IHE Change Proposal

Tracking information:

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| IHE Domain | Patient Care Device (PCD) |
| Change Proposal ID: | CP-PCD-157 |
| Change Proposal Status: | Submitted |
| Date of last update: | 2020-10-14 |
| Person assigned: | Monroe Pattillo |

Change Proposal Summary information:

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| ACM AM optional PCD-05 retransmission | |
| Submitter’s Name(s) and e-mail address(es): | Monroe Pattillo, monroe.pattillo@gmail.com |
| Submission Date: | xxxx-xx-xx |
| Integration Profile(s) affected: | Alert Communication Management (ACM) |
| Actor(s) affected: | 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, changes and additions to section B.8.5 |
| Rationale for Change:  Currently in the ACM profile the Alert Reporter (AR) actor, by site agreement, may optionally retransmit active alerts (Report Alert [PCD-04] transactions) from the AR actor to the Alert Manager (AM) actor periodically, or in the event of a system restart or reconnection after loss of communication between the actors. This recovery retransmission capability keeps the actors in sync with the active alerts. As ACM profile transactions are unsolicited (no subscribe/publish) connection state awareness is through absence of receipt of acknowledgements, either in response to profile required transactions or optional keep-alive requests.  There is currently no such recovery capability defined for communication between the AM and AR actors for unacknowledged alert status updates (Report Alert Status [PCD-05]) transactions from the AM actor to the AR actor. To avoid ad-hoc implementations a similar capability should be documented in the profile.  Additionally, the existing text for recovery of PCD-04 transactions provides no specific indication as to message content for the retransmission message, what should be the same from the original transmission, and what should be transmission instance specific.  This Change Proposal (CP) proposes changes to the existing PCD-04 specific text, the addition of PCD-05 specific text, and a new paragraph to indicate message content for the retransmissions. | |

Section B.8.5 **B.8.5 OBX-4 Sub-id in Alert Communication Management transactions ([PCD-04], [PCD-06], [PCD-07]), State Transitions**, change section title, replace existing paragraph and add additionl paragraph after near line 3025 on page 128:

Change existing section title from

**B.8.5 OBX-4 Sub-id in Alert Communication Management transactions ([PCD-04], [PCD-06], [PCD-07]), State Transitions**

To add [PCD-05]

**B.8.5 OBX-4 Sub-id in Alert Communication Management transactions ([PCD-04], [PCD-05], [PCD-06], [PCD-07]), State Transitions**

Replace existing paragraph

By site agreement, messages representing current state of alerts may optionally also be sent at other times, as for example on a periodic timed basis, or when systems are restarted and a list of currently active alerts is sent out by the Alert Reporter to refresh the Alert Manager.

With

By site agreement, messages representing current state of alerts may optionally also be sent as alerts (Report Alert [PCD-04] transactions) at other times, as for example on a periodic timed basis, or when systems are restarted, or after a loss of communication is restored and a list of currently active alerts is sent out by the Alert Reporter (AR) actor to refresh the Alert Manager (AM) actor.

Add new paragraphs after existing paragraph

Additionally by site agreement, messages representing the last unacknowledged alert status updates from the Alert Manager (AM) actor to the Alert Reporter (AR) actor may optionally be sent as report alert status (Report Alert Status [PCD-05]) transactions at other times, as for example when systems are restarted, or after a loss of communication is restored and a list of unacknowledged report alert status transaction is sent out by the Alert Manager (AM) actor to update the Alert Reporter (AR) actor.

For these synchronization, recovery, or retransmission transactions the message content should be the same as the original transmission, including no indications of phase or state change from the original transmission, with the exception that the message transmission timestamp (MSH-7 Date/time of Message), the message control identifier (MSH-10 Message Control ID), and the message sequence number (MSH-13 Sequence Number), shall be instance unique to the retransmission and not the original transmission. This permits traceability and independent acknowledgement of the retransmission.