IHE Change Proposal

Tracking information:

|  |  |
| --- | --- |
| IHE Domain | Patient Care Device (PCD) |
| Change Proposal ID: | CP-PCD-154 |
| Change Proposal Status: | Submitted |
| Date of last update: | 2020-12-08 |
| Person assigned: | Monroe Pattillo |

Change Proposal Summary information:

|  |  |
| --- | --- |
| ACM AR optional PCD-05 filtering | |
| Submitter’s Name(s) and e-mail address(es): | Monroe Pattillo, monroe.pattillo@gmail.com |
| Submission Date: | 2021-01-28 |
| 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, additions to Section 3.4.4.1.5 and Appendix B.7.1.2 |
| Rationale for Change:  Currently in the ACM profile the Alert Reporter (AR) actor, if it chooses to receive any PCD-05 transactions from the Alert Manager (AM) actor (by way of it indicating this in MSH-16 of the PCD-04 transaction), it must receive all possible types of PCD-05 transactions as triggered by the various forms of signaling associated with the PCD-07 transaction. This approach subjects the AR to receive a lot of transactions, most of which some AR actors consider noise. In alert large group disseminations (codes) this can results in a considerable amount of PCD-05 transactions that must be filtered out by the AR actor. Expecting the AM actor to put this volume of transactions on the network infrastructure only to have the AR actor receive and discard the majority of them is an inefficient use of processing, storage, and networking resources. Some AR actors would rather receive only what they consider pertinent types of PCD-05 transactions, such as those indicating ACCEPT, and not others, such as DELIVERED, READ, or event REJECT. Any such filtering of PCD-05 transactions by the AM actor should be dictated by idications on a per PCD-04 basis. This allows for full details for some PCD-04 transactions and much less information for other PCD-04 transactions on an AR actor selecive basis.  This Change Proposal (CP) proposes that the AR optionally send an observation value to the AM actor in a separate instance OBX segment occurrence that indicates which of the possible PCD-05 indications it would like to receive using an occurrence delimited set of string values that are the same as the indication strings used by the PCD-05 tranasaction. This OBX instance would require a purpose specific identifier to be added to the IEEE 11073-10101 nomenclature. This CP draft proposes MDCX\_ALERT\_DISSEM\_STATUS\_FILTER.  The AR would first still need to indicate in MSH-16 of the PCD-04 that the AR wanted to receive any PCD-05 transactions at all in association with that PCD-04.  Even if MSH-16 of the PCD-04 indicates the AR wants to receive PCD-05 transactions, a filter OBX segment instance containing no indication strings in OBX-5 would result in no PCD-05 transactions being sent from the AM to the AR. As that capability is in a separate CP to ACM for this same cycle the modifications text of this CP will not directly reference it.  The absence of any such indicating OBX instance would mean that AM actor is unfiltered for that PCD-04 instance and may send any defined PCD-05 indications to the AR actor.  Given that the ACM profile has achieve final text status and has been integrated into the PCD Technical Framework the effectivity of this CP is optional for both AR and AM actor implenentations. | |

Section 3.4.4.1.5 **Expected Actions**, after line 1241 on page 47 add the following paragraph:

An optional instance of the OBX segment with a specific observation indication can be included in the Report Alert [PCD-04] transaction by the Alert Reporter (AR) actor to communicate a filter to the Alert Manager (AM) actor to constrain the types of alert dissemination status update Report Alert Status [PCD-05] transactions sent by the Alert Manager (AM) actor to the AR actor in response to the Alert Manager (AM) actor receiving Report Alert Dissemination Status [PCD-07] transactions from the Alert Communicator (AC) actor. See Appendix B for details.

In **Appendix B.7.1.2 PRT Participation Information Segment in ACM Transaction [PCD-05]**, , after line 3051, on page 129, add the following:

#### Use of OBX segment instance to filter PCD-05 transactions sent from AM to AR

In an ACM Report Alert [PCD-04] transaction an optional instance of the OBX segment with an OBX-3 Observation Identifier indication of MDCX\_ALERT\_DISSEM\_STATUS\_FILTER provides for communication of a filter to constrain the types alert dissemination status update Report Alert Status [PCD-05] transactions sent by the Alert Manager (AM) actor to the AR actor in response to the Alert Manager (AM) actor receiving Report Alert Dissemination Status [PCD-07] transactions from the Alert Communicator (AC) actor. The value in OBX-5 Observation Value of the OBX instance is a recurrence of string data type values indicating the only alert dissemination status update Report Alert Status [PCD-05] transactions to be sent to the Alert Reporter (AR) actor by the Alert Manager (AM) actor. The string values used in the filter are defined the Participation (PRT) segment values of the Report Alert Status [PCD-05] transaction. If the OBX-5 Observation Value field is empty then no Report Alert Status [PCD-05] transactions will be sent to the Alert Reporter (AR) by the Alert Manager (AM) actor in association with the carrying Report Alert [PCD-04] transaction. If there is no such indicating OBX segment instance in the Report Alert [PCD-04] transaction then the Alert Manager (AM) actor is not filtered and may send as many types of alert status indcating Report Alert Status [PCD-05] transactions as defined for the deployed Alert Manager (AM) actor.