

R20 - Record Document

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* 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 R20 - Transaction Overview

Record supporting documentation that substantiates one or more facts provided by a person, such as their right to reside in Canada, or their identification including name, gender or date of birth.

2 Sending System

2.1 R20 - Processing Rules – Sending System

1. Documents, Document Jurisdiction (Unique Document Number on TXA), Document Type (Document Type on TXA) and Attributes:

Refer to Appendix E for more information and processing rules for documents.

The Document Argument field on the ZIK segment contains a repeating field of attributes, made up of 2 components: an argument name (e.g. BIRTHDATE) and the actual value (e.g. "19920201"). For example, to record a birth certificate that may have a birth date, an issue date and a birth surname, you would specify in the Document Argument field on ZIK:

|BIRTHDATE^19920201~ISSUEDATE^19920212~LASTNAME^JONES|

Arguments can be supplied in any order, as long as the required arguments have been supplied. Any additional arguments not required for the document type will be ignored.

The following rules apply to documents:

- The Document Jurisdiction on TXA must be valid and current.
- The Document Type on TXA must be valid and current.

The combination of Document Jurisdiction on TXA and Document Type on TXA must be valid and current.

Each attribute (Argument Name of Document Argument on ZIK) must be a valid and current attribute for the document type (Document Type on TXA). Each attribute must pass validation rules in order to be accepted (e.g. range of values, Mod 10, etc.).

Recording of a new document will be rejected if a required attribute (Argument Name of Document Argument on ZIK) is not specified for the Document Jurisdiction and Document Type pair.

2.2 R20 - 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). Refer to Section 5 under MSA Segment 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 <i>healthnetBC</i>	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 <i>healthnetBC</i>	Mandatory Display	Display on First Screen?	Segment	Field
No additional data elements have been determined at this time.				

2.3 R20 - 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, *healthnetBC* Fixed Length Segment Definitions' for more details on each of the segment definitions.

Input Transaction (R20)

MSH	Message Header	Required
ZHD	<i>healthnetBC</i> Message Header	Required
PID	Person Identification	Required
TXA	Transcription Document Header	Required
ZIK	<i>healthnetBC</i> Transcription Document Header Extension	Required

2.4 R20 - Transaction Segments and Fields - Sending System

MSH	Required						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment Id	R					"MSH"
1	Field Separator	R					" "
2	Encoding Characters	R					"^~\&"
3	Sending Application	R					<ul style="list-style-type: none"> Namespace ID (15) - Business application that originated the transaction; user defined/assigned
4	Sending Facility	R					<ul style="list-style-type: none"> Namespace ID (20) - Sending Network Facility ID; <i>healthnetBC</i> assigned
5	Receiving Application	R					<ul style="list-style-type: none"> Namespace ID (15) - Business application that will accept the transaction; valid value is "RAIRCRD-DCMNT"
6	Receiving Facility	R					<ul style="list-style-type: none"> Namespace ID (20) - Receiving Network Facility ID; <i>healthnetBC</i> assigned
7	Date/Time of Message	R					Date/Time transaction was sent from sending system (24) - YYYYMMDDHHMMSS.SSSS+/-ZZZZ
8	Security	R					User ID that uniquely identifies sending system user (20)

MSH		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
9	Message Type	R					<ul style="list-style-type: none"> Message Type (3) - Transaction Identification; valid value is "R20" <i>Message Type (3) – Not Supported</i> ²
10	Message Control ID	R					Unique transaction number (20) - see MSH definition for more information
11	Processing ID	R					<ul style="list-style-type: none"> Processing ID (1) - valid values are "D", "E", "T", "P"
12	Version ID	R					HL7 version supported by <i>healthnetBC</i> (8) - valid value is "2.3"

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

PID		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R					"PID"
2	External Patient ID	R					Personal Health Number (PHN) <ul style="list-style-type: none"> • ID (10) - Personal Health Number (PHN); required • <i>Check Digit – Not Supported</i> ³ • <i>Code Identifying the Check Digit Scheme Employed – Not Supported</i> ³ • 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>	-					<ul style="list-style-type: none"> • <i>Not Supported</i> ²
5	<i>Patient Name</i>	-					<i>Not Supported</i> ²

TXA		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R					"TXA"
1	Set ID - TXA	-					<i>Not Supported</i> ²
2	Document Type	R		1		N/A	Document Type (10) - reference external document noted in Processing Rules for list of valid document types. HL7:0270 Document Type is not used to restrict values for this transaction.
12	Unique Document Number	R		1	HNET :EI		Document Jurisdiction ⁴ <ul style="list-style-type: none"> Entity Identifier – <i>not supported</i> ³ Namespace ID (5) - required; jurisdiction over which the document presides

ZIK		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R					"ZIK"
2	Document Medium	R			HNET :IS	9948	Document Medium (2) - valid values are "PA", "CA", "EL", "OT"
3	Original Document Indicator	R			HNET :IS	9940	(1) - Valid values are "Y", "N", "U"
4	Document Argument	R	1 - 50	1	HNET :ZRG		Repeating group of arguments that describe the document <ul style="list-style-type: none"> Argument Name (10) - required Argument Value (80) - required

3 Receiving System

3.1 R20 - Processing Rules – Receiving System

No Processing Rules have been defined at this time.

3.2 R20 - 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, *healthnetBC* Fixed Length Segment Definitions' for more details on each of the segment definitions.

Output Transaction (R20)

MSH	Message Header	Required
MSA	Message Acknowledgement	Required
[{ ERR }]	Error	Optional, Repeats, minimum 0, maximum 10 ⁵

3.3 R20 - Transaction Segments and Fields - Receiving System

MSH	Required						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment Id	R					"MSH"
1	Field Separator	R					" "
2	Encoding Characters	R					"^~\&"
3	Sending Application	R					= 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					= 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					= Sending Application on MSH input
6	Receiving Facility	R					= Sending Facility on MSH input
7	Date/Time of Message	R					Date/Time transaction was sent from receiving system (24) - YYYYMMDDHHMMSS.SSSS+/-ZZZZ
8	Security	O					= Security on MSH input

MSH		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
9	Message Type	R					<ul style="list-style-type: none"> Message Type (3) - Transaction Identification; valid values are "R20", "ACK" <i>Message Type (3) – Not Supported</i> ² <p>For more information on "ACK" Message Type, see 'No Response from the Network' in Volume 5.</p>
10	Message Control ID	R					Unique transaction number (20) - see MSH definition for more information
11	Processing ID	R					= Processing ID on MSH input
12	Version ID	R					= Version ID on MSH input

MSA		Required					
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R					"MSA"
1	Acknowledgement Code	R					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					= Message Control ID on MSH input (20)
3	Text Message	R					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 ⁵						
Seq	Field	Req/ Opt	# of Reps	Proc Rule	Data Type	Table	Field Notes
-	Segment ID	R					"ERR"
1	Error Code and Location	R	1-1				<p>Refer to 'Error Handling' in Volume 5 for more information on error message formats.</p> <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



DOCUMENT MODIFICATION HISTORY		
VERSION	RELEASE DATE	DESCRIPTION
2.0	September 1999	Original single document
2.1	November 21, 2003	<ul style="list-style-type: none"> • Message specification published as separate document. • Added 'General Introduction' • Added reference 'Data Type' and 'Table' columns into segment tables • Corrections to published 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.) • Message components or vocabulary marked for future release (from version 2.0) have either been removed entirely or marked as Not Supported. Any substantive changes to these specifications in future will be released as new messages in order to provide for backward compatibility.

Corrections and Update Notes

¹ 02/Nov/27 – example of correction

² This HL7 required component is not supported for this message.

³ This component of the complex data type is not supported in this message.

⁴ Note that only the namespace component of the EI datatype is used with TXA.12 .

⁵ Minimum cardinality on ERR segment corrected to read 0, instead of 1. This optional segment may not be present in some messages.