# IHE Change Proposal
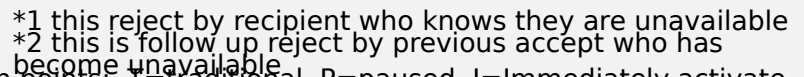
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## Tracking information:

| | |
|---|---|
| IHE Domain | Patient Care Device (PCD) |
| Change Proposal ID: | CP-PCD-145 |
| Change Proposal Status: | Submitted |
| Date of last update: | 2019-09-08 |
| Person assigned: | Monroe Pattillo |

## Change Proposal Summary information:

| Alert Timing Diagram | |
|---|---|
| Submitter's Name(s) and e-mail address(es): | Monroe Pattillo, monroe.pattillo@gmail.com |
| Submission Date: | 2019-09-05 |
| Integration Profile(s) affected: | Alert Communication Management (ACM) |
| Actor(s) affected: | Alert Reporter (AR) |
| IHE Technical Framework or Supplement modified: | ACM profile in PCD TF revision 8.0, dated Oct 23, 2018 |
| Volume(s) and Section(s) affected: | IHE PCD TF Vol 2, section 3.5.4.1.5 Expected Actions |

| Rationale for Change: |
|---|
| As a part of the Quiet Hospital Working Group (WG) effort a diagram was created and reviewed within that WG and within the Alert Communication Management (ACM) WG. The diagram depicts the alert dissemination progress triggers back to the ACM Alert Reporter (AR) actor for passing to the alert source. This diagram contains consolidated information that is useful to alert sources in deciding whether or not and when to change the state of their local alarm audio without the need for any direct commands from other actors to change the state of the local alarm audio. |
| This change proposal is to include this diagram in the ACM profile within the PCD Technical Framework (TF) to the end of the section describing AR actor expected actions in response to PCD-05 transactions from the Alert Manager (AM) actor to the AR actor. If the text at the bottom of the diagram is easier to integrate into the section text than to retain it in the diagram that would be acceptable. |

*Add the below diagram to the end of section 3.5.4.1.5 Expected Actions, page 48, before line 1215*

*Alert Timing Diagram*

**Alert Source** | **Alert Reporter (AR)** | **Alert Manager (AM)** | **Alert Communicator (AC)** | **Endpoint Communication Device**

T

P — Alert Trigger → Report Alert (PCD-04) →

Report Alert (PCD-04 ACK) ← Disseminate Alert (PCD-06) →

P ← Delivered to AM

I ← Delivery timeout — Report Alert Status (PCD-05 Received by Gateway [AC]) ← Report Dissemination Alert Status (PCD-07 Received by Gateway [AC])

P ← Received by AC — Communicate Alert →

I ← Undeliverable to endpoint communication device — Report Alert Status (PCD-05 Undeliverable) ← Report Dissemination Alert Status (PCD-07 Undeliverable)

← Report Dissemination Alert Status (PCD-07 Delivered) ← Alert Delivered

P ← Delivered to endpoint communication device — Report Alert Status (PCD-05 Delivered)

Operator Read
← Report Dissemination Alert Status (PCD-07 Read) ← Alert Read

P ← Read by endpoint communication device — Report Alert Status (PCD-05 Read)

Operator Reject
← Report Dissemination Alert Status (PCD-07 Reject) ← Alert Reject *1

I ← Rejected by an endpoint operator — Report Alert Status (PCD-05 Reject)

Operator Accept
← Report Dissemination Alert Status (PCD-07 Accept) ← Alert Accept

P ← Accepted by an endpoint operator — Report Alert Status (PCD-05 Accept)

Operator Reject
← Report Dissemination Alert Status (PCD-07 Reject) ← Alert Reject *2

I ← Rejected by an endpoint operator — Report Alert Status (PCD-05 Reject)

*1 this reject by recipient who knows they are unavailable
*2 this is follow up reject by previous accept who has become unavailable

The Alert Source local alarm audio activation decision points: T=traditional, P=paused, I=Immediately activate
Alert source always retains responsibility for its local alarm audio activation and the decision to pause or inactivate local alarm audio
ACM AM and AC actors and endpoint communication device never overtly request AR actor or alert source to pause or end local alarm audio
AR and likely AM will not always know of all the notification destinations (assignment groups & alternates)
A single PCD-04 from an AR actor is likely to result in numerous PCD-06, PCD-07, and PCD-05 transactions
While some endpoint destinations/operators may be undeliverable, timeout, or reject others may accept, and may reject after an accept