

Context Update

Back Association

1. Pump is running in basic:

```
MSH|^~\&|EPIC_EHR|
EPIC_EHR|EPIC|EPIC|20260112125841-0600||ORU^R42^ORU_R01|18441|P|2.6||AL|NE||AS
CII|EN^English^ISO639||IHE_PCD_ORU_R01^IHE_PCD^1.3.6.1.4.1.19376.1.6.4.10^ISO
PID|1|||Unknown
OBR|1|NO_ORDER^PAT_DEVICE|18441^PAT_DEVICE|999999^Unknown
Medication|||20260112125841-0600
...
```

2. EHR sends Context Update message

```
MSH|^~\&|EPIC_EHR|EPIC_EHR|EPIC_PUMP|20260112125945|24576|RGV^O15^RGV_O15|2|P|
2.6||AL|AL|||IHE_PCD_RGV_O15^IHE_PCD^1.3.6.1.4.1.19376.1.6.1.3.1^ISO||
PID|1|||MORRIS^PRESTON||20181129|M
PV1|1|1|^3222^32309^17^^^^^^|43^ANAYA^ILYANA^^|43^ANAYA^ILYANA^^|
1000067388|SELF|20260112105945||704.17||
ORC|CU|6000023258^EPIC||20260112125945||24576^MORRIS^SILAS^^
RXG|1||A10005^dextrose^erx
RXR|^IV^HL70162|^IVP^HL70164|^IV^HL70165
OBX|1|CWE|69986^MDC_DEV_PUMP_INFUS_VMD^MDC|F|3000410^^3000410^EPIC
```

3. Pump responds with acknowledgement

4. Pump sends PCD-10 with new context

```
MSH|^~\&|EPIC_EHR|EPIC_EHR|EPIC|EPIC|20260112125851-0600||ORU^R42^ORU_R01|18443
|P|2.6||AL|NE||ASCII|EN^English^ISO639||IHE_PCD_ORU_R01^IHE
PCD^1.3.6.1.4.1.19376.1.6.4.10^ISO
PID|1|||MORRIS^PRESTON||20181129|M
OBR|1|6000023258^EPIC|6000023258^EPIC|A10005^dextrose^erx||20260112125851-0600
```

User Workflow



Transfer

- Out-of-scope department to In-scope department
- Operating Room to ICU

1. Pump is running:

```
MSH|^~\&|EPIC_EHR|EPIC_EHR|EPIC|EPIC|20260112125841-0600||ORU^R42^ORU_R01|18441|P|2.6||AL|NE||AS  
CII|EN^English^ISO639||IHE_PCD_ORU_R01^IHE_PCD^1.3.6.1.4.1.19376.1.6.4.10^ISO  
PID|1|||Unknown  
OBR|1|23214324324^PAT_DEVICE|18441^PAT_DEVICE|12306^Norepinephrine|||2026011212  
5841-0600
```

...

2. EHR sends Context Update message

```
MSH|^~\&|EPIC_EHR|EPIC_EHR||EPIC_PUMP|20260112125945|24576|RGV^O15^RGV_O15|2|P|  
2.6||AL|AL|||IHE_PCD_RGV_O15^IHE_PCD^1.3.6.1.4.1.19376.1.6.1.3.1^ISO||  
PID|1|||MORRIS^PRESTON||20181129|M  
PV1|1|1|^3222^32309^17^^^^^^|43^ANAYA^ILYANA^^|43^ANAYA^ILYANA^^|  
10000067388|SELF|||20260112105945||704.17|||  
ORC|CU|6000023258^EPIC|||20260112125945|||24576^MORRIS^SILAS^^  
RXG|1||2457601^Norepinephrine^erx  
RXR|^IV^HL70162|^IVP^HL70164|^IV^HL70165  
OBX|1|CWE|69986^MDC_DEV_PUMP_INFUS_VMD^MDC|||F|||3000410^^3000410^EPIC
```

3. Pump responds with acknowledgement

4. Pump sends PCD-10 with new context

```
MSH|^~\&|EPIC_EHR|EPIC_EHR|EPIC|EPIC|20260112125851-0600||ORU^R42^ORU_R01|18443  
|P|2.6||AL|NE||ASCII|EN^English^ISO639||IHE_PCD_ORU_R01^IHE  
PCD^1.3.6.1.4.1.19376.1.6.4.10^ISO  
PID|1|||MORRIS^PRESTON||20181129|M  
OBR|1|6000023258^EPIC|6000023258^EPIC|2457601^Norepinephrine^erx|||2026011212585  
1-0600
```

...

User Workflow



Documentation to update

Vol 2 DEV TF-2

- 595 Must be empty when ORC-1 = "XO" or "CU"
- 610 Must be empty when ORC-1 = "XO" or "CU"
- Create 3.3.4.4.10.4 Context Update

3.3.4.4.10.4 Context Update

Considerations:

- An infusion is currently programmed on the pump.
- A context update should not change the current rate.
- The EHR workflow provides the nurse with the capability to change the infusion context that is running on the pump using the PIV [PCD-03] transaction to send the updated order information to the pump.
- The pump should be capable of accepting the new context without stopping the infusion if it is currently running.

ORC segment

- ORC-1 Order Control = "CU" (Context Update)
- ORC-2 Placer Order Number

The following table outlines the required and optional data for a context update.

Data field or OBX Segment	Description	Required or Optional	Required Value
PID	Patient info	R	
ORC-1	Order ID	R	"CU"
RXR-4	Administration Method	R	
RXG-4	Medication ID	R	
RXG-17/18	Concentration Strength	O	
RXG-23/24	Concentration Volume	O	
69986^MDC_DEV_PUMP_INFUS_VMD^MDC	Device ID	R	
68063^MDC_ATTR_PT_WEIGHT^MDC	Patient Weight	O	
68060^MDC_ATTR_PT_HEIGHT^MDC	Patient Height	O	
157784^MDC_FLOW_FLUID_PUMP^MDC	Infusion Rate	O	Must match the rate that is currently running
188744^MDC_AREA_BODY_SURF_ACTUAL^MDC	Patient BSA	O	

- RXG-5 Give Amount-Minimum and RXG-7 Give Units must be empty.

2025 Error codes

9045	Context update is not supported	ORC-1 = "CU" is not supported by pump
9046	Context update contained information that is not supported	Pump does not support receiving information such as concentration or patient info
9047	Context update exceeds library guardrails of current infusion	The pump is running a medication with a weight-based dose and the new patient weight causes the current rate to be calculated as exceeding the drug library guardrails

- 3235 ORD-1 Order Control Table
 - CU Update the context of a currently running infusion