

R50_Z04 – Enroll Subscriber without PHN

1 General

Standards for messaging to and from Ministry of Health applications using HL7 are described in a series of business and technical volumes. Volumes 1, 2, 5, 6 and 7 are common for all application interfaces. Volumes 3 and 4 are customized to the requirements of particular business areas. This message specification is a component of Volume 4 – HL7 Message Specifications.

A catalogue of all supported messages and message interactions can be found in Volume 1.

All documentation is available on the *healthnetBC* software development web site

<http://healthnet.hnet.bc.ca/catalogu/tech/compdocs.html>

1.1 Corrections and updates

Corrections and update notes can be found at the end of this document. A vertical line in the outside boarder denotes corrections within the document.¹

1.2 R50_Z04 - Transaction Overview

This message is related to establishment and maintenance of insurance premium payment contracts.

Allow third-party payers to register and enroll their employees who are permanent residents of BC (i.e. Canadian citizens or Landed Immigrants), as new Ministry of Health beneficiaries. This transaction will allow just the subscriber to be added and is only to be used for persons who have never resided in BC previously and have not been assigned a BC Personal Health Number (PHN).

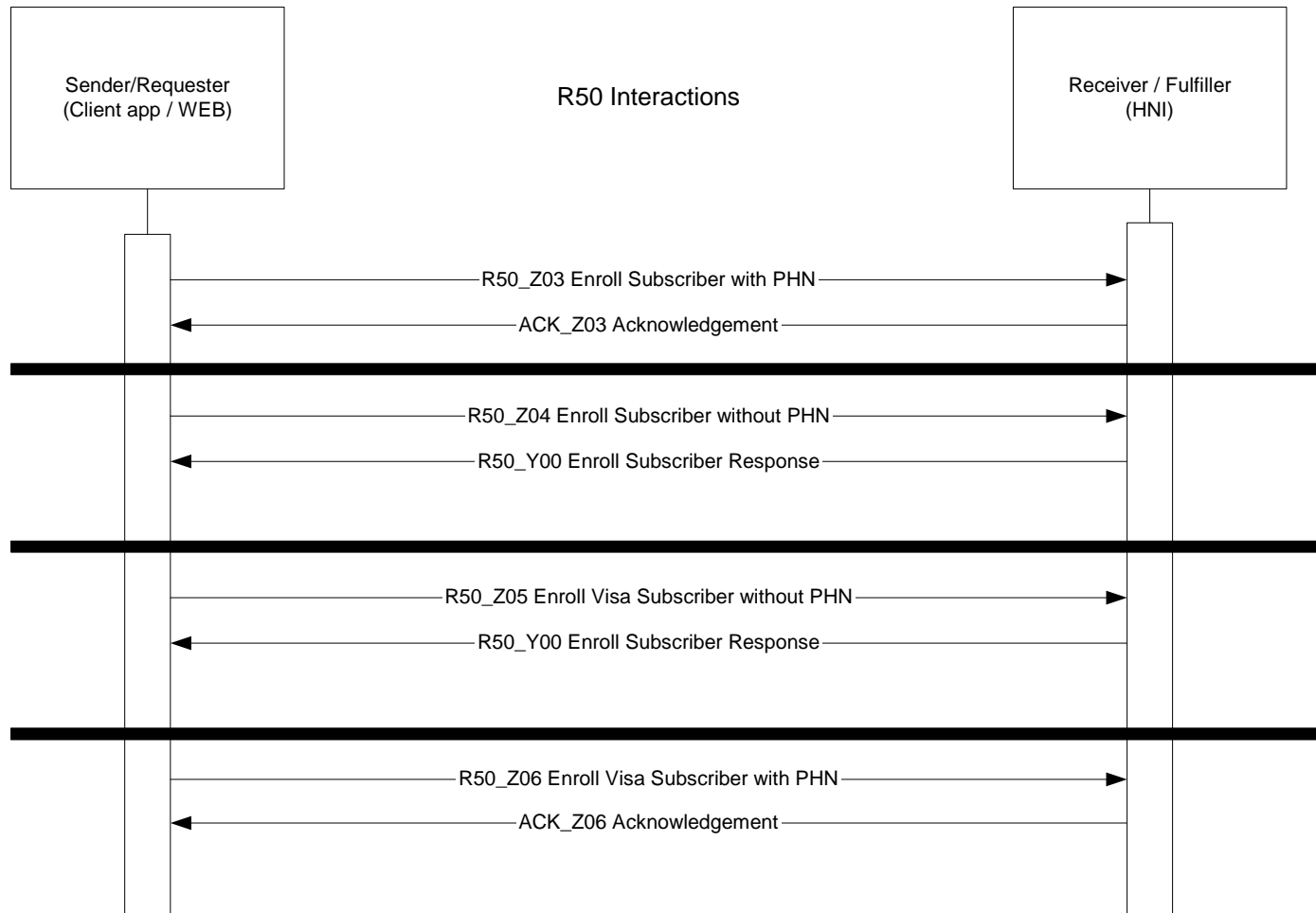
An R09 – Search for Person transaction must be submitted prior to using this transaction to obtain any pre-assigned PHN before a new enrolment is performed.

If the PHN is found then an R50_Z03 should be used instead of this message.

R50 Supported Trigger Events.						
This table lists ALL supported trigger events for the R50 message. Note the following:						
<ol style="list-style-type: none"> 1. A response trigger 'Y00' is defined for messages which return business data, otherwise a standard ACK response message is sent that echo's the trigger event code on the inbound message. 2. In addition to the triggers listed here, network communication failures will also return an ACK response. See Volume 5 for details. 						
Initial Message			Response Message			
Message Type	Trigger	Description	Message Type	Trigger	Description	Remarks
R50	Z03	Enroll Subscriber with PHN	ACK	Z03	Acknowledgement	An ACK message is returned indicating the success or failure of the request
R50	Z04	Enroll Subscriber without PHN	R50	Y00	Enroll subscriber response	Returns enrollment processing result and, if successful, includes a newly created PHN.
R50	Z05	Enroll Visa Subscriber without PHN	R50	Y00	Enroll subscriber response	Returns enrollment processing result and, if successful, includes a newly created PHN.
R50	Z06	Enroll Visa Subscriber with PHN	ACK	Z06	Acknowledgement	An ACK message is returned indicating the success or failure of the request

1.3 R50^ - Valid Interactions

The figure below illustrates all of the interactions that are supported for the R50 message. Note that each message is defined by Message Type + Trigger Event.



Sending System

1.4 R50_Z04 - Processing Rules – Sending System

1. Extended Address on ZIA input:

At least one and up to two addresses may be supplied with this transaction, a residential/home address (Address Type of Extended Address on ZIA = “H”) and a mailing address (Address Type of Extended Address on ZIA = “M”).

If only one address is specified, it must be the residential/home address (Address Type = “H”). If a residential/home address is specified (Address Type = “H”), then Zip or Postal Code is also required.

If two addresses are specified, then two repetitions of Extended Address on one ZIA must be used. The types (Address Type of Extended Address) cannot be the same between the two repetitions. The addresses may be specified in any order by using Address Type to distinguish the type of address. The mailing (Address Type = “M”) is specified only if different than the residential/home address (Address Type = “H”).

If two addresses are specified, then Zip or Postal Code is also required for the mailing address (Address Type = “M”).

2. Up to two telephone numbers may be supplied with this transaction.

If two telephone numbers are specified, then two repetitions of Extended Telephone Number on one ZIA must be used. The types (Telecommunications Use Code of Extended Telephone Number on ZIA) cannot be the same between the two repetitions. The telephone numbers may be specified in any order by using the Telecommunications Use Code to distinguish the telephone usage.

3. Plan Effective Date on IN1 must:

- Be the 1st day of the month
- Be more than 2 months after the later of BC Residency Date or Visa Issue Date for Landed Immigrants.
- Be more than 2 months after BC Residency Date for Canadian citizens
- Not be more than 14 months in the past or 12 months in the future.
- Be greater than the employee’s date of birth

4. ZIK is conditionally required based on the value of the ZIA.24 - Immigration Or Visa Code.

ZIA.24 - Immigration Or	ZIK Requirement Business Rule
------------------------------------	--------------------------------------

Visa Code	
L	The sender must indicate only the Landed Immigration Document Issue Date. This is done through one instance of the Document Argument field in the ZIK segment. First instance of ZIK.4 Document Argument <ul style="list-style-type: none"> • Argument Name is set to "VISA_ISSUE" • Argument Value is set to the Landed Immigration Document Issue Date with a format of CCYYMMDD
K	The ZIK will be omitted for Canadian Citizens.

5. ZIA Prior Residence Code should only be empty if the person was not previously residing outside of BC, e.g. newborns, BC residents previously opted out of MSP, BC residents previously covered under a federal health care plan.

1.5 R50_Z04 - Minimum Display/Print Standards – Sending System

For each submission of this transaction, an indication of success or failure must be either:

- Displayed to the user, if transaction submitted on-line, or
- Printed on a paper report or logged in a file, if transaction submitted in batch.

Success or failure can be determined by using the tests below:

- **Success** = MSA segment present and Acknowledgement Code on MSA = "AA" (application accept),
- **Failure** = no MSA segment or Acknowledgement Code on MSA not = "AA" (application accept). Acknowledgement Code may be "AE" (application error) or "AR" (application reject). See 'MSA Segment in Volume 5 for more information on acknowledgement code use.

For a transaction failure,

- The following data elements must be displayed to the user, reported or logged (see above):

Information Returned by HealthNet/BC	Mandatory Display	Display on First Screen?	Segment	Field

Text Message	Y	Y	MSA	Text Message (see segment for field decomposition rules)
All information, warning, error messages on ERR segment	Y	Y	ERR	Error Code and Location: Identifier of Code Identifying Error, Text of Code Identifying Error

For a transaction success

- The following data elements must be displayed to the user, reported or logged (see above):

Information Returned by HealthNet/BC	Mandatory Display	Display on First Screen?	Segment	Field
PHN, if returned and enrollment successful	Y	Y	PID	External Patient ID (PHN): ID

1.6 R50_Z04 - Transaction Summary - Sending System

The following specification illustrates the structure of the HL7 transaction.

{ } denotes one or more repetitions of the enclosed segment(s)

[] denotes that the enclosed segments are optional

Refer to Appendix A, "HealthNet/BC Fixed Length Segment Definitions" for more details on each of the segment definitions.

Input Transaction (R50_Z04)

MSH	Message Header	Required
ZHD	HealthNet/BC Message Header	Required
PID	Person Identification	Required
ZIA	HealthNet/BC Person Identification Extension	Required
IN1	Insurance	Required
[ZIH]	HealthNet/BC Insurance Information	Optional
[ZIK]	HealthNet/BC Documentation Extension	Conditionally Required

1.7 R50_Z04 - Transaction Segments and Fields - Sending System

MSH		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment Id	R			HL7: SI		"MSH"
1	Field Separator	R			HL7: ST		" "
2	Encoding Characters	R			HL7: ST		"^~\&"
3	Sending Application	R			HNET :HD		<ul style="list-style-type: none"> Namespace ID (15) - Business application that originated the transaction; user defined/assigned
4	Sending Facility	R			HNET :ID		<ul style="list-style-type: none"> Namespace ID (20) - Sending Network Facility ID; HealthNet/BC assigned
5	Receiving Application	R			HNET :HD		<ul style="list-style-type: none"> Namespace ID (15) - Business application that will accept the transaction; valid value is "RAIENROL-EMP"
6	Receiving Facility	R			HNET :HD		<ul style="list-style-type: none"> Namespace ID (20) - Receiving Network Facility ID; HealthNet/BC assigned
7	Date/Time of Message	R			HNET :TS		Date/Time transaction was sent from sending system (24) – YYYYMMDDHHMMSS[.S[S[S[S]]]][/+Z-]ZZZZ
8	Security	R			HL7: ST		User ID that uniquely identifies sending system user (20)
9	Message Type	R			HL7: CM4		<ul style="list-style-type: none"> Message Type (3) - Transaction Identification; valid value is "R50" Trigger Event (3) - required; valid values is "Z04"
10	Message Control ID	R			HL7: ST		Unique transaction number (20) - see MSH definition for more information

MSH								Required							
Seq	Field	Req/ Opt	# of Reqs	Proc Rule	Data Type	Table	Field Notes								
11	Processing ID	R			HL7: PT	HNET :0103	<ul style="list-style-type: none"> Processing ID (1) - valid values are "D", "E", "T", "P" 								
12	Version ID	R			HL7: ID	HL7:0 104	HL7 version supported by HealthNet/BC (8) - valid value is "2.3"								

ZHD								Required							
Seq	Field	Req/ Opt	# of Reqs	Proc Rule	Data Type	Table	Field Notes								
-	Segment Id	R			HL7: SI		"ZHD"								
1	Business Event Date/Time	R			HNET : TS		Date/Time business event occurred that "created" this transaction (19) - YYYYMMDDHHMMSS+/-ZZZZ								
2	Business Organization	R			HNET : XON		Business organization that originated the transaction; HealthNet/BC assigned <ul style="list-style-type: none"> Organization Name – Not Supported ² Organization Name Type code – Not Supported ID Number (20) - Organization ID; required 								
3	Business User Group	R			HL7: ST		Business User Group or Role that user belongs to (30)								
7	Software Version Number	R			HL7: ST		Latest version number of sending application software that has been compliance tested by HealthNet/BC (15)								

PID		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			HL7: SI		"PID"
3	<i>Internal Patient ID</i>	-					<i>Not Supported</i> ³
4	Alternate Patient ID	RE			HNET : CX		Previous Personal Health Number (PHN) from a province other than BC for subscriber <ul style="list-style-type: none"> • ID (20) - Personal Health Number (PHN); required • <i>Check Digit – Not supported</i> • <i>Code Identifying the Check Digit Scheme Employed – Not Supported</i> • Namespace ID of Assigning Authority (5) - Identifier Issuing Jurisdiction; required; valid values are Canadian Provinces other than "BC". See Table HNET:0300 for a list of valid values. • Identifier Type Code (2) - required; valid value is "PH"
5	<i>Patient Name</i>	-					<i>Not Supported</i> ³
7	Date of Birth	R			HNET : TS		CCYYMMDD (8) – required
8	Sex	R			HL7: IS	HL7: 0001	Gender (1) - valid values are "F", "M"

ZIA		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			HL7: SI		"ZIA"
2	BC Residency Date	R			HL7: DT		(8) - CCYYMMDD
15	Extended Person Name	R			HNET : ZPN		<ul style="list-style-type: none"> • Family Name (35) - required • First Given Name (15) - required • Second Given Name (15) - optional • Third Given Name (15) – optional • <i>Suffix (6) - Not Supported</i> • <i>Prefix (6) – Not Supported</i> • Name Type Code (1) - required; valid value is "L"

ZIA		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
16	Extended Address	R	1-2	1	HNET : ZAD		<ul style="list-style-type: none"> • Address Line1 (25) - required • Address Line2 (25) - optional • Address Line3 (25) - optional • Address Line4 (25) - optional • <i>Address Line5 - Not Supported</i> • <i>Address Line6 - Not Supported</i> • <i>Street Number - Not Supported</i> • <i>Street Number Suffix - Not Supported</i> • <i>Street Name - Not Supported</i> • <i>Street Type - Not Supported</i> • <i>Street Direction - Not Supported</i> • <i>Unit Identifier - Not Supported</i> • <i>Unit Designator - Not Supported</i> • <i>Delivery Installation Area - Not Supported</i> • <i>Delivery Installation Type - Not Supported</i> • <i>Delivery Installation Qualifier - Not Supported</i> • <i>Mode of Delivery Designator - Not Supported</i> • <i>Mode of Delivery ID - Not Supported</i> • <i>Physical Description - Not Supported</i> • City (25) - required • State or Province (2) – required • Zip or Postal Code (10) - required; only first 6 characters of this field will be stored. • <i>Country – Not Supported</i> • Address Type (1) - Address Purpose; required; valid values are "M", "H"; see Processing Rules for use of this field

ZIA		Required					
Seq	Field	Req/ Opt	# of Reqs	Proc Rule	Data Type	Table	Field Notes
17	Extended Telephone Number	RE	0-2	2	HNET : ZTN		Phone numbers <ul style="list-style-type: none"> • <i>Unstructured Phone Number – Not Supported</i> • Telecommunication Use Code (3) - Telephone Purpose; required; valid value is "PRN", "ORN", "WPN", "EMR" • Telecommunication Equipment Type (2) – Telephone Type; required; valid value is "PH" • <i>Email address – Not Supported</i> • <i>Country Code – Not Supported</i> • Area/city Code (3) - required • Phone Number (7) - required
24	Immigration or Visa Code	R			HL7: ID	HNET :9932	Subscriber Immigration or Visa Code (1); valid values are "K", "L"
25	Prior Residence Code	RE		7	HL7: ID	HNET :9931	Previous Province of Residence Code (2)

IN1		Required					
Seq	Field	Req/ Opt	# of Reqs	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R					"IN1"
1	<i>Set ID – IN1</i>	-					<i>Not Supported</i> ³
2	<i>Insurance Plan ID</i>	-					<i>Not Supported</i> ³
3	<i>Insurance Company ID</i>	-					<i>Not Supported</i> ³
8	Group Number	R			HL7: <u>---</u>		Group Number (7)

IN1		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
					ST		
10	Insured's Group Emp ID	RE			HNET :CX		Payer identifier for the insured. May be employee number, or student number (VISA students) <ul style="list-style-type: none"> ID - Employee Number (9) - required
11	Insured's Group Emp Name	RE			HNET :XON		Employee Department Number <ul style="list-style-type: none"> ID Number (6) - required
12	Plan Effective Date	R		3	HL7: DT		Coverage Effective Date (8)

ZIK		Optional					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			HL7: SI		"ZIA"
4	Document Argument	CE		4	HNET :ZRG		<ul style="list-style-type: none"> Argument Name (10) – required; valid value is "VISA_ISSUE" Argument Value (8) – required. The date the Landed Immigration document was issued (CCYYMMDD)

2 Receiving System

2.1 R50_Y00 - Processing Rules – Receiving System

No Processing Rules have been defined at this time.

2.2 R50_Y00 - Transaction Summary – Receiving System

The following specification illustrates the structure of the HL7 transaction.

{ } denotes one or more repetitions of the enclosed segment(s)

[] denotes that the enclosed segments are optional

Refer to 'Appendix A, HealthNet/BC Fixed Length Segment Definitions' for more details on each of the segment definitions.

Output Transaction (R50_Y00)

MSH	Message Header	Required
MSA	Message Acknowledgement	Required
[{ ERR }]	Error	Optional, Repeats, minimum 0, maximum 10
[Optional, if enrollment successful, then Required
PID	Person Identification	Required
]		

2.3 R50_Y00 - Transaction Segments and Fields - Receiving System

MSH	Required						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment Id	R			HL7: ST		"MSH"
1	Field Separator	R			HL7: ST		" "
2	Encoding Characters	R			HL7: ST		"^~\&"
3	Sending Application	R			HNET : HD		= Receiving Application on MSH input, "HNCLIENT", "HNGATE" <ul style="list-style-type: none"> For more information on "HNCLIENT/HNGATE values, see 'No Response from the network' in Volume 5.
4	Sending Facility	R			HNET : HD		= Receiving Facility on MSH input or Network Facility ID of HNCLIENT/HNGATE if Sending Application on MSH = "HNCLIENT" or "HNGATE". <ul style="list-style-type: none"> For more information on "HNCLIENT/HNGATE values, see 'No Response from the network' in Volume 5.
5	Receiving Application	R			HNET : HD		= Sending Application on MSH input
6	Receiving Facility	R			HNET : HD		= Sending Facility on MSH input
7	Date/Time of Message	R			HNET : TS		Date/Time transaction was sent from sending system (24) – YYYYMMDDHHMMSS[S[S[S[S]]]][/-ZZZZ]
8	Security	CE			HL7: ST		= Security on MSH input
9	Message Type	R			HL7: CM4		<ul style="list-style-type: none"> Message Type (3) - Transaction Identification; valid values is "R50". Trigger Type (3) – Business Event Identification required. Valid value is "Y00"

MSH		Required					
Seq	Field	Req/ Opt	# of Reqs	Proc Rule	Data Type	Table	Field Notes
							See also, 'No response from the Network' in Volume 5.
10	Message Control ID	R			HL7: ST		Unique transaction number (20) - see MSH definition for more information
11	Processing ID	R			HL7: PT		= Processing ID on MSH input
12	Version ID	R			HL7: ID		= Version ID on MSH input

MSA		Required					
Seq	Field	Req/ Opt	# of Reqs	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			HL7: SI		"MSA"
1	Acknowledgement Code	R			HL7: ID	HL7: 0008	Indication of success/failure of transaction (2) - valid values are "AA", "AE", "AR"; receiving applications will set "AA" for successful completion and "AE" for application errors; "AR" is set by the infrastructure for invalid transactions or transactions that cannot make it through to the receiving application.
2	Message Control ID	R			HL7: ST		= Message Control ID on MSH input (20)
3	Text Message	R			HL7: ST		Error code (8) + English message text (72) - Format of error code is AMMMnnnZ where A is an application identifier, MMM is a module or sub-system identifier, nnn is a sequential number and Z is either "E" = error, "W" = warning, "I" = Information

ERR							
Optional, Repeats - minimum 0, maximum 10							
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			HL7: SI		"ERR"
1	Error Code and Location	R			HNET : CM1		Refer to 'Error Handling' in Volume 5 for more information on error message formats. <ul style="list-style-type: none"> Segment ID (3) – optional; segment where error occurred Sequence (4) – optional; occurrence of segment in transaction where error occurred Field Position (4) – optional; field in segment where error occurred Identifier of Code Identifying Error (8) – Message Number; required; reference table HNET:9000 for valid values; ERR segments are returned in "E", "W", "I" order Text of Code Identifying Error (72) – Message Text; required Alternate Identifier of Code Identifying Error (15) – Alternate Message Number; optional; must be logged if present in transaction Alternate Text of Code Identifying Error (255) – Alternate Message Text; optional; must be logged if present in transaction Name of Alternate Coding System of Code Identifying Error (8) – optional; name of system that generated Alternate Identifier of Code Identifying Error

Reference Transaction Summary - Receiving System for more information on following segments. Optional, if enrolment successful, then Required

PID							
Required							
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R			HL7: SI		"PID"

PID		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
2	External Patient ID	R			HNET : CX		Personal Health Number (PHN) <ul style="list-style-type: none"> ID (10) - Personal Health Number (PHN); required <i>Check Digit– Not Supported</i> <i>Code Identifying the Check Digit Scheme Employed – Not Supported</i> Namespace ID of Assigning Authority (5) - Identifier Issuing Jurisdiction; required; valid value is “BC” Identifier Type Code (2) - required; valid value is “PH”
3	<i>Internal Patient ID</i>	-					<i>Not Supported</i> ³
5	<i>Patient Name</i>	-					<i>Not Supported</i> ³



DOCUMENT MODIFICATION HISTORY		
VERSION	RELEASE DATE	DESCRIPTION
1.0	July 2003	Original R50 Specification
2.0	January 9, 2004	Corrections to previous specification, as described below. Unless otherwise noted, these corrections do not reflect changes to the supported message specification. (New and superseded messages are described in Volume 1.)

¹ Sample endnote

² Not Supported² components added here (and elsewhere) for complex datatypes to clarify the component structure. No functional change

³ This HL7 required component is not supported for this message.