IHE Change Proposal

Tracking information:

IHE Domain	Patient Care Device (PCD) Subdomain in Device Domain
Change Proposal ID:	CP-PCD-150
Change Proposal Status:	Submitted
Date of last update:	2020-11-03
Person assigned:	Monroe Pattillo

Change Proposal Summary information:

Change PCD-05 field requirements and MSH-16 in PCD-04	
Submitter's Name(s) and e-mail address(es):	Monroe Pattillo, monroe.pattillo@gmail.com
Submission Date:	2020-11-03
Integration Profile(s) affected:	Alert Communication Management (ACM)
Actor(s) affected:	Alert Reporter (AR) and Alert Manager (AM)
IHE Technical Framework or Supplement modified:	ACM profile in PCD TF revision 9.0, dated Dec 12, 2019
Volume(s) and Section(s) affected:	IHE PCD TF Vol 2, Table 3.5.4.1.4-1 in section 3.5.4.1 and adding text after that table and changing text in appendix B.1

Rationale for Change:

The ACM PCD-05 Report Alert Status transaction maps to an HL7 v2.8.2 ORA R41 Observation Report Alert Acknowledgement. The HL7 ORA message type requires an MSA segment. The current ACM PCD-05 does not require an MSA segment. This CP adds the MSA segment.

The ACM profile supports multiple use cases not all of which involve patients (PID) and a patient assigned location (PV1). Change the usage and cardinality to reflect the optionality of PID and PV1 segments in the [PCD-05] transaction.

The HL7 ORA R41 message does not allow for the inclusion of OBX segments. The ACM profile allows for the optional inclusion of OBX segment instances to convey additional information. This CP extends the HL7 ORA R41 definition by allowing for the optional inclusion of OBX segment instances. The below indicated table from the ACM profile already includes optional OBX instances.

And in the PCD-04 transaction the MSH-16 Application Acknowledgement Type field the ACM profile currently indicates the field to contain NE for PCD-05 messages, while is should use MSH-16 in PCD-04 to indicate whether or not the AR actor is prepared to receive PCD-05 messages. Set MSH-16 of the PCD-04 to other than NE to receive PCD-05 (and other error indications) and set it to NE to indicate to the AM actor that PCD-05 transactions are not to be sent.

*Section 3.5.4.1.4 **Table 3.5.4.1.4.-1: ORA^R41^ORA_R41 static definition**, add MSA segment below the MSH segment row of table, after line 1310, on page 51to include the following:*

MSA	Message Acknowledgement	R	[1..1]	2.14.8

Change the following rows of the table.

PID	Patient Identification Segment	O	[0..1]	3.4.2
PV1	Patient Visit Segment	O	[0..1]	3.4.3

Add the following after the paragraph ending at line 1313 on page 51:

For traceability the value in the MSA-2 Message Control ID field shall be the value of the MSH-10 Message Control ID field of the original PCD-04 message where the alert phase is indicted as start, start only, or present and not the ID of any updates to that [PCD-04] message or of any [PCD-05] transaction message instances. The content of MSA-2 is the identification of the [PCD-04] transaction for which the [PCD-05] transaction is providing application level acknowledgement and there can be more than one given the one-to-many relationship between [PCD-04] and [PCD-05] transactions.

For HL7 message receipt acknowledgement of the [PCD-05] transaction the AR actor should use the contents of the MSH-10 Message Control ID field of the [PCD-05] transaction.

The Alert Manager (AM) actor does not have the awareness to realistically determine the total number of expected or outstanding [PCD-05] instances. This is due to the ability of the AC actor to instantiate additional alert disseminations and the endpoint communication devices being an unknown mix of those both supporting and not supporting specific responses (Delivery confirmation, Read receipt). Additionally, polling is discouraged as it introduces unwanted delays in patient life safety notifications. Therefore the MSA-7 Message Waiting Number and MSA-8 Message Waiting Priority fields shall both be empty.

Change the existing paragraph at line 1974 on page 87:

From
The PCD TF requires that this field be valued as NE for [PCD-01], [PCD-04], and [PCD-05] transactions. The receiving system must send (or not send) acknowledgements as specified by this field.

To
For [PCD-01] and [PCD-05] transactions this field shall be valued as NE. The ACM AR actor should use MSH-16 in [PCD-04] to indicate whether or not the AR actor is prepared to receive [PCD-05] transactions. Set MSH-16 of the [PCD-04] transaction to other than NE to receive [PCD-05] transaction (and other error indications) or set it to NE to indicate to the AM actor that [PCD-05] transactions are not to be sent. The ACM profile identifies the PCD-05 transaction as optional and so the receiving system (AM actor) should send (or not send) acknowledgements as specified by this field.