

Outgoing Medication Stock Transfer Request and Response Interface Technical Specification Technical Specification

Version: May 2020

Last Updated: May 13, 2020

Summary

Note:

This document can be shared with third parties to assist with interface implementation.

The interface is a subset of the full standard as defined in the published normative HL7 documentation coinciding with the released software version. It may not support the entire HL7 specification, depending on functional needs.

Outgoing Medication Stock Transfer Request and Response Interface Technical Specification

This interface initiates a fill in a dispensing system—such as robotic arm or carousel—to assist in sending medications from the pharmacy to a hospital floor. This interface also receives acknowledgments from the dispensing system, which updates stock counts in Willow Inventory accordingly. For example, if a user requests five bottles of a certain medicine, but only four exist in stock, the interface updates the stock count being sent to the floor to four.

Note that the purpose of messages sent by the interface is to request stock for a hospital floor. For that reason, the messages aren't patient-specific.

Message Specifications

OMS^O05^OMS_O05 Stock Requisition Order Message

This message is sent when starting a shipment from a supplier location set up to generate an interdepartmental transfer message.

Message Format

Segment	Description	Chapter
MSH	Message Header	2
	--- ORDER begin	
ORC	Common Order	4
RQD	Requisition Detail	4
[ZTR]	Requisition Detail	
	--- ORDER end	

Acknowledgment Format

Segment	Description	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error Information	2

ORS^O06^ORS_O06 Stock Order Acknowledgment

This message is used to notify Epic that the dispensing system completed the request. It can contain a different quantity than initially sent in the request, but all other information should remain the same.

Message Format

Segment	Description	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
	--- ORDER begin	
ORC	Common Order	4
RQD	Requisition Detail	4
[ZTR]	Requisition Detail	
	--- ORDER end	
	--- RESPONSE end	

Acknowledgment Format

Segment	Description	Chapter
MSH	Message Header	2

Segment	Description	Chapter
MSA	Message Acknowledgment	2
[ERR]	Error Information	2

ZTR^ZTR Interdepartmental Transfer Request Acknowledgment

This message is used to notify Epic that the dispensing system completed the request. It can contain a different quantity than initially sent in the request, but all other information should remain the same. The content is similar to the ORS^O06 message, except the information is in a ZTR segment.

Message Format

Segment	Description	Chapter
MSH	Message Header	2
ZTR	Requisition Detail	

Acknowledgment Format

Segment	Description	Chapter
MSH	Message Header	2
MSA	Message Acknowledgment	2
[ERR]	Error Information	2

Example Messages

OMS^O05^OMS_O05 Stock Requisition Order

Format Example

```
MSH|^~\&|||||20150904105845|19495|OMS^O05|41|||||||
ORC|X0|1191
RQD|1|10300|10299|19495111^100 BOTTLE ACETAMINOPHEN 500 MG PO
TABS^IIDNDG|100|EA^each|||DEMODISP^DEMO DISPENSING LOCATION
ZTR|100|1191|DEMODISP^DEMO DISPENSING LOCATION|10300|19495111^100 BOTTLE ACETAMINOPHEN 500 MG PO
TABS^IIDNDG|5|EA^each
```

Supported Segments and Fields

Supported Segments and Fields (continued)

MSH - Message Header

Element Name	Type	Usage	Notes
2 - Encoding Characters	ST	R	Value is typically: ^~\&
3 - Sending Application	HD	O	Format: Free text, configurable
4 - Sending Facility	HD	O	Format: Free text, configurable
5 - Receiving Application	HD	O	Format: Free text, configurable
6 - Receiving Facility			
7 - Date/Time of Message	DTM	O	Sending UTC offset is configurable. Example: 20140203133854-0500
8 - Security	ST	O	The user that triggered the interface message is sent in this field.
9 - Message Type	MSG	R	Format: <Message type>^<Trigger event> Example: MDM^T02
10 - Message Control ID	ST	R	A number or other unique identifier for the message. Format: Free text
11 - Processing ID	PT	R	This field can contain the following values: • D-Debugging • P-Production • T-Training
12 - Version ID	VID	R	HL7 version number. Example: 2.5.1
13 - Sequence Number	NM	O	Optional field used in the sequence number protocol Format: Numeric
14 - Not Supported			
15 - Accept Acknowledgment Type	ID	O	This field indicates whether request enhanced acknowledgments are requested. If null, original acknowledgments are requested. Potential values include: • AL-Always • NE-Never • <Null>

Supported Segments and Fields (continued)

16 - Application Acknowledgment Type	ID	O	This field indicates whether request enhanced application acknowledgments are requested. If null, original application acknowledgments are requested. Values: • NE • <Null>
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17 - Country Code	ID	O	This field contains the country code.
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18 - Character Set	ID	O	Configurable. Supports options for Unicode UTF-8, ASCII, or ISO 8859-1. Default is no translation.
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19 - Not Supported			
20 - Not Supported			
21 - Conformance Statement ID	ID	O	
22 - Sending Responsible Organization	XON	O	Free text
23 - Receiving Responsible Organization	XON	O	Free text

ORC - Common Order

Element Name	Type	Usage	Notes
1 - Order Control	ID	R	This field always contains NW.
2 - Placer Order Number	EI	R	This field contains the purchase order ID.

RQD - Requisition Detail

Element Name	Type	Usage	Notes
1 - Requisition Line Number	SI	O	This field always contains the value 1.
2 - Item Code - Internal	CWE	C	This field contains the internal balance identifier for the From location.
3 - Item Code - External	CWE	C	This field contains the internal balance identifier for the To location.
4 - Hospital Item Code	CWE	C	This field contains the medication identifier.
5 - Requisition Quantity	NM	O	For outbound messages, this field contains the quantity requested. For inbound messages, this field contains the actual quantity dispensed.
6 - Requisition Unit of Measure	CWE	O	This field contains the unit of measure associated with the medication quantity.
7 - Not Supported			
8 - Not Supported			
9 - Deliver to ID	CWE	O	

Supported Segments and Fields (continued)

This field contains the inventory location.

ZTR - Additional Requisition Detail

Element Name	Type	Usage	Notes
1 - Quantity	NM		For outbound messages, this field contains the quantity requested. For incoming messages, this field contains the actual quantity dispensed.
2 - From Storage Item	CWE		This field contains the purchase order ID.
3 - To Department Number	CWE		This field contains the inventory location, which is either a department or pharmacy record.
4 - From Storage Item	CWE		This field contains the internal balance identifier for the destination inventory location.
5 - Alternate Drug Item ID	CWE		This field contains the drug identifier and matches the value in RQD-5.
6 - Cost	NM		This field contains the cost of the transaction stored to the purchase order record.
7 - Transaction Unit of Measure	CWE		This field contains the unit of measure associated with the medication quantity.

MSH - Message Header

Element Name	Type	Usage	Notes
2 - Encoding Characters	ST	R	Value is typically: ^~\&
3 - Sending Application			Format: Free text
4 - Sending Facility	HD	O	An organization's Epic configuration settings determine how this field is used.
5 - Receiving Application	HD	O	Format: Free text
6 - Receiving Facility	HD	O	Free text
7 - Date/Time of Message	DTM	O	
8 - Security	ST	O	
9 - Message Type	MSG	R	Format: <Message type>^<Trigger event> Example: ORM^O01
10 - Message Control ID	ST	O	Value to be returned in MSA-2 in the Acknowledgement message
11 - Processing ID	PT	R	

Supported Segments and Fields (continued)

			Values:
			• D: Debugging • P: Production • T: Training
12 - Version ID	VID	R	HL7 version number. For example, 2.5.
13 - Sequence Number	NM	O	Optional field used in sequence number protocol. By default, Epic does not use sequence number protocol.
14 - Continuation Provider	ST	O	In conjunction with the HL7 DSC segment, this field is used to define continuations of messages. It allows large messages to be broken into multiple smaller messages, which is necessary under certain implementation limitations. Consult HL7 chapter 2 and your Epic EDI representative for more information.
15 - Accept Acknowledgement Type	ID	O	This field identifies the conditions under which Accept Acknowledgements must be returned in response to a message. This field is required for enhanced acknowledgement mode. If null, acknowledgements are sent in original acknowledgement mode. Values: • AL: Always • ER: Error/reject conditions only • NE: Never • SU: Successful completion only
16 - Application Acknowledgment Type	ID	O	
17 - Country Code	ID	O	
18 - Character Set	ID	O	
19 - Not Supported			
20 - Not Supported			
21 - Conformance Statement ID	EI	O	
22 - Sending Responsible Organization	XON	O	
23 - Receiving Responsible Organization	XON	O	

ORC - Common Order

Element Name	Type	Usage	Notes
1 - Not Supported			
2 - Placer Order Number	EI	R	This field contains the purchase order ID.

RQD - Requisition Detail

Element Name	Type	Usage	Notes
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Supported Segments and Fields (continued)

1 - Not Supported			
2 - Item Code - Internal	CWE	C	This field contains the internal balance identifier for the From location.
3 - Item Code - External	CWE	C	This field contains the internal balance identifier for the To location.
4 - Hospital Item Code	CWE	C	This field contains the medication identifier.
5 - Requisition Quantity	NM	O	For outbound messages, this field contains the quantity requested. For inbound messages, this field contains the actual quantity dispensed.
6 - Requisition Unit of Measure	CWE	O	This field contains the unit of measure associated with the medication quantity.
7 - Not Supported			
8 - Not Supported			
9 - Deliver to ID	CWE	O	This field contains the inventory location.

ZTR - Additional Requisition Detail

Element Name	Type	Usage	Notes
1 - Quantity	NM		For outbound messages, this field contains the quantity requested. For incoming messages, this field contains the actual quantity dispensed.
2 - From Storage Item	CWE		This field contains the purchase order ID.
3 - To Department Number	CWE		This field contains the inventory location, which is either a department or pharmacy record.
4 - From Storage Item	CWE		This field contains the internal balance identifier for the destination inventory location.
5 - Alternate Drug Item ID	CWE		This field contains the drug identifier and matches the value in RQD-5.
6 - Cost	NM		This field contains the cost of the transaction stored to the purchase order record.
7 - Transaction Unit of Measure	CWE		This field contains the unit of measure associated with the medication quantity.

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