DHB Primary Maternity Service Data Collection System MAT ODS

**File Specification**

|  |  |
| --- | --- |
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# Front Matter

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# Introduction

## Purpose of this document

This Ministry of Health File Specification defines the file format used to send information to the Ministry for inclusion in the DHB Primary Maternity Service Data Collection (MAT). The document includes the following information:

* XML Messaging Specification
* Data Formats
* Data Code Ranges
* Global Business Rules
* Validation Rules
* Logical Data Model

## Intended audience

The intended audience for this document is:

* Ministry and DHB business and data quality analysts involved in supporting and maintaining the DHB Primary Maternity Service Data Collection System and the National Maternity Collection.
* DHB staff or their representatives responsible for submitting DHB primary maternity service care data to the Ministry of Health.
* PMS Vendors and Middleware Software Solutions Suppliers to DHBs who are responsible for developing or delivering the technical capability to enable DHBs or their representatives to submit DHB primary maternity service care data to the Ministry of Health for loading into the DHB Primary Maternity Service Data Collection System.

## Related documents

This document should be read in conjunction with the National Maternity Collection Data Dictionary.

## National Health Information Principles

The guiding principles for national health information are the need to:

* Protect patient confidentiality and privacy
* Collect data once, as close to the source as possible, and use it as many times as required to meet different information requirements, in keeping with the purpose for which it was collected
* Validate data at source
* Maintain standard data definitions, classifications and coding systems
* Store national health data that includes only that data which is used, valued and validated at the local level
* Provide connectivity between health information systems to promote communication and integrity

## Compliance with standards

All health and disability service providers, agencies and organisations, as defined in the Health Information Privacy Code 1994, accessing or providing national data are required to adhere to and comply with national information standards, definitions and guidelines. Maintaining the integrity and security of the databases and the transmission or exchange of data between health and disability service organisations is essential. This is a shared obligation of all health and disability service agencies.

National data definitions, terms (such as 'ethnicity'), and health information standards are developed and reviewed in consultation with health sector representatives..

## Date standards

In order to comply with BSI DISC PD2000-1 1998, which the Ministry has adopted as the required metric for Y2K compliance, all dates submitted in these files must conform in format to ISO 8601 (YYYY-MM-DD). Dates will normally be required to be provided to day level. Any exception to this will be noted where appropriate. All abbreviated dates must also comply with ISO 8601.

## Connection to national systems

Health and disability service providers are required to use the national systems, standards and protocols where reasonable. For this reason, providers are encouraged to connect directly to the national systems.

Direct access provides:

* secure communication protocols that meet the privacy requirements
* improved timeliness of data reporting for monitoring purposes
* reduced costs for processing and transmitting data supplied to the national systems.

## Authority for collection of health information

The Ministry of Health may collect health information where this is necessary to carry out lawful purposes connected with its functions and activities. These purposes, functions and activities may be set out in legislation, such as the Health Act 1956, or may be derived from lawful instructions from the Minister. The collection, storage and use of health information is also governed by the Privacy Act 1993 and the Health Information Privacy Code 1994.

## Contact

If you have any queries regarding this file layout or the DHB Primary Maternity Service Data load process, please e-mail compliance@moh.govt.nz.

# Overview of National Maternity Collection

|  |  |
| --- | --- |
| Purpose | The National Maternity Collection (MAT) provides statistical, demographic and clinical information about selected publicly-funded maternity services up to nine months before and three months after a birth. MAT is used for strategy and policy development, supporting clinical intervention, maternity service evaluation and quality assurance, to assist clinical governance and for research. |
| Content | MAT integrates health information from three sources. MAT contains data on primary maternity services provided under Section 88 of the New Zealand Public Health and Disability Act 2000. This information is sourced from Lead Maternity Carer (LMC) claims for payment and from DHBs providing primary maternity services. MAT also contains inpatient and day-patient health event data during pregnancy, birth and the postnatal period for mother and baby, sourced from the National Minimum Dataset (NMDS). |
| Start date |  |
| Collection methods | Information on primary maternity services provided by Lead Maternity Carers, GPs and specialists is reported to the Ministry of Health on standard forms by the providers. This data is entered into the Ministry of Health maternity claims system. The data can also be submitted online via Online Maternity Claiming (OMC).  DHBs report information on last resort primary maternity services provided by DHB midwives. This data is submitted electronically to the Ministry of Health in an agreed electronic file format.  Publicly-funded hospital event information is provided to the Ministry of Health in an agreed electronic file format for public and larger private hospitals. Paper forms and a cut-down electronic file format are forwarded by smaller private facilities and primary birthing units and are manually processed by the Ministry of Health. |
| Frequency of updates | The MAT Collection receives weekly extracts from the NMDS, NHI, the Ministry of Health maternity claims system and the DHB Primary Maternity Services data Collection System. |
| Security of data | The MAT Collection is only accessed by authorised staff for maintenance, data quality, audit and analytical purposes.  Requests for information can be made to the Analytical Services team using the contact information above. |
| Privacy issues | When a woman registers with a Lead Maternity Carer she signs a waiver that allows health data to be used for research under the Health Information Privacy Code 1994.  The Ministry of Health is required to ensure that the release of information meets the conditions of any legislation related to the privacy of health information, in particular the Official Information Act 1982, the Privacy Act 1993, the Health Information Privacy Code 1994 and the Adult Adoption Information Act 1985.  Information available to the general public is of a statistical and non-identifiable nature. Access to identifiable information is restricted. Adoption legislation places more rigorous restrictions on release of this information than standard health information privacy legislation. Each case for identifiable data release will be considered separately. In addition, researchers requiring identifiable data will usually need approval from an approved Ethics Committee. |
| National reports and publications | The MAT Collection is the primary source of data for the Annual Report on Maternity produced by the Ministry of Health. This is available in hard copy and on the Ministry of Health web site www.health.govt.nz. In addition Ministry of Health publishes selected provisional maternity data to facilitate planning and service reviews in a timely manner. |
| Data provision | Customised datasets or summary reports are available on request, either electronically or on paper. Staff from the Ministry of Health Analytical Services team can help to define the specifications for a request and are familiar with the strengths and weaknesses of the data. As some data elements have been added or deleted, consistent time-series data may not be able to be provided.  The Ministry of Health Analytical Services team also offers a peer review service to ensure that Ministry of Health data is reported appropriately when published by other organisations.  There may be charges associated with data extracts. |

# File Processing

## Input File Types

### Extract File

An Extract File contains primary care pregnancy data that is being submitted to the Ministry by a DHB or an organisation submitting data on behalf of a DHB. (Either are referred to as Submitters – see Definitions, Glossary and References in Appendix A)

Submitters should note the following when submitting data on the extract file:

* Primary Maternity data is to be provided as an XML file. The extracted data must be validated against the XML Schema provided by the Ministry. The XML Schema is available at <provide link>
* An extract file must only contain data for one DHB of Service.
* Data for multiple pregnancies can be submitted on one file.
* A complete record of services for an entire pregnancy must be provided.
* Each pregnancy must be given a unique identifier by the Submitter. This unique identifier must be a globally unique identifier (GUID)
* DHBs should submit data relating only to the modules for which they provided care.
* Valid pregnancy data is accepted into the MAT ODS database. Invalid data is rejected. Refer to Chapters 6 and 7 of this document for the validation rules.
* A file should contain a maximum of one thousand pregnancy records.

The file name for a MAT Extract file should use the following structure:

AAAA\_MATYYYYMMDD\_XXXX\_nnn\_EXTRACT.xml

Where:

* + AAAA denotes the target system, e.g. PROD for production.
  + YYYYMMDD is the extract date
  + XXXX is the Submitter code (refer to 6.1.2 for code set)
  + nnn denotes a sequential number to allow for multiple extracts to occur on the same day. For the first extract of the day this should be 001, for the second 002 providing that 001 was accepted, and so on.

Refer to Section 5.1 for the definition of the xml message structure.

### Reversal Request File

If an extract file has been mistakenly loaded into the MAT ODS, the Submitter can request the Ministry to reverse the file.

The file name for a Reversal Request file will use the following structure:

AAAA\_MATYYYYMMDD\_XXXX\_nnn\_REVERSE.xml

Refer to Section 5.3 for the definition of the xml message structure.

## Output File Types

### Extract Acknowledgement File

An XML Acknowledgement file will be created for each received Extract file.

The File name for an Acknowledgement file will use the following structure:

AAAA\_MATYYYYMMDD\_XXXX\_nnn\_RESPONSE.xml

Refer to Section 5.2 for the definition of the xml message structure.

### Extract Report File

An Extract Report file will be created for each received Extract file.

The File name for an Extract Report file will use the following structure:

AAAA\_MATREPYYYYMMDD\_XXXX\_nnn\_REPORT.htm

### Reversal Request Acknowledgement File

An XML Reversal Request Acknowledgement file will be created for each received Reversal Request file.

The Reversal Request Acknowledgement file has a file name structure of

AAAA\_MATYYYYMMDD\_XXXX\_nnn\_REVRESPONSE.xml

Refer to Section 5.4 for the definition of the xml message structure.

## Extract File Processing Overview



The above diagram is a conceptual representation only. The numbers in this diagram are explained in the step/action table in the section below.

## Extract File Processing Steps

|  |  |
| --- | --- |
| **Step** | **Processing Action** |
| 1 | **Extract:**   * Primary Maternity data is extracted from the Submitter’s system. * Extract file is zipped into a zip file |
| 2 | **Send:**   * The zip file is sent to the Ministry by SFTP. |
| 3 | **Receive and Process:**   * When the file is received by the Ministry it is fully validated by the MAT Operational Data Control System (ODS). * Firstly compliance with the XSD Schema rules is checked. If there are any XSD errors, the file is rejected. * Secondly compliance with business rules is checked. If errors are found while processing a pregnancy record, the data for the whole pregnancy is rejected. The rejected data is written to the Acknowledgment File together with appropriate error messages. * Valid pregnancy details are inserted into the ODS database. |
| 4 | **Acknowledgement:**   * An XML Extract Acknowledgement file is created for each received Extract file. The Extract Acknowledgment file also returns counts of the number of records received and rejected for each request type. * An Extract Report file is created for each received Extract file. The Report file contains statistics of the error rate and counts by error number. * MAT ODS sends an email alert to the Submitter when the Extract Acknowledgement and Report files have been created. The DHB will retrieve the files using SFTP. |
| 5 | **Acknowledgement Reconciliation:**   * On receipt of Extract Acknowledgement file, the Submitter should verify that the extracted items have been acknowledged and all processed correctly. * Errors should be corrected and the associated XML records resubmitted as appropriate. If a record has data outside the expected range of values and the DHB has verified that the values provided are correct, the pregnancy details should be resubmitted with the verified attribute set on the relevant data element(s) |
| 6 | **MOH Functions**  Administrative monitoring tools and reports |

## Reversal Request File processing steps

The steps involved in the ODS for reversing a file are:

1. Get all the Pregnancy Details records from the ODS with an Import File ID that matches with the ID of the file being reversed
2. For each Pregnancy Details record

* If there is another Pregnancy Details record with the same unique identifier that has a later creation date and time than the processing date and time of the file being reversed, don’t do anything
* If the record is marked as deleted, set it to active again
* If the record is active, mark as deleted.

1. Generate a Reversal Acknowledgement file.

# MAT File Structure & Data Relationships

This chapter includes diagrams and XML fragments to illustrate the structure of the MAT XML files.

The complete schema definitions are downloadable from the following link: *(provide link)*

**Notation**

|  |  |
| --- | --- |
| 0..∞ | Zero to unlimited occurrences |
| [0..\*] | Zero to unlimited occurrences |
| [0..1] | Zero to one occurrences |
| Solid outline | Mandatory (must be provided) |
| Dotted outline | Non mandatory however there may be rules for when the item must be provided |
|  | Expands to another level |

## MAT Extract File XML Message Structure/ Format

The following sections detail the structure and the entity types defined in the XML schema document for the MAT Extract File.

The schema document defines the expected format and structure of the extract file. Some data-type restrictions are defined in the schemas but these are not exhaustive.

Chapter 6 defines the domains and detailed formats of the data values expected and the business validation rules around them.

For a summary of the Extract File structure refer to Appendix D: Extract File Structure Summary

### DHB\_Primary\_Maternity\_Data\_Collection (Root Entity)

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <DHB\_Primary\_Maternity\_Data\_Collection Document\_Reference=”xs:string” File\_Version = “xs:string”>  <DHB\_Details>DHB\_DetailsType</DHB\_Details>  <Create\_Request> Create\_RequestType</Create\_Request>[0..1000]  <Replace\_Request> Replace\_RequestType</Replace\_Request>[0..1000]  <Delete\_Request>Delete\_RequestType</Delete\_Request>[0..1000]  </DHB\_Primary\_Maternity\_Data\_Collection> |

### DHB\_Details

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <DHB\_Details>  <DHB\_Of\_Service>DHBType</DHB\_Of\_Service>  <Extract\_Date>xs:date</Extract\_Date>  </DHB\_Details> |

### Create\_Request

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Create\_Request>  <Pregnancy\_Details> Pregnancy\_DetailsType</ Pregnancy\_Details>  </Create\_Request> |

### Replace\_Request

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Replace\_Request>  <Pregnancy\_Details> Pregnancy\_DetailsType</ Pregnancy\_Details>  </Replace\_Request> |

### Pregnancy\_Details

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Pregnancy\_Details>  <Woman\_Details>Woman\_DetailsType</Woman\_Details>[0..1]  <Baby\_Details>Baby\_DetailsType</Baby\_Details> [0..\*]  </Pregnancy\_Details> |

### Woman-Details

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Woman\_Details>  <Woman\_Identity>Woman\_IdentityType</Woman\_Identity>  <Allocation>AllocationType</Allocation>[0..1]  <Antenatal>AntenatalType</Antenatal>[0..1]  <Labour\_And\_Birth>Labour\_And\_BirthType</Labour\_And\_Birth>[0..1]  <Postnatal>PostnatalType</Postnatal>[0..1]  </Woman\_Details> |

### Baby\_Details

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Baby\_Details Baby\_Number=”xs:positiveInteger”>  <Baby\_Identity>Baby\_IdentityType</Baby\_Identity>[0..1]  <Labour\_And\_Birth\_Baby\_Details>Labour\_And\_Birth\_Baby\_DetailsType  </Labour\_And\_Birth\_Baby\_Details>[0..1]  <Postnatal\_Baby\_Details>Postnatal\_Baby\_DetailsType</Postnatal\_Baby\_Details>[0..1]  </Baby\_Details> |
|  |  |

### Woman-Identity

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Woman\_Identity>  <NHI\_Number>NHIType</NHI\_Number>  <Date\_Of\_Birth>xs:date</Date\_Of\_Birth>  <Maternal\_Death-Indicator>xs:boolean</Maternal\_Death\_Indicator>  </Woman\_Identity> |
|  |  |

**Important Note:** In the case where the DHB is only supplying postnatal services to the baby, the woman’s identity and any other details relating to services to the woman would not be provided.

An example of this is where a woman died in childbirth. The baby is taken by a guardian to a different DHB district. The new DHB district provides postnatal services to the baby. The new DHB would only supply Baby Identity and Postnatal Baby Details segments in the pregnancy record.

### Allocation

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Allocation>  <Ethnicity>xs:positiveInteger</Ethnicity>[1..3]  <Height\_In\_cms isVerified=”xs:boolean”>xs:positiveInteger</Height\_In\_cms>[0..1]  <Weight\_In\_Kgs isVerified=”xs:boolean”>xs:decimal</Weight\_In\_Kgs>[0..1]  <Smoking\_Status\_At\_Allocation>xs:boolean</Smoking\_Status\_At\_Allocation>[0..1]  <Smoking\_Quantity\_At\_Allocation>xs:string</Smoking\_Quantity\_At\_Allocation>[0..1]  <Gravida>xs:positiveInteger</Gravida>[0..1]  <Parity> xs:nonNegativeInteger </Parity>[0..1]  <LMP>xs:date</LMP>[0..1]  <EDD>xs:date</EDD>  </Allocation> |

**Important Note:** If the Allocation segment is supplied, the Antenatal segment must also be supplied**.**

### Antenatal

|  |  |
| --- | --- |
| **Entity Structure** |  |

| **XML Instance Representation** | <Antenatal>  <Type\_Of\_Service>xs:integer</Type\_Of\_Service>  <Date\_Of\_First\_Antenatal\_Service>xs:date</Date\_Of\_First\_Antenatal\_ Service>  <DHB\_Practitioner>xs:string</DHB\_Practitioner>[0..1]  <Antenatal\_Visits\_1st\_Trimester isVerified=”xs:boolean”>xs:integer</Antenatal\_Visits\_1st\_ Trimester>  <Antenatal\_Visits\_2nd\_Trimester isVerified=”xs:boolean”>xs:integer</Antenatal\_Visits\_2nd\_ Trimester>  <Antenatal\_Visits\_3rd\_Trimester isVerified=”xs:boolean”>xs:integer</Antenatal\_Visits\_3rd\_ Trimester>  </Antenatal> |
| --- | --- |

**Important Note:** If the Antenatal segment is supplied, the Allocation segment must also be supplied**.**

### Labour\_And\_Birth

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Labour\_And\_Birth>  <Type\_Of\_Service>xs:integer</Type\_Of\_Service>  <Delivery\_Date>xs:date</Delivery\_Date>  <HomeBirth\_Indicator>xs:boolean</HomeBirth\_Indicator>  <VBAC\_Indicator>xs:boolean</VBAC\_Indicator>[0..1]  </Labour\_And\_Birth> |

### Postnatal

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Postnatal>  <Type\_Of\_Service>xs:integer</Type\_Of\_Service>  <Date\_Of\_Last\_Postnatal\_Service>xs:date</Date\_Of\_Last\_Postnatal\_Service>  <Smoking\_Status\_At\_2\_Weeks>xs:boolean</Smoking\_Status\_At\_2\_Weeks>[0..1]  <Smoking\_Quantity\_At\_2\_Weeks>xs:string</Smoking\_Quantity\_At\_2\_Weeks>[0..1]  <Postnatal\_Inpatient\_Visits isVerified=”xs:boolean”>xs:integer</Postnatal\_Inpatient\_Visits>  <Postnatal\_Home\_Visits isVerified=”xs:boolean”>xs:integer</Postnatal\_Home\_Visits>  <DHB\_Practitioner>xs:string</DHB\_Practitioner>[0..1]  <GP\_Referral>xs:string</GP\_Referral>[0..1]  <Wellchild\_Referral>xs:string</Wellchild\_Referral>[0..1]  </Postnatal> |

### Baby\_Identity

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Baby\_Identity>  <NHI\_Number>xs:token</NHI\_Number>[0..1]  <Date\_Of\_Birth>xs:date</Date\_Of\_Birth>[0..1]  <Sex>xs:string</Sex>[0..1]  </Baby\_Identity> |

**Important Note:** Baby Identity must be supplied for a live birth and when a Postnatal Baby segment is supplied.

\

### Labour\_And\_Birth\_Baby\_Details

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Labour\_And\_Birth\_Baby\_Details>  <Ethnicity>xs:positiveInteger</Ethnicity>[0..3]  <Birth\_Condition>xs:string</Birth\_Condition>  <Apgar\_Score\_At\_5\_Mins>xs:nonNegativeInteger</Apgar\_Score\_At\_5\_Mins>[0..1]  <Birth\_Weight isVerified=”xs:boolean”>xs:positiveIntegerS</Birth\_Weight>[0..1]  <Gestational\_Age isVerified=”xs:boolean”>xs:positiveInteger</Gestational\_Age>[0..1]  </Labour\_And\_Birth\_Baby\_Details> |

### Postnatal\_Baby\_Details

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Postnatal\_Baby\_Details>  <Date\_Of\_Neonatal\_Death>xs:date</Date\_Of\_Neonatal\_Death>  <Breast\_Feeding\_Status\_At\_2\_Weeks>Breast\_Feeding\_StatusType  </Breast\_Feeding\_Status\_At\_2\_Weeks>[0..1]  <Breast\_Feeding\_Status\_At\_Discharge>Breast\_Feeding\_StatusType  </Breast\_Feeding\_Status\_At\_Discharge>[0..1]  </Postnatal\_Baby\_Details> |

## MAT Acknowledgment File XML Message Structure/ Format

An XML Acknowledgement file will be created for each received Extract XML file, incorporating any errors.

The Submitter will be able to retrieve the Acknowledgement file using SFTP.

The following sections detail the structure and the entity types defined in the XML schema document for the MAT Acknowledgment file.

### DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement (Root Entity)

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement Document\_Reference=”xs:string” File\_Version = “xs:string”>  <Status> xs:string</Status>  <Error>ErrorType</Error>[0..\*]  <! Errors reported at this level are file errors>  <Number\_Of\_Create\_Requests\_Received>xs:nonNegativeInteger</Number\_Of\_  Create\_Requests\_Received>  <Number\_Of\_Create\_Requests\_Rejected>xs:nonNegativeInteger</Number\_Of\_  Create\_Requests\_Rejected>  <Number\_Of\_Replace\_Requests\_Received>xs:nonNegativeInteger</Number\_Of\_  Replace\_Requests\_Received>  <Number\_Of\_Replace\_Requests\_Rejected>xs:nonNegativeInteger</Number\_Of\_  Replace\_Requests\_Rejected>  <Number\_Of\_Delete\_Requests\_Received>xs:nonNegativeInteger</Number\_Of\_  Delete\_Requests\_Received>  <Number\_Of\_Delete\_Requests\_Rejected>xs:nonNegativeInteger</Number\_Of\_  Delete\_Requests\_Rejected>  <Processing\_DateTime>xs:dateTime</Processing\_DateTime>  <File\_Version>xs:string</File\_Version>  <DHB\_Details> DHB\_DetailsType</DHB\_Details>  <Rejected\_Create\_Request>Rejected\_Create\_RequestType</Rejected\_Create\_  Request> [0..\*]  <Rejected\_Replace\_Request>Rejected\_Replace\_RequestType</Rejected\_Replace\_  Request> [0..\*]  <Rejected\_Delete\_Request>Rejected\_Delete\_RequestType</Rejected\_Delete\_  Request> [0..\*]  </DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement> |

### Error

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Error>  <Error\_Reference>xs:string</Error\_Reference>  <Error\_Title> xs:string </Error\_Title>  <Error\_Message> xs:string </Error\_Message>  <Verification\_Required>xs:boolean</Verification\_Required>[0..1]  </Error> |

### Rejected\_Create\_Request

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Rejected\_Create\_Request Pregnancy\_Identifier=”guid” BatchRequestId=xs:integer>  <Error>ErrorType</Error>[0..\*]  <Rejected\_Pregnancy\_Details>Rejected\_Pregnancy\_DetailsType</Rejected\_Pregnancy\_  Details>  </Rejected\_Create\_Request> |

### Rejected\_Replace\_Request

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Rejected\_Replace\_Request Pregnancy\_Identifier=”guid” BatchRequestId=xs:integer >  <Error>ErrorType</Error>[0..\*]  <Rejected\_Pregnancy\_Details>Rejected\_Pregnancy\_DetailsType</Rejected\_Pregnancy\_  Details>  </Rejected\_Replace\_Request> |

### Rejected\_Delete\_Request

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Rejected\_Delete\_Request Pregnancy\_Identifier=”guid” BatchRequestId=xs:integer >  <Error>ErrorType</Error> [0..\*]  </Rejected\_Delete\_Request> |

### Rejected Segments

Rejected segments have the same structure as the corresponding segment on the input file with one or more Error segments appended. Below is an example of the Rejected Woman Identity segment.

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <Rejected\_Woman\_Identity>  <NHI\_Number>NHIType</NHI\_Number>  <Date\_Of\_Birth>xs:date</Date\_Of\_Birth>  <Maternal\_Death-Indicator>xs:boolean</Maternal\_Death\_Indicator>  <Error>ErrorType</Error>[0..\*]  </ Rejected\_Woman\_Identity> |

### Explanation of the Error Segment

When errors are detected by the validation process Error segments are inserted in the acknowledgement file, one Error segment per error.

A Verification Required element indicates whether the data submitted for rejected item needs to be checked by the DHB and resubmitted if the data is correct as recorded.

Example:

<mat:Rejected\_Labour\_And\_Birth\_Baby\_Details>

<mat:Ethnicity>**10000**</mat:Ethnicity>

<mat:Birth\_Condition>**LB**</mat:Birth\_Condition>

<mat:Apgar\_Score\_At\_5\_Mins>**6**</mat:Apgar\_Score\_At\_5\_Mins>

<mat:Gestational\_Age>**45**</mat:Gestational\_Age>

<mat:Error>

<mat:Error\_Reference>**RM-M61-12**</mat:Error\_Reference>

<mat:Error\_Title>**Error – Missing conditional data**</mat:Error\_Title>

<mat:Error\_Message>**The *Birth Weight* has not been supplied in the Labour**

**and Birth Baby Details segment. It must be supplied when *Birth***

***Condition* = ‘LB’**</mat:Error\_Message>

</mat:Error>

<mat:Error>

<mat:Error\_Reference>**RM-M61-16**</mat:Error\_Reference>

<mat:Error\_Title>**Error – Value not within range**</mat:Error\_Title>

<mat:Error\_Message>**The *Gestational Age* in the Labour and Birth Baby**

**Details segmentis not within the range of probable values 20 – 44**

**weeks. Please review and confirm as correct**.</mat:Error\_Message>

<mat:Verification\_Required>**true**</mat:Verification\_Required>

</mat:Error>

</mat:Labour\_And\_Birth\_Baby\_Details>

## MAT Reversal Request XML Message Structure/ Format

The following sections detail the structure and the entity types defined in the XML schema document for the MAT Reversal Request.

The schema document defines the format and structure of the reversal request file expected.

### DHB\_Primary\_Maternity\_Data\_Collection\_Reversal (Root Entity)

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <DHB\_Primary\_Maternity\_Data\_Collection\_Reversal Document\_Reference=”xs:string” File\_Version = “xs:string”>  <DHB\_Details>DHB\_DetailsType</DHB\_Details>  <Document\_Reference\_To\_Reverse>xs:string </ Document\_Reference\_To\_Reverse>  </DHB\_Primary\_Maternity\_Data\_Collection\_Reversal> |

## MAT Reversal Acknowledgement File XML Message Structure/ Format

An XML Acknowledgement file will be created for each received Extract Reversal Request XML file, incorporating any errors.

The Submitter will be able to retrieve the Extract Reversal Request Acknowledgement file using SFTP.

The following sections detail the structure and the entity types defined in the XML schema document for the MAT Extract Reversal Request Acknowledgment file.

### DHB\_Primary\_Maternity\_Data\_Collection\_Reversal\_Acknowledgement (Root Entity)

|  |  |
| --- | --- |
| **Entity Structure** |  |

|  |  |
| --- | --- |
| **XML Instance Representation** | <DHB\_Primary\_Maternity\_Data\_Collection\_Reversal\_Acknowledgement Document\_Reference=”xs:string” File\_Version = “xs:string”>  <DHB\_Details>DHB\_DetailsType</DHB\_Details>[0..1]  <Document\_Reference\_To\_Reverse>xs:string </ Document\_Reference\_To\_Reverse>[0..1]  <Status> StatusType</Status>  <Error>Errortype</Error>[0..\*]  <Number\_Of\_Transactions\_Reversed>xs:nonNegativeInteger</Number\_Of\_Transactions\_  Reversed >[0..1]  <Number\_Of\_Transactions\_With\_Subsequent\_Updates>xs:nonNegativeInteger</Number\_Of\_  Transactions\_With\_Subsequent\_Updates >[0..1]  <Processing\_Datetime>xs:dateTime</Processing\_Datetime>  </DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement> |

# Initial Input File Validation

This section describes the initial validation of the input file where the file name, file version, conformance to schema and authorisation to load data are checked.

## Input file name format and file attributes

The format of the Input file name is:

AAAA\_MATYYYYMMDD\_XXXX\_nnn\_ZZZZZZ.xml

Where:

* + AAAA denotes the target system.
  + ZZZZZZZ denotes the input file type
  + YYYYMMDD is the extract date
  + XXXX is the Submitter code (refer to 6.1.2 for code set)
  + nnn denotes a sequential number to allow for multiple extracts to occur on the same day. For the first extract of the day this should be 001, for the second 002 and so on.

The attributes of the Input file are listed below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Input File Attributes | | | | |
| Attribute | Type | Format | M/O/C | Coded |
| Target system | Code | AAAA | M | Y |
| Input file type | Code | Char(7) | M | Y |
| Extract date | Date | YYYY-MM-DD | M | - |
| Submitter | Code | NNNN | M | Y |
| Sequence number | Positive Integer | NNN | M | - |
| Document reference | String | AAAA\_MATYYYYMMDD\_XXXX\_NNN\_ZZZZZZZ | M | - |
| File version | String | NNNNN.NN | M | - |

### Input file name code set attributes

The attributes of the Input file name that have coded values are listed below.

| ***Input File Name Code Set*** | | |  |
| --- | --- | --- | --- |
| **Coded Data Element** | **Range** | **Description** | **Submitter Type** |
| Target system | PROD  COMP | Production  Compliance |  |
| Input file type | EXTRACT  REVERSE | Extract  Reversal |  |
| Submitter | 1011  1021  1022  1023  2031  2042  2047  2051  2071  3061  3081  3082  3091  3092  3093  3101  4111  4121  4123  4160  7999 | Northland DHB  Waitemata DHB  Auckland DHB  Counties Manakau DHB  Waikato DHB  Lakes DHB  Bay of Plenty DHB  Tairawhiti DHB  Taranaki DHB  Hawkes Bay DHB  MidCentral DHB  Wanganui DHB  Capital and Coast DHB  Hutt Valley DHB  Wairarapa DHB  Nelson Marlborough DHB  West Coast DHB  Canterbury DHB  South Canterbury DHB  Southern DHB  Clevermed Limited | DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  DHB  VEN |
| File Version | 00000.01  00001.00 | Retrospective Data (1 Jan 2007 to 01 Aug 2012.)  Current file version (1 July 2011 to current date) |  |

**Important Note:**  The files submitted by Clevermed Limited must have version 00001.00.

### Antenatal

### Input file initial validation rules

The following rules identify the requirements for the initial validation of MAT Input files.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M01-01 | * The file name must comply with the format identified in 6.1 above. | * File name format | * RM-M01-01 |
| BR-M01-02 | * The elements must comply with the data code ranges identified in section 6.1.1 above. | * Target system * File type * Submitter | * RM-M01-02 * RM-M01-12 * RM-M01-03 |
| BR-M01-03 | * The *Extract Date* must be less than or equal to the date the file is received*.* | * Extract Date | * RM-M01-04 |
| BR-M01-04 | * The *Extract date* must be greater than or equal to the *Extract date* of the last file processed. | * Extract Date | * RM-M01-05 |
| BR-M01-05 | * If *Sequence number* is greater than 1, then *Sequence number* must be equal to *Sequence number* of the last accepted file on *Extract date* +1 | * Sequence number | * RM-M01-06 |
| BR-M01-08 | * The *Submitter* must be certified to submit the file version to the Target system | * Target system * File version * Submitter | * RM-M01-09 |
| BR-M01-13 | * The file must be readable   (The root segment must be present in the extract file.)  (The *File version* must be the present in the Extract file) | * File | * RM-M01-15 |
| BR-M01-16 | * The data elements must be in the correct order |  | * RM-M01-08 |
| BR-M01-17 | * The Target system in the input file name must match the processing system | * Target system | * RM-M01-19 |
| BR-M01-18 | * The *Extract Date* must be a valid date | * Extract Date | * RM-M01-21 |
| BR-M01-19 | * The file must be in the correct Submitter input folder | * Submitter | * RM-M01-20 |

### Input file initial validation error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-01 | Error | Error – Incorrect Data Format | * The *Input* *file name* does not comply with the correct format. |
| RM-M01-02 | Error | Error – Incorrect Code Range | * The *Target system* in the Input file nameis not within the correct code range. |
| RM-M01-03 | Error | Error – Incorrect Code Range | * The *Submitter* in the Input file nameis not within the correct code range. |
| RM-M01-04 | Error | Error – Invalid Data | * The *Extract date* in the Input file is not less than or equal to the date the file is received by MOH*.* |
| RM-M01-05 | Error | Error – Invalid Sequence | * The *Extract date* in the Input file is not greater than or equal to the *Extract date* of the last file processed by MOH*.* |
| RM-M01-06 | Error | Error – Invalid Sequence | * The *Sequence number* in the Input file is not greater than the *Sequence number* of the last accepted file accepted by MOH*.* |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M01-09 | Error | Error – Invalid Data | * The *Submitter* in the Input file nameis not certified to submit this file version to the Target System |
| RM-M01-12 | Error | Error – Incorrect Code Range | * The *Input file type* in the Input file nameis not within the correct code range. |
| RM-M01-15 | Error | Error – Invalid Data | * The file is unreadable |
| RM-M01-19 | Error | Error – Invalid Data | * Input file has been submitted to wrong *Target system* |
| RM-M01-20 | Error | Error – Invalid Data | * The *Submitter* in the input file name does not match the *Submitter* in the input folder name |
| RM-M01-21 | Error | Error – Invalid Data | * The *Extract date* in the Input file is not a valid date |

# MAT Segment Formats, Code Sets and Validation Rules

## Extract file root segment

### Extract file root segment data attributes

The attributes of the Root segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Root segment Attributes | | | | |
| Attribute | Type | Format | M/O/C | Coded |
| Document reference | String | AAAA\_MATYYYYMMDD\_XXXX\_NNN\_ZZZZZZZ | M | - |
| File version | String | NNNNN.NN | M | - |

### Extract file root segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M01-09 | * The *Document reference* must be present in the Extract file | * Document reference | * RM-M01-08 |
| BR-M01-10 | * The *Document reference* must be the same as the *File name* | * Document reference | * RM-M01-14 |
| BR-M01-15 | * The *File version* must comply with the data format identified in section 7.1.1 | * File version | * RM-M01-08 |

### Extract file root segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

|  |  |  |  |
| --- | --- | --- | --- |
| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M01-14 | Error | Error – Invalid Data | * The *Document reference* and the file name are not the same |

## DHB Details Segment

### DHB Details segment data elements

The data elements of the DHB Details segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| DHB Details Elements | | | | |
| Data Element | Type | Format | M/O/C | Coded |
| DHB of Service | Code | NNNN | M | Y |
| Extract Date | Date | YYYY-MM-DD | M | - |

### DHB Details segment code set elements

The data elements of the DHB Details segment that have coded values are listed below.

| ***DHB Details Code Set*** | | |
| --- | --- | --- |
| **Coded Data Element** | **Range** | **Description** |
| DHB of Service | 1011 | Northland DHB |
| 1021 | Waitemata DHB |
| 1022 | Auckland DHB |
| 1023 | Counties Manakau DHB |
| 2031 | Waikato DHB |
| 2042 | Lakes DHB |
| 2047 | Bay of Plenty DHB |
| 2051 | Tairawhiti DHB |
| 2071 | Taranaki DHB |
| 3061 | Hawkes Bay DHB |
| 3081 | MidCentral DHB |
| 3082 | Wanganui DHB |
| 3091 | Capital and Coast DHB |
| 3092 | Hutt Valley DHB |
| 3093 | Wairarapa DHB |
| 3101 | Nelson Marlborough DHB |
| 4111 | West Coast DHB |
| 4121 | Canterbury DHB |
| 4123 | South Canterbury DHB |
| 4131 | Otago District Health Board (merged to 4160) |
| 4141 | Southland District Health Board (merged to 4160) |
| 4160 | Southern DHB |

### DHB Details segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M11-01 | * The segment must contain all mandatory data as identified in section 7.2.1 above. | * DHB of Service * Extract Date | * RM-M01-08 |
| BR-M11-02 | * The data elements must comply with the data formats identified in section 7.2.1 above. | * DHB of Service * Extract Date | * RM-M01-08 |
| BR-M11-03 | * The data elements must comply with the data code ranges identified in section 7.2.2 above. | * DHB of Service | * RM-M11-05 |
| BR-M11-04 | * The *Extract Date* must equal to *Extract Date* in the file name | * Extract Date | * RM-M11-06 |
| BR-M11-05 | * The segment must be present in the input file | * DHB Details | * RM-M01-08 |
| BR-M01-14 | * The *DHB of Service* must be active. | * DHB of Service | * RM-M01-16 |

### DHB Details segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M11-05 | Error | Error – Incorrect Code Range | * The *DHB of Service* in the DHB Details segmentis not within the correct code range. |
| RM-M11-06 | Error | Error – Invalid Data | * The *Extract Date* in the DHB Details segment is not equal to the *Extract Date* in the file name |
| RM-M01-16 | Error | Error – Invalid Data | * The *DHB of Service* in the DHB Details segmentis not active - You are not enabled to submit this file – please contact compliance@moh.govt.nz |

## Request segment

Refer also to Section 8 MAT Extract File Record Types for more details about the request types.

### Request segment data attributes

The attributes of the Request segment (where request type is Create, Replace or Delete) are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Request Type Attributes | | | | |
| Attribute | Type | Format | M/O/C | Coded |
| Pregnancy Identifier | GUID | [0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12} | M | - |
| Batch Request ID | Integer | 9(5) | M | - |

### Request segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M16-01 | * The segment must contain all mandatory attributes as identified in section 7.3.1 above. | * Pregnancy Identifier * Batch Request ID | * RM-M01-08 |
| BR-M16-02 | * The attributes must comply with the data formats identified in section 7.3.1 above. | * Pregnancy Identifier * Batch Request ID | * RM-M01-08 |
| BR-M16-05 | * The *Batch Request ID* must be unique in the Extract File | * Batch Request ID | * RM-M01-08 |
| BR-M16-06 | * If the request type is Create or Replace *Pregnancy Details* must be present | * Pregnancy Details | * RM-M01-08 |
| BR-M16-07 | * There should be at least one Create, Replace or Delete Request present in the file |  | * RM-M16-08 |

### Request Type segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

|  |  |  |  |
| --- | --- | --- | --- |
| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M16-08 | Error | Error – Missing  Data | * The file does not contain any Create, Replace or Delete Requests |

## Woman Identity segment

### Woman Identity segment data elements

The data elements of the Woman Identity segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Woman Identity Elements | | | | |
| Data Element | Type | Format | M/O/C | Coded |
| NHI Number | ID | AAANNNN | M | - |
| Date of Birth | Date | YYYY-MM-DD | M | - |
| Maternal Death Indicator | Boolean | ‘true’ or ‘false’ | M | - |

### Woman Identity segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M21-01 | * The segment must contain all mandatory data as identified in section 7.4.1 above. | * NHI Number * Date of Birth * Maternal Death Indicator | * RM-M01-08 |
| BR-M21-02 | * The data elements must comply with the data formats identified in section 7.4.1 above. | * NHI Number * Date of Birth * Maternal Death Indicator | * RM-M01-08 |
| BR-M21-03 | * The *NHI Number* must be registered on the NHI database before submission. | * NHI Number | * RM-M21-05 |
| BR-M21-04 | * The *Date of Birth* in this segment must match the *Date of Birth* held in the NHI database for the *NHI Number.* | * Date of Birth * NHI Number | * RM-M21-06 |
| BR-M21-05 | * If the *Woman Details* segment is supplied, the *Woman Identity* segment must be present | * Woman Identity | * RM-M01-08 |
| BR-M21-06 | * The *Sex* held in the NHI database for the *NHI Number* must be ‘F’. | * Sex * NHI Number | * RM-M21-10 |

### Woman Identity segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M21-05 | Error | Error – Invalid Data | * The *NHI Number* supplied in the Woman Identity segment is not valid in the NHI Database. |
| RM-M21-06 | Error | Error – Invalid Data | * The *Date of Birth* in the Woman Identity segment does not match *the Date of Birth* in the NHI Database for the *NHI Number*. |
| RM-M21-10 | Error | Error – Invalid Data | * The *NHI Number* supplied in the Woman Identity segment is not registered as belonging to a woman. |

## Allocation segment

### Allocation data elements

The data elements of the Allocation Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Allocation Elements | | | | | |
| Data Element | Type | Format | M/O/C | Coded | Verified Attribute\* |
| Ethnicity 1 | Code | NNNNN | M | Y | - |
| Ethnicity 2 | Code | NNNNN | O | Y | - |
| Ethnicity 3 | Code | NNNNN | O | Y | - |
| Height in cms | Positive Integer | NNN | O | - | Y |
| Weight in Kgs | Decimal | NNN.N | O | - | Y |
| Smoking Status at Allocation | Boolean | ‘true’ or ‘false’ | O | - | - |
| Smoking Quantity at Allocation | Code | A | O | Y | - |
| Gravida | Integer | NN | O | - | - |
| Parity | Integer | NN | O | - | - |
| LMP | Date | YYYY-MM-DD | O | - | - |
| EDD | Date | YYYY-MM-DD | M | - | - |

\* The Verified attribute is a Boolean indicator that the DHB may use to confirm that the value for the element being submitted is legitimately outside the permissible range.

### Allocation segment code sets

The data elements of the Allocation segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Allocation Code Set*** | | |
| Coded Data Element | Range | Description |
| Ethnicity |  | Refer to Appendix C for the complete list of valid Level 4 ethnicity codes and a mapping table of Level 2 codes to Level 4 codes |
| Smoking Quantity at Allocation | L | Less than 10 cigarettes per day |
| M | 10 – 20 cigarettes per day |
| H | More than 20 cigarettes per day |

### Allocation segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M31-01 | * The segment must contain all mandatory data as identified in section 7.5.1 above. | * Ethnicity 1 * EDD | * RM-M01-08 |
| BR-M31-02 | * The data elements, when present, must comply with the data formats identified in section 7.5.1 above. | * Ethnicity 1, 2, or 3 * Height in cms * Weight in Kgs * Smoking Status at Allocation * Gravida * Parity * LMP * EDD * Verified | * RM-M01-08 |
| BR-M31-03 | * The data elements, when present, must comply with the data code ranges identified in section 7.5.2 above. | * Ethnicity 1, 2 or 3 * Smoking Quantity at Allocation | * RM-M31-16 * RM-M01-08 |
| BR-M31-04 | * The *Allocation* and *Antenatal* segments must be supplied together. One cannot be supplied without the other | * Allocation | * RM-M31-01 |
| BR-M31-05 | * If not NULL or verified, *Height in cms* must be in the range 100 cm – 215 cm | * Height in cms | * RM-M31-19 |
| BR-M31-06 | * If not NULL or verified, *Weight in kgs*  must be in the range 40 kg – 180 kg | * Weight in Kgs | * RM-M31-20 |
| BR-M31-07 | * If not NULL, *Gravida* must be between 1 and 99 | * Gravida | * RM-M01-08 |
| BR-M31-08 | * If not NULL, *Parity* must be between 0 and 99 | * Parity | * RM-M01-08 |
| BR-M31-09 | * If not NULL, *Parity* must be less than or equal to *Gravida* | * Parity * Gravida | * RM-M31-23 |
| BR-M31-10 | * If not NULL, *LMP* must be less than or equal to *Date of First Antenatal Service* | * LMP * Date of First Antenatal Service | * RM-M31-24 |
| BR-M31-11 | * *EDD* must be greater than or equal to *Date of First Antenatal Service* | * EDD * Date of First Antenatal Service | * RM-M31-25 |
| BR-M31-12 | * *EDD* must be less than *Date of First Antenatal Service* + 45 weeks | * EDD * Date of First Antenatal Service | * RM-M31-26 |
| BR-M31-14 | * No more than three Ethnicities should be supplied. | * Ethnicity | * RM-M01-08 |

### Allocation segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided. |
| RM-M31-01 | Error | Error – Missing  Mandatory Data | * The *Allocation* and *Antenatal* segments must be supplied together. |
| RM-M31-16 | Error | Error – Incorrect Code Range | * The *Ethnicity* in the Allocation segmentis not within the correct code range. |
| RM-M31-19 | Error | Error – Value Not Within Range | * The *Height in cms* in the Allocation segmentis not within the range of probable values. Please review and confirm as correct. |
| RM-M31-20 | Error | Error – Value Not Within Range | * The *Weight in Kgs* in the Allocation segmentis not within the range of probable values. Please review and confirm as correct. |
| RM-M31-21 | Error | Error – Invalid data | * The *Gravida* in the Allocation segmentis not within the range of valid values. |
| RM-M31-22 | Error | Error – Invalid data | * The *Parity* in the Allocation segmentis not within the range of valid values. |
| RM-M31-23 | Error | Error – Invalid data | * The *Parity* in the Allocation segmentis not less than or equal to the *Gravida*. |
| RM-M31-24 | Error | Error – Invalid data | * The *LMP* in the Allocation segmentis not less than or equal to the *Date of First Antenatal Service*. |
| RM-M31-25 | Error | Error – Invalid data | * The *EDD* in the Allocation segmentis not greater than or equal to the *Date of First Antenatal Service*. |
| RM-M31-26 | Error | Error – Invalid data | * The *EDD* in the Allocation segmentis not less than the *Date of First Antenatal Service* + 45 weeks. |

## Antenatal segment

### Antenatal data elements

The data elements of the Antenatal Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Antenatal Elements | | | | | |
| Data Element | Type | Format | M/O/C | Coded | Verified attribute\* |
| Type of Service | Code | N | M | Y | - |
| Date of First Antenatal Service | Date | YYYY-MM-DD | M | - | - |
| DHB Practitioner | ID | NN-NNNNN or NNNNN or NNNNNN | C | - | - |
| Antenatal Visits 1st Trimester | Integer | NN | M | - | Y |
| Antenatal Visits 2nd Trimester | Integer | NN | M | - | Y |
| Antenatal Visits 3rd Trimester | Integer | NN | M | - | Y |

\* The Verified attribute is a Boolean indicator that the DHB may use to confirm that the value for the element being submitted is legitimately outside the permissible range.

### Antenatal segment code sets

The data elements of the Antenatal segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Antenatal Code Set*** | | |
| Coded Data Element | Range | Description |
| Type of Service | 1 | LMC Services provided by a DHB employed midwife |
| 2 | Co-ordinated DHB midwifery services |
| 3 | DHB midwifery services and postnatal care for woman who have a medical LMC under the Section 88 Maternity Services Notice |

### Antenatal segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M41-01 | * The segment must contain all mandatory data as identified in section 7.6.1 above. | * Type of Service * Date of First Antenatal Service * Antenatal Visits 1st trimester * Antenatal Visits 2nd trimester * Antenatal Visits 3rd trimester | * RM-M01-08 |
| BR-M41-02 | * The data elements, if present, must comply with the data formats identified in section 7.6.1 above. | * Type of Service * Date of First Antenatal Service * Antenatal Visits 1st trimester * Antenatal Visits 2nd trimester * Antenatal Visits 3rd trimester * Verified | * RM-M01-08 |
| BR-M41-03 | * The data elements must comply with the data code ranges identified in section 7.6.2 above. | * Type of Service | * RM-M01-08 |
| BR-M31-04 | * The *Allocation* and *Antenatal* segments must be supplied together. One cannot be supplied without the other | * Antenatal | * RM-M31-01 |
| BR-M41-04 | * The *Date of First Antenatal Service* must be less than or equal to *Extract Date.* | * Date of First Antenatal Service * Extract Date | * RM-M41-14 |
| BR-M41-05 | * The segment must contain *DHB Practitioner* if *Type of Service* = 1 or 2. | * DHB Practitioner * Type of Service | * RM-M41-15 |
| BR-M41-06 | * The *DHB Practitioner* must be registered and the registration details must be in the HPI database. * For a midwife the registration number is their full Midwifery Council of New Zealand Registration Number, including the hyphen (e.g. 15-12345) * For a Medical Professional the registration number is their New Zealand Medical Council Number in the format (NNNNN). * For a Nurses the registration number is their New Zealand Nursing Council Number in the format (NNNNNN). | * DHB Practitioner | * RM-M41-16 |
| BR-M41-07 | * If not verified, *Antenatal Visits 1st trimester* must be between 0 and 10 | * Antenatal Visits 1st trimester | * RM-M41-17 |
| BR-M41-08 | * If not verified, *Antenatal Visits 2nd trimester* must be between 0 and 15 | * Antenatal Visits 2nd trimester | * RM-M41-18 |
| BR-M41-09 | * If not verified, *Antenatal Visits 3rd trimester* must be between 0 and 30 | * Antenatal Visits 3rd trimester | * RM-M41-19 |

### Antenatal segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M41-14 | Error | Error – Invalid Data | * The *Date of First* *Antenatal Service* in the Antenatal segment is not less than or equal to the date the *Extract Date.* |
| RM-M41-15 | Error | Error – Missing  Conditional Data | * The *DHB Practitioner* has not been supplied in the Antenatal segment. It must be supplied when *Type of Service* = 1 or 2 |
| RM-M41-16 | Error | Error – Invalid Data | * The *DHB Practitioner* supplied in the Antenatal segment does not exist in the HPI Database. |
| RM-M41-17 | Error | Error – Invalid Data | * The *Antenatal Visits 1st Trimester* in the Antenatal segment is not in the range 0 to 10. |
| RM-M41-18 | Error | Error – Invalid Data | * The *Antenatal Visits 2nd Trimester* in the Antenatal segment is not in the range 0 to 15. |
| RM-M41-19 | Error | Error – Invalid Data | * The *Antenatal Visits 3rd Trimester* in the Antenatal segment is not in the range 0 to 30. |
| RM-M31-01 | Error | Error – Missing  Mandatory Data | * The *Allocation* and *Antenatal* segments must be supplied together. |

## Labour and Birth segment

### Labour and Birth data elements

The data elements of the Labour and Birth Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Labour and Birth Elements | | | | |
| Data Element | Type | Format | M/O/C | Coded |
| Type of Service | Code | N | M | Y |
| Delivery Date | Date | YYYY-MM-DD | M | - |
| Home Birth Indicator | Boolean | ‘true’ or ‘false’ | M | - |
| VBAC Indicator | Boolean | ‘true’ or ‘false’ | O | - |

### Labour and Birth segment code sets

The data elements of the Labour and Birth segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Labour and Birth*** ***Code Set*** | | |
| Coded Data Element | Range | Description |
| Type of Service | 1 | LMC Services provided by a DHB employed midwife |
| 2 | Co-ordinated DHB midwifery services |
| 3 | DHB midwifery services and postnatal care for woman who have a medical LMC under the Section 88 Maternity Services Notice |

### Labour and Birth segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M51-01 | * The segment must contain all mandatory data as identified in section 7.7.1 above. | * Type of Service * Delivery Date * Home Birth Indicator | * RM-M01-08 |
| BR-M51-02 | * The data elements, when present, must comply with the data formats identified in section 7.7.1 above. | * Type of Service * Delivery Date * Home Birth Indicator * VBAC Indicator | * RM-M01-08 |
| BR-M51-03 | * The data elements must comply with the data code ranges identified in section 7.7.2 above. | * Type of Service | * RM-M01-08 |
| BR-M51-04 | * If *Date of First Antenatal Service* is supplied for the pregnancy, the *Delivery Date* must be greater than or equal to *Date of First Antenatal Service.* | * Delivery Date * Date of First Antenatal Service | * RM-M51-14 |
| BR-M51-11 | * At least one *Labour and Birth Baby Details* segment must be supplied when this segment is supplied. | * Labour and Birth Baby Details | * RM-M51-15 |

### Labour and Birth segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M51-14 | Error | Error – Invalid Data | * The *Delivery Date* in the Labour and Birth segment is not greater than or equal to *Date of First Antenatal Service.* |
| RM-M51-15 | Error | Error – Missing  Conditional Data | * *Labour and Birth Baby Details* segment has not been supplied. |

## Postnatal segment

### Postnatal data elements

The data elements of the Postnatal Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Postnatal Elements | | | | |  |
| Data Element | Type | Format | M/O/C | Coded | Verified attribute\* |
| Type of Service | Code | N | M | Y | - |
| Date of Last Postnatal Service | Date | YYYY-MM-DD | M | - | - |
| Smoking Status at 2 Weeks | Boolean | ‘true’ or ‘false’ | O | - | - |
| Smoking Quantity at 2 Weeks | Code | A | O | Y | - |
| Postnatal Inpatient Visits | Integer | NN | M | Y | Y |
| Postnatal Home Visits | Integer | NN | M | Y | Y |
| DHB Practitioner | ID | NN-NNNNN or NNNNN or NNNNNN | C | - | - |
| GP Referral | Code | A | O | Y | - |
| Wellchild Referral | Code | A | O | Y | - |

\* The Verified attribute is a Boolean indicator that the DHB may use to confirm that the value for the element being submitted is legitimately outside the permissible range.

### Postnatal segment code sets

The data elements of the Postnatal segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Postnatal Code Set*** | | |
| Coded Data Element | Range | Description |
| Type of Service | 1 | LMC Services provided by a DHB employed midwife |
| 2 | Co-ordinated DHB midwifery services |
| 3 | DHB midwifery services and postnatal care for woman who have a medical LMC under the Section 88 Maternity Services Notice |
| Smoking Quantity at 2 Weeks | L | Less than 10 cigarettes per day |
| M | 10 – 20 cigarettes per day |
| H | More than 20 cigarettes per day |
| GP Referral | Y | Yes |
| D | Declined Referral |
| Wellchild Referral | P | Plunket |
| O | Other |
| D | Declined Referral |

### Postnatal segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M71-01 | * The segment must contain all mandatory data as identified in section 7.8.1 above. | * Type of Service * Date of Last Postnatal Service * Postnatal Inpatient Visits * Postnatal Home Visits | * RM-M01-08 |
| BR-M71-02 | * The data elements must comply with the data formats identified in section 7.8.1 above. | * Type of Service * Date of Last Postnatal Service * Smoking Status at 2 Weeks * Postnatal Inpatient Visits * Postnatal Home Visits * Verified | * RM-M01-08 |
| BR-M71-03 | * The data elements must comply with the data code ranges identified in section 7.8.2 above. | * Type of Service * Smoking Quantity at 2 Weeks * GP Referral * Wellchild Referral | * RM-M01-08 |
| BR-M71-04 | * If the *Baby* *Date of Birth* is supplied for the pregnancy, *the Date of Last Postnatal Service* must be greater than or equal to *Baby* *Date of Birth.* | * Date of Last Postnatal Service * Baby Date of Birth*[[1]](#footnote-1)* | * RM-M71-19 |
| BR-M71-06 | * If not verified*, Postnatal Inpatient Visits* must be in the range 0 – 14 | * Postnatal Inpatient Visits | * RM-M71-21 |
| BR-M71-07 | * If not verified, *Postnatal Home Visits* must be in the range 0 – 30 | * Postnatal Home Visits | * RM-M71-22 |
| BR-M71-08 | * The segment must contain *DHB Practitioner* if *Type of Service* = 1 or 2. | * DHB Practitioner * Type of Service | * RM-M71-23 |
| BR-M71-09 | * The *DHB Practitioner* must be registered and the registration details must be in the HPI database. * For a midwife the registration number is their full Midwifery Council of New Zealand Registration Number, including the hyphen (e.g. 15-12345). * For a Medical Professional the registration number is their New Zealand Medical Council Number. | * DHB Practitioner | * RM-M71-24 |
| BR-M71-10 | * The segment must contain *Wellchild Referral* if   + *Birth Condition* is supplied for the pregnancy and *Birth Condition* = ‘LB’*.*   and   * + *Date of Neonatal Death* is supplied for the pregnancy and *Date of Neonatal Death* is NULL | * Wellchild Referral * Birth Condition * Date of Neonatal Death | * RM-M71-25 |

### Postnatal segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |
| RM-M71-19 | Error | Error – Invalid Data | * The *Date of Last Postnatal Service* in the Postnatal segment is not greater than or equal to the Date of Birth*.* |
| RM-M71-21 | Error | Error – Value Not Within Range | * The *Postnatal Inpatient Visits* in the Postnatal segmentis not within the range of probable values 0-14. Please review and confirm as correct. |
| RM-M71-22 | Error | Error – Value Not Within Range | * The *Postnatal Home Visits* in the Postnatal segmentis not within the range of probable values 0-30. Please review and confirm as correct. |
| RM-M71-23 | Error | Error – Missing  Conditional Data | * The *DHB Practitioner* field has not been supplied in the Postnatal segment. It must be supplied when *Type of Service* = 1 or 2 |
| RM-M71-24 | Error | Error – Invalid Data | * The *DHB Practitioner* supplied in the Postnatal segment does not exist in the HPI Database. |
| RM-M71-25 | Error | Error – Missing  Conditional Data | * The *Wellchild Referral* field has not been supplied in the Postnatal segment. It must be supplied when *Birth Condition* = ‘LB’ and *Date of Neonatal Death* is NULL |

## Baby Details segment

### Baby Details segment data elements

The attribute of the Baby Details segment is listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Baby Details Attributes | | | | |
| Attribute | Type | Format | M/O/C | Coded |
| Baby Number | Positive Integer | 99 | M | - |

### Baby Details segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M86-01 | * The segment must contain the attribute as identified in section 7.9.1 above | * Baby Number | * RM-M01-08 |
| BR-M86-02 | * The attribute must comply with the data formats identified in section 7.9.1 above. | * Baby Number | * RM-M01-08 |
| BR-M86-03 | * The *Baby Number* must be unique in the Pregnancy Details segment. | * Baby Number | * RM-M86-03 |

### Baby Details segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

|  |  |  |  |
| --- | --- | --- | --- |
| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided. |
| RM-M86-03 | Error | Error – Invalid Data | * The *Baby Number* supplied in the Baby Details segment is not unique in the Pregnancy Details segment |

## Baby Identity segment

### Baby Identity segment data elements

The data elements of the Baby Identity segment are listed below. They are validated against the National Health Index (NHI) database.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Baby Identity Elements | | | | |
| Data Element | Type | Format | M/O/C | Coded |
| NHI Number | ID | AAANNNN | C | - |
| Date of Birth | Date | YYYY-MM-DD | C | - |
| Sex | Code | A | C | Yes |

### Baby Identity segment code set elements

The data elements of the Baby Identity Segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Baby Identity Code Set*** | | |
| Coded Data Element | Range | Description |
| Sex | M | Male |
| F | Female |
| U | Unknown |
| I | Indeterminate |

### Baby Identity segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M91-01 | * The segment must contain all the data elements as identified in section 7.10.1 above if *Birth condition* is supplied for the pregnancy and *Birth condition* = ‘LB’. | * NHI Number * Date of Birth * Sex | * RM-M91-01 * RM-M91-02 * RM-M91-03 |
| BR-M91-02 | * The data elements must comply with the data formats identified in section 7.10.1 above. | * NHI Number * Date of Birth | * RM-M01-08 |
| BR-M91-03 | * The data elements must comply with the data code ranges identified in section 7.10.2 above. | * Sex | * RM-M01-08 |
| BR-M91-04 | * The *NHI Number* must be registered on the NHI database before submission. | * NHI Number | * RM-M91-06 |
| BR-M91-05 | * The *Date of Birth* in this segment must be ≤ the *Extract Date.* | * Date of Birth * Extract Date | * RM-M91-07 |
| BR-M91-06 | * The *Baby Identity* segment must be present if   + the *Birth Condition* is supplied for the pregnancy and *Birth Condition* = ‘LB’   or   * + the *Postnatal Baby Details* segment is supplied. | * Baby Identity | * RM-M91-09 |

### Baby Identity segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided. |
| RM-M91-01 | Error | Error – Missing  Conditional Data | * The *NHI number* field has not been supplied in the Baby Identity segment. It must be supplied when *Birth Condition* = ‘LB’ |
| RM-M91-02 | Error | Error – Missing  Conditional Data | * The *Date of Birth* field has not been supplied in the Baby Identity segment. It must be supplied when *Birth Condition* = ‘LB’. |
| RM-M91-03 | Error | Error – Missing Conditional Data | * The *Sex* field has not been supplied in the Baby Identity segment. It must be supplied when *Birth Condition* = ‘LB’. |
| RM-M91-06 | Error | Error – Invalid Data | * The *NHI Number* supplied in the Baby Identity segment is not valid in the NHI Database. |
| RM-M91-07 | Error | Error – Invalid Data | * The *Date of Birth* in the Baby Identity segment is not less than or equal to the *Extract Date*. |
| RM-M91-09 | Error | Error – Missing  Mandatory Data | * The *Baby Identity* segment has not been supplied |

## Labour and Birth Baby Details segment

### Labour and Birth Baby Details data elements

The data elements of the Labour and Birth Baby Details Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Labour and Birth Baby Details Elements | | | | | |
| Data Element | Type | Format | M/O/C | Coded | Verified attribute\* |
| Ethnicity 1 | Code | NNNNN | O | Y | - |
| Ethnicity 2 | Code | NNNNN | O | Y | - |
| Ethnicity 3 | Code | NNNNN | O | Y | - |
| Birth Condition | Code | AA | M | Y | - |
| Apgar Score at 5 Mins | Non-negative Integer | NN | C | - | - |
| Birth Weight | Positive Integer | NNNN | C | - | Y |
| Gestational Age | Positive Integer | NN | C | - | Y |

\* The Verified attribute is a Boolean indicator that the DHB may use to confirm that the value for the element being submitted is legitimately outside the permissible range.

### Labour and Birth Baby Details segment code sets

The data elements of the Labour and Birth Baby Details segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Labour and Birth*** ***Baby Details*** ***Code Set*** | | |
| Coded Data Element | Range | Description |
| Ethnicity |  | Refer to Appendix C for the complete list of valid Level 4 ethnicity codes and a mapping table of Level 2 codes to Level 4 codes |
| Birth Condition | LB | Live Born |
| SB | Still born |

### Labour and Birth Baby Details segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M61-01 | * The segment must contain all mandatory data as identified in section 7.11.1 above. | * Birth Condition | * RM-M01-08 |
| BR-M61-02 | * The data elements, when present, must comply with the data formats identified in section 7.11.1 above. | * Ethnicity * Birth Condition * Apgar Score at 5 Mins * Birth Weight * Gestational Age * Verified | * RM-M01-08 |
| BR-M61-03 | * The data elements must comply with the data code ranges identified in section 7.11.2 above. | * Ethnicity | * RM-M61-08 |
| BR-M61-04 | * The segment must contain at least one *Ethnicity* if *Birth Condition* = ‘LB’*.* | * Ethnicity * Birth Condition | * RM-M61-09 |
| BR-M61-05 | * The segment must contain *Apgar Score at 5 Mins* if *Birth Condition* = ‘LB’*.* | * Apgar Score at 5 Mins * Birth Condition | * RM-M61-11 |
| BR-M61-06 | * The segment must contain *Birth Weight* if *Birth Condition* = ‘LB’*.* | * Birth Weight * Birth Condition | * RM-M61-12 |
| BR-M61-07 | * The segment must contain *Gestational Age* if *Birth Condition* = ‘LB’*.* | * Gestational Age * Birth Condition | * RM-M61-13 |
| BR-M61-08 | * *Apgar Score at 5 Mins* must be between 0 and 10 | * Apgar Score at 5 Mins | * RM-M61-14 |
| BR-M61-09 | * If not verified*, Birth Weight* must be between 300 and 7000 (gm) | * Birth Weight | * RM-M61-15 |
| BR-M61-10 | * If not verified*, Gestational Age* must be between 20 and 44 (weeks) | * Gestational Age | * RM-M61-16 |
| BR-M61-11 | * No more than three Ethnicities should be supplied. | * Ethnicity | * RM-M01-08 |

### Labour and Birth Baby Details segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided. |
| RM-M61-08 | Error | Error – Incorrect Code Range | * The *Ethnicity* in the Labour and Birth Baby Details segmentis not within the correct code range. |
| RM-M61-09 | Error | Error – Missing  Conditional Data | * *Ethnicity* has not been supplied in the Labour and Birth Baby Details segment. It must be supplied when *Birth Condition* = ‘LB’ |
| RM-M61-11 | Error | Error – Missing  Conditional Data | * The *Apgar Score at 5 Mins* has not been supplied in the Labour and Birth Baby Details segment. It must be supplied when *Birth Condition* = ‘LB’ |
| RM-M61-12 | Error | Error – Missing  Conditional Data | * The *Birth Weight* has not been supplied in the Labour and Birth Baby Details segment. It must be supplied when *Birth Condition* = ‘LB’ |
| RM-M61-13 | Error | Error – Missing  Conditional Data | * The *Gestational Age* has not been supplied in the Labour and Birth Baby Details segment. It must be supplied when *Birth Condition* = ‘LB’ |
| RM-M61-14 | Error | Error – Invalid Data | * The *Apgar Score at 5 Mins* in the Labour and Birth Baby Details segment is not within the range 0-10*.* |
| RM-M61-15 | Error | Error – Value Not Within Range | * The *Birth Weight* in the Labour and Birth Baby Details segmentis not within the range of probable values 300-7000 (gm). Please review and confirm as correct. |
| RM-M61-16 | Error | Error – Value Not Within Range | * The *Gestational Age* in the Labour and Birth Baby Details segmentis not within the range of probable values 20-44 (weeks)*.* Please review and confirm as correct. |

## Postnatal Baby Details segment

### Postnatal Baby Details data elements

The data elements of the Postnatal Baby Details Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Postnatal Baby Details Elements | | | | |
| Data Element | Type | Format | M/O/C | Coded |
| Breast Feeding Status at 2 Weeks | Code | Char(10) | C | Y |
| Breast Feeding Status at Discharge | Code | Char(10) | C | Y |
| Date of Neonatal Death | Date | YYYY-MM-DD | O | - |

### Postnatal Baby Details segment code sets

The data elements of the Postnatal Baby Details segment that have coded values are listed below.

|  |  |  |
| --- | --- | --- |
| ***Postnatal*** ***Baby Details*** ***Code Set*** | | |
| Coded Data Element | Range | Description |
| Breast Feeding Status | Exclusive | The baby has never had any water, formula or other liquid or solid food; and only breast milk, from the breast or expressed, and prescribed medicines have been given to the baby from birth. |
| Fully | The baby has taken breast milk only, no other liquids or solids except a minimal amount of water or prescribed medicines, in the previous 48 hours. |
| Partial | The baby has taken some breast-milk and some infant formula or other solid food in the past 48 hours |
| Artificial | The baby has had no breast milk in the past 48 hours but has had alternative liquid such as infant formula with or without solid food in the past 48 hours |

### Postnatal Baby Details segment rules

The following rules apply to the data associated with the Validation process.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M81-01 | * The data elements, when present must comply with the data formats identified in section 7.12.1 above. | * Date of Neonatal Death | * RM-M01-08 |
| BR-M81-02 | * The data elements must comply with the data code ranges identified in section 7.12.2 above. | * Breast Feeding Status at 2 Weeks * Breast Feeding Status at Discharge | * RM-M01-08 |
| BR-M81-03 | * The segment must contain *Breast Feeding Status at 2 Weeks* if   + *Birth Condition* is supplied for the pregnancy and *Birth Condition* = ‘LB’*.*   and   * + [*Date of Neonatal Death* is NULL or *Date of Neonatal Death* is greater than(*Date of Birth* + 14 days).] | * Breast Feeding Status at 2 Weeks * Birth Condition * Date of Neonatal Death * Date of Birth | * RM-M81-05 |
| BR-M81-04 | * The segment must contain *Breast Feeding Status at Discharge* if   + *Birth Condition* is supplied for the pregnancy and *Birth Condition* = ‘LB’*.*   and   * + *Date of Neonatal Death* is NULL | * Breast Feeding Status at Discharge * Birth Condition * Date of Neonatal Death | * RM-M81-06 |

### Postnatal Baby Details segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided. |
| RM-M81-05 | Error | Error – Missing  Conditional Data | * The *Breast Feeding Status at 2 Weeks* field has not been supplied in the Postnatal Baby Details segment. It must be supplied when *Birth Condition* = ‘LB’ and[*Date of Neonatal Death* is NULL or *Date of Neonatal Death* is greater than(*Date of Birth* + 14 days).] |
| RM-M81-06 | Error | Error – Missing  Conditional Data | * The *Breast Feeding Status at Discharge* field has not been supplied in the Postnatal Baby Details segment. It must be supplied when *Birth Condition* = ‘LB’ and *Date of Neonatal Death* is NULL |

## Reverse file root segment

### Reverse file root segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M311-01 | * The root segment must be present in the reverse file. | * Root segment | * RM-M01-08 |

### Reverse file root segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

|  |  |  |  |
| --- | --- | --- | --- |
| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided |

## Reversal segment

### Reversal data elements

The data elements of the Reversal Segment are listed below.

Table Key: M = Mandatory. O = Optional. C = Conditional.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reversal Elements | | | | |
| Data Element | Type | Format | M/O/C | Coded |
| Document Reference To Reverse | String | Char(37) | M | - |

### Reversal segment rules

The following rules apply to the data associated with the Validation process.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M301-01 | * The segment must contain all mandatory data as identified in section 7.14.1 above. | * Document Reference To Reverse | * RM-M01-08 |
| BR-M301-02 | * The data element must comply with the data formats identified in section 7.14.1 above. | * Document Reference To Reverse | * RM-M01-08 |
| BR-M301-03 | * Ensuring the Submitter of the original record can only reverse the record within the same environment. | * DHB | * RM-301-03 |

### Reversal segment error messages

The following rule responses apply to the Validation process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

|  |  |  |  |
| --- | --- | --- | --- |
| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| RM-M01-08 | Error | Error – XSD Validation | * A system generated contextual XSD error message is provided. |
| RM-M301-03 | Error | Error – Invalid DHB | * The Submitter of this data differs from the originating Submitter or submitting or original environments differ. |

# MAT Extract File Record Types

The Extract File has the following request types that allow the submission of data:

* A Create request is used for adding new pregnancy records
  + A Create record should be used to send all the data for the pregnancy that the DHB has. The Submitter assigns a unique identifier (a GUID) to a pregnancy record. This is the pregnancy record’s identifier in the MAT ODS database
  + For a new pregnancy record to be created it must not exist in the ODS database i.e. There must not be a record in the ODS with the same Pregnancy Identifier.
  + If a pregnancy record with a different Pregnancy Identifier exists in the ODS database with data that is either partly or entirely the same, the create record will be rejected. See Table 1: Duplicate record identification fields.
  + Create should not be used to establish a pregnancy record with a view to later updating it with more data.
* A Replace request is used for changing an existing pregnancy record
  + The Replace request allows the DHB to correct any issues with the pregnancy data.
  + The Replace request must have the same Pregnancy Identifier as the Pregnancy Identifier that was used to add the pregnancy to the database.
  + The Replace record replaces everything for the given Pregnancy Identifier. Therefore all the data must be re sent.
* A Delete request is used for deleting an existing pregnancy record
  + An active pregnancy record must exist in the ODS database for the Pregnancy Identifier supplied in a Delete request.
  + The Delete request labels the pregnancy record with the given Pregnancy Identifier as deleted in the MAT ODS database. Therefore a Pregnancy Identifier should not be re-used.
  + Delete and then Create should not be used to amend data. Replace should be used.

Table : Duplicate record identification fields

|  |  |
| --- | --- |
| **Module** | **Fields** |
| Antenatal | DHB of Service, Woman NHI, Date of First Antenatal Service |
| Labour/Birth | DHB of Service, Woman NHI, Delivery Date |
| Postnatal | DHB of Service, Woman NHI, Date of Postnatal Service |

## Extract file record request processing rules

The following rules identify the requirements for Request Processing that takes valid pregnancy records and attempts to apply them to the ODS database. Note that the below rules apply to active records in the database unless stated otherwise.

| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| --- | --- | --- | --- |
| BR-M101-01 | * The *Pregnancy Identifier* on a Create Request must not exist in the ODS database. | * Pregnancy Identifier | * RM-M101-01 |
| BR-M101-03 | * If the *DHB of Service, Woman NHI* and *Date of First Antenatal Service* in a Create Request must not be the same as those in a pregnancy record in the ODS database. | * DHB of Service * Woman NHI * Date of First Antenatal Service | * RM-M101-04 |
| BR-M101-04 | * If the *DHB of Service, Woman NHI* and *Delivery Date* in a Create Request must not be the same as those in a pregnancy record in the ODS database. | * DHB of Service * Woman NHI * Delivery Date | * RM-M101-05 |
| BR-M101-05 | * If the *DHB of Service, Woman NHI* and *Date of Last Postnatal Service* in a Create Request must not be the same as those in a pregnancy record in the ODS database. | * DHB of Service * Woman NHI * Date of Last Postnatal Service | * RM-M101-06 |
| BR-M101-06 | * The *Pregnancy Identifier* on a Replace Request must exist in the ODS database. | * Pregnancy Identifier | * RM-M101-02 |
| BR-M101-07 | * The *Pregnancy Identifier* on a Delete Request must exist in the ODS database. | * Pregnancy Identifier | * RM-M101-02 |
| BR-M101-08 | * The pregnancy on a Delete or Replace Request must not be flagged as ‘deleted’ in the ODS database. | * Pregnancy Identifier | * RM-M101-03 |
| BR-M101-09 | * The pregnancy on a Delete or Replace Request must not be flagged as a reversal of a create request in the ODS database. | * Pregnancy Identifier | * RM-M101-07 |
| BR-M101-10 | * The *Pregnancy Identifier* on a Create Request must not exist in the ODS database where the pregnancy details have been marked as deleted | * Pregnancy Identifier | * RM-M101-08 |
| BR-M101-11 | * If the *DHB of Service, Woman NHI* and *Date of First Antenatal Service* in a Create Request must not be the same as those in a pregnancy record within the same input file | * DHB of Service * Woman NHI * Date of First Antenatal Service | * RM-M101-09 |
| BR-M101-12 | * If the *DHB of Service, Woman NHI* and *Delivery Date* in a Create Request must not be the same as those in a pregnancy record within the same input file | * DHB of Service * Woman NHI * Delivery Date | * RM-M101-10 |
| BR-M101-13 | * If the *DHB of Service, Woman NHI* and *Date of Last Postnatal Service* in a Create Request must not be the same as those in a pregnancy record within the same input file | * DHB of Service * Woman NHI * Date of Last Postnatal Service | * RM-M101-11 |
| BR-M101-14 | * The Baby NHI should not be duplicated within the same input file | * Baby NHI | * RM-M101-12 |

## Extract file record request processing error messages

The following rule responses apply to the Request Processing process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M101-01 | Error | Error – Invalid Data | * The *Pregnancy Identifier* already exists in the ODS database. |
| RM-M101-02 | Error | Error – Invalid Data | * The *Pregnancy Identifier* does not exist in the ODS database. |
| RM-M101-03 | Error | Error – Invalid Data | * Thepregnancy that is being deleted or replaced has been previously deleted*.* |
| RM-M101-04 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same *DHB of Service, Woman NHI* and *Date of First Antenatal Service* already exists in the ODS database. |
| RM-M101-05 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same *DHB of Service, Woman NHI* and *Delivery Date* already exists in the ODS database. |
| RM-M101-06 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same *DHB of Service, Woman NHI* and *Date of Last Postnatal Service* already exists in the ODS database. |
| RM-M101-07 | Error | Error – Invalid Data | * Thepregnancy that is being deleted or replaced has been previously created then reversed*.* |
| RM-M101-08 | Error | Error – Invalid Data | * The *Pregnancy Identifier* already exists in the ODS database as a deleted record and cannot be reused. |
| RM-M101-09 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same *DHB of Service, Woman NHI* and *Date of First Antenatal Service* already exists in this input file. |
| RM-M101-10 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same *DHB of Service, Woman NHI* and *Delivery Date* already exists in this input file. |
| RM-M101-11 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same *DHB of Service, Woman NHI* and *Date of Last Postnatal Service* already exists in this input file. |
| RM-M101-12 | Error | Error – Invalid Data | * Duplicate – A pregnancy record with the same Baby NHI already exists in this input file. |

# MAT Extract File Reversal

## Reverse file initial processing rules

The rules around initial validation for the reversal file are the same as those for the extract file apart from BR-M01-03, -04 & -05 (See Section 6.1 Input file name and format and file attributes).

## DHB Details

Refer to Section 7.2 DHB Details Segment

## Extract file reversal request processing rules

The following rules identify the requirements for Reversal Request Processing that takes valid reversal request and attempts to apply it to the ODS database.

|  |  |  |  |
| --- | --- | --- | --- |
| Rule Reference | Rule  Description | Affected  Data | Response Message Reference |
| BR-M201-01 | * The *Document Reference To Reverse* must be the same as the Import File ID of an Import File in the ODS database. | * Document Reference To Reverse * Import File ID | * RM-M201-01 |
| BR-M201-02 | * Only one reversal request is allowed per Import File ID | * Import File ID | * RM-M201-02 |

## Extract file reversal request processing error messages

The following rule responses apply to the Reversal Request Processing process:

**Important Notes:**

Response messages are intended to provide clarity around conditions where rules are not successfully met:

1. An ‘Error’ is fatal and the process cannot proceed until corrected.
2. A ‘Warning’ means unusual conditions encountered but are acceptable.
3. A message is expected for each instance of an encountered error or warning condition.

| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| --- | --- | --- | --- |
| RM-M201-01 | Error | Error – Invalid Data | * There is no Import File in the ODS database with the same ID as the *Document Reference To Reverse* |
| RM-M201-02 | Error | Error – Invalid Data | * The Import File with the file ID supplied in *Document Reference To Reverse* has already been reversed |

# 

# Data model



**APPENDICES**

# Appendix A: Definitions, Glossary and References

For the purposes of this document the following terms, acronyms and abbreviations have the specific meaning as listed in the definition below:

|  |  |
| --- | --- |
| **Abbreviation/Term** | **Description** |
| DHB | District Health Board |
| DHB of Service | The DHB that is responsible for providing the primary maternity service |
| EDD | Estimated Date of Delivery  The latest Estimated Date of Delivery for the woman that has been recorded during the antenatal period. |
| Gravida | The number of pregnancies for the woman, including the current one. |
| GUID | Globally Unique Identifier (or 'Universally Unique Identifier'). A GUID is a 128-bit integer number commonly used as an identifier in software for things such as database keys. The value of a GUID is represented as a 32-character [hexadecimal](http://en.wikipedia.org/wiki/Hexadecimal) string, such as {21EC2020-3AEA-1069-A2DD-08002B30309D} |
| HPI | Health Practitioner Index  The HPI is the central source of core information about all registered practitioners. |
| LMP | Last Menstrual Period |
| Module | A pregnancy is divided into modules of care. i.e.   * Allocation * Antenatal * Labour and Birth * Postnatal |
| NHI | National Health Index |
| NHI Number | The primary unique lifetime identifier for all New Zealand that takes precedence over all other identifiers for consumers of health care services |
| MOH | Ministry of Health |
| ODS | Operational Data System  In the context of DHB Primary Maternity data the ODS is the system that collects valid data. Collected data is subsequently transferred to the Maternity Collection Data Warehouse (MAT) where it is used for reporting and analysis. |
| Parity | The number of times a woman has borne children counting multiple births as one and including stillbirths. |
| Record | A record constitutes a DHB’s data for a pregnancy. A record may contain all the data for the pregnancy if the DHB provided all the care and services related to the pregnancy. If more than one DHB provided care and/or services there would be more than one record for the pregnancy each containing the modules for which the relevant DHB provided care and/or services. |
| SFTP | SSH File Transfer Protocol.  A [network protocol](http://en.wikipedia.org/wiki/Network_protocol) that provides [file access](http://en.wikipedia.org/wiki/File_access), [file transfer](http://en.wikipedia.org/wiki/File_transfer), and [file management](http://en.wikipedia.org/wiki/File_management) functionality over any reliable [data stream](http://en.wikipedia.org/wiki/Data_stream). |
| Submitter | An organisation that submits an extract file containing DHB Primary Maternity Service data.  The organisation may be a DHB or a representative acting on behalf of a DHB. |
| VBAC | Vaginal birth after previous birth by caesarean section and no previous vaginal birth |
| Verified | The Verified attribute of data elements in the Extract File is a Boolean indicator that the DHB may use to confirm that the value for the element being submitted is legitimately outside the permissible range. |

# Appendix B: NHI Number Validation

To establish if an NHI Number is valid or not, the provider should use the following validation routine below.

**Validation Steps**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Step** | **Description** | **Example: EPT6335** | **Example: CGC2720** | **Example: DAB8233** |
| 1 | Alphabetic characters must be within the Alphabet Conversion Table (see above), that is, they aren’t ‘I’ or ‘O’. | EPT | CGC | DAB |
| 2 | NNNC numbers must be numeric. | 6335 | 2720 | 8233 |
| 3 | Assign first alpha character its corresponding value from the Alphabet Conversion Table and multiply value by 7. | 5\*7 = 35 | 3\*7 = 21 | 4\*7 = 28 |
| 4 | Assign second alpha character its corresponding value from the Alphabet Conversion Table and multiply value by 6. | 14\*6 = 84 | 7\*6 = 42 | 1\*6 = 6 |
| 5 | Assign third alpha character its corresponding value from the Alphabet Conversion Table and multiply value by 5. | 18\*5 = 90 | 3\*5 = 15 | 2\*5 = 10 |
| 6 | Multiply first number by 4. | 6\*4 = 24 | 2\*4 = 8 | 8\*4 = 32 |
| 7 | Multiply second number by 3. | 3\*3 = 9 | 7\*3 = 21 | 2\*3 = 6 |
| 8 | Multiply third number by 2. | 3\*2 = 6 | 2\*2 = 4 | 3\*2 = 6 |
| 9 | Total the results of steps 3 to 8. | 35+84+90+24+9+6 = 248 | 21+42+15+8+21+4 = 111 | 28+6+10+32+6+6 = 88 |
| 10 | Apply modulus 11 to create a checksum.  NB: Excel has a modulus function MOD (n,d) where n is the number to be converted (eg the sum calculated in step 9), and d equals the modulus (in the case of the NHI this is 11). | 248/11 =22 r 6  (6 is the checksum) | 111/11 = 10 r 1  (1 is the checksum) | 88/11 = 8 r 0  (0 is the checksum) |
| 11 | If checksum is ‘0’ then the NHI number is not used. | Continue to step 12 | Continue to step 12 | NHI number bad.  Continue to step 15. |
| 12 | Subtract checksum from 11 to create check digit. | 11-6 = 5 | 11-1 = 10 |  |
| 13 | If the check digit equals ‘10’ convert to ‘0’ | Continue to step 14 | Convert ‘10’ to ‘0’ |  |
| 14 | Fourth number must equal the checksum. | 5 = 5 | 0 = 0 |  |
| 15 | NHI number passes the NHI validation routine. | Yes | Yes | No (see note 1) |
| ***Note 1:***  *No digit can be added to the end of DAB823 to create a valid NHI number* | | | | |

**Alpha Conversion Table**

Use this table to determine the Alpha characters value within the NHI Validation Routine.

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

This validation routine allows health and disability support services to confirm the NHI is in the correct format and that it is a valid NHI number. Its main purpose is to identify mistyped NHI numbers.

The validation routine does not confirm that a health and disability support services has assigned the NHI number to a correct individual. Nor does it mean the NHI number has been registered, on the NHI. For example pre-allocated NHI numbers are not ‘active’ until they have been sent to the NHI in the registration transaction (NEWHCU).

# Appendix C: Ethnicity Data Protocols

For details refer to the Ethnicity Data Protocols for the Health and Disability sector on the Ministry of Health website.

<http://www.health.govt.nz/publication/ethnicity-data-protocols-health-and-disability-sector>

**C.1 Level 4 Ethnicity Codes**

The table below shows the full set of Level 4 codes

| **Level 4 Ethnicity Codes** | |
| --- | --- |
| **Code** | **Description** |
| 10000 | European NFD |
| 11111 | New Zealand European / Päkehä |
| 12000 | Other European NFD |
| 12100 | British NFD |
| 12111 | Celtic |
| 12112 | Channel Islander |
| 12113 | Cornish |
| 12114 | English |
| 12115 | Gaelic |
| 12116 | Irish |
| 12117 | Manx |
| 12118 | Orkney Islander |
| 12119 | Scottish (Scots) |
| 12120 | Shetland Islander |
| 12121 | Welsh |
| 12199 | British NEC |
| 12211 | Dutch / Netherlands |
| 12311 | Greek (including Greek Cypriot) |
| 12411 | Polish |
| 12500 | South Slav (formerly Yugoslav groups) NFD |
| 12511 | Croat / Croatian |
| 12512 | Dalmatian |
| 12513 | Macedonian |
| 12514 | Serb / Serbian |
| 12515 | Slovene / Slovenian |
| 12599 | South Slav (formerly Yugoslav) NEC |
| 12611 | Italian |
| 12711 | German |
| 12811 | Australian |
| 12911 | Albanian |
| 12912 | Armenian |
| 12913 | Austrian |
| 12914 | Belgian |
| 12915 | Bulgarian |
| 12916 | Byelorussian |
| 12917 | Corsican |
| 12918 | Cypriot Unspecified |
| 12919 | Czech |
| 12920 | Danish |
| 12921 | Estonian |
| 12922 | Finnish |
| 12923 | Flemish |
| 12924 | French |
| 12925 | Greenlander |
| 12926 | Hungarian |
| 12927 | Icelander |
| 12928 | Latvian |
| 12929 | Lithuanian |
| 12930 | Maltese |
| 12931 | Norwegian |
| 12932 | Portuguese |
| 12933 | Romanian / Rumanian |
| 12934 | Romany / Gypsy |
| 12935 | Russian |
| 12936 | Sardinian |
| 12937 | Slavic / Slav |
| 12938 | Slovak |
| 12939 | Spanish |
| 12940 | Swedish |
| 12941 | Swiss |
| 12942 | Ukrainian |
| 12943 | American (US) |
| 12944 | Burgher |
| 12945 | Canadian |
| 12946 | Falkland Islander / Kelper |
| 12947 | New Caledonian |
| 12948 | South African |
| 12999 | European NEC |
| 21111 | Mäori |
| 30000 | Pacific peoples NFD |
| 31111 | Samoan |
| 32100 | Cook Island Maori NFD |
| 32111 | Aitutaki Islander |
| 32112 | Atiu Islander |
| 32113 | Mangaia Islander |
| 32114 | Manihiki Islander |
| 32115 | Mauke Islander |
| 32116 | Mitiaro Islander |
| 32117 | Palmerston Islander |
| 32118 | Penrhyn Islander |
| 32119 | Pukapuka Islander |
| 32120 | Rakahanga Islander |
| 32121 | Rarotongan |
| 33111 | Tongan |
| 34111 | Niuean |
| 35111 | Tokelauan |
| 36111 | Fijian (except Fiji Indian / Indo-Fijian) |
| 37100 | Other Pacific peoples NFD |
| 37111 | Admiralty Islander |
| 37112 | Australian Aboriginal |
| 37113 | Austral Islander |
| 37114 | Belau / Palau Islander |
| 37115 | Bismark Archipelagoan |
| 37116 | Bougainvillean |
| 37117 | Caroline Islander |
| 37118 | Easter Islander |
| 37119 | Gambier Islander |
| 37120 | Guadalcanalian |
| 37121 | Guam Islander / Chamorro |
| 37122 | Hawaiian |
| 37123 | Kanaka / Kanak |
| 37124 | I-Kiribati / Gilbertese |
| 37125 | Malaitian |
| 37126 | Manus Islander |
| 37127 | Marianas Islander |
| 37128 | Marquesas Islander |
| 37129 | Marshall Islander |
| 37130 | Nauru Islander |
| 37131 | New Britain Islander |
| 37132 | New Georgian |
| 37133 | New Irelander |
| 37134 | Ocean Islander / Banaban |
| 37135 | Papuan / New Guinean / Irian Jayan |
| 37136 | Phoenix Islander |
| 37137 | Pitcairn Islander |
| 37138 | Rotuman / Rotuman Islander |
| 37139 | Santa Cruz Islander |
| 37140 | Society Islander (including Tahitian) |
| 37141 | Solomon Islander |
| 37142 | Torres Strait Islander / Thursday Islander |
| 37143 | Tuamotu Islander |
| 37144 | Tuvalu Islander / Ellice Islander |
| 37145 | Vanuatu Islander / New Hebridean |
| 37146 | Wake Islander |
| 37147 | Wallis Islander |
| 37148 | Yap Islander |
| 37199 | Other Pacific peoples NEC |
| 40000 | Asian NFD |
| 41000 | Southeast Asian NFD |
| 41111 | Filipino |
| 41211 | Khmer / Kampuchean / Cambodian |
| 41311 | Vietnamese |
| 41411 | Burmese |
| 41412 | Indonesian (including Javanese / Sundanese / Sumatran) |
| 41413 | Lao / Laotian |
| 41414 | Malay / Malayan |
| 41415 | Thai / Tai / Siamese |
| 41499 | Other Southeast Asian NEC |
| 42100 | Chinese NFD |
| 42111 | Hong Kong Chinese |
| 42112 | Kampuchean Chinese |
| 42113 | Malaysian Chinese |
| 42114 | Singaporean Chinese |
| 42115 | Vietnamese Chinese |
| 42116 | Taiwanese Chinese |
| 42199 | Chinese NEC |
| 43100 | Indian NFD |
| 43111 | Bengali |
| 43112 | Fijian Indian / Indo-Fijian |
| 43113 | Gujarati |
| 43114 | Tamil |
| 43115 | Punjabi |
| 43116 | Sikh |
| 43199 | Indian NEC |
| 44100 | Sri Lankan NFD |
| 44111 | Sinhalese |
| 44112 | Sri Lankan Tamil |
| 44199 | Sri Lankan NEC |
| 44211 | Japanese |
| 44311 | Korean |
| 44411 | Afghani |
| 44412 | Bangladeshi |
| 44413 | Nepalese |
| 44414 | Pakistani |
| 44415 | Tibetan |
| 44499 | Other Asian NEC |
| 51100 | Middle Eastern NFD |
| 51111 | Algerian |
| 51112 | Arab |
| 51113 | Assyrian |
| 51114 | Egyptian |
| 51115 | Iranian / Persian |
| 51116 | Iraqi |
| 51117 | Israeli / Jewish / Hebrew |
| 51118 | Jordanian |
| 51119 | Kurd |
| 51120 | Lebanese |
| 51121 | Libyan |
| 51122 | Moroccan |
| 51123 | Omani |
| 51124 | Palestinian |
| 51125 | Syrian |
| 51126 | Tunisian |
| 51127 | Turkish (including Turkish Cypriot) |
| 51128 | Yemeni |
| 51199 | Middle Eastern NEC |
| 52100 | Latin American / Hispanic NFD |
| 52111 | Argentinian |
| 52112 | Bolivian |
| 52113 | Brazilian |
| 52114 | Chilean |
| 52115 | Colombian |
| 52116 | Costa Rican |
| 52117 | Creole (Latin America) |
| 52118 | Ecuadorian |
| 52119 | Guatemalan |
| 52120 | Guyanese |
| 52121 | Honduran |
| 52122 | Malvinian (Spanish-speaking Falkland Islander) |
| 52123 | Mexican |
| 52124 | Nicaraguan |
| 52125 | Panamanian |
| 52126 | Paraguayan |
| 52127 | Peruvian |
| 52128 | Puerto Rican |
| 52129 | Uruguayan |
| 52130 | Venezuelan |
| 52199 | Latin American / Hispanic NEC |
| 53100 | African NFD |
| 53111 | Black |
| 53112 | Creole (US) |
| 53113 | Jamaican |
| 53114 | Kenyan |
| 53115 | Nigerian |
| 53116 | African American |
| 53117 | Ugandan |
| 53118 | West Indian / Caribbean |
| 53119 | Somali |
| 53199 | Other African NEC |
| 54100 | Other NFD |
| 54111 | Central American Indian |
| 54112 | Inuit / Eskimo |
| 54113 | Mauritian |
| 54114 | North American Indian |
| 54115 | Seychelles Islander |
| 54116 | South American Indian |
| 54199 | Other NEC |
| 96666 | Repeated value |
| 97777 | Response unidentifiable |
| 98888 | Response outside scope |
| 99999 | Not stated |

**C.2 Level 4 to Level 2 Mapping**

If the DHB holds ethnicity data as Level 2 ethnicity codes, the table below shows how to convert a Level 2 code to a Level 4 code for MAT ODS.



# Appendix D: Extract File Structure Summary

  

# Appendix E: System Errors

The following errors will be delivered to the Error folder. They will not be returned to the DHB.

|  |  |  |  |
| --- | --- | --- | --- |
| Response Message Reference | Error or  Warning | Message  Title | Response  Message |
| RM-M901-01 | Error | Error – System Error | * EFT error - Input file has been placed in the wrong DHB / Submitter’s directory [directory] |
| RM-M901-02 | Error | Error – System Error | * Internal error - [error description] |
| RM-M901-03 | Error | Error – System Error | * Application error - [error description] |

# Appendix F: Related Documents/Files

|  |  |
| --- | --- |
| **Document/File** | **Version** |
| DHB Primary Maternity Data Collection Detailed Business Requirements | 1.1 |
| DHB\_Primary\_Maternity\_Data\_Collection\_v1.0.xsd | 1.0 |
| DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement\_v1.0.xsd | 1.0 |
| DHB\_Primary\_Maternity\_Common\_Types\_v1.0.xsd | 1.0 |
| DHB\_Primary\_Maternity\_Data\_Collection\_Reversal\_v1.0.xsd | 1.0 |
| DHB\_Primary\_Maternity\_Data\_Collection\_Reversal\_Acknowledgement\_v1.0.xsd | 1.0 |

# Appendix G: Examples

## G.1 File rejected because of XSD schema errors

### G1.1 Extract file

<?xml version="1.0" encoding="utf-8"?>

<mat:DHB\_Primary\_Maternity\_Data\_Collection\_Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:mat="http://moh.govt.nz/maternity/v1.0"

File\_Version="1.00"

Document\_Reference="TEST\_MAT20120831\_3061\_001\_EXTRACT.xml"

xsi:schemaLocation="http://moh.govt.nz/maternity/v1.0 ./xsd/DHB\_Primary\_Maternity\_Data\_Collection\_v1.0.xsd">

<mat:DHB\_Details>

<mat:DHB\_Of\_Service>3061</mat:DHB\_Of\_Service>

<mat:Extract\_DateTime>2012-08-31T09:14:30</mat:Extract\_DateTime>

</mat:DHB\_Details>

<mat:Create\_Request PregnancyIdentifier="4d473add-feb4-4225-938b-baf9ff54026f" BatchRequestId="1">

<mat:Pregnancy\_Details>

<mat:Woman\_Details>

<mat:Woman\_Identity>

<mat:NHI\_Number>LMC4295\_TEST</mat:NHI\_Number>

<mat:Date\_Of\_Birth>1973-03-13-TEST</mat:Date\_Of\_Birth>

<mat:Maternal\_Death\_Indicator>false</mat:Maternal\_Death\_Indicator>

</mat:Woman\_Identity>

<mat:Allocation>

<mat:Ethnicity>21111</mat:Ethnicity>

<mat:Smoking\_Status\_At\_Allocation>true</mat:Smoking\_Status\_At\_Allocation>

<mat:Smoking\_Quantity\_At\_Allocation>L</mat:Smoking\_Quantity\_At\_Allocation>

<mat:Gravida>1</mat:Gravida>

<mat:Parity>5</mat:Parity>

<mat:LMP>2010-05-20</mat:LMP>

<mat:EDD>2011-02-24</mat:EDD>

</mat:Allocation>

<mat:Labour\_And\_Birth>

<mat:Type\_Of\_Service>1</mat:Type\_Of\_Service>

<mat:Delivery\_Date>2011-02-24</mat:Delivery\_Date>

<mat:HomeBirth\_Indicator>false</mat:HomeBirth\_Indicator>

</mat:Labour\_And\_Birth>

<mat:Postnatal>

<mat:Type\_Of\_Service>1</mat:Type\_Of\_Service>

<mat:Date\_Of\_Last\_Postnatal\_Service>2011-04-07</mat:Date\_Of\_Last\_Postnatal\_Service>

<mat:Smoking\_Status\_At\_2\_Weeks>true</mat:Smoking\_Status\_At\_2\_Weeks>

<mat:Smoking\_Quantity\_At\_2\_Weeks>M</mat:Smoking\_Quantity\_At\_2\_Weeks>

<mat:Postnatal\_Inpatient\_Visits isVerified="true">1</mat:Postnatal\_Inpatient\_Visits>

<mat:Postnatal\_Home\_Visits isVerified="true">7</mat:Postnatal\_Home\_Visits>

<mat:DHB\_Practitioner>163886</mat:DHB\_Practitioner>

<mat:GP\_Referral>Y</mat:GP\_Referral>

<mat:Wellchild\_Referral>P</mat:Wellchild\_Referral>

</mat:Postnatal>

</mat:Woman\_Details>

<mat:Baby\_Details Baby\_Number="1">

<mat:Baby\_Identity>

<mat:NHI\_Number>TWU7654111</mat:NHI\_Number>

<mat:Date\_Of\_Birth>2011-02-24-1</mat:Date\_Of\_Birth>

<mat:Sex>M</mat:Sex>

</mat:Baby\_Identity>

<mat:Labour\_And\_Birth\_Baby\_Details>

<mat:Ethnicity>21111</mat:Ethnicity>

<mat:Birth\_Condition>LB</mat:Birth\_Condition>

<mat:Apgar\_Score\_At\_5\_Mins>9</mat:Apgar\_Score\_At\_5\_Mins>

<mat:Birth\_Weight isVerified="true">28101</mat:Birth\_Weight>

<mat:Gestational\_Age isVerified="true">40</mat:Gestational\_Age>

</mat:Labour\_And\_Birth\_Baby\_Details>

<mat:Postnatal\_Baby\_Details>

<mat:Breast\_Feeding\_Status\_At\_2\_Weeks>Partial1</mat:Breast\_Feeding\_Status\_At\_2\_Weeks>

<mat:Breast\_Feeding\_Status\_At\_Discharge>Partial</mat:Breast\_Feeding\_Status\_At\_Discharge>

</mat:Postnatal\_Baby\_Details>

</mat:Baby\_Details>

</mat:Pregnancy\_Details>

</mat:Create\_Request>

</mat:DHB\_Primary\_Maternity\_Data\_Collection\_Document>

### G1.2 Response file

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement xmlns="http://moh.govt.nz/maternity/v1.0" Document\_Reference="TEST\_MAT20120831\_3061\_001\_EXTRACT.xml" File\_Version="1.00">

<Status>REJECTED</Status>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 15</Error\_Title>

<Error\_Message>cvc-maxLength-valid: Value 'LMC4295\_TEST' with length = '12' is not facet-valid with respect to maxLength '10' for type 'NHIType'.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 15</Error\_Title>

<Error\_Message>cvc-type.3.1.3: The value 'LMC4295\_TEST' of element 'mat:NHI\_Number' is not valid.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 16</Error\_Title>

<Error\_Message>Error in parsing time zone: '1973-03-13-TEST'.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 16</Error\_Title>

<Error\_Message>cvc-datatype-valid.1.2.1: '1973-03-13-TEST' is not a valid value for 'date'.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 16</Error\_Title>

<Error\_Message>cvc-type.3.1.3: The value '1973-03-13-TEST' of element 'mat:Date\_Of\_Birth' is not valid.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 48</Error\_Title>

<Error\_Message>Error in parsing time zone: '2011-02-24-1'.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 48</Error\_Title>

<Error\_Message>cvc-datatype-valid.1.2.1: '2011-02-24-1' is not a valid value for 'date'.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 48</Error\_Title>

<Error\_Message>cvc-type.3.1.3: The value '2011-02-24-1' of element 'mat:Date\_Of\_Birth' is not valid.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 55</Error\_Title>

<Error\_Message>cvc-maxInclusive-valid: Value '28101' is not facet-valid with respect to maxInclusive '9999' for type 'Weight\_In\_gmsBaseType'.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 55</Error\_Title>

<Error\_Message>cvc-complex-type.2.2: Element 'mat:Birth\_Weight' must have no element [children], and the value must be valid.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 59</Error\_Title>

<Error\_Message>cvc-enumeration-valid: Value 'Partial1' is not facet-valid with respect to enumeration '[Exclusive, Fully, Partial, Artificial]'. It must be a value from the enumeration.</Error\_Message>

</Error>

<Error>

<Error\_Reference>RM-M01-08</Error\_Reference>

<Error\_Title>Error - Invalid Data, on Line number 59</Error\_Title>

<Error\_Message>cvc-type.3.1.3: The value 'Partial1' of element 'mat:Breast\_Feeding\_Status\_At\_2\_Weeks' is not valid.</Error\_Message>

</Error>

<Number\_Of\_Create\_Requests\_Received>1</Number\_Of\_Create\_Requests\_Received>

<Number\_Of\_Create\_Requests\_Rejected>1</Number\_Of\_Create\_Requests\_Rejected>

<Number\_Of\_Replace\_Requests\_Received>0</Number\_Of\_Replace\_Requests\_Received>

<Number\_Of\_Replace\_Requests\_Rejected>0</Number\_Of\_Replace\_Requests\_Rejected>

<Number\_Of\_Delete\_Requests\_Received>0</Number\_Of\_Delete\_Requests\_Received>

<Number\_Of\_Delete\_Requests\_Rejected>0</Number\_Of\_Delete\_Requests\_Rejected>

<Processing\_DateTime>2012-11-26T11:50:07.091+13:00</Processing\_DateTime>

<DHB\_Details>

<DHB\_Of\_Service>3061</DHB\_Of\_Service>

<Extract\_DateTime>2012-08-31T09:14:30+12:00</Extract\_DateTime>

</DHB\_Details>

</DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement>

### G1.3 Report

|  |  |  |
| --- | --- | --- |
| DHB Primary Maternity Service Data Collection File Submission Report | | |
| Submitting Organisation: | Capital and Coast DHB | |
| Extract File Name: | TEST\_MAT20120831\_3061\_001\_EXTRACT.xml | |
| Extract Date: | 31/08/2012 | |
| Processing Date: | 26/11/2012 | |
| File Status: | REJECTED | |

|  |
| --- |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data Validation Error Summary** | | | | |
| **Error Reference** | | **Error Message** | **Count** | **Affected NHI** |
| RM-M01-08 | | cvc-maxLength-valid: Value 'LMC4295\_TEST' with length = '12' is not facet-valid with respect to maxLength '10' for type 'NHIType'. | 1 |  |
| RM-M01-08 | | cvc-type.3.1.3: The value 'LMC4295\_TEST' of element 'mat:NHI\_Number' is not valid. | 1 |  |
| RM-M01-08 | | Error in parsing time zone: '1973-03-13-TEST'. | 1 |  |
| RM-M01-08 | | cvc-datatype-valid.1.2.1: '1973-03-13-TEST' is not a valid value for 'date'. | 1 |  |
| RM-M01-08 | | cvc-type.3.1.3: The value '1973-03-13-TEST' of element 'mat:Date\_Of\_Birth' is not valid. | 1 |  |
| RM-M01-08 | | Error in parsing time zone: '2011-02-24-1'. | 1 |  |
| RM-M01-08 | | cvc-datatype-valid.1.2.1: '2011-02-24-1' is not a valid value for 'date'. | 1 |  |
| RM-M01-08 | | cvc-type.3.1.3: The value '2011-02-24-1' of element 'mat:Date\_Of\_Birth' is not valid. | 1 |  |
| RM-M01-08 | | cvc-maxInclusive-valid: Value '28101' is not facet-valid with respect to maxInclusive '9999' for type 'Weight\_In\_gmsBaseType'. | 1 |  |
| RM-M01-08 | | cvc-complex-type.2.2: Element 'mat:Birth\_Weight' must have no element [children], and the value must be valid. | 1 |  |
| RM-M01-08 | | cvc-enumeration-valid: Value 'Partial1' is not facet-valid with respect to enumeration '[Exclusive, Fully, Partial, Artificial]'. It must be a value from the enumeration. | 1 |  |
| RM-M01-08 | | cvc-type.3.1.3: The value 'Partial1' of element 'mat:Breast\_Feeding\_Status\_At\_2\_Weeks' is not valid. | 1 |  |
| **Total** | |  | **12** |  |

## G.2 File with valid data

### G2.1 Extract file

<?xml version="1.0" encoding="utf-8"?>

<mat:DHB\_Primary\_Maternity\_Data\_Collection\_Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:mat="http://moh.govt.nz/maternity/v1.0"

Document\_Reference="TEST\_MAT20120831\_3061\_001\_EXTRACT.xml" File\_Version="1.00"

xsi:schemaLocation="http://moh.govt.nz/maternity/v1.0

file:///X:/Workspaces/Testing%20Services/Projects/DHB%20Primary%20Maternity%20Data/Mat%20XML%20Files/Sample%20Mat%20files/Latest%20XSD/DHB\_Primary\_Maternity\_Data\_Collection\_v0\_10.xsd">

<mat:DHB\_Details>

<mat:DHB\_Of\_Service>3061</mat:DHB\_Of\_Service>

<mat:Extract\_DateTime>2012-08-31T09:14:30</mat:Extract\_DateTime>

</mat:DHB\_Details>

<mat:Create\_Request PregnancyIdentifier="2103bfab-b1ad-4566-b087-44228c47186d" BatchRequestId="1">

<mat:Pregnancy\_Details>

<mat:Woman\_Details>

<mat:Woman\_Identity>

<mat:NHI\_Number>FPH9244</mat:NHI\_Number>

<mat:Date\_Of\_Birth>1983-01-04</mat:Date\_Of\_Birth>

<mat:Maternal\_Death\_Indicator>false</mat:Maternal\_Death\_Indicator>

</mat:Woman\_Identity>

<mat:Allocation>

<mat:Ethnicity>21111</mat:Ethnicity>

<mat:Height\_In\_cms isVerified="true">161</mat:Height\_In\_cms>

<mat:Smoking\_Status\_At\_Allocation>true</mat:Smoking\_Status\_At\_Allocation>

<mat:Smoking\_Quantity\_At\_Allocation>L</mat:Smoking\_Quantity\_At\_Allocation>

<mat:Gravida>4</mat:Gravida>

<mat:Parity>3</mat:Parity>

<mat:LMP>2010-01-25</mat:LMP>

<mat:EDD>2010-11-01</mat:EDD>

</mat:Allocation>

<mat:Antenatal>

<mat:Type\_Of\_Service>1</mat:Type\_Of\_Service>

<mat:Date\_Of\_First\_Antenatal\_Service>2010-03-17</mat:Date\_Of\_First\_Antenatal\_Service>

<mat:DHB\_Practitioner>163886</mat:DHB\_Practitioner>

<mat:Antenatal\_Visits\_1st\_Trimester isVerified="true">0</mat:Antenatal\_Visits\_1st\_Trimester>

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<mat:Wellchild\_Referral>P</mat:Wellchild\_Referral>

</mat:Postnatal>

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<mat:Baby\_Identity>

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</mat:Baby\_Identity>

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<mat:Gestational\_Age isVerified="true">40</mat:Gestational\_Age>

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</mat:Baby\_Details>

</mat:Pregnancy\_Details>

</mat:Create\_Request>

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<mat:Pregnancy\_Details>

<mat:Woman\_Details>

<mat:Woman\_Identity>

<mat:NHI\_Number>FPP6299</mat:NHI\_Number>

<mat:Date\_Of\_Birth>1975-09-24</mat:Date\_Of\_Birth>

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</mat:Woman\_Identity>

<mat:Allocation>

<mat:Ethnicity>21111</mat:Ethnicity>

<mat:Height\_In\_cms isVerified="true">174</mat:Height\_In\_cms>

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<mat:GP\_Referral>Y</mat:GP\_Referral>

<mat:Wellchild\_Referral>P</mat:Wellchild\_Referral>

</mat:Postnatal>

</mat:Woman\_Details>

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<mat:Baby\_Identity>

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</mat:Baby\_Identity>

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<mat:Birth\_Condition>LB</mat:Birth\_Condition>

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<mat:Postnatal\_Baby\_Details>

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</mat:Postnatal\_Baby\_Details>

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</mat:Pregnancy\_Details>

</mat:Replace\_Request>

<mat:Delete\_Request PregnancyIdentifier="ac0e9b5a-d332-45a4-b6d4-7676f216f2be" BatchRequestId="3">

</mat:Delete\_Request>

</mat:DHB\_Primary\_Maternity\_Data\_Collection\_Document>

### G2.2 Response file

<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>

<DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement xmlns="http://moh.govt.nz/maternity/v1.0" Document\_Reference="TEST\_MAT20120831\_3061\_001\_EXTRACT.xml" File\_Version="1.00">

  <Status>ACCEPTED</Status>

  <Number\_Of\_Create\_Requests\_Received>1</Number\_Of\_Create\_Requests\_Received>

  <Number\_Of\_Create\_Requests\_Rejected>0</Number\_Of\_Create\_Requests\_Rejected>

  <Number\_Of\_Replace\_Requests\_Received>1</Number\_Of\_Replace\_Requests\_Received>

  <Number\_Of\_Replace\_Requests\_Rejected>0</Number\_Of\_Replace\_Requests\_Rejected>

  <Number\_Of\_Delete\_Requests\_Received>1</Number\_Of\_Delete\_Requests\_Received>

  <Number\_Of\_Delete\_Requests\_Rejected>0</Number\_Of\_Delete\_Requests\_Rejected>

  <Processing\_DateTime>2012-11-26T11:54:57.966+13:00</Processing\_DateTime>

<DHB\_Details>

  <DHB\_Of\_Service>3061</DHB\_Of\_Service>

  <Extract\_DateTime>2012-08-31T09:14:30+12:00</Extract\_DateTime>

  </DHB\_Details>

  </DHB\_Primary\_Maternity\_Data\_Collection\_Acknowledgement>

### G2.3 Report

|  |  |  |
| --- | --- | --- |
| DHB Primary Maternity Service Data Collection File Submission Report | | |
| Submitting organisation : | Capital and Coast DHB | |
| Extract File Name: | TEST\_MAT20120831\_3061\_001\_EXTRACT.xml | |
| Extract Date: | 31/08/2012 | |
| Processing Date: | 26/11/2012 | |
| File Status: | ACCEPTED | |

|  |
| --- |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Data Validation Summary** | | | | | |
| **Requests** | | **Received** | **Accepted** | **Rejected** | **Success Rate %** |
| CREATE | | 1 | 1 | 0 | 100 |
| REPLACE | | 1 | 1 | 0 | 0 |
| DELETE | | 1 | 1 | 0 | 0 |
| **Total** | | **3** | **3** | **0** | **100** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Data Validation Error Summary** | | | | |
| **Error Reference** | | **Error Message** | **Count** | **Failed NHI** |
| **Total** | |  | **0** |  |

# Appendix H: Reverse File Example



# Appendix I: File Specification Version History

|  |  |  |
| --- | --- | --- |
| **Version of File Spec** | **Date** | **Change** |
| 0.1 |  | Initial version with business rules based on Detailed Business Requirements v0.3 and XSD Schema v0.01 |
| 0.2 | 19/03/2012 | Extensive revision of 0.1 content based on review comments and inclusion of new information, business rules based on Detailed Business Requirements v0.5 and XSD Schema v0.05 |
| 0.3 | 11/04/2012 | Revisions for business rules and xml schema changes |
| 1.0 | 13/04/2012 | Final version for sign off |
| 2.0 | 22/06/2012 | Amendments to error messages. Inserted data model. |
| 2.1 | 03/07/2012 | Additional error messages |
| 2.2 | 05/07/2012 | Amended text of message RM-M01-06 |
| 2.3 | 19/10/2012 | Included ethnicity code Level 2 to Level 4 mapping table in Appendix C |
| 3.0 | 28/11/2012 | Amendments to message numbers. Updates to sample files. Included notation guide in Section 5. Included Extract File Summary Diagram. |
| 3.2 | 23/01/2013 | 5.1.2 & 7.2 Extract Datetime altered to Extract Date 7.5.4 & 7.6.4 RM-M31-01 message text. |
| 3.3 | 8/02/2013 | Added “Important Notes” in section 5. Fixed up minor discrepancies |
| 3.4 | 19/02/2013 | Amendment to RM-M01-06 message text. Inserted file size limit in 4.1.1. Amended report heading in G1.3 |
| 3.5 | 27/2/2013 | Example of reversal file added and new business rule RM-M101-13 |
| 4.0 | 21/3/2013 | Final |
| 4.1 | 01/10/2014 | CASD 231621 – Amendments to BR-M71-04, RM-M71-19  Also amendments to BR-M31-11 and RM-M31-25 |
| 4.2 | 18/05/2016 | Amendments to allow an agent to submit files on behalf of a DHB |

1. Date of Birth for Baby 1 if multiple birth [↑](#footnote-ref-1)