

IHE Change Proposal

Tracking information:

IHE Domain	Devices (DEV)
Change Proposal ID:	CP-DEV-015
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Person assigned:	Monroe Pattillo

Change Proposal Summary information:

MEMDMC Minimum Message Set	
Submitter's Name(s) and e-mail address(es):	Monroe Pattillo, monroe.pattillo@gmail.com
Submission Date:	2025-09-4
Integration Profile(s) affected:	Medical Equipment Management Device Management Communication (MEM DMC)
Actor(s) affected:	DMIR and DMIC
IHE Technical Framework or Supplement modified:	MEM DMC profile TI revision 1.5, dated 2024-09-19
Volume(s) and Section(s) affected:	Changes to History of Document Changes, sections X.4.2.1.1, X.6, 3.15.4.1.4, appendix A.1
Rationale for Change: To establish in the MEMDMC profile the minimum set of observation transactions (DMIO) a reporter (DMIR) shall send and the consumer (DMIC) shall be expected to receive.	

Front matter *History of Document Changes* update table to include this CP, on page 6, line 155:

In section *X.4.2.1.1 Equipment Observations to CMMS Use Case Description*, replace paragraph on page 15, line 311:

Previous

When a piece of equipment undergoes a status or configuration change, ends a battery charging cycle, or executes a self-test, and has a status to report, it reports it as an observation. The following is a sample list of situations under which observations would be reported. This is not a complete list as new observations are expected to be able to be accommodated without updating this profile. If equipment location tracking information is available (where embedded or through coordination with a gateway) that information can be included as additional observations in this transaction without adopting the MEMLS Profile.

MEMDMC Minimum Message Set

Replacement

When a piece of equipment undergoes a status or configuration change, is powered up, transitions to lower power state, or transitions its power source, ends a battery charging cycle, executes a self-test, processes a network configuration change, becomes connected to a network, or has a status to report, it reports it as an observation.

The following is the minimum set of observation transactions (DMIO) which shall be reported by all DMIR actors. This is not a complete list of optionally reported observations as they are expected to be able to be accommodated without updating this profile. If equipment location tracking information is available (where embedded or through coordination with a gateway) that information can be included as additional observations in this transaction without adopting the MEMLS Profile.

In section *X.4.2.1.1 Equipment Observations to CMMS Use Case Description*, replace bullet list on page 15, line 318:

Previous

- Equipment power up (a last seen indication)
- Equipment network configuration is about to change (in case the change takes it offline)
- Equipment power transitions from mains to battery or back to mains (in case of battery failure)
- Self-test status is being reported and whether it failed or not (last known health)
- Battery status/level for all batteries is being reported (last known battery health)
- Battery charging success is being reported (last known battery health)
- Preventative maintenance cycle status being reported (metering)

Replacement

- Power up transition (once connected to network), regardless of prior power state (a last time detected indication)
- Start of transition to lower power state, including pause, standby, hibernate, off (going away indication)
- Network (wired or wireless) configuration about to change (in case change takes it offline)
- Successful (wired or wireless) network (level 3) connection (appearing on network)
- Patient assignment to/from transitions, do not report ePHI (responsibility time point)

And, if requisite functionality implemented in device, the following shall be reported

- Self-test occurrence and status, including success or failure and reason (last known health)
- Transition of power source, including mains to battery, battery to mains, battery transition primary to/from any alternate (in case of power source failure)
- Periodic battery status/level for all batteries (last known battery health)
- Battery charging process completed and status (last known battery health)
- Preventative maintenance cycle status being reported (metering)
- Transition of enable for patient assignment (associated with PCIM profile)

In **X.6 MEMDMC Cross Profile Considerations**, replace paragraph on page 16, starting with line 343

Previous

A DMIR is likely to also be a DEC DOR, an ACM AR, an IPEC DOR, or a MEMLS LIOR. There is no grouping required.

Replacement

A MEMDMC DMIR actor is potentially to also be one or more of the following actors in other profiles

<u>Profile</u>	<u>Actor</u>
DEC	DOR
ACM	AR
IPEC	DOR
MEMLS	LIOR
PCIM	DPAC

There is no grouping required.

In **3.15.4.1.4 Trigger Events**, delete redundant bullet list on page 21, starting with line 424, for document maintainability keep to single occurrence of minimally required observation transitions found in section X.4.2.1.1.

Update section **A.1 Device Management Information Observation**, with updated example messages, starting on page 23, starting with line 503

Examples for each of the minimally required messages will need to be hand synthesized and verified if not available from Connectathon Gazelle databases. Minimum message content and structural containment will be in a separate CP to MEMDMC.