
System Change Specification

NCAMP2013

NMDS

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Owner	National Health Board Business Unit Solutions Delivery Group Systems Analysis Team
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Table of Contents

1.	Introduction	3
1.1.	Purpose	3
1.2.	Scope	3
1.3.	References	3
2.	Data Changes	4
2.1.	MOH Bowel Screening Pilot purchaser code (NCR ID 64)	4
2.2.	New Cost Weight Code (NCR ID 68).....	4
2.3.	New MDC Type (NCR ID 68).....	4
2.4.	New DRG Grouper Type (NCR ID 68).....	4
2.5.	New Major Diagnostic Categories (NCR ID 68).....	4
2.6.	New DRG Codes (includes NCR ID 68G).....	4
2.7.	New WIES Cost Weight Records (includes NCR ID 68C)	5
2.8.	Reactivate Health Specialty Codes (NCR ID 113).....	5
2.9.	Retired WIES Facilities	5
2.10.	Specialty Purchase Unit Mappings	5
4.	Application Changes	6
4.1.	MOH Screening Pilot purchaser code (NCR ID 64)	6
4.2.	Change to list of facilities eligible for casemix (NCR ID 68A).....	8
4.3.	Revised Purchase Unit Mappings for Disability and health of Older People (NCR ID 68B).....	8
4.4.	Adjustment to the Radiotherapy exclusion rule to include new XPU assignment (NCR ID 68D)	8
4.5.	New NZ-Specific DRG for O66T <i>SFLP for Twin-to-Twin Transfusion Syndrome</i> (NCR ID 68E)	9
4.6.	New NZ-Specific DRG for F03M <i>Transcatheter Pulmonary Valve Implant</i> (NCR ID 68F)	10
4.7.	Primary Maternity Events (NCR ID 68H)	10
4.8.	Retire Intended Day Case Event Type (NCR ID 73).....	12
4.9.	Remove Principal Diagnosis Rule from COF Validation (NCR ID 112).....	12
	Appendix A – Glossary	15
	Appendix B – Document Control	16
B.1.	Document Information	16
B.2.	Distribution List	16
B.3.	Associated Documents	16
B.4.	Document Approval	17

1. Introduction

1.1. Purpose

The purpose of this document is to specify the changes that need to be made to the National Minimal Data Set (NMDS) system for the NCAMP 2013 project.

The intended audience for this specification is DBAs, Developers and Testers.

1.2. Scope

This specification covers the changes to the NMDS transactional system. There is a separate specification for changes to the NMD data mart.

1.3. References

The following table provides reference to the Change Notifications for NCAMP 2013 that apply to NMDS.

Reference Number	Requirement
NCR ID 64	Identify bowel screening pilot colonoscopies in NMDS and NNPAC Introduce MOH Screening Pilot purchaser code
NCR ID 68	WIESNZ13 Methodology and Casemix Purchase Unit Allocation (includes NCR ID 68A – Upgrade AR-DRG to v6.0x)
68A	Five facilities have been retired from the casemix eligible facilities list as they provide no casemix-funded activity. The facilities are 4212, 5814, 5818, 5819 and 5820
68B	Revised purchase unit mappings for Disability and Health of Older People
68C	The DRGs E40A <i>Respiratory System Diagnosis W Ventilator Support W Catastrophic CC</i> and E40B <i>Respiratory System Diagnosis W Ventilator Support W/O Catastrophic CC</i> did not have the correct MV designation. They designation has been changed from 'D' to 'I' ineligible.
68D	Adjusted the Radiotherapy exclusion rule to include new XPU assignment
68E	A new NZ-specific DRG has been developed for O66T <i>SFLP for Twin to Twin Transfusion Syndrome</i>
68F	A new NZ-specific DRG has been developed for F03M <i>Transcatheter Pulmonary Valve Implant (Melody Valve)</i> .
68G	The cost weights apply to the DRG set AR-DRG v6.0x which reinstates 10 DRG complexity splits from AR-DRG v5.0. The 10 reinstated DRGs expanded the 10 DRGs in AR-DRG v6.0 to 20 in AR-DRG v6.0x for maternity, mental health and breast malignancies.
68H	Revised Primary Maternity wording to allow for developments arising from the new Primary Maternity Service Specifications and revised Purchase Unit structure.
NCR ID 73	Retire Intended Day Case Event Type
NCR ID 112	Retire NMDS Validation that generates a warning if the Primary Diagnosis (Type A) has a Condition Onset Flag COF=1 Onset during admission
NCR ID 113	<ol style="list-style-type: none"> Identify Intestinal Failure Specialist Service separately Identify Paediatric Metabolic Events separately

2. Data Changes

2.1. MOH Bowel Screening Pilot purchaser code (NCR ID 64)

1. Insert the following row into the purchaser_code_tab table:

Column	Value
purchaser_code	33
purchase_code_description	MoH Screening Pilot
purchaser_address	Wellington
purchaser_start_date	2011-10-01
purchaser_end_date	null

2.2. New Cost Weight Code (NCR ID 68)

2. Insert the following row into the cost_weight_tab table:

Column	Value
cost_weight_code	14
cost_weight_description	WIESNZ13

2.3. New MDC Type (NCR ID 68)

3. Insert the following row into the mdc_type_tab table:

Column	Value
mdc_type	F
mdc_type_description	AR-DRG version 6.0x

2.4. New DRG Grouper Type (NCR ID 68)

4. Insert the following row into the drg_group_type_tab table:

Column	Value
drg_grouper_type	07
drg_grouper_type_description	AR-DRG Version 6.0x
mdc_type	F

2.5. New Major Diagnostic Categories (NCR ID 68)

5. Insert the following values into the mdc_code_tab table:



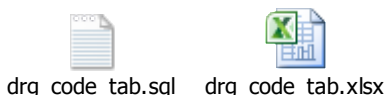
mdc_code_tab.sql



mdc_code_tab.xlsx

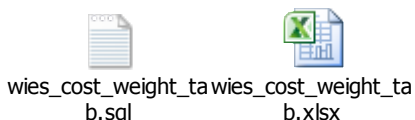
2.6. New DRG Codes (includes NCR ID 68G)

6. Insert the following rows into the drg_code_tab table:



2.7. New WIES Cost Weight Records (includes NCR ID 68C)

7. Insert the following rows into the wies_cost_weight_tab table (WIESNZ13 Appendix 1):



2.8. Reactivate Health Specialty Codes (NCR ID 113)

8. Update the health_specialty_tab to set the health_specialty_end_date to null where the health_specialty_code is in ('M24', 'S11'). It has been confirmed that there is no requirement for these health specialty codes to be ineffective between their current end dates and now.

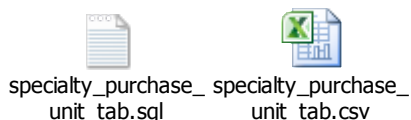
2.9. Retired WIES Facilities

9. Update the wies_facility_tab to set the wies_facility_to_date to the following values for the following wies_facility_code values.

wies_facility_code	wies_facility_to_date
4212	30 June 2013
5814	30 June 2013
5818	30 June 2013
5819	30 June 2013
5820	30 June 2013
8611 (Closed in 2011)	30 June 2011
8918 (Retired since duplicated by 8549)	30 June 2013

2.10. Specialty Purchase Unit Mappings

10. Insert the following records into the specialty_purchase_unit_tab



4. Application Changes

4.1. MOH Screening Pilot purchaser code (NCR ID 64)

11. Where events are submitted with a purchaser code of 33, commit the record with a health_event_tab.private value of 'N' (Requirement 6 in Section 4.2.2 of the HLBRs).
12. In the existing Funding Agency validation, treat events submitted with a principal health services purchaser value of 33 in the same way as for 34. See the area highlighted in **lemon** of Figure 1 on the next page.

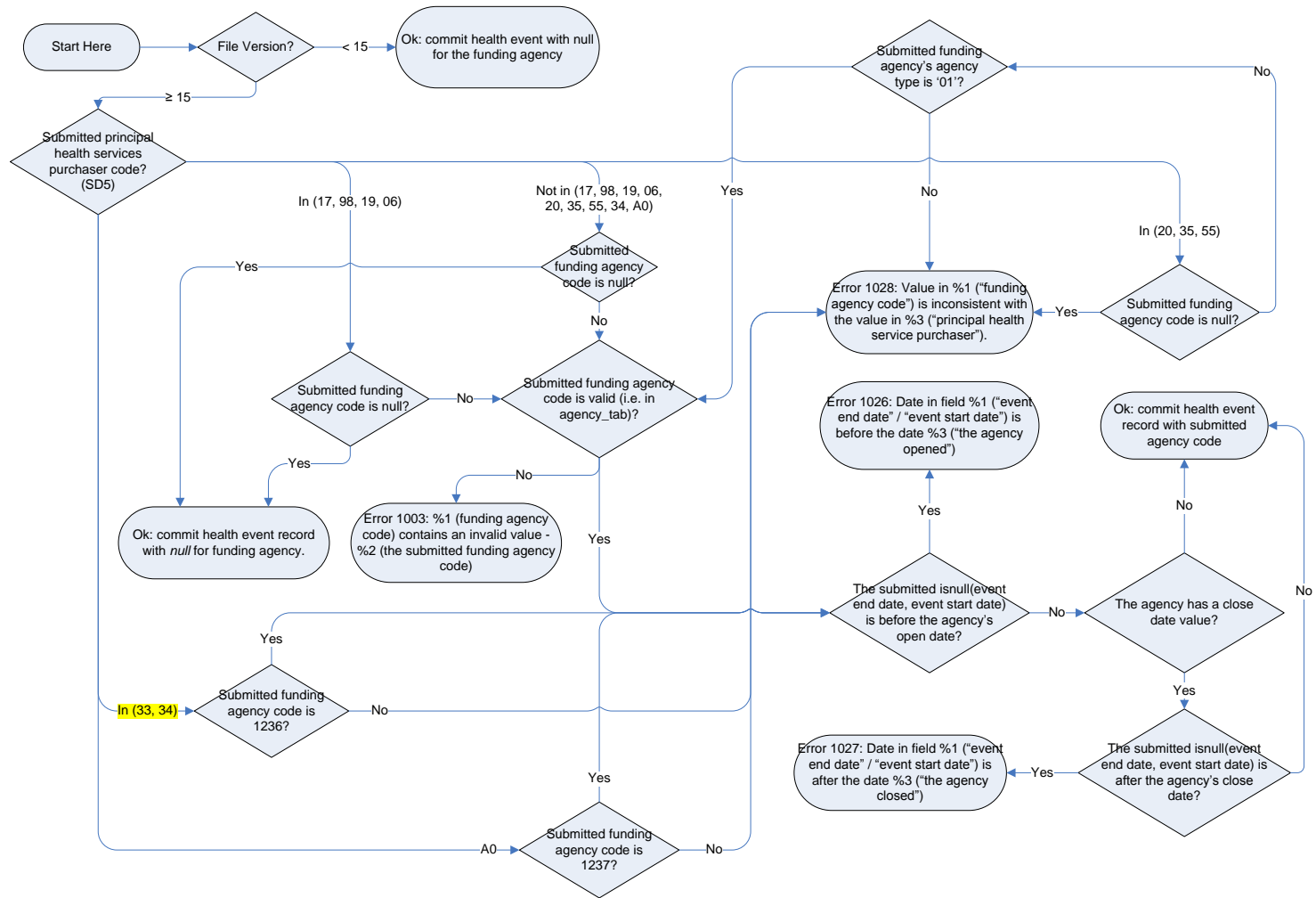


Figure 1

4.2. Change to list of facilities eligible for casemix (NCR ID 68A)

13. In the new WIESNZ13 class, override the list of facilities eligible for casemix to include only those in the following list (4212, 5814, 5818, 5819 and 5820 have been removed – there will also be updates to the wies_facility_tab to reflect this): 0314, 3111, 3214, 3215, 3216, 3250, 3260, 3311, 3411, 3611, 3612, 3811, 3911, 4011, 4013, 4014, 4111, 4112, 4113, 4114, 4211, 4311, 4313, 4411, 4511, 4711, 4712, 4811, 4911, 5011, 5311, 5312, 5313, 5323, 5329, 5511, 5711, 5811, 5812, 5816, 5911, 8024, 8206, 8218, 8233, 8255, 8268, 8270, 8280, 8281, 8284, 8292, 8297, 8303, 8313, 8314, 8331, 8351, 8366, 8377, 8383, 8394, 8405, 8420, 8432, 8459, 8462, 8471, 8473, 8477, 8482, 8487, 8495, 8499, 8507, 8549, 8579, 8580, 8595, 8630, 8644, 8656, 8714, 8715, 8716, 8718, 8719, 8720, 8721, 8722, 8757, 8774, 8784, 8785, 8791, 8792, 8805, 8861, 8867, 8912, 8915, 8916, 8920, 8921, 8924, 8929, 8971, 8977, 8979 (WIESNZ13 Section 5.2.36).

4.3. Revised Purchase Unit Mappings for Disability and health of Older People (NCR ID 68B)

14. In the new WIESNZ13 class, override the NonMedSGExclusionRule method to attribute the following XPUs to events reported with the following health specialty codes (WIESNZ13 Section 5.2.6):

Health Specialty Code	XPU	XPU Description
D00 – D03	HOP214	Age Related AT&R
D04	HOP1013	Carer Support Respite Day
D20 – D24	HOP235	Psychogeriatric AT&R
D40 – D44	DSS214	Young Physically Disabled AT&R
D10 – D11	HOP1006	Aged Residential Care – Hospital
D12	HOP1044	Aged Residential Respite – Hospital level
D13	HOP1033	Aged Residential Care – Rest Home
D14	HOP1043	Aged Residential Respite – Rest Home level
D30 – D31	HOP1035	Aged Residential Care – Specialist
D32	HOP1046	Aged Residential Respite – Psychogeriatric level
D33	HOP1032	Aged Residential Care – Secure Dementia
D34	HOP1043	Aged Residential Respite – Dementia level

4.4. Adjustment to the Radiotherapy exclusion rule to include new XPU assignment (NCR ID 68D)

The XPU M50005 has been replaced by two new XPUs, M50024 and M50025 (WIESNZ13 Section 5.2.25).

15. In the new WIESNZ13 class, override the radiotherapy exclusion rule to use the logic in Figure 2 for determining the excluded purchase unit for radiotherapy events. Note that the first three nodes in Figure 2 are the same as the existing logic.

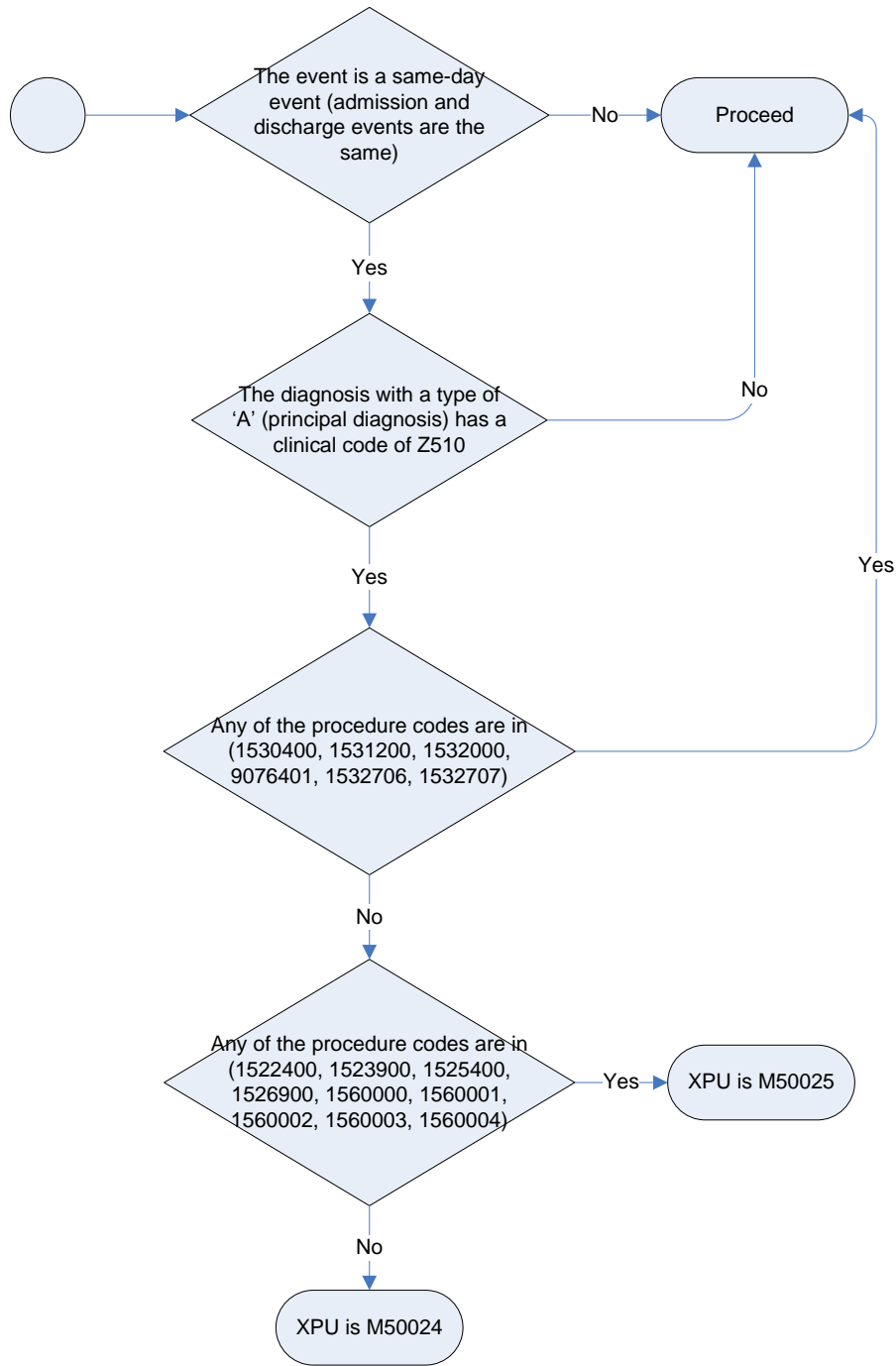


Figure 2

4.5. New NZ-Specific DRG for O66T SFLP for Twin-to-Twin Transfusion Syndrome (NCR ID 68E)

- 16. Before allocating cost weights to events, update health_event_tab.nz_drg_code_current with the new NZ-specific DRG code of O66T (SFLP for Twin to Twin Transfusion Syndrome) for events whose principal diagnosis is O430 (Placental transfusion syndromes) AND one of the first 30 procedure codes is 9048800 (Endoscopic ablation of vessels and placental). (WIESNZ13 Section 4.3.2).

4.6. New NZ-Specific DRG for F03M *Transcatheter Pulmonary Valve Implant* (NCR ID 68F)

17. Before allocating cost weights to events, update `health_event_tab.nz_drg_code_current` with the new NZ-specific DRG code of F03M for events containing in the first thirty procedures at least one procedure with the clinical code 3848807 and at least one procedure code with the clinical code 3827003 with the same `diagnosis_procedure_tab.procedure_acc_date` value (WIESNZ13 Section 4.3.2).

4.7. Primary Maternity Events (NCR ID 68H)

All primary maternity events will be excluded from casemix (WIESNZ13 5.2.16). They will be attributed with a XPU of W02020 and the cost weight will be calculated depending on the value of the health specialty code (HSC), the length of stay (LoS), and various weightings. The matfac list referred to in the following two figures is as follows: 4111, 3215, 3216, 3213, 3214, 3260, 5311, 5312, 4911, 3311, 3411, 4711, 5711, 3612, 5511, 4311, 5811, 5812, 3811, 3911, 4014, 4011, 5911, 4411, 4211, 4511.

A criterion specified in WIESNZ13 for primary maternity events has not been included here since it ought to already have been satisfied elsewhere in application's process. This is the so-called 'Boarder Check' which is to include records where the primary diagnosis is not Z763 (Healthy person accompanying sick person) or Z764 (Other boarder in health-care facility). See Section 5.2.4 of WIESNZ13 on Non-Treated Patients (Boarders or Cancelled Operations).

18. In the WIESNZ13 class, override the primary maternity method to use the following to identify primary maternity events, identifying them with an XPU of W02020, and setting the health event's cost weight value to the RVU values in Figure 3 or in the alternative Figure 4 below:

NMDS

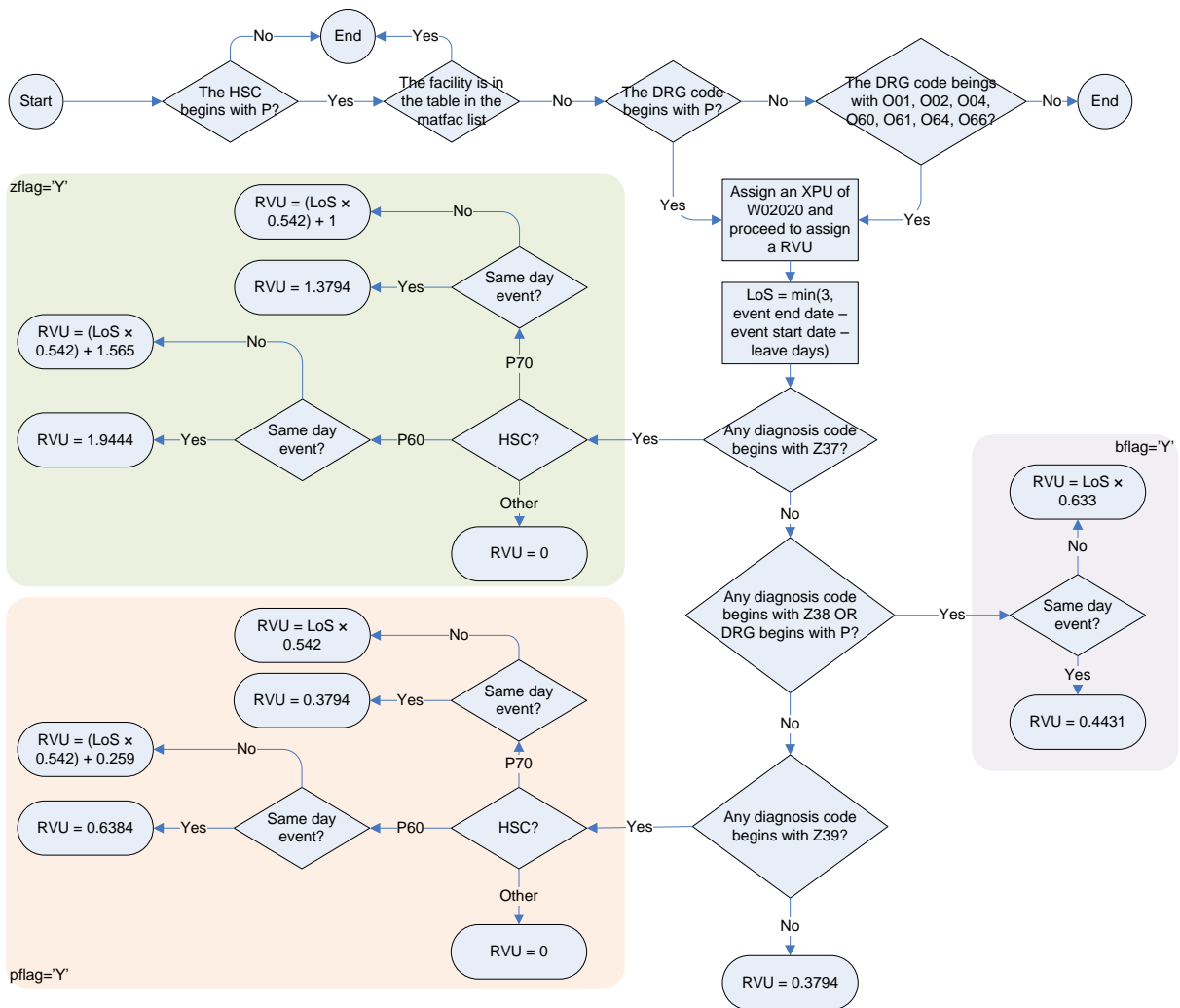


Figure 3

There is an alternative version of this tree in Figure 4 on the next page which evaluates the length of stay once.

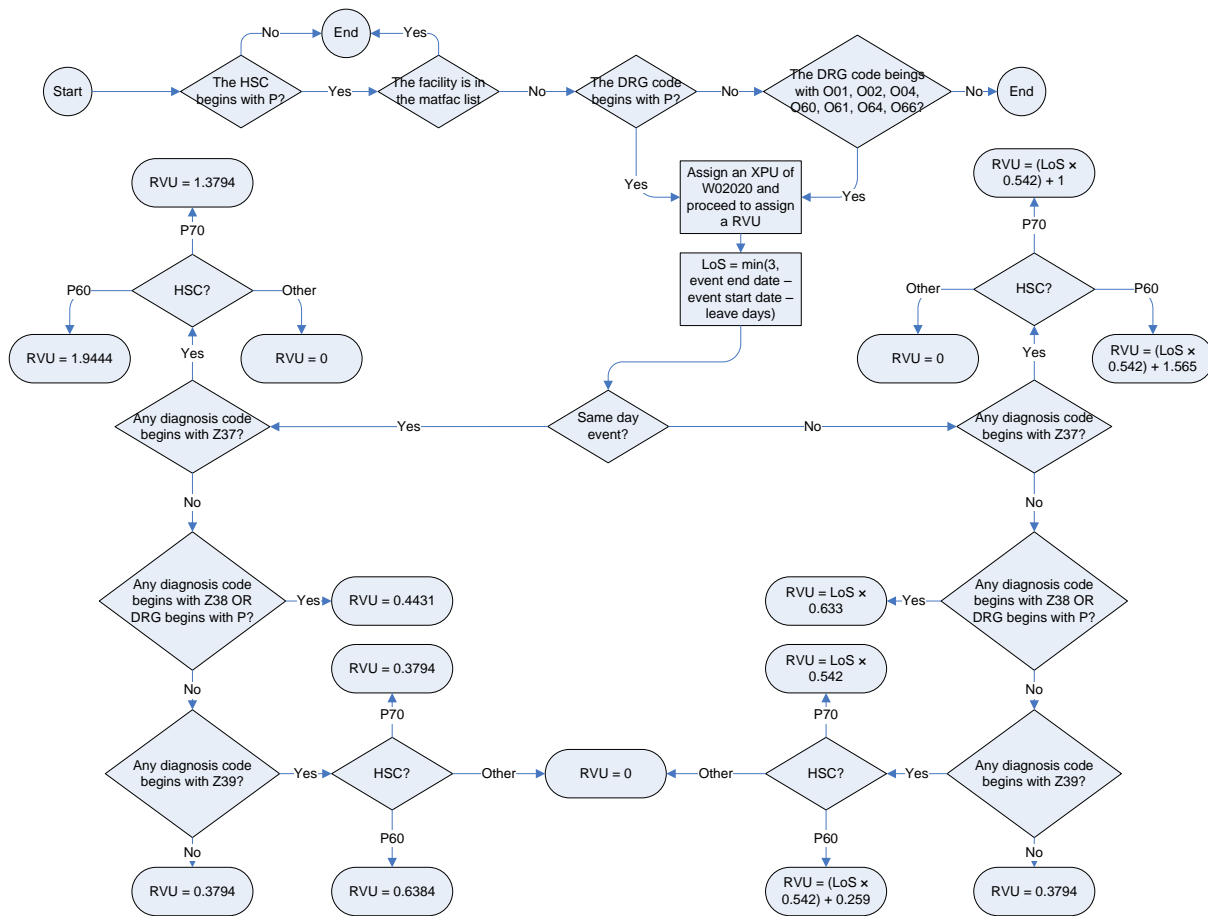


Figure 4

4.8. Retire Intended Day Case Event Type (NCR ID 73)

The Event Type 'ID' is being retired, and any event submitted with an event end date on or after 1 July 2013 needs to be rejected.

We are making the assumption that at the time of going live, there will be no pre-existing ID events with an end date on or after 1 July 2013. Such events would not be able to be deleted.

19. If the event end date value is on or after 1 July 2013, reject the record with the Error ID 1003 "%1 contains an invalid value - %2" replacing %1 with "Event Type" and %2 with "ID".

4.9. Remove Principal Diagnosis Rule from COF Validation (NCR ID 112)

20. Alter the COF validation to remove the principal diagnosis rule (where diagnosis records should be rejected with warning where the COF value is '1' and the diagnosis type value is 'A') by altering the white nodes with broken lines in Figure 5 such that the remaining validation process resembles that in Figure 6.

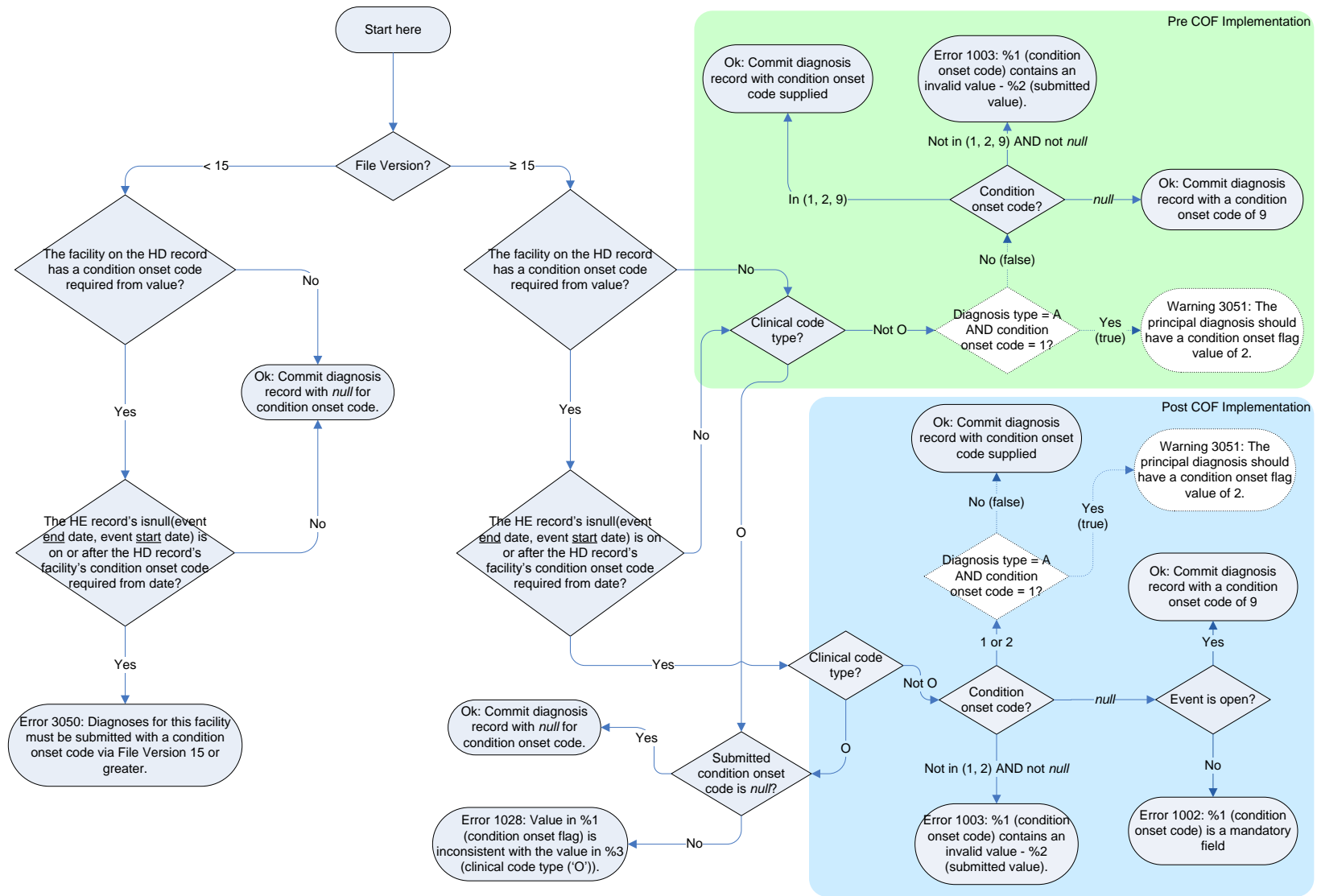


Figure 5

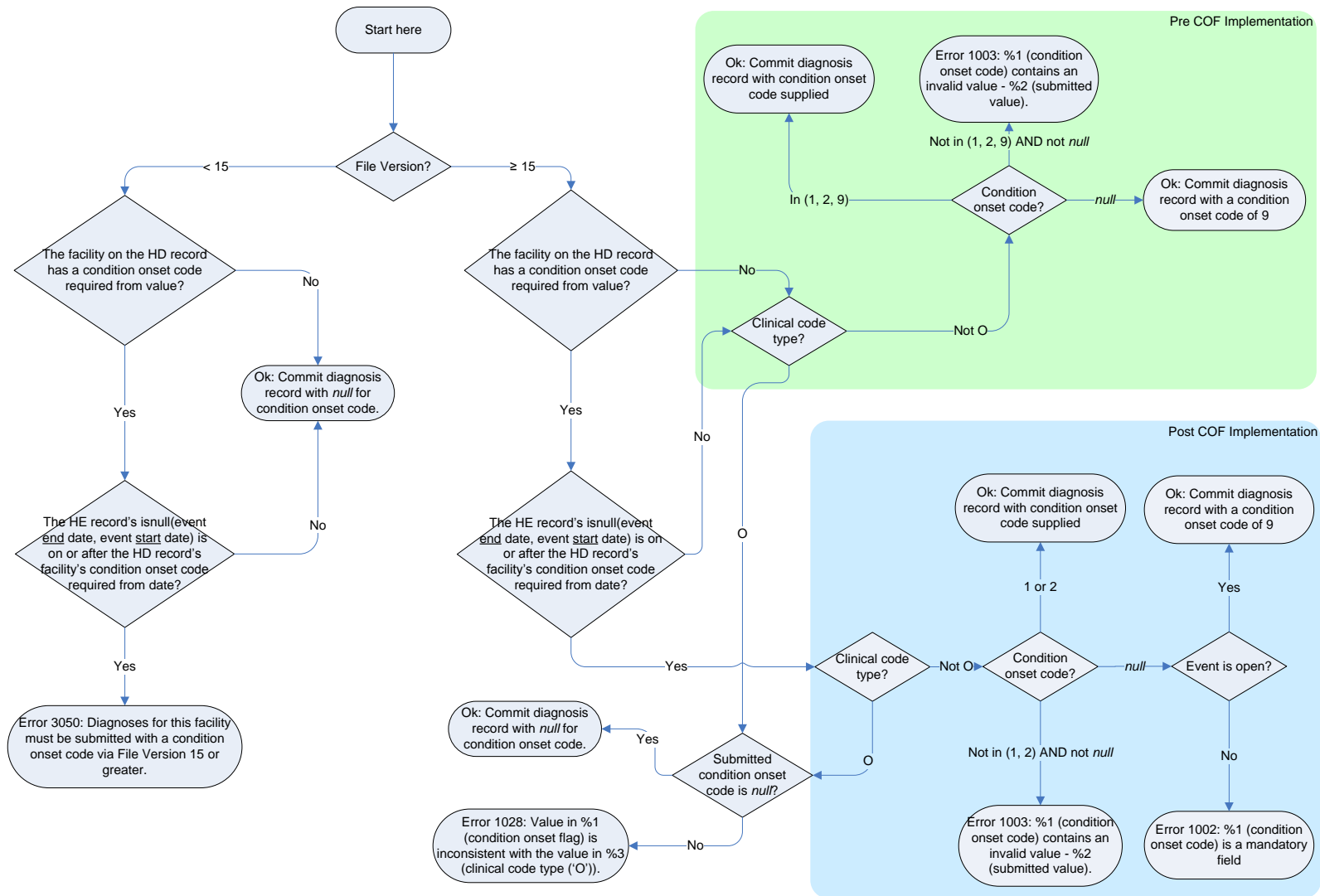


Figure 6

Appendix A – Glossary

Term	Definition
BO	Business Objects
DRG	Diagnosis Related Group
ED	Emergency Department
EP	Electrophysiology
ESPI	Elective Services Patient Flow Indicator
HSC	Health Specialty Code
LoS	Length of Stay
NBRS	National Booking Reporting System – waiting list for procedures
NBR	National Booking Reporting Data Mart
NMDS	National Minimum Data Set – hospital patient discharge data
NMD	National Minimum Data Set Data Mart
NNPAC	National Non-admitted Patient Collection
NCAMP	National Collections Annual Maintenance Programme
PMS	Patient Management System
RVU	Relative Value Unit
WIES	Weighted Inlier Equivalent Separations A casemix methodology for purchasing a range of inpatient events (principally medical/surgical events)
XPU	Excluded Purchase Unit

Appendix B – Document Control

B.1. Document Information

System name:	NMDS
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Date:	26/02/13
Prepared by:	Lee Gibson Systems Analyst
Document location:	X:\Workspaces\System Analysis\Projects and Releases\NCAMP 2013\System Analysis National Collections and Reporting (NCR) Projects filing \NCR 3529 NCAMP 2013 \Product File\Analysis and Design\Specifications \NMDS Change Specification – NCAMP2013

Document Revision History

Ver.	Date	Author	Description of changes
0.1	8/10/2012	Lee Gibson	Document Generation
0.2	22/11/2012	Lee Gibson	Updated after discussion with Bhargavi Padamata and Jacqueline Brookman
0.3	27/11/2012	Lee Gibson	Incorporates feedback received from Leslie Ault, adding Sections 2.3 and 2.9.
1.0	28/11/2012	Lee Gibson	First Release.
1.1	10/12/2012	Lee Gibson	Includes a couple of corrections pointed out by Tracy Thompson.
1.2	25/02/2013	Lee Gibson	Added insert statements for specialty_purchase_unit_tab (Section 2.10)

B.2. Distribution List

Name	Role	Group
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Jacqueline Brookman	Senior Test Analyst	Solutions Delivery
Rachel Lee	Database Administrator	Technology Services

B.3. Associated Documents

Document Title Location	Ver.	Release Date
New Zealand Casemix Framework For Publicly Funded Hospitals	1.0	5/10/2012

including WIESNZ13 Methodology and Casemix Purchase Unit Allocation for the 2013/14 Financial Year. Notes://WMN2/CC25750F00057677/C26F32C1426B295ECC25703B006FBE31/CC257799001BA104CC257AB7007D2F53		
NCAMP 2013 High Level Business Requirements Notes://WMN2/CC25750F00057677/C26F32C1426B295ECC25703B006FBE31/4F39B936BF39A27BCC257A93007A32C9	1.0	19/11/2012

B4. Document Approval

Name	Title	Date	Signed
Laiq Syed	Team Leader Systems Analysis		
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Mathew Tavendale	Senior Supplier Solutions Delivery		