= "FATHR")

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
Name	PersonName1 /* Primary */
	PersonNameTypeCode (= "PRIME")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
BirthPlace	PlaceOfEvent1 /* Birth */
	EventTypeCode (= "BIRTH")
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
Parent2-Mother	AssociatedPerson3 /* Mother */
	AssociatedPersonTypeCode (= "MOTHR")
Name	PersonName1 /* Primary */
	PersonNameTypeCode (= "PRIME")
Surname	=Surname
	PersonName2 /* Prior to First Marriage */
	PersonNameTypeCode (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (continued)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
BirthPlace	PlaceOfEvent1 /* Birth */
	EventTypeCode (= "BIRTH")
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode

19.2.4 Stillbirth Vital Event Notification

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
StillbirthVitalEventNotification	PersonStillbirthVitalEventNotification
DataExchangeManagement	DataExchangeManagementInformation <i>DataExchangeTypeCode</i> (= "PNTF0301")
SourceParticipantCode	=SourceFederationMemberCode
TargetParticipantCode	=TargetFederationMemberCode
ReferenceIdentifier	=MessagePayloadIdentifier
ReferenceDateTime	=MessagePayloadCreationDateTime
RecordTypeCode	=VitalEventNotificationStatusCode
YearOfOccurrence	=VitalEventYear
	IdentityResolutionComponent
	IdentityInformation
	AssignedIdentifier1 /* Stillbirth Reg Num */ <i>AssignedIdentifierTypeCode</i> (= "PTSRN" ⁵⁶)
RegistrationNumber	=PersonIdentifier
	NotificationComponent
	IdentityInformation
	AssignedIdentifier1 /* Stillbirth Reg Num */ <i>AssignedIdentifierTypeCode</i> (= "PTSRN")
RegistrationDate	=RegistrationDate
	PersonalInformation
PlaceOfOccurrence	PlaceOfEvent1 /* Stillbirth */ <i>EventTypeCode</i> (= "STBIR")
CityName	=MunicipalityName
CDCSDCode	=CDCSDCode
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
	StillbirthVitalEventDetail
StillbirthLocalityCode	=StillbirthLocalityCode
AttendantDesignationCode	=AttendantDesignationCode
LivebornPlusStillbornQuantity	=LivebornPlusStillbornInThisVitalEvent
StillbornQuantity	=StillbornInThisVitalEvent
BirthOrderCode	=BirthOrderCode

⁵⁶ The PT (as in PTSRN) would be replaced with the appropriate two character province/territory code.

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
PregnancyDuration	=PregnancyDuration
ParentsMarriedToEachOtherCode	=ParentsMarriedToEachOtherCode
UnderlyingCauseOfStillbirthCode	=UnderlyingCauseOfStillbirthCode
AutopsyPerformedCode	=AutopsyPerformedCode
AutopsyFindingsUsedCode	=AutopsyFindingsUsedInUCSCode
FurtherInformationExpectedCode	=FurtherInformationExpectedOnUCSCode
DispositionOfBodyCode	=DispositionOfBodyCode
DeathOfFoetusBeforeLabourCode	=DeathOfFoetusBeforeLabourCode
DeathOfFoetusBeforeOpProcsCode	=DeathOfFoetusBeforeOpProcsCode
DeathOfFoetusDuringLabourCode	=DeathOfFoetusDuringLabourCode
LabourInducedCode	=LabourInducedCode
	IdentityInformation (<i>continued</i>)
Person	
Name	PersonName1 /* Foundation */ PersonNameTypeCode (= "FOUND")
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	PersonalInformation (<i>continued</i>)
	DateOfEvent1 /* Stillbirth */ EventTypeCode (= "STBIR")
StillbirthDate	=EventDate
	IdentityInformation (<i>continued</i>)
	SexGenderDocumentedSex
SexCode	=SexCode
	PersonalInformation (<i>continued</i>)
	StillbirthVitalEventDetail (<i>continued</i>)
BirthWeight	=BirthWeight
Parent1-Father	AssociatedPerson1 /* Father */ AssociatedPersonTypeCode (= "FATHR")
Name	PersonName1 /* Primary */ PersonNameTypeCode (= "PRIME")

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
Surname	=Surname
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	DateOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
BirthDate	=EventDate
	PersonAge
Age	=Age
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
Parent2-Mother	AssociatedPerson2 /* Mother */
	<i>AssociatedPersonTypeCode</i> (= "MOTHR")
Name	PersonName1 /* Primary */
	<i>PersonNameTypeCode</i> (= "PRIME")
Surname	=Surname
	PersonName2 /* Prior to First Marriage */
	<i>PersonNameTypeCode</i> (= "PPTFM")
SurnamePriorToFirstMarriage	=Surname
	PersonName1 (<i>continued</i>)
GivenNamesListedFormat1	
GivenNamesListed	=GivenNamesListed
GivenNamesListedFormat2	
FirstGivenNameListed	=FirstGivenNameListed
SecondGivenNameListed	=SecondGivenNameListed
ThirdAddGivenNamesListed	=ThirdAddGivenNamesListed
	DateOfEvent1 /* Birth */
	<i>EventTypeCode</i> (= "BIRTH")
BirthDate	=EventDate
	PersonAge
Age	=Age

<u>TARGET</u> NRS Data Exchanges Standards Object Name	<u>SOURCE</u> PCIM Information Exchange Specification Object Name
	PersonStatus
MaritalStatusCode	=MaritalStatusCode
	StillbirthVitalEventDetail (<i>continued</i>)
TotalEverLivebornQuantity	=TotalLivebornByThisMother
TotalEverStillbornQuantity	=TotalStillbornByThisMother
	AssociatedPerson2 (<i>continued</i>)
BirthPlace	PlaceOfEvent1 /* Birth */
	<i>EventTypeCode (= "BIRTH")</i>
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode
UsualResidence	Address1 /* Usual Residence */
	<i>AddressTypeCode (= "PRSD")</i>
Postal Code	=PostalCode
CDCSDCode	=CDCSDCode
ProvinceTerritoryCode	=ProvinceTerritoryCode
CountryCode	=CountryCode

