

IHE Change Proposal

Tracking information:

| | |
|-------------------------|---------------|
| IHE Domain | Devices (DEV) |
| Change Proposal ID: | CP-DEV-010 |
| Change Proposal Status: | Submitted |
| Date of last update: | |
| Person assigned: | |

Change Proposal Summary information:

| Clarify OBX and ED segments | |
|---|--|
| Submitter's Name(s) and e-mail address(es): | Jennifer Jacobs jennifer.jacobs@medtronic.com |
| Submission Date: | |
| Integration Profile(s) affected: | PCD-09 Implantable Device Cardiac Observation |
| Actor(s) affected: | Device observation reporter, device observation consumer |
| IHE Technical Framework or Supplement modified: | Patient Care Devices Technical Framework |
| Volume(s) and Section(s) affected: | Volume 2, 3.9.4.1.2.5-3 |
| Rationale for Change: Updates to clarify OBX and ED segment details. | |

Updates to Table 3.9.4.1.2.5-2 and notes:

Table 3.9.4.1.2.5-2: IEEE to HL7 Data Type Matching

| Applicable IEEE 11073 MDC_IDC types | HL7 v2 data type |
|-------------------------------------|------------------------|
| String | ST |
| Enumerated | CWE or CNE |
| Date Time | DTM |
| Numeric | NM |
| Structured Numeric | SN (see Note) |
| Encapsulated Data | ED (see Note 2) |

Note: The Structured Numeric type (SN) is used for numeric terms that require qualifications. SN types may be qualified as >Num1 or <Num1 to express a 'greater than' or 'less than' relationship using the 'comparator' character > or < 1605 respectively. Alternatively, a numeric ratio between two values Num1 and Num2 may be expressed using the Separator/Suffix characters '/' (solidus) or ':' (either character may be used).

Note 2: The ED data type shall be restricted to use for encapsulated PDFs and reference pointers per section 3.9.4.1.2.7

Replace Section 3.9.4.1.2.5 sub-section for "OBX-4 Observation Sub-ID" as follows:

Clarify OBX and ED segments

1615 OBX-4 Observation Sub-ID – If a value is provided here the embedded PDF will contain data related to a specific episode or EGM being referenced via grouping to other episode related data elements having the same Sub-ID in OBX-4 inside this message. **The sub-ID in OBX-4 shall be unique for each OBX-3 data value triplets. The combined OBX-3 and OBX-4 data values shall be unique within each message. If a value is provided in OBX-4, the value is a Sub-ID which associates the observation value with other observation values having the same Sub-ID within the same containment node within the message. If a value is provided in OBX-4 for an OBX segment containing an encapsulated PDF or reference pointer to external report, the encapsulated PDF or reference pointer to external report is assumed to be associated with a specific episode having the same Sub-ID within the message, see section 3.9.4.1.2.7 for details. An encapsulated PDF or reference pointer to external report that is not associated with an episode may be included in a message. If so, OBX-4 shall be blank.**

Add the following rows to Table 3.9.4.1.2.7-1: OBX Segment:

Table 3.9.4.1.2.7-1: OBX Segment

1. Table 3.9.4.1.2.7-1: OBX Segment

| Name | Seq | DT | Len | Opt | Rep | Min | Max | Tbl | Fixed Value | Ex Val |
|------------------------------------|-----------------|------------------|-------------------|------------------|-------|-----------------|-----------------|------|-------------|---|
| Set ID - OBX | 1 | SI | 4 | R | False | 1 | 1 | | | |
| Value Type | 2 | ID | 2 | R | False | | 1 | 0125 | Y | ED |
| Observation Identifier | 3 | CWE | 478 | R | False | 1 | 1 | | | |
| <i>identifier</i> | <i>1</i> | ST | 20 | R | | 1 | 1 | | Y | 18750-0 |
| Text | 2 | ST | 199 | R | | 1 | 1 | | Y | Cardiac Electrophysiology Report |
| <i>name of coding system</i> | 3 | ID | 20 | R | | 0 | 1 | 0396 | Y | LN |
| <u>alternate identifier</u> | <u>4</u> | <u>ST</u> | <u>255</u> | <u>RE</u> | | <u>0</u> | <u>1</u> | | | <u>file name example.pdf</u> |
| <u>alternate text</u> | <u>5</u> | <u>ST</u> | <u>100</u> | <u>RE</u> | | <u>0</u> | <u>1</u> | | | <u>Example Cardiac Device Report</u> |

Apply the following updates to Section 3.9.4.1.2.7:

Clarify OBX and ED segments

OBX-3 - This field contains the coding system identifier (LOINC) and further information about the file name and content.

OBX-3.1 - 3.3 - Value is a report ID from the LOINC coding system, and will be set to 187500^Cardiac Electrophysiology Report^LN.

OBX-3.4 This field can be used to include a file name. Include the full file name with extension as applicable. Special characters shall not be used.

OBX-3.5 This field can be used to include a document title which can be used for display purposes. The document title shall be in the language specified in MSH-19 within the message.

OBX-4 If a value is provided here the embedded PDF will contain data related to a specific episode or EGM being referenced via grouping to other episode related data elements having the same Sub-ID in OBX-4 inside this message. **An encapsulated PDF or reference pointer to external report that is not associated with an episode may be included in a message. If so, OBX-4 shall be blank.**