

EMR Certification

eHealth_hub - Laboratory Result Distribution Interface Message Specification

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Version 1.4



Shared health
Soins communs
Manitoba

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1 Introduction

The purpose of this document is to provide an overview of the eHealth_hub - Laboratory Result Distribution Interface Message Specification. The document will describe the message structure of the messages sent through the eHealth_hub - Laboratory Result Distribution Interface.

2 Laboratory Result Distribution Message Specification

2.1 General

The HL7 grammar of the outbound message structure that enables the delivery of electronic laboratory results to physician EMR systems varies depending on the type of lab result sent. The structure for these messages is shown below. It shows each segment used in the message and uses “[]” to indicate optional segments or segment groups and “{}” to indicate repeating segments or segment groups.

Lab Discrete Results

```
MSH
PID
    [PV1]
    [ORC]
    {
        OBR
        [NTE]
        {
            [OBX]
            [ {NTE} ]
        }
    }
```

Each segment in the result message will be explained below. The elements in the segment, position in the segment, maximum element length, data type, permissible values/notes, required or not and repeating or not will be explained.

Sequence (SEQ)

This indicates the position of the message element within the message. All fields within the segment are assigned a number, starting with 1. If components or sub-components are listed, they will be identified by the sequence number of the parent field, followed by a period and then the sequence number of the component. For example, 3.1.4 would refer to the fourth sub-component of the first component of the third field.

Element Name

This is the descriptive name for the field, data type component or sub-component. The hierarchy of elements can be seen by the indentation level of the element name.

Data Type

This indicates the data type associated with the field, component or sub-component. "CM" data types have extensions to their names to differentiate them from other CM data types with different content.

Table 1: Data Types

DATA TYPE	EXPLANATION
HD	Hierarchic Designator
TS	Time stamp
ST	String data (printable ASCII characters)
ID	Coded value for HL7 defined tables
IS	Coded value for user defined tables
PL	Person Location
XCN	Extended Composite ID Number and name for persons
XPN	Extended Person Name
XAD	Extended Address
XTN	Extended Telephone Number
EI	Entity Identifier

Length (LEN)

This indicates the maximum length supported for the element. If a message is sent with contents exceeding one of the maximum lengths, an error message will be raised, either as part of an acknowledgment message (where one exists), or within the receiving application in the absence of an acknowledgement. HL7 has traditionally assigned maximum lengths to complex data types indicating the maximum length for a series of data type components. However, where ever possible, lengths have also been provided for the individual message components. Where the over-all length is a simple sum of the components, no higher-level length is specified. For repeating elements, the maximum length applies to each individual repetition, not to the sum of the repetitions.

Optionals (OPT)

This defines whether the field, component or sub-component must be present or not. Elements must generally be present to satisfy the syntax but can often be empty. The two options include required (R), or required or empty (RE).

Repeats (RPT)

This indicates whether an element repeats or not. Most elements do not repeat and are marked with an "N". If the element does repeat it will be marked with a "Y/n", with n being the number of times the element is allowed to repeat.

This specification is consistent with the HL7v2.3.1 specification through the segments and fields used and the data passed in those fields. Note that the source LIS feeds do not always provide all of the components for the composite field and Shared Health can only pass on the information provided and so, this is the rationale as to why the specification does not strictly adhere to the HL7 standard.

Samples

Sample messages will be provided within a separate companion document.

2.2 MSH - Message Header Segment

Table 2: MSH - Message Header Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1	Field Separator	ST	1		R	N
2	Encoding Characters	ST	4	^~\&	R	N
3	Sending Application	HD	180	This should always represent the sending lab application identifier.	R	N
4	Sending Facility	HD	180	This should always represent the sending lab facility identifier.	R	N
5	Receiving Application	HD	180	This should always represent the receiving application identifier (i.e. Application instance identifier).	RE	N
6	Receiving Facility	HD	180	This should always represent the receiving facility identifier (i.e. Clinic identifier).	RE	N
7	Date/time of Message	TS	26	yyyyMMddhhmmss	R	N
8				Not Used		
9	Message Type					N
9.1	Message Type	ID	3	ORU	R	N
9.2	Trigger Event	ID	3	R01	R	N
10	Message Control ID	ST	20		R	N
11	Processing ID	PT	3	P	R	N
12	Version ID	ID	60	2.3.1	R	N

2.3 PID – Patient Identification Segment

The PID segment is used to send patient identification information.

Table 3: PID – Patient Identification Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1				Not Used		N
2				Not Used		N
3	Patient Identifier List (Internal)	CX			R	Y/3
3.1	Patient Identifier	ST	23		R	Y/3
3.2				Not Used		
3.3				Not Used		
3.4	Assigning Authority	HD	23	See Appendix B – Use Assigning Application	R	Y/3
3.5	Identifier Type Code	HD	23	See Appendix B – Use Identifier Type Code	R	Y/3
3.6	Assigning Facility	HD	23	See Appendix B – Use Assigning Facility	R	Y/3
4				Not Used		
5	Patient Name	XPN				N
5.1	Family Name	ST	50		R	N
5.2	Given Name	ST	50		RE	N
5.3	Middle Initial or Name	ST	50		RE	N
6	Mother's Maiden Name	XPN				
6.1	Family Name	ST	50		RE	N
6.2	Given Name	ST	50		RE	N
7	Date of Birth	TS	26	yyyyMMdd	R	N
8	Sex	IS	1		RE	N
9				Not Used		N
10	Race	IS	50		RE	N
11	Patient Address	XAN		Should only have one address		N
11.1	Street Address Line 1	ST	50		RE	N
11.2	Street Address Line 2	ST	50		RE	N
11.3	City	ST	25		RE	N
11.4	Province	ST	2		RE	N
11.5	Postal Code	ST	9		RE	N
11.6	Country	ID	6		RE	N
12				Not Used		N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
13	Phone Number – Home	ST	13	(NNN)NNN-NNNN	RE	N
14	Phone Number – Business	ST	13	(NNN)NNN-NNNN	RE	N
15				Not Used		N
16	Marital Status	ST	1		RE	N
17				Not Used		N
18	Patient Account Number	CX			RE	N
18.1	ID Number	ST	23		RE	N
19				Not Used		N
20				Not Used		N
21				Not Used		N
22				Not Used		N
23				Not Used		N
24				Not Used		N
25				Not Used		N
26				Not Used		N
27				Not Used		N
28				Not Used		N
29				Not Used		N
30				Not Used		N

2.4 PV1 – Patient Visit Segment

The PV1 segment is used to send information related to the patient's.

Table 4: PV1 – Patient Visit Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1				Not Used		N
2	Patient Class	IS	3		RE	N
3	Assigned Patient Location	PL			RE	N
3.1	Unit/Location	ST	10		RE	N
3.2	Room	ST	10		RE	N
3.3	Bed	ST	5		RE	N
3.4	Receiving Facility	HD	10	See Appendix B	RE	N
3.5	Location Status			Not Used		N
3.6	Person Location Type			Not Used		N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
3.7	Building			Not Used		N
3.8	Floor			Not Used		N
3.9	Location Description	ST	30		RE	N
4				Not Used		N
5				Not Used		N
6				Not Used		N
7	Attending Doctor	XCN		See Provider Composite Field	RE	N
8	Referring Doctor	XCN		See Provider Composite Field	RE	N
9	Consulting Doctor	XCN		See Provider Composite Field	RE	N
10	Hospital Service	ST	15		RE	N
11				Not Used		N
12				Not Used		N
13				Not Used		N
14				Not Used		N
15				Not Used		N
16	VIP Indicator	IS	2		RE	N
17	Admitting Doctor	XCN		See Provider Composite Field	RE	N
18	Patient Type	CM			RE	N
18.1	Patient Type	IS	1		RE	N
18.2	Order Patient Type	IS	1		RE	N
19	Visit Number	CM			RE	N
19.1	ID Number	ST	23		RE	N
19.2				Not Used		N
19.3				Not Used		N
19.4	Assigning Authority ID	HD	23	See Appendix B	RE	N
19.5	Identifier Type Code	HD	23	See Appendix B	RE	N
19.6	Assigning Facility	HD	23	See Appendix B	RE	N
20				Not Used		N
21				Not Used		N
22				Not Used		N
23				Not Used		N
24				Not Used		N
25				Not Used		N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
26				Not Used		N
27				Not Used		N
28				Not Used		N
29				Not Used		N
30				Not Used		N
31				Not Used		N
32				Not Used		N
33				Not Used		N
34				Not Used		N
35				Not Used		N
36	Discharge Disposition	IS	3		RE	N
37				Not Used		N
38				Not Used		N
39				Not Used		N
40				Not Used		N
41				Not Used		N
42				Not Used		N
43				Not Used		N
44	Admit Date/Time	TS	26	yyyyMMddhhmmss	RE	N
45	Discharge Date/Time	TS	26	yyyyMMddhhmmss	RE	N
46				Not Used		N
47				Not Used		N
48				Not Used		N
49				Not Used		N
50	Alternate Visit ID	ST	20		RE	N

2.5 Provider Composite Field

Table 5: Provider Composite Field

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
.1	Provider ID	ST	30		RE	N
.2	Family Name	ST	50		RE	N
.3	Given Name	ST	50		RE	N
.4	Middle Name or Initial	ST	50		RE	N
.5	Suffix	ST	15		RE	N

.6	Prefix	ST	14		RE	N
.7	Degree	ST	15		RE	N
.8	Source Table	ST	15		RE	N
.9	Assigning Authority	HD	250		RE	N
.10	Name Type Code	HD	23		RE	N
.11				Not Used		N
.12				Not Used		N
.13	Identifier Type Code	HD	23		RE	N
.14	Assigning Facility	HD	23		RE	N

2.6 ORC - Common Order Segment

The common order segment is used to transmit fields that are common to all orders (all types of services that are requested).

Table 6: ORC - Common Order Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1	Order Control	ID	2		R	N
2	Placer Order Number	EI			RE	N
2.1	<unique placer ID>	ST	13		RE	N
2.2	<placer application ID>	IS	9		RE	N
3	Filler Order Number	EI			RE	N
3.1	<unique filler ID>	ST	13		RE	N
3.2	<filler application ID>	IS	9		RE	N
4	Placer Group Number	EI	15		RE	N
5	Order Status	ID	2		RE	N
6				Not Used		N
7	Quantity/Timing	CM			RE	N
7.1	Quantity	ST	4		RE	N
7.2				Not Used		N
7.3				Not Used		N
7.4	Start Date/time	TS	26	yyyyMMddhhmmss	RE	N
7.5				Not Used		N
7.6	Priority	ST	1		RE	N
8	Parent	ST	15	May contain foreign system specimen number	RE	N
9	Date / Time of Transaction	TS	26	yyyyMMddhhmmss Date and time the	RE	N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
				order was placed.		
10	Entered By	XCN		Ordering Tech or Pathologist	RE	N
10.1	ID Number	ST	30	Ordering Tech ID or Pathologist ID	RE	N
11				Not Used		N
12	Ordering Provider	XCN		See Provider Composite Field	RE	N
13	Enterer's Location	CM			RE	N
13.1	Ward	ST	6		RE	N
13.2	Depot	ST	2		RE	N
14				Not Used		N
15	Order Effective Date/Time	TS	26	yyyyMMddhhmmss	RE	N
16				Not Used		N
17	Entering Organization	HD	60		RE	N
18				Not Used		N

2.7 OBR - Observation Request Segment

The Observation Request segment is used to transmit information specific to an order for a diagnostic study or observation, physical exam or assessment. The segment defines the attributes of a particular request for diagnostic services or clinical observations.

Table 7: OBR - Observation Request Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1	Set ID - Observation Request	SI	4	Sequential number from 1	RE	N
2	Placer Order Number	EI			RE	N
2.1	<unique placer ID>	ST	18		RE	N
2.2	<Placer application ID>	IS	2		RE	N
2.3		ST	1		RE	N
2.4		ID	1		RE	N
3	Filler Order Number	EI		This field will contain a lab generated unique order identifying number.	RE	N
3.1	Unique Filler ID	ST	20		RE	N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
3.2	Filler Application ID	IS	20		RE	N
4	Universal Service ID	CE		The identifier code for the requested observation/test/battery upon which the results are reported.	R *RE if Micro Sensitivity Panel	N
4.1	Source Lab Test Code	IS	10		R *RE if Micro Sensitivity Panel	N
4.2	Source Lab Test Name / Description	ST	50		R *RE if Micro Sensitivity Panel	N
4.3				Not Used		N
5				Not Used		N
6	Requested Date/Time	TS	26	yyyyMMddhhmmss	RE	N
7	Observation Date/Time	TS	26	yyyyMMddhhmmss Indicates the date and time the specimen was collected.	RE	N
8				Not Used		N
9				Not Used		N
10	Collector Identifier	XCN	60		RE	N
10.1	Identifier	ST	20		RE	N
10.2	Family Name					
11				Not Used		N
12				Not Used		N
13	Relevant Clinical Info	ST	300	Pathology Report Title	RE	N
14	Specimen Received Date/Time	TS	26	yyyyMMddhhmmss Indicates the date and time the specimen was received in	RE	N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
				laboratory.		
15	Specimen Source	CM	300		RE	N
15.1	Identifier	ST	26		RE	N
15.2	Description	ST	100		RE	N
15.3	Name of Coding System	ST	32		RE	N
16	Ordering Provider	XCN		See note below. See Provider Composite Field.	RE	N
17				Not Used		N
18	Placer Field 1	ST	60		RE	N
19	Placer Field 2	ST	60		RE	N
20	Filler Field 1	ST	60		RE	N
21				Not Used		N
22	Results Rpt/Status Change- Date/Time	TS	26	yyyyMMddhhmmss	RE	N
23				Not Used		N
24	Diagnostic Service Section ID	ID	10	Refer to Appendix A for HL7 permissible values	RE	N
25	Result Summary Status	ID	1	Refer to Appendix A for HL7 permissible values	RE	N
26	Parent Result	CM	400	<OBX-3-observation identifier of parent result (CE)> ^ <OBX-4-sub-ID of parent result (ST)> ^ <part of OBX-5 observation result from parent (TX) >	RE	N
27	Quantity/Timing Order	CM			RE	N
27.1	Quantity	CQ	6		RE	N
27.2	Interval	CM	6		RE	N
27.3	Duration	ST	6		RE	N
27.4	Start Date/Time	TS	26	yyyyMMddhhmmss	RE	N
27.5	End Date/Time	TS	26	yyyyMMddhhmmss	RE	N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
27.6	Priority	ST	1		RE	N
28	Result Copies To	XCN	250	HL7 note: see below	RE	Y/11
29	Parent	CM			RE	N
29.1	Parent Placer Order Number	ST	22		RE	N
29.2	Parent Filler Order Number	ST	22		RE	N
30				Not Used		N
31				Not Used		N
32	Principal Result Interpreter	CM			RE	N
32.1	Name	XCN	250	See Provider Composite Field	RE	N
32.2	Start Date/Time	TS	26	yyyyMMddhhmmss	RE	N
32.3	End Date/Time	TS	26	yyyyMMddhhmmss	RE	N
32.4	Point of care	IS	6		RE	N
32.5	Room	IS	6		RE	N
32.6	Bed	IS	6		RE	N
32.7	Facility	HD	10		RE	N
32.7.1	Namespace ID	IS	6		RE	N
32.7.2	Universal ID	ST	6		RE	N
32.7.3	Universal ID type	ID	6		RE	N
32.8	Location status	IS	6		RE	N
32.9	Patient location type	IS	6		RE	N
32.10	Building	IS	6		RE	N
32.11	Floor	IS	6		RE	N
33				Not Used		N
34	Technician	XCN		See Provider Composite Field	RE	N
35				Not Used		N
36				Not Used		N
37				Not Used		N
38				Not Used		N
39				Not Used		N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
40				Not Used		N
41				Not Used		N
42				Not Used		N
43				Not Used		N

2.7.1 Notes

OBR.4 - 3 examples

1. GLUCR^Glucose - Random^^14749-6^Glucose^PCLOCD
2. THRT^Throat Culture^^626-2^Throat; Culture^LOINC
3. KRPRE^KR Panel - Pre

* 3rd example is a “self-mapping”. i.e. The lab test does not have a corresponding PCLOCD or LOINC code, so only the lab code/name is provided.

Result Copies To (Deviation from the HLv2.3.1 standard that only allows 5 repeats – this specification allows 11). In addition, when only a location is provided, the location identifier and description would be provided within the provider identifier and family name fields within the composite provider entity.

2.8 OBX - Observation Segment

This segment provides details about a particular observation. Field content is dependent upon the type of observation being reported (MIC, LAB, BB or PAT).

Table 8: OBX - Observation Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1	Set ID - Observation Result	SI	4	Sequential Number from 1	R	N
2	Value Type	ID	3		R	N
3	Observation Identifier	CE			R	N
3.1	Source Lab Test ID	IS	100	Represents the local code ID	RE	N
3.2	Source Lab Test Name	ST	50	Represents the local code description	RE	N
3.3				Not Used		N
3.4	Standard Test Code	IS	15	Represents the mapped code ID	RE	N
3.5	Standard Test Name	ST	250	Represents the mapped code description	RE	N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
3.6	Standard Coding System	ST	10	Values will be: PCLOCD LOINC	RE	N
4	Observation Sub-ID	ST	20		RE	N
5	Observation Value	*		The layout and length of this field is dependent on the value coded for OBX-2 however the maximum length is specified (textual data type). See the HL7 v.2.3.1 specification for more details.	R	Y/4
5.1			65500			Y/5
5.2			30			Y/5
5.3	Name of Coding System		6			Y/5
6	Units	ST	60		RE	N
7	References Range	ST	60		RE	N
8	Abnormal Flags	ID	5		RE	N
9				Not Used		N
10				Not Used		N
11	Observation Result Status	ID	1	Refer to Appendix A for HL7 permissible values	RE	N
12				Not Used		N
13				Not Used		N
14	Date/Time of Observation	TS	26	yyyyMMddhhmmss This would equate to the procedure date/time.	RE	N
15	Producer's ID	CE			RE	N
15.1	Identifier	ST	10		RE	N
15.2	Text	ST	10	Description	RE	N
15.3	Name of coding system	ST	5		RE	N
15.4	Alternate identifier	ST	10		RE	N

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
15.5	Alternate text	ST	10		RE	N
15.6	Alternate name of coding system	ST	5		RE	N
16	Responsible Observer	XCN		See Provider Composite Field	RE	N
17				Not Used		N

2.8.1 Notes

Encapsulated Data (ED)

The encapsulated data type (ED) may be used to send Word, Excel, PDF documents, etc. in the OBX-5 field.

If OBX-2 is set to ED then an example of what OBX-5 contains is shown below.

OBX|1|ED|502^WOUND SWAB FOR ANAEROBES^L||PDF^TEXT^^Base64^JVBERi0xLjMKJeTjz9IKNSAwI (many more bytes).

The OBX-5 field is a composite field. Component 1 contains the name of the application used to create the data, component 2 identifies the data as text, component 4 indicates Base64 encoding and component 5 contains the actual data.

2.9 NTE - Notes and Comments Segment

The NTE segment is a common format for sending notes and comments. This segment may also be used to transmit patient results from selected modules in a generalized Report format. The NTE segment can appear in the message stream after any of the segments, except the MSH segment.

Note: Special characters may be found in a NTE comment field and will not be surrounded by escape characters. The only special character that will not be allowed is the | character.

Table 9: NTE - Notes and Comments Segment

SEQ	ELEMENT NAME	DATA TYPE	LEN	PERMISSIBLE VALUES / NOTES	OPT	RPT
1	Set ID - Notes and Comments	SI	4	Sequential number from 1	R	N
2	Source of Comment	ID	8	Refer to Appendix A for HL7 permissible values	RE	N
3	Comment	FT	65536		R	N

3 Appendix A: HL7 Permissible Values

Note: The tables in this Appendix were extracted from HL7 Version 2.3.1 standards. We have noted some instances where the source has not adopted this standard. As a general best practice, it is recommended the EMR product shall validate all data being sent by each source in the associated segment and dynamically add to the tables any new values transmitted from the source.

3.1 Diagnostic Service Section ID (OBR-24)

Table 10: Diagnostic Service Section ID (OBR-24)

VALUE	DESCRIPTION	VALUE	DESCRIPTION
AU	Audiology	OUS	OB Ultrasound
BG	Blood gases	OT	Occupational Therapy
BLB	Blood bank	OTH	Other
CUS	Cardiac Ultrasound	OSL	Outside Lab
CTH	Cardiac catheterization	PHR	Pharmacy
CT	CAT scan	PT	Physical Therapy
CH	Chemistry	PHY	Physician (Hx. Dx, admission note, etc.)
CP	Cytopathology	PF	Pulmonary function
EC	Electrocardiac (e.g., EKG, EEC, Holter)	RAD	Radiology
EN	Electroneuro (EEG, EMG, EP, PSG)	RX	Radiograph
HM	Hematology	RUS	Radiology ultrasound
ICU	Bedside ICU Monitoring	RC	Respiratory Care (therapy)
IMM	Immunology	RT	Radiation therapy
LAB	Laboratory	SR	Serology
MB	Microbiology	SP	Surgical Pathology
MCB	Mycobacteriology	TX	Toxicology
MYC	Mycology	VUS	Vascular Ultrasound
NMS	Nuclear medicine scan	VR	Virology
NMR	Nuclear magnetic resonance	XRC	Cineradiograph
NRS	Nursing service measures		

Known Source Exceptions

- From DSM Winnipeg, MD=Molecular Diagnostic

3.2 Result Summary Status (OBR-25)

Table 11: Result Summary Status (OBR-25)

VALUE	DESCRIPTION	VALUE	DESCRIPTION
O	Order received; specimen not yet received	R	Results stored; not yet verified
I	No results available; specimen received, procedure incomplete	F	Final results; results stored and verified. Can only be changed with a corrected result.
S	No results available; procedure scheduled, but not done	X	No results available; Order cancelled.
A	Some, but not all, results available	Y	No order on record for this test. (Used only on queries)
P	Preliminary: A verified early result is available, final results not yet obtained	Z	No record of this patient. (Used only on queries)
C	Correction to results		

Known Source Exceptions

- From DSM Winnipeg, I=In Progress

3.3 Observation Result Status (OBX-11)

Table 12: Observation Result Status (OBX-11)

VALUE	DESCRIPTION	VALUE	DESCRIPTION
C	Record coming over is a correction and thus replaces a final result	P	Preliminary results
D	Deletes the OBX record	R	Results entered -- not verified
F	Final results; Can only be changed with a corrected result.	S	Partial results
I	Specimen in lab; results pending	X	Results cannot be obtained for this observation
N	Not asked; used to affirmatively document that the observation identified in the OBX was not sought when the universal service ID in OBR-4 implies that it would be sought.	U	Results status change to final without retransmitting results already sent as 'preliminary.' E.g., radiology changes status from preliminary to final
O	Order detail description only (no result)	W	Post original as wrong, e.g., transmitted for wrong patient

Known Source Exceptions

- From DSM Winnipeg, I=In Progress

- From DSM Brandon, Z=Resent (Report resent but none of the results have changed)

3.4 Source of Comment (NTE-2)

Table 13: Source of Comment (NTE-2)

VALUE	DESCRIPTION	VALUE	DESCRIPTION
L	Ancillary (filler) department is source of comment	P	Orderer (placer) is source of comment
O	Other system is source of comment		

3.5 Sending Applications (MSH-3)

Table 14: Sending Applications (MSH-3)

VALUE	DESCRIPTION	VALUE	DESCRIPTION
DS-DSM-LIS-1	Diagnostic Services Manitoba	DS-DSM-LIS-3	Diagnostic Services Manitoba Westman Laboratory

4 Appendix B: Acceptable Primary Identifiers

Table 15: Acceptable Primary Identifiers

DESCRIPTION	ASSIGNING APPLICATION	ASSIGNING AUTHORITY	ASSIGNING FACILITY	IDENTIFIER TYPE	IDENTIFIER TYPE CODE
ADT Concordia Hospital	WI-COH-ADT	WI	COH	Medical Record Number	MR
ADT Grace Hospital	WI-GRH-ADT	WI	GRH	Medical Record Number	MR
ADT Victoria General Hospital	WI-VGH-ADT	WI	VGH	Medical Record Number	MR
ADT St. Boniface General Hospital	WI-SBH-ADT	WI	SBH	Medical Record Number	MR
ADT Health Sciences Centre	WI-HSC-ADT	WI	HSC	Medical Record Number	MR
ADT Seven Oaks General Hospital	WI-SOH-ADT	WI	SOH	Medical Record Number	MR
ADT Misericordia Health Centre	WI-MHC-ADT	WI	MHC	Medical Record Number	MR
ADT Riverview Health Centre	WI-RHC-ADT	WI	RHC	Medical Record Number	MR
ADT Deer Lodge Centre	WI-DLC-ADT	WI	DLC	Medical Record Number	MR
ADT Pan Am Clinic	WI-PAC-ADT	WI	PAC	Medical Record Number	MR
CancerCare Manitoba	CC-ADT	CC	CCM	Medical Record Number	MR
ADT Brandon and Assiniboine Regional Health Authorities	BR-AS-ADT	BR-AS		Regional Patient Identifier	RRI
Brandon Regional Hospital ¹	BR-AS- ADT	BR-AS	BRC	Medical Record Number	MR
Manitoba Provincial ADT (EPR ADT)	ME-ADT-1	ME-ADT-1		Regional / Enterprise Patient Identifier	RRI
ADT Burntwood Regional Health Authority	BU-ADT	BU		Regional Patient Identifier	RRI
ADT Central Regional Health Authority	CE-ADT	CE		Regional Patient Identifier	RRI
ADT Churchill Regional	CH-ADT	CH		Regional Patient	RRI

¹ Note that Brandon Regional Hospital assigning application is the same for both the regional identifier and the medical record number. It is therefore important to ensure that the identifier type code and facility code are used to ensure that the correct identifier is being utilized.

DESCRIPTION	ASSIGNING APPLICATION	ASSIGNING AUTHORITY	ASSIGNING FACILITY	IDENTIFIER TYPE	IDENTIFIER TYPE CODE
Health Authority				Identifier	
ADT Interlake Regional Health Authority	IN-ADT	IN		Regional Patient Identifier	RRI
ADT NOR-MAN Regional Health Authority	NO-ADT	NO		Regional Patient Identifier	RRI
ADT Parkland Regional Health Authority	PA-ADT	PA		Regional Patient Identifier	RRI
ADT South Eastman Regional Health Authority	SE-ADT	SE		Regional Patient Identifier	RRI
ADT North Eastman Regional Health Authority	NE-ADT	NE		Regional Patient Identifier	RRI
Manitoba Health Insured Benefits Registry	CANMB-MBH-JHI	CANMB	MBH	Personal Health Insurance Number (JHN)	JHNMB or JHN
PEI Health Card Number		CANPE	ID_PHCN	Jurisdictional Health Number	JHNPE
Alberta Personal Health Number		CANAB	ID_ABPHN	Jurisdictional Health Number	JHNAB
BC Personal Health Number		CANBC	ID_BCPHN	Jurisdictional Health Number	JHNBC
New Brunswick Medicare Number		CANNB	ID_NBMN	Jurisdictional Health Number	JHNNB
Newfoundland/Labrador Medical Services Number		CANNL	ID_NLMSN	Jurisdictional Health Number	JHNNL
Nova Scotia Medical Services Number		CANNS	ID_NSMSN	Jurisdictional Health Number	JHNSNS
NWT Health Care Number		CANNT	ID_NTHCN	Jurisdictional Health Number	JHNNT
Nunavut Health Care Number		CANNU	ID_NUHCN	Jurisdictional Health Number	JHNNU
Saskatchewan Health Services Number		CANSK	ID_SKHSN	Jurisdictional Health Number	JHNSK
Yukon Health Care Number		CANYT	ID_YTHCN	Jurisdictional Health Number	JHNYT
Ontario Health Care Number		CANON	ID_ONHCN	Jurisdictional Health Number	JHNON
Quebec Health Care Number		CANQC	ID_QCHCN	Jurisdictional Health Number	JHNQC
RCMP Regiment Number		CANRCMP	ID_RCMP	Jurisdictional Health Number	JHNRC
Canadian Forces Health Care Number		CANARMF	ID_CF	Jurisdictional Health Number	JHNAF

5 Appendix C: Release Notes

Version 1.0 December 1, 2015

- Updated document to new standard template of Manitoba eHealth (updated page numbers)
- Updated name of service from earlier “DDS” or “CID” or “Health_Hub” to “eHealth_hub”
- Section 2.8.1
 - Updated the sample message to a lab test instead of a diagnostic imaging test
- Section 4
 - The Identifier Type Code for Manitoba Health Insured Benefits Registry can be either JHNMB or JHN

Version 1.4 March 31, 2020

- Updated document theme to new organizational visual identity
- Updated Manitoba eHealth to Shared Health to align with new organizational structure, including changes to the EMR Certification contact email address
- Updated version number to align with specification and assessment guide