



**BRITISH
COLUMBIA**

Ministry of Health Services

**Professional and Software Compliance Standards
For HL7 Messaging**

Appendix B - Supported Formats (HL7 Data Types)

Version 3.0

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1 General Information

This document and its companion volumes contain the **Professional and Software Compliance Standards for HL7 Messaging** between the BC Ministry of Health and external clients. These standards are used for the exchange of information with various business areas within the Ministry including: the Client Registry (patient/client demographics), MSP (beneficiary coverage), MSP Employer Services (enrolment of employees and dependants), Primary Health Care (patient rostering) and Continuing Care (client demographics and history).

1.1 Corrections and updates

Corrections and updates to this appendix can be found at the end of the document. A vertical line in the outside border denotes corrections within the document. ¹

1.2 Who is the audience?

This document is intended for use by:

- a) Software Support Organizations (SSO) who wish to develop software that is compliant with the BC standard for the exchange of business area data encompassing Client Registry, MSP, Primary Care, Continuing Care and other Ministry supported transactions.
- b) Providers, administrators, health care professionals and MSP Benefits administrators (public and private employers) who are responsible for the implementation of compliant software in their organizations.

2 Overview

This section of the Compliance Documents describes the *healthnetBC* interpretations of HL7 2.3 Data Types (reference: Health Level Seven, Version 2.3, section 2.8 Data Types).

Each component in a compound field (e.g. HNET:XPN - Extended Person Name) is separated in HL7 with a component separator, typically the caret “^”.

The table below identifies the HL7 Data Types (aka 'Formats' in the *healthnetBC* Compliance Document) and associated HL7 references and formats. Some of these data types have been superseded by *healthnetBC* and are so noted in the Notes/Format column of the table.

Following this table are the *healthnetBC* definitions of the revised data types (formats).

3 HL7 Data Types

Data Type Category/ Data Type	Data Type Name	HL7 Section Reference	Notes/Format
Alphanumeric			
ST	String	2.8.38	
TX	Text data	2.8.43	
FT	Formatted text	2.8.17	
Numerical			
CQ	Composite quantity with units	2.8.9	Superseded by <i>healthnetBC</i> standard HNET:CQ <quantity (NM)> ^ <units (CE)>
MO	Money	2.8.23	Superseded by <i>healthnetBC</i> standard HNET:MO <quantity (NM)> ^ <denomination (ID)>
NM	Numeric	2.8.25	
SI	Sequence ID	2.8.36	
SN	Structured numeric	2.8.37	Superseded by <i>healthnetBC</i> standard HNET:SN <comparator> ^ <num1 (NM)> ^ <separator/suffix> ^ <num2 (NM)>

Data Type Category/ Data Type	Data Type Name	HL7 Section Reference	Notes/Format
Identifier			
ID	Coded values for HL7 tables	2.8.19	
IS	Coded value for user-defined tables	2.8.20	
HD	Hierarchic designator	2.8.18	Superseded by <i>healthnetBC</i> standard HNET:HD <namespace ID (IS)> ^ <universal ID (ST)> ^ <universal ID type (ID)> Used only as part of EI and other data types.
EI	Entity identifier	2.8.15	Superseded by <i>healthnetBC</i> standard HNET:EI <entity identifier (ST)> ^ <namespace ID (IS)> ^ <universal ID (ST)> ^ <universal ID type (ID)>
RP	Reference pointer	2.8.34	Superseded by <i>healthnetBC</i> standard HNET:RP <pointer (ST) > ^ < application ID (HD)> ^ <type of data (ID)> ^ <subtype (ID)>
PL	Person location	2.8.26	Superseded by <i>healthnetBC</i> standard HNET:PL <point of care (IS)> ^ <room (IS)> ^ <bed (IS)> ^ <facility (HD)> ^ < location status (IS)> ^ <person location type (IS)> ^ <building (IS)> ^ <floor (IS)> ^ <location description (ST)>
PT	Processing type	2.8.29	Superseded by <i>healthnetBC</i> standard HNET:PT <processing ID (ID)> ^ <processing mode (ID)>
Date/Time			
DT	Date	2.8.13	YYYY[MM[DD]]
TM	Time	2.8.39	HH[MM[SS.S[S[S[S]]]]][+/-ZZZZ]
TS	Time stamp	2.8.42	Superseded by <i>healthnetBC</i> standard HNET:TS YYYY[MM[DD][HHMM[SS.S[S[S[S]]]]]]][+/-ZZZZ] ^ <degree of precision>

Data Type Category/ Data Type	Data Type Name	HL7 Section Reference	Notes/Format
Code Values			
CE	Coded element	2.8.3	Superseded by <i>healthnetBC</i> standard HNET:CE <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>
CE1 ²	Coded element (Variation #1)	2.8.3	<i>healthnetBC</i> fixed length variant on CE. Used with CM datatype in ERR segment. <identifier (ST)> ^ <text (ST)> ^ <name of coding system (ST)> ^ <alternate identifier (ST)> ^ <alternate text (ST)> ^ <name of alternate coding system (ST)>
CF	Coded element with formatted values	2.8.4	Superseded by <i>healthnetBC</i> standard HNET:CF <identifier (ID)> ^ <formatted text (FT)> ^ <name of coding system (ST)> ^ <alternate identifier (ID)> ^ <alternate formatted text (FT)> ^ <name of alternate coding system (ST)>
CK	Composite ID with check digit	2.8.5	Superseded by <i>healthnetBC</i> standard HNET:CK <ID number (NM)> ^ <check digit (NM)> ^ <code identifying the check digit scheme employed (ID)> ^ < assigning authority (HD)>
CN	Composite ID number and name	2.8.7	Superseded by <i>healthnetBC</i> standard HNET:CN <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)>
CX	Extended composite ID with check digit	2.8.10	Superseded by <i>healthnetBC</i> standard HNET:CX <ID (ST)> ^ <check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ < assigning authority (HD))> ^ <identifier type code (IS)> ^ < assigning facility (HD)
XCN	Extended composite ID number and name	2.8.46	Superseded by <i>healthnetBC</i> standard HNET:XCN In Version 2.3, use instead of the CN data type. <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code (ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)>

Data Type Category/ Data Type	Data Type Name	HL7 Section Reference	Notes/Format
Generic			
CM	Composite	2.8.6	Superseded by <i>healthnetBC</i> standard HNET:CMx where x is a number No new CM's are allowed after HL7 Version 2.2. Hence there are no new CM's in Version 2.3.
Demographics			
AD	Address	2.8.1	Superseded by <i>healthnetBC</i> standard HNET:AD (replaced by HNET:XAD) <street address (ST)> ^ < other designation (ST)> ^ <city (ST)> ^ <state or province (ST)> ^ <zip or postal code (ST)> ^ <country (ID)> ^ <address type (ID)> ^ <other geographic designation (ST)>
PN	Person name	2.8.28	Superseded by <i>healthnetBC</i> standard HNET:PN (replaced by HNET:XPN) <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)>
TN	Telephone number	2.8.40	Superseded by <i>healthnetBC</i> standard HNET:TN (replaced by HNET:XTN) [NN] [(999)]999-9999[X999999][B999999][C any text]
XAD	Extended address	2.8.45	Superseded by <i>healthnetBC</i> standard HNET:XAD SEE ALSO HNET:ZAD for <i>healthnetBC</i> Extended Address In Version 2.3, replaces the AD data type. <street address (ST)> ^ <other designation (ST)> ^ <city (ST)> ^ <state or province (ST)> ^ <zip or postal code (ST)> ^ <country (ID)> ^ < address type (ID)> ^ <other geographic designation (ST)> ^ <county/parish code (IS)> ^ <census tract (IS)>

Data Type Category/ Data Type	Data Type Name	HL7 Section Reference	Notes/Format
XPN	Extended person name	2.8.48	<p>Superseded by <i>healthnetBC</i> standard HNET:XPN SEE ALSO HNET:ZPN for <i>healthnetBC</i> Extended Person Name</p> <p>In Version 2.3, replaces the PN data type. <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <name type code (ID) ></p>
XON	Extended composite name and ID number for organizations	2.8.47	<p>Superseded by <i>healthnetBC</i> standard HNET:XON</p> <p><organization name (ST)> ^ <organization name type code (IS)> ^ <ID number (NM)> ^ <check digit (NM)> ^ <code identifying the check digit scheme employed (ID)> ^ <assigning authority (HD)> ^ <identifier type code (IS)> ^ <assigning facility ID (HD)></p>
XTN	Extended telecommunications number	2.8.49	<p>Superseded by <i>healthnetBC</i> standard HNET:XTN</p> <p>SEE ALSO HNET:ZTN for <i>healthnetBC</i> Extended Telecommunications Number</p> <p>In Version 2.3, replaces the TN data type. [NNN] [(999)999-9999 [X99999] [B99999] [C any text] ^ <telecommunication use code (ID)> ^ <telecommunication equipment type (ID)> ^ <email address (ST)> ^ <country code (NM)> ^ <area/city code (NM)> ^ <phone number (NM)> ^ <extension (NM)> ^ <any text (ST)></p>
Specialty/Chapter Specific			
Waveform			
CD	Channel definition	2.8.2	<p>For waveform data only, see Chapter 7, Section 7.15.3. <channel identifier (*)> ^ <channel number (NM)> & <channel name (ST)>> ^ <electrode names (*)> ^ <channel sensitivity/units (*)> ^ <calibration parameters (*)> ^ <sampling frequency (NM)> ^ <minimum/maximum data values (*)></p>
MA	Multiplexed array	2.8.22	<p>For waveform data only, see Chapter 7, Section 7.15.2. <sample 1 from channel 1 (NM)> ^ <sample 1 from channel 2 (NM)> ^ <sample 1 from channel 3 (NM)> ...~<sample 2 from channel 1 (NM)> ^ <sample 2 from channel 2 (NM)> ^ <sample 2 from channel 3 (NM)> ...~</p>

Data Type Category/ Data Type	Data Type Name	HL7 Section Reference	Notes/Format
NA	Numeric array	2.8.24	For waveform data only, see Chapter 7, Section 7.15.1. <value1 (NM)> ^ <value2 (NM)> ^ <value3 (NM)> ^ <value4 (NM)> ^ ...
ED	Encapsulated data	2.8.14	Supports ASCII MIME-encoding of binary data. <source application (HD) > ^ <main type of data (ID)> ^ <data subtype (ID)> ^ <encoding (ID)> ^ <data (ST)>

Data Type Category/ Data type	Data Type Name	HL7 Section Reference	Notes/Format
Price Data			
CP	Composite price	2.8.8	Superseded by <i>healthnetBC</i> standard HNET:CP In Version 2.3, replaces the MO data type. <price (MO)> ^ <price type (ID)> ^ <from value (NM)> ^ <to value (NM)> ^ <range units (CE)> ^ <range type (ID)>
Patient Administration/Financial Information			
FC	Financial class	2.8.16	Superseded by <i>healthnetBC</i> standard HNET:FC <financial class (ID)> ^ <effective date (TS)>
Extended Queries			
QSC	Query selection criteria	2.8.31	Superseded by <i>healthnetBC</i> standard HNET:QSC <name of field (ST)> ^ <relational operator (ID)> ^ <value (ST)> ^ <relational conjunction (ID)>
QIP	Query input parameter list:	2.8.30	Superseded by <i>healthnetBC</i> standard HNET:QIP <field name (ST) > ^ <value1 (ST) & value2 (ST) & value3 (ST) ...>
RCD	Row column definition:	2.8.32	Superseded by <i>healthnetBC</i> standard HNET:RCD <HL7 item number (ST)> ^ <HL7 data type (ST)> ^ <maximum column width (NM)>

Data Type Category/ Data type	Data Type Name	HL7 Section Reference	Notes/Format
Master Files			
DLN	Driver's license number	2.8.11	Superseded by <i>healthnetBC</i> standard HNET:DLN <license number (ST)> ^ <issuing state, province, country (IS)> ^ <expiration date (DT)>
JCC	Job code/class	2.8.21	Superseded by <i>healthnetBC</i> standard HNET:JCC <job code (IS)> ^ <job class (IS)>
VH	Visiting hours	2.8.44	Superseded by <i>healthnetBC</i> standard HNET:VH <start day range (ID)> ^ <end day range (ID)> ^ <start hour range (TM)> ^ <end hour range (TM)>
Medical Records/Information Management			
PPN	Performing person time stamp:	2.8.27	Superseded by <i>healthnetBC</i> standard HNET:PPN <ID number (ST)> ^ <family name (ST)> ^ <given name (ST)> ^ <middle initial or name (ST)> ^ <suffix (e.g., JR or III) (ST)> ^ <prefix (e.g., DR) (ST)> ^ <degree (e.g., MD) (ST)> ^ <source table (IS)> ^ <assigning authority (HD)> ^ <name type code(ID)> ^ <identifier check digit (ST)> ^ <code identifying the check digit scheme employed (ID)> ^ <identifier type code (IS)> ^ <assigning facility (HD)> ^ < date/time action performed (TS)>

Data Type Category/ Data type	Data Type Name	HL7 Section Reference	Notes/Format
Time Series:			
DR	Date/time range	2.8.12	Scheduling Chapter Only: <range start date/time (TS)> ^ <range end date/time (TS)>
RI	Repeat interval	2.8.33	Scheduling Chapter Only: <repeat pattern (IS)> ^ <explicit time interval (ST)>
SCV	Scheduling class value pair	2.8.35	Scheduling Chapter Only: <parameter class (IS)> ^ <parameter value (IS)>

Data Type Category/ Data type	Data Type Name	HL7 Section Reference	Notes/Format
TQ	Timing/quantity	2.8.41	Superseded by <i>healthnetBC</i> standard HNET:TQ For timing/quantity specifications for orders, see Chapter 4, Section 4.3. <quantity (CQ)> ^ <interval (*)> ^ <duration (*)> ^ <start date/time (TS)> ^ <end date/time (TS)> ^ <priority (ID)> ^ <condition (ST)> ^ <text (TX)> ^ <conjunction (ID)> ^ <order sequencing (*)>

Data Type Category/ Data type	Data Type Name	HL7 Section Reference	Notes/Format
<i>healthnetBC</i>			
ZAD	<i>healthnetBC</i> Extended Address	<i>healthnetBC</i> custom datatype.	<address Line 1 (ST)> ^ <address Line 2 (ST)> ^ <address Line 3 (ST)> ^ <address Line 4 (ST)> ^ <address Line 5 (ST)> ^ <address Line 6 (ST)> ^ <Street Number (ST)> ^ <Street Type (ST)> ^ <Street Direction (ST)> ^ <Unit Identifier (ST)> ^ <Unit Designator (ST)> ^ <Delivery Installation Area (ST)> ^ <Delivery Installation Type (ST)> ^ <Delivery Installation Qualifier (ST)> ^ <Delivery Installation Designator (ST)> ^ <Mode of Delivery Designator (ST)> ^ <Mode of Delivery ID (ST)> ^ <Physical Description (ST)> ^ <City (ST)> ^ <State or Province (ST)> ^ <Zip or Postal Code (ST)> ^ <Country (ID)> ^ <Address Type (ID)> ^ <Other Geographic Region (ST)> ^ <County/Parish (IS)> ^ <Census Tract (IS)> ^ <Valid CPC Address Indicator (ID)> ^ <CPC Validation Date (DT)> ^ <Valid for Residence Indicator (ID)> ^ <Valid for Residence Date (DT)> ^ <Valid for Residence Category (ID)> ^ <Valid for Mailing Indicator (ID)> ^ <Valid Physical Address Indicator (ID)> ^ <Address Validation Best Guess Indicator (ID)> ^ <Effective Start Date (DT)> ^ <Effective End Date (DT)>
ZPN	<i>healthnetBC</i> Extended Person Name	<i>healthnetBC</i> custom datatype.	<Family Name (ST)> ^ <First Given Name (ST)> ^ <Second Given Name (ST)> ^ <Third Given Name (ST)> ^ <Suffix (ST)> ^ <Prefix (ST)> ^ <Name Type Code (ID)> ^ <Representation Code (ID)> ^ <Indicator 1 (ID)> ^ <Indicator 2 (ID)> ^ <Effective Start Date (DT)> ^ <Effective End Date (DT)> ^
ZRG	Argument list	<i>healthnetBC</i> custom datatype.	For passing name/value pairs. <argument (IS)> ^ <argument value (ST)>

Data Type Category/ Data type	Data Type Name	HL7 Section Reference	Notes/Format
ZTN	healthnetBC Extended Telephone Number	healthnetBC custom datatype.	<Unstructured Phone Number (various)> ^ <Telecommunications Use Code (ID)> ^ <Telecommunications Equipment Type (ID)> ^ <Email Address (ST)> ^ <Country Code (NM)> ^ <Area/city Code (NM)> ^ <Phone Number (NM)> ^ <Extension (NM)> ^ <Any Text (ST)> ^ <Indicator 1 (ID)> ^ <Indicator 2 (ID)> ^ <Effective Start Date (DT)> ^ <Effective End Date (DT)>

* for sub components of these elements please refer to the definition in the text.

3.1 HNET:AD - Address

Not used - replaced by HNET:XAD - Extended Address.

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Street Address	25	HL7:ST		
2	Other Designation	25	HL7:ST		
3	City	25	HL7:ST		
4	State or Province	2	HL7:ST		
5	Zip or Postal Code	10	HL7:ST		Canadian postal code, US Zip Code
6	Country	15	HL7:ID	HNET:9950	
7	Address Type	1	HL7:ID	HNET:0190	
8	Other Geographic Designation	5	HL7:ST		e.g. electoral district
Total		108	+ 7 (component separators) = 115		

3.2 HNET:CE - Coded Element

This data type is used to describe codes and associated text describing these codes. Refer to **HNET:CE1** for use of this data type for error messages in the ERR segment.

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Identifier	15	HL7:ST		Coded value

2	Text	80	HL7:ST		Text describing the coded value
3	Name of Coding System	8	HL7:ST		
4	Alternate Identifier	15	HL7:ST		Alternate coded value
5	Alternate Text	80	HL7:ST		Text describing the alternate coded value
6	Name of Alternate Coding System	8	HL7:ST		
Total		206	+ 5 (component separators) = 211		

3.3 HNET:CE1 - Coded Element (Variation #1)

This data type is used for error messages, used by HNET:CM1 in ERR segment.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Identifier	15	HL7:ST		coded value
2	Text	80	HL7:ST		text describing the coded value
3	Name of Coding System	8	HL7:ST		
4	Alternate Identifier	15	HL7:ST		alternate coded value
5	Alternate Text	255	HL7:ST		text describing the alternate coded value
6	Name of Alternate Coding System	8	HL7:ST		
Total		381	+ 5 (component separators) = 386		

3.4 HNET:CK - Composite ID with Check Digit

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	ID Number	20	HL7:NM		
2	Check Digit	1	HL7:NM		
3	Code Identifying the Check Digit Scheme Used	3	HL7:ID	HL7:0061	
4	Assigning Authority	52	HNET:HD		
Total		76	+ 3 (component separators) = 79		

3.5 HNET:CM1 - Composite (Variation #1)

This data type describes fields that are a combination of other meaningful fields, such as error messages, which include an error message number, message text and possibly message type (error, warning, information).

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Segment ID	3	HL7:ST		Segment ID where error occurred
2	Sequence	4	HL7:NM		If more than 1 Segment ID in the transaction, then this is the specific occurrence of that segment in the transaction (e.g. 3 rd PID segment)
3	Field Position	4	HL7:NM		Field position in the segment where error occurred (e.g. field 4, counting from 1)
4	Code Identifying Error	386	HNET:CE1		Uses HNET:CE1 instead of HNET:CE to allow for longer alternate error messages
Total		397	+ 3 (component separators) = 400		

3.6 HNET:CM2 - Composite (Variation #2)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	ID Number	10	HL7:ST		Actual identifier
2	Type of ID Number	8	HL7:IS		
3	Other Qualifying Info	80	HL7:ST		
Total		98	+ 2 (component separators) = 100		

Example: |4896^PROVIDER^|

This example encodes the Provider number 4896.

3.7 HNET:CM3 - Composite (Variation #3)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Discharge Location	10	HL7:IS	HL7:0113	
2	Effective Date	26	HNET:TS		
Total		36	+ 1 (component separators) = 37		

3.8 HNET:CM4 - Composite (Variation #4)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Message Type	3	HL7:ID	HL7:0076	
2	Trigger Event	3	HL7:ID	HL7:0003	
Total		6	+ 1 (component separators) = 7		

3.9 HNET:CM5 - Composite (Variation #5)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Authenticated by Whom	257	HNET:XCN		
2	When Authenticated	26	HNET:TS		
Total		283	+ 1 (component separators) = 284		

Note: This data type must be specified in such a manner that it will not involve nesting of components past the sub-component level. This is achieved by separating the sub-components in each of the components for this data type and

the components in this data type with the same component separator (“^”). The sub-component separator will be used within any of the components of this data type, as required.

For example (note ^ used to separate sub-components in Authenticated by Whom and When Authenticated AND to separate the two component fields Authenticated by Whom and When Authenticated):

```
[097220^SMITH^FREDERICK^A^JR^DR^MD^BC&&^L^MSP&&^19990104083000.1263-0800^Y|
```

where:

- BC&& delimiters added for clarity only
- MSP&& delimiters added for clarity only
- Y degree of precision added for clarity only

3.10 HNET:CM6 - Composite (Variation #6)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Authorization Number	20	HL7:ST		
2	Date	8	HL7:DT		
3	Source	25	HL7:ST		
Total		53	+ 2 (component separators) = 55		

3.11 HNET:CM7 - Composite (Variation #7)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Specimen Source Name or Code	211	HNET:CE		

2	Additives	80	HL7:TX		
3	Freetext	80	HL7:TX		
4	Body Site	211	HL7:CE		
5	Site Modifier	211	HL7:CE		
6	Collection Method Modifier Code	211	HL7:CE		
Total		1004	+ 5 (component separators) = 1009		

3.12 HNET:CM8 - Composite (Variation #8)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	When to Charge	1	HL7:ID	HL7:0100	
2	Date/Time	26	HNET:TS		
Total		27	+ 1 (component separators) = 28		

3.13 HNET:CM9 - Composite (Variation #9)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Repeat Pattern	12	HL7:IS		
2	Explicit Time Interval	20	HL7:ST		
Total		32	+ 1 (component separators) = 33		

3.14 HNET:CM10 - Composite (Variation #10)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Sequence/Results Flag	1	HL7:ST		
2	Placer Order Number: Entity Identifier	20	HL7:ST		
3	Placer Order Number: Namespace ID	20	HL7:IS	HNET:0300	
4	Filler Order Number: Entity Identifier	20	HL7:ST		
5	Filler Order Number: Namespace ID	20	HL7:IS	HNET:0300	
6	Sequence Condition Value	8	HL7:ST		
7	Maximum Number of Repeats	5	HL7:NM		
8	Placer Order Number: Universal ID	20	HL7:ST		
9	Placer Order Number: Universal ID Type	10	HL7:ID	HL7:0301	
10	Filler Order Number: Universal ID	20	HL7:ST		
11	Filler Order Number: Universal ID Type	20	HL7:ID	HL7:0301	
Total		164	+ 10 (component separators) = 174		

3.15 HNET:CM11 - Composite (Variation #11)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Dollar Amount	14	HNET:MO		
2	Charge Code	211	HNET:CE		
Total		225	+ 1 (component separators) = 226		

3.16 HNET:CM12 - Composite (Variation #12)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Observation Identifier of Parent Result	211	HNET:CE		
2	Sub-ID of Parent Result	20	HL7:ST		
3	Observation Result of Parent Result	80	HL7:ST		Excludes HTML data. Length should be 64K or 65536 bytes.
Total		311	+ 2 (component separators) = 313		

3.17 HNET:CM13 - Composite (Variation #13)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Parent's Placer Order Number	73	HNET:EI		
2	Parent's Filler Order Number	73	HNET:EI		
Total		146	+ 1 (component separators) = 147		

3.18 HNET:CM14 - Composite (Variation #14)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Name	193	HNET:CN		
2	Start Date/Time	26	HNET:TS		
3	End Date/Time	26	HNET:TS		
4	Point of Care	5	HL7:IS		
5	Room	10	HL7:IS		
6	Bed	10	HL7:IS		
7	Facility	52	HNET:HD		
8	Location Status	10	HL7:IS		
9	Patient Location Type	10	HL7:IS		
10	Building	10	HL7:IS		

11	Floor	10	HL7:IS		Can also be used for Ward
Total		362	+ 10 (component separators) = 372		

3.19 HNET:CM15 – Composite (Variation #15)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Room Type	6	HL7:IS	HL7:0145	
2	Amount Type	6	HL7:IS	HL7:0146	
3	Coverage Amount	14	HL7:NM		

Total 26 + 2 (component separators) = 28

3.20 HNET:CM16 – Composite (Variation #16)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Policy Type	6	HL7:IS	HL7:0147	
2	Amount Class	2	HL7:IS	HL7:0193	
3	Amount	14	HL7:NM		

Total 22 + 2 (component separators) = 24

3.21 HNET:CM17 – Composite (Variation #17)

This data type describes fields that are a combination of other meaningful fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Delay Days	5	HL7:NM		
2	Amount	14	HL7:NM		
3	Number of Days	5	HL7:NM		

Total 24 + 2 (component separators) = 26

3.24 HNET:CP - Composite Price

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Price	14	HNET:MO		
2	Price Type	2	HL7:ID	HL7:0205	
3	From Value	10	HL7:NM		
4	To Value	10	HL7:NM		
5	Range Units	211	HNET:CE		
6	Range Type	1	HL7:ID	HL7:0298	
Total		248	+ 5 (component separators) = 253		

3.25 HNET:CQ - Composite Quantity with Units

This data type is used to encode quantity + units, such as 100 RD (records).

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Quantity	10	HL7:NM		
2	Units	211	HNET:CE		
Total		221	+ 1 (component separators) = 222		

3.26 HNET:CX - Extended Composite ID with check digit

This data type is used to encode primary keys to uniquely identify entities.

	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	ID	20	HL7:ST		actual key
2	Check Digit	1	HL7:ST		
3	Code Identifying the	3	HL7:ID	HL7:0061	

	Check Digit Scheme Employed				
4	Assigning Authority	52	HNET:HD		
5	Identifier Type Code	6 ³	HL7:IS	HNET:0203	September 2003. Max length increased to 6 from (2). See end note.
6	Assigning Facility	52	HNET:HD		
Total		4	+ 5 (component separators) = 139		

Example: |1234567890^^^PH^| or |1234567890^^^PH|

This example encodes the PHN (PH) of 1234567890.

3.27 HNET:DLN - Driver’s License Number

This field contains the driver’s license information.

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	License Number	20	HL7:ST		
2	Issuing State, Province, Country	15	HL7:IS		
3	Expiration Date	8	HL7:DT		
Total		43	+ 2 (component separators) = 45		

3.28 HNET:ED – Encapsulated Data

This data type supports the mime-encoding of binary data

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Source Application	52	HL:HD		
2	Type of Data	12	HL7:ID	HL7:0191	
3	Data subtype	12	HL7:ID	HL7:0291	
4	Encoding ID	10	HL7:ID	HL7:0299	

5	Data		ST		Length negotiable
Total					

3.29 HNET:EI - Entity Identifier

The first component, entity identifier, is usually defined to be unique within the series of identifiers created by the assigning authority.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Entity Identifier	20	HL7:ST		
2	Namespace ID	20	HL7:IS	HNET:0300	
3	Universal ID	20	HL7:ST		
4	Universal ID Type	10	HL7:ID	HL7:0301	
Total		70	+ 3 (component separators) = 73		

3.30 HNET:FC - Financial Class

This data type is used to encode financial classifications.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Financial Class	3	HL7:IS	HNET:0064	
2	Effective Date	26	HNET:TS		
Total		29	+ 1 (component separators) = 30		

3.31 HNET:HD - Hierarchic Designator

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Namespace ID	20	HL7:IS	HNET:0300	Comment: table reference can change if HD is used in a compound datatype like XON.
2	Universal ID	20	HL7:ST		

3	Universal ID Type	10	HL7:ID	HL7:0301	
Total		50	+ 2 (component separators) = 52		

3.32 HNET:JCC - Job Code/Class

This field contains the driver's license information.

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Job Code	10	HL7:IS	HL7:0327	
2	Job Class	9	HL7:IS	HL7:0329	
Total		19	+ 1 (component separators) = 20		

3.33 HNET:MO - Money

This data type is used to encode currency amounts.

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Quantity	10	HL7:NM		
2	Denomination	3	HL7:ID		Use ISO-4217 or HNET:9950 Country Code
Total		13	+ 1 (component separators) = 14		

3.34 HNET:PL - Person Location

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Point of Care	5	HL7:IS		
2	Room	10	HL7:IS		
3	Facility	52	HNET:HD		
4	Location Status	10	HL7:IS		
5	Person Location Type	10	HL7:IS		
6	Building	10	HL7:IS		

7	Floor	10	HL7:IS		Can also be used for Ward
8	Location Description	80	HL7:ST		
Total		187	+ 7 (component separators) = 194		

3.35 HNET:PN - Person Name

Not used - replaced by HNET:XPN - Extended Person Name

3.36 HNET:PT - Processing Type

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Processing ID	1	HL7:ID	HL7:0103	
2	Processing Mode	1	HL7:ID	HL7:0207	
Total		2	+ 1 (component separators) = 3		

3.37 HNET:TN - Telephone Number

Not used - replaced by HNET:XTN - Extended Telecommunications Number

3.38 HNET:TQ - Quantity/Timing

Extremely complex data type. For further information, see section 4.4 Quantity/Timing Definition in the HL7 v2.3 specifications.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Quantity	222	HNET:CQ		
2	Interval	33	HNET:CM9		
3	Duration	5	HL7:ST		
4	Start Date/Time	26	HNET:TS		
5	End Date/Time	26	HNET:TS		
6	Priority	5	HL7:ST		

7	Condition	80	HL7:ST		
8	Text	80	HL7:TX		
9	Conjunction	1	HL7:ST		
10	Order Sequencing	174	HNET:CM10		
11	Occurrence Duratino	211	HNET:CE		
12	Total Occurrences	8	HL7:NM		
Total		871	+ 11 (component separators) = 882		

3.39 HNET:TS - Timestamp

YYYY[MM[DD[HHMM[SS[.S[S[S[S]]]]]]][+/-ZZZZ]

This data type differs from the HL7 format only in the fact that the “^<degree of precision>” component at the end of the definition has been dropped. Overall length of the data type remains at 26, even though no more than 24 characters can be specified using the format above.

[.S[S[S[S]]]] indicates fractions of seconds

[+/-ZZZZ] indicates offset to GMT, such as “-0800” or “+0100”. Note that “+/-” is specified as 1 character, not 3.

Example: 19980212021000.5341-0800

3.40 HNET:XAD - Extended Address

These address formats may be acceptable to various *healthnetBC* applications, but the Ministry of Health is moving towards use of structured addresses in its systems, therefore a new data type (likely named ZAD) will be defined and may be more appropriate.

See HNET:ZAD for extensions to HNET:XAD for additional fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Street Address	25	HL7:ST		
2	Other Designation	25	HL7:ST		

3	City	25	HL7:ST		
4	State or Province	2	HL7:ST		
5	Zip or Postal Code	10	HL7:ST		Canadian postal code, US Zip Code
6	Country	15	HL7:ID	HNET:9950	
7	Address Type	1	HL7:ID	HNET:0190	
8	Other Geographic Region	5	HL7:ST		e.g. electoral district. Comment: this HL7 component has been relabelled, and restricted. Was "Other Geographic Designation"
9	County/Parish	10	HL7:IS	HL7:0289	
10	Census Tract	10	HL7:IS	HL7:0288	
Total		128	+ 9 (component separators) = 137		

Example: |123 MAIN STREET^VICTORIA^BC^V9V9V9^CAN^H^010^|

This example encodes the home address:

123 Main Street
Victoria, BC, V9V9V9
Canada

which is located in Health Unit 010.

3.41 HNET:XCN - Extended Composite ID Number and Name for Persons

Unlike HNET:XPN which simply encodes a person's name, this HL7 data type is used to encode a unique ID + person name in one consolidated data type.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	ID Number	20	HL7:ST		
2	Family Name	35	HL7:ST		
3	Given Name	25	HL7:ST		
4	Middle Initial or Name	25	HL7:ST		
5	Suffix	6	HL7:ST		

6	Prefix	6	HL7:ST		
7	Degree	6	HL7:ST		
8	Source Table	10	HL7:IS	HL7:0297	
9	Assigning Authority	52	HNET:HD		
10	Name Type Code	1	HL7:ID	HNET:0200	
11	Identifier Check Digit	1	HL7:ST		
12	Code Identifying the Check Digit Scheme Employed	3	HL7:ST	HL7:0061	
13	Identifier Type Code	2	HL7:IS	HNET:0203	
14	Assigning Facility	52	HNET:HD		
Total		244	+ 13 (component separators) = 257		

Example: |1234567890^Smith^John^Patrick^L^PH^|

This example encodes the legal (L) name John Patrick Smith, identified with a PHN of 1234567890

3.42 HNET:XON - Extended Composite Name and Identification Number for Organizations

Seq	Component Name	Len	HL7 Data Type	Table	healthnetBC Usage
1	Organization Name	40	HL7:ST		
2	Organization Name Type Code	2	HL7:IS	HNET:0204	
3	ID Number	20	HL7:ST		Comment: defined in HL7 as NM, but altered to support non-numeric identifiers
4	Check Digit	1	HL7:NM		
5	Code Identifying the Check Digit Scheme Employed	3	HL7:ID ⁴	HL7:0061	
6	Assigning Authority	52	HNET:HD		

7	Identifier Type Code	6 ³	HL7:IS	HNET:0203	September 2003. Max length increased to 6 from (2). See end note.
8	Assigning Facility	52	HNET:HD		
Total		6	+ 7 (component separators) = 183		

Example: |Chilliwack Quick Response Program^QR^445^^^|

This example encodes Chilliwack Quick Response Program (type QR), identified as organization 445

3.43 HNET:XPN - Extended Person Name

This data type describes the layout used to format a person name. It is based upon HL7's XPN data type, with changes to component names and lengths.

See HNET:ZPN for extensions to HNET:XPN..

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Family Name	35	HL7:ST		
2	First Given Name	25	HL7:ST		
3	Second Given Name	25	HL7:ST		
4	Suffix	6	HL7:ST		
5	Prefix	6	HL7:ST		
6	Degree ⁵	3	HL7:IS	HL7:0360	
7	Name Type Code	1	HL7:ID	HNET:0200	
8	Representation Code	10	HL7:ID	HL7:0465	June 2003 – table Reference corrected. ⁶
Total		111	+ 7 (component separators) = 118		

Example: |Smith^John^Patrick^^^L^|

This example encodes the legal (L) name John Patrick Smith.

3.44 HNET:XTN - Extended Telecommunications Number

This data type describes the layout used to format a telephone number, whether it is a fax number, cellular phone number or home/work number. It can also be used for internet addresses.

See HNET:ZTN for extensions to HNET:XTN for additional fields.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC Usage</i>
1	Unstructured Phone Number	50	various		
2	Telecommunication Use Code	3	HL7:ID	HL7:0201	
3	Telecommunication Equipment Type	2	HL7:ID	HNET:0202	
4	Email Address	120	HL7:ST		
5	Country Code	3	HL7:NM		
6	Area/city Code	3	HL7:NM		Due to 2 area codes in BC, the use of area codes is highly recommended in transaction design
7	Phone Number	7	HL7:NM		e.g. 5556723, no - separator
8	Extension	5	HL7:NM		phone number extension
9	Any Text	10	HL7:ST		e.g. "after 6:00"
Total		203	+ 8 (component separators) = 211		

Example: |^PRN^PH^^250^5556723^^After 6:00|

This example encodes the primary (PRN) phone (PH) number (250) 555-6723 with some extra text.

3.45 HNET:ZAD - *healthnetBC* Extended Address

This data type extends the HNET:XAD data type to include additional attributes.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Address Line1	25	HL7:ST		
2	Address Line2	25	HL7:ST		
3	Address Line3	25	HL7:ST		
4	Address Line4	25	HL7:ST		
5	Address Line5	25	HL7:ST		
6	Address Line6	25	HL7:ST		
7	Street Number	10	HL7:ST		
8	Street Number Suffix	10	HL7:ST		
9	Street Name	30	HL7:ST		
10	Street Type	7	HL7:ST	HNET:9936	Coded as per Postal Code Address Data - Technical Specifications, June 1997
11	Street Direction	2	HL7:ST	HNET:9937	Coded as per Postal Code Address Data - Technical Specifications, June 1997
12	Unit Identifier	10	HL7:ST		
13	Unit Designator	10	HL7:ST	HNET:9935	
14	Delivery Installation Area	30	HL7:ST		
15	Delivery Installation Type	6	HL7:ST	HNET:9939	
16	Delivery Installation Qualifier	15	HL7:ST		
17	Mode of Delivery Designator	6	HL7:ST	HNET:9938	

18	Mode of Delivery ID	10	HL7:ST		
19	Physical Description	80	HL7:ST		
20	City	25	HL7:ST		
21	State or Province	2	HL7:ST		
22	Zip or Postal Code	10	HL7:ST		Canadian postal code, US Zip Code
23	Country	15	HL7:ID	HNET:9950	
24	Address Type	1	HL7:ID	HNET:0190	
25	Other Geographic Region	5	HL7:ST		e.g. electoral district
26	County/Parish	10	HL7:IS	HL7:0289	
27	Census Tract	10	HL7:IS	HL7:0288	
28	Valid CPC Address Indicator	1	HL7:ID	HNET:9941	Is this a Canadian Postal Code (CPC) valid address?
29	CPC Validation Date	8	HL7:DT		
30	Valid for Residence Indicator	1	HL7:ID	HNET:9941	
31	Valid for Residence Date	8	HL7:DT		
32	Valid for Residence Category	5	HL7:ID	HNET:9943	
33	Valid for Mailing Indicator	1	HL7:ID	HNET:9941	
34	Valid Physical Address Indicator	1	HL7:ID	HNET:9941	
35	Address Validation Best Guess Indicator	1	HL7:ID	HL7:0136	
36	Effective Start Date	8	HL7:DT		Start date of address, may be blank
37	Effective End Date	8	HL7:DT		End date of address, may be blank
Total		496	+ 36 (component separators) = 532		

3.46 HNET:ZPN - *healthnetBC* Extended Person Name

This data type is based upon HNET:XPX data type. The Degree component has been dropped and the definition extended to include fields for Third Given Name and for Effective dates.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Family Name	35	HL7:ST		
2	First Given Name	25	HL7:ST		
3	Second Given Name	25	HL7:ST		
4	Third Given Name	25	HL7:ST		
5	Suffix	6	HL7:ST		
6	Prefix	6	HL7:ST		
7	Name Type Code	1	HL7:ID	HNET:0200	
8	Representation Code	10	HL7:ID	HL7:0465	June 2003 – table reference corrected. ⁶
9	Indicator1	1	HL7:ID	HL7:0136	Reserved for future use
10	Indicator2	1	HL7:ID	HL7:0136	Reserved for future use
11	Effective Start Date	8	HL7:DT		Start date of person name, may be blank
12	Effective End Date	8	HL7:DT		End date of person name, may be blank
Total		151	+ 11 (component separators) = 162		

Example: |SMITH^JOHN^PATRICK^FRED^^^L^|

This example encodes the legal (L) name John Patrick Fred Smith.

3.47 HNET:ZRG - Argument list

This *healthnetBC* custom datatype is used to pass name/value pairs in some Z-segments.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Argument	10	HL7:IS	see note	List of values for Argument
2	Argument Value	80	HL7:ST		
Total		90	+ 1 (component separators) = 91		

Example: |BIRTHDATE^19820201|

This example encodes a birth date of 19820201.

3.48 HNET:ZTN - *healthnetBC* Extended Telephone Number

This data type describes the layout used to format a telephone number, whether it is a fax number, cellular phone number or home/work number.

Seq	Component Name	Len	HL7 Data Type	Table	<i>healthnetBC</i> Usage
1	Unstructured Phone Number	50	various		
2	Telecommunication Use Code	3	HL7:ID	HL7:0201	
3	Telecommunication Equipment Type	2	HL7:ID	HNET:0202	
4	Email Address	120	HL7:ST		
5	Country Code	3	HL7:NM		
6	Area/city Code	3	HL7:NM		Due to 2 area codes in BC, the use of area codes is highly recommended in transaction design
7	Phone Number	7	HL7:NM		e.g. 5556723, no - separator
8	Extension	5	HL7:NM		phone number extension
9	Any Text	10	HL7:ST		e.g. "after 6:00"

10	Indicator1	1	HL7:ID	HL7:0136	Reserved for future use
11	Indicator2	1	HL7:ID	HL7:0136	Reserved for future use
12	Effective Start Date	8	HL7:DT		Start date of telephone number, may be blank
13	Effective End Date	8	HL7:DT		End date of telephone number, may be blank
Total		221	+ 12 (component separators) = 233		

Example: |^PRN^PH^^250^5556723^^After 6:00|

This example encodes the primary (PRN) phone (PH) number (250) 555-6723 with some extra text



DOCUMENT HISTORY

DOCUMENT MODIFICATION HISTORY		
Version	Release Date	Description
2.0	September 1999	Original single document
3.0	<version date>	<ul style="list-style-type: none"> • Revised format. • Added CE1 datatype. • Added CM15, CM16, CM17, CM18 composite datatypes. Used in v2.4 segment definitions. • CX and XON datatypes modified (longer max length for Identifier type code component. See end notes. • ZPN corrected – missing one component in previous publication • Other corrections and changes as described in endnotes.

Corrections and Update Notes

¹ 02/Nov/27 – example of correction

² Existing datatype from HealthNet/BC v2.0 publication, not previously listed here.

³ Maximum length increased to 6, from 2. In E45 and other recent messages the code set for reference table HNET:0203 was expanded and now includes 3 character codes. As the value set for this field is fixed in all messages the specifications for R01 – R40, which use two character codes, are not affected by this change. Field length of 6 recommended for all new implementations.

⁴ In previous publication was incorrectly shown as ST datatype. The ID datatype is functionally equivalent as used here

⁵ Correction. In previous publication was missing component 6 (Degree).

⁶ Table reference for Representation Code published incorrectly in HL7 v2.3 as HL7:4000. Changed here per later 2.4 publication.