MEDITECH Order Management Orders to Other Vendor Ancillary System

Version: 2.4

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General Comments

This interface is designed to provide detailed information on the segments and fields for sending Order information from the MEDITECH C/S Order Manager module.

In addition, this document describes the communications protocol and acknowledgement records used for network communications.

A copy of this specification should be provided to the Other Vendor well in advance of MEDITECH software delivery so that any questions or concerns of the Other Vendor can be resolved as soon as possible.

The machine to machine communications will need to be thoroughly tested by MEDITECH and the Other Vendor prior to any application level testing.

General Message Format and Functionality

This document is designed to provide detailed information on the segments and fields that construct the HL7 Order interface from the MEDITECH Order Manager system.

GENERAL MESSAGE FORMAT

Order data will be sent from the MEDITECH system in discrete MESSAGES. A single message may contain multiple variable length data transactions referred to as SEGMENTS. The number, type and content of segments in a given message will be determined based upon the type of message being sent. Each segment will begin with a 3 character code known as the Segment ID, followed by a number of fields which are delimited by the Field Separator character.

Each segment will be terminated with a carriage return. Each message will be terminated by a carriage return, which will follow the carriage return of the last segment within the message.

ORDER MESSAGES FROM MEDITECH:

Messages will be passed from the MEDITECH system to an Other Vendor Laboratory, Microbiology, Blood Bank, or Radiology system when:

1. An order that is not defined as a Hold Future Order is placed in the MEDITECH Order Manager system.

2. For Hold Future Orders, just after midnight (12:01) on the date which was entered when the order was previously placed in the MEDITECH Order Manager system.

3. When a previously transmitted order has been cancelled on the MEDITECH Order Manager system.

4. When a new order is received inbound from an OV system and the MEDITECH Order Manager system needs to assign a MEDITECH order number.

In each case, an Order Message (ORM) will be transmitted. Only one patient per Order Message will be sent.

An Order Message will consist of these message segments:

MSH	Message Header	(One per message)
PID	Patient Identification	(One per message)
PV1	Patient Visit Information	(One per message)
AL1	Allergy Information	(One per message)
ORC	Order Common Data	(Multiple per message)
OBR	Observation Request	(Multiple per message)
ODS	Diet Order Information	(One Per Message)
OBX	Observation Result	(Multiple per message)
NTE	Notes and Comments	(Multiple per message)

MEDITECH will not expect or accept any Order Response Message, any Query messages, or any Deferred Acknowledgement Messages from the Other Vendor System, as may be defined in the HL7 v2.4 specifications.

Network Communications Protocol and Data Framing

For network transfer of messages, MEDITECH supports TCP/IP socket connections over an Ethernet backbone.

MEDITECH supports the HL7 Minimal Lower Layer Protocol for framing HL7 messages.

With MEDITECH as client: the MEDITECH system must be supplied with the IP address of the remote system, along with a Well Known Port number on the remote system to which the MEDITECH system can open a TCP/IP connection.

Message transfer will be assumed to be initiated by the sender of messages, which will send an HL7 message and await to receive an HL7 Acknowledgement message.

HL7 MINIMAL PROTOCOL

The Minimal Lower Layer Protocal is described in section 1.7.5.1 LOWER LAYER PROTOCOLS of the Heatlh Level Seven Version 2.4 specification.

With this protocol, an HL7 data message is framed with a single character to start the data message and two characters to terminate the message. No other characters are added to the HL7 message.

The format of the transmission block is this:

<SB>ddddd<EB><CR>

Where:

 <SB> is the Start Block character, ASCII <VT>, decimal <11>, hex <0B>.

 ddd is the variable number of bytes representing the HL7 data message.

 <EB> is the End Block character, ASCII <FS>, decimal <28>, hex <1C>.

 <CR> is a Carriage Return Character, ASCII <CR>, decimal <13>, hex <0D>.

ACKNOWLEDGEMENT MESSAGES FOR NETWORK COMMUNICATIONS

With the HL7 Minimal Protocol, the sender of an HL7 message (such as an ADT, ORM, or ORU message) will send a message and expect to receive an acknowledgement message before sending another message. To indicate this in HL7 v2.4, the sender will put 'AL' in the Accept Acknowledgement Type field of the MSH segment. The Application Acknowledgement Type field will contain 'NE'.

If MEDITECH is the sender of messages, MEDITECH will expect an acknowledgement message that contains the MESSAGE CONTROL ID of the message originally sent by MEDITECH. MEDITECH will not process any application level error messages, nor will it process any delayed acknowledgement messages.

If MEDITECH is the receiver of messages, MEDITECH will send an ACK General Acknowledgement message which contains the MESSAGE CONTROL ID of the message received by MEDITECH. MEDITECH will not send any application level error messages or any delayed acknowledgement messages. (ie, MEDITECH will treat all received messages as if the Accept Acknowledgement Type field contained 'AL' for always send accept acknowledgement, and the Application Acknowledgement Type field contained 'NE', for never send application acknowledgement).

Record Layouts MEDITECH MAGIC C/S Order Manager System to Other Vendor Ancillary System

Message ORM   Segment MSH   MESSAGE HEADER

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
MSH.1	Field Separator	R	ID	1	Field Separator	R	ID	1
MSH.2	Encoding Characters	R	N	4	Encoding Characters	R	N	4
MSH.3	Sending Application	O	AN	15	Sending Application	O	AN	15
MSH.4	Sending Facility	O	AN	10	Sending Facility	O	AN	10
MSH.7	Message Date & Time	R	N	12	Message Date & Time	R	N	12
MSH.9	Message Type	R	AN	26	Message Type	R	AN	13
MSH.10	Message Control ID	R	N	20	Message Control ID	R	N	20
MSH.11	Processing ID	R	N	1	Processing ID	R	N	1
MSH.12	Version ID	R	AN	10	Version ID	R	AN	10
MSH.15	Accept Acknowledgement Type	O	ID	2	Accept Acknowledgement Type	O	ID	2
MSH.16	Application Ack. Type	O	AN	2	Application Ack. Type	O	AN	2

```
Req  -  R = Required,  C = Conditionally Required,  O = Optional, NU = Not Supported
```

The MSH segment defines the intent, source, destination, and some specifics of
the syntax of a message.

Message ORM   Segment PID   PATIENT IDENTIFICATION

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
PID.1	Set ID	R	N	1	Set ID	R	N	1
PID.3	Patient Identifier List	R	SID	25	Patient Identifier List	R	SID	25
PID.5	Patient Name	R	AN	250	Patient Name	R	AN	250
PID.6	Mother's Maiden Name	O	AN	250	Mother's Maiden Name	O	AN	250
PID.7	Date of Birth	O	N	26	Date of Birth	O	N	26
PID.8	Administrative Sex	O	N	1	Administrative Sex	O	N	1
PID.14	Phone Number - Business	O	N	250	Phone Number - Business	O	N	250
PID.18	Patient Account Number	R	AN	250	Patient Account Number	R	AN	250
PID.21	Mother's Identifier	O	AN	250	Mother's Account Number	O	AN	250

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

The PID segment is used by all applications as the primary means of
communicating patient identification information.

Message ORM   Segment PV1   PATIENT VISIT

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
PV1.1	Set ID	O	N	4	Set ID	R	N	4
PV1.2	Patient Status	O	SN	1	Patient Status	O	SN	1
PV1.3	Assigned Patient Location	O	AN	80	Assigned Patient Location	O	AN	80
PV1.4	Admission Type	O	AN	2	Admission Type	O	AN	2
PV1.6	Prior Patient Location	O	AN	80	Prior Patient Location	O	AN	80
PV1.7	Attending Provider	O	AN	60	Attending Provider	R	AN	60
PV1.8	Referring Provider	O	AN	60	Referring Provider	O	AN	60
PV1.9	Consulting Provider	O	AN	60	Consulting Provider	O	AN	60
PV1.10	Hospital Service	O	AN	3	Hospital Service	R	AN	3
PV1.11	Patients Temporary Location	O	AN	20	Patients Temporary Location	O	AN	20
PV1.14	Admit Source	O	AN	6	Admit Source	O	AN	6
PV1.16	VIP Indicator	O	SN	2	VIP Indicator	O	SN	2
PV1.17	Admitting Provider	O	SN	60	Admitting Provider	CR	SN	60
PV1.18	Patient Type	O	AN	3	Patient Type	R	AN	3
PV1.20	Financial Class	O	AN	11	Financial Class	CR	AN	11
PV1.36	Discharge Disposition	O	AN	10	Discharge Disposition	CR	AN	10
PV1.39	Servicing Facility	O	AN	10	Servicing Facility	R	AN	10
PV1.41	Patient Status	O	AN	3	Patient Status	R	AN	3
PV1.44	Admit Date/Time	O	AN	19	Admit/Service Date/Time	R	AN	19
PV1.45	Discharge Date/Time	O	AN	19	Discharge Date/Time	CR	AN	19
PV1.52	Family Doctor	O	AN	100	Family Doctor	O	AN	100

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The PV1 segment is used by Registration/ADT applications to communicate information on a visit specific basis.

Message ORM   Segment AL1   ALLERGY INFORMATION

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
AL1.1	Set ID	R	N	250	Set ID	R	N	250
AL1.2	Allergen Type Code	O	ID	250	Allergen Type Code	O	ID	250
AL1.3	Allergen Code	R	AN	250	Allergen Code	R	AN	250
AL1.4	Allergy Severity Code	O	AN	250	Allergy Severity Code	O	AN	250
AL1.5	Allergy Reaction Code	O	AN	15	Allergy Reaction Code	O	AN	15
AL1.6	Identification Date	O	N	8	Identification Date	O	N	8

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

The AL1 segment contains patient allergy information. Each AL1 segment
describes a single patient allergy. On the MEDITECH system, up to two
allergies can be entered in the Order Entry module, and these file into the
Admission record.

Message ORM   Segment ORC   COMMON ORDER

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
ORC.1	Order Control	R	ID	2	Order Control	R	ID	2
ORC.2	Placer Order Number	C	EI	22	Placer Order Number	R	EI	22
ORC.3	Filler Order Number	C	EI	22	Filler Order Number	C	EI	22
ORC.4	Placer Group Number	O	EI	22	Placer Group Number	O	EI	22
ORC.5	Order Status	O	ID	2	Order Status	O	ID	2
ORC.6	Response Flag	O	ID	1	Response Flag	O	ID	1
ORC.7	Quantity/Timing	O	TQ	200	Quantity/Timing	O	TQ	200
ORC.9	Date/Time of Transaction	O	TS	26	Date/Time of Transaction	O	TS	26
ORC.10	Entered By	O	XCN	250	Entered By	O	XCN	250
ORC.12	Ordering Provider	O	XCN	250	Ordering Provider	O	XCN	250
ORC.13	Enterer's Location	O	PL	80	Enterer's Location	O	PL	80
ORC.15	Order Effective Date/Time	O	TS	26	Order Effective Date/Time	O	TS	26
ORC.16	Order Control Code Reason	O	CE	250	Order Control Code Reason	O	CE	250
ORC.18	Entering Device	O	CE	250	Entering Device	O	CE	250

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The COMMON ORDER segment is a mechanism for transmitting data common to all orders, i.e., common to all types of services that might be requested.

The primary purpose of this segment is to communicate the Order Control, which will indicate if the following orders are NW (New orders), CA (Cancelled), SC (Status Change), and/or NA (Number Assigned).

The format of this segment will be different for Status Updates.

Message ORM   Segment OBR   OBSERVATION REQUEST

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
OBR.1	Set ID - OBR	O	SI	4	Set ID - OBR	O	SI	4
OBR.2	Placer Order Number	C	EI	30	Placer Order Number	C	EI	30
OBR.3	Filler Order Number	C	EI	30	Filler Order Number	C	EI	30
OBR.4	Universal Service ID	R	CE	250	Universal Service ID	R	CE	250
OBR.11	Specimen Action Code	O	ID	1	Specimen Action Code	O	ID	1
OBR.12	Danger Code	O	CE	250	Isolation #1	O	CE	250
OBR.15	Specimen Source	O	CM	300	Specimen Source	O	CM	300
OBR.16	Ordering Provider	O	XCN	250	Ordering Provider	O	XCN	250
OBR.18	Placer Field 1	O	ST	60	Placer Field 1	O	ST	60
OBR.20	Filler Field 1	O	ST	60	Filler Field 1	O	ST	60
OBR.21	Filler Field 2	O	ST	60	Filler Field 2	O	ST	60

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The OBR segment is used to transmit information about each order.

Message ORM   Segment NTE   Query Results

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
NTE.1	Set ID - NTE	O	SI	4	Set ID - NTE	O	SI	4
NTE.2	Source of Comment	O	ID	8	Source of Comment	O	ID	8
NTE.3	Comment	O	FT	655	Comment	O	FT	655

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

The NTE segment is used to transmit order queries for each order. Each query
will be represented in a separate NTE segment.

NTE|1|P|QUERY Mnemonic^QUERY Result/response.

Record Layouts Other Vendor Ancillary System to MEDITECH MAGIC C/S Order Manager System

Message ACK   Segment MSH   GENERAL ACKNOWLEDGEMENT MESSAGE HEADER
Message ACK   Segment MSA   MESSAGE ACKNOWLEDGEMENT

Message ACK   Segment MSH   GENERAL ACKNOWLEDGEMENT MESSAGE HEADER

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
MSH.1	FIELD SEPARATOR	R	ST	1	FIELD SEPARATOR	R	AN	1
MSH.2	ENCODING CHARACTERS	R	ST	4	ENCODING CHARACTERS	R	AN	4
MSH.7	RECEIVING APPLICATION	O	ST	15	RECEIVING APPLICATION	R	AN	3
MSH.7	DATE/TIME OF MESSAGE	O	TS	19	DATE/TIME OF MESSAGE	O	AN	15
MSH.9	MESSAGE TYPE	R	ID	7	MESSAGE TYPE	R	AN	3
MSH.10	MESSAGE CONTROL ID	R	ST	20	MESSAGE CONTROL ID	R	AN	20
MSH.11	PROCESSING ID	R	ID	1	PROCESSING ID	R	AN	1
MSH.12	VERSION ID	R	NM	8	VERSION ID	R	N	8

```
Req  -  R = Required,  C = Conditionally Required,  O = Optional, NU = Not Supported
```

Used by MEDITECH for network interfaces only in conjunction with the HL7 Minimal Lower Layer Protocol.

This will be a General Acknowledgement (or ACK) message type, which will be sent by the receiving system after receipt of a message. The sending system will wait for receipt of the acknowledgement message before attempting to send another message. If no Acknowledgement Message has been received within a specified period of time, the sending system may attempt to re-send the message.

The MSA segment will contain the MESSAGE CONTROL ID of the message that is being acknowledged.

Upon receipt of an Acknowledgement Message, the sender will assume that the indicated message had been successfully transmitted. MEDITECH will not send or process any Application Error text messages.

Message ACK   Segment MSA   MESSAGE ACKNOWLEDGEMENT

Item	HL7 Description	Req	Type	Len	MEDITECH Description	Req	Type	Len
MSA.1	ACKNOWLEDGMENT CODE	R	ID	2	ACKNOWLEDGMENT CODE	R	AN	2
MSA.2	MESSAGE CONTROL ID	R	ST	20	MESSAGE CONTROL ID	R	AN	20

Req - R = Required, C = Conditionally Required, O = Optional, NU = Not Supported

Used by MEDITECH for network interfaces only.

The MSA segment will contain the MESSAGE CONTROL ID of the message that is being acknowledged.

Appendix

Field Definitions

NOTE	HL7/MT	DESCRIPTION	LENGTH	TYPE
AL1.1	HL7	Set ID	250	CE
	MT	Set ID	250	N

MEDITECH description

This field contains the number that identifies this transaction. For the first
occurrence of the segment, the sequence number shall be one, for the second
occurrence, the sequence number shall be two, etc.

If the HL7 Version < 2.4, the Set ID is in field 1, otherwise it is in
Component 1

Used in Message Segment: ORM_AL1

| AL1.2 | HL7 | Allergen Type Code | 250 | CE |
| | MT | Allergen Type Code | 250 | ID |

MEDITECH description

This field indicates a general allergy category. Possible MEDITECH values:

DA - Drug Allergy (Drug category in Allergen Dictionary)
FA - Food Allergy (Food category in Allergen Dictionary)
EA - Environment (Environment category in Allergen Dictionary)
MA - Miscellaneous Allergy (Any other category in Allergen Dictionary)

*If allergies are uncoded, AL1|2 will be blank.

MEDITECH element/value

@MIS.ALLERGY.category

Used in Message Segment: ORM_AL1

| AL1.3 | HL7 | Allergen Code | 250 | CE |
| | MT | Allergen Code | 250 | AN |

MEDITECH description

This field uniquely identifies a particular allergen.

Format:

Component 1: Allergen Mnemonic
Component 2: Description
Component 3: Module

Note: If allergies are uncoded, AL1|3 will only be popoulated with the
Identifier.

MEDITECH element/value

Component 1: @MRI.ALLERGY.allergy
Component 2: @MIS.ALLERGY.name

Used in Message Segment: ORM AL1

AL1.4	HL7	Allergy Severity Code	250	CE
	MT	Allergy Severity Code	250	AN

MEDITECH description

Allergy Severity Code.

Possible Values:

MI - Mild
MO - Intermediate/Moderate
SV - Severe
U   - Unknown

MEDITECH element/value

@MRI.ALLERGY.severity
@MRI.ALLERGY.useverity

Used in Message Segment: ORM AL1

AL1.5	HL7	Allergy Reaction Code	15	ST
	MT	Allergy Reaction Code	15	AN

MEDITECH description

Allergy reaction mnemonic as seen in the Allergy reaction dictionary within
MRI.

MEDITECH element/value

@MRI.ALLERGY.pt.reaction
@MRI.ALLERGY.upt.reaction

Used in Message Segment: ORM AL1

AL1.6	HL7	Identification Date	8	NA
	MT	Identification Date	8	N

MEDITECH description

This field contains the date that the allergy was identified.

MEDITECH element/value

@MRI.ALLERGY.date
@MRI.ALLERGY.udate

Used in Message Segment: ORM AL1

MSA.1	HL7	ACKNOWLEDGMENT CODE	2	ID
	MT	ACKNOWLEDGMENT CODE	2	AN

HL7 standard description

Field may contain AA (Application Accept), AE (Application Error), or AR
(Application Reject).

Used in Message Segment: ACK MSA

MSA.2	HL7	MESSAGE CONTROL ID	20	ST
	MT	MESSAGE CONTROL ID	20	AN

HL7 standard description

The MESSAGE CONTROL ID of the message which is being acknowledged. This must
be returned by the Receiving System to the Sending System in order to match
an acknowledgement message with the message being acknowledged.

MEDITECH element name: MIS.XO.MSG.urn

Used in Message Segment: ACK MSA

MSH.1	HL7	FIELD SEPARATOR	1	ST
	MT	FIELD SEPARATOR	1	AN

HL7 standard description

The separator between the segment ID and the ENCODING CHARACTERS field. It
serves as the separator and defines the character to be used as a separator for
the rest of the message.

Used in Message Segment: ACK MSH

MSH.10	HL7	MESSAGE CONTROL ID	20	ST
	MT	MESSAGE CONTROL ID	20	AN

HL7 standard description

A number or other identifier that uniquely identifies the message.

Used in Message Segment:

MSH.11	HL7	PROCESSING ID	1	ID
	MT	PROCESSING ID	1	AN

HL7 standard description

MEDITECH Value: P (Production/Live) or D (Development/Test)

Used in Message Segment:

MSH.12	HL7	VERSION ID	8	NM
	MT	VERSION ID	8	N

HL7 standard description

Version ID will be '2.2'.

MEDITECH element name: Hard coded literal.

Used in Message Segment:

MSH.15	HL7	Accept Acknowledgement Type	2	ID
	MT	Accept Acknowledgement Type	2	ID

MEDITECH description

Accept Acknowledgement Type: This value will always be populated with "AL".

Used in Message Segment:

MSH.16	HL7	Application Ack. Type	2	ID
	MT	Application Ack. Type	2	AN

MEDITECH description

This field contains the conditions under which application acknowledgements are required to be returned in response to this message.   Will always be populated with "NE".

Used in Message Segment:

MSH.2	HL7	ENCODING CHARACTERS	4	ST
	MT	ENCODING CHARACTERS	4	AN

HL7 standard description

Four characters that include the component separator, the repetition separator, the escape character, and the sub-component separator.

The component, sub-component, and repetition separators are used as appropriate in each field. These characters may not be part of the data of any fields which may have components or sub-components, or which may repeat.

Used in Message Segment: <u>ACK MSH</u>

MSH.3	HL7	Sending Application	180	TX
	MT	Sending Application	15	AN

MEDITECH description

This field identifies the Sending Application as defined in the internal MEDITECH parameters.

MEDITECH element/value

MIS.XO.MSG.GEN.xo.sending.application

Used in Message Segment: <u>ORM MSH</u>

MSH.4	HL7	Sending Facility	180	AN
	MT	Sending Facility	10	AN

MEDITECH description

This field contains the Sending Facility ID as defined in the MEDITECH internal parameters. To change this value please contact your MEDITECH Interoperability Specialist.

Used in Message Segment: <u>ORM MSH</u>

MSH.7	HL7	DATE/TIME OF MESSAGE	19	TS
	MT	DATE/TIME OF MESSAGE	15	AN

HL7 standard description

Date/time that the sending system created the message.

MEDITECH format: Date and time will be in the form YYYYMMDDHHMM.

MEDITECH element name: ADM.PAT.today

Used in Message Segment: <u>ACK MSH</u>

MSH.9	HL7	MESSAGE TYPE	7	ID
	MT	MESSAGE TYPE	3	AN

HL7 standard description

The Message Type for General Acknowledgment Messages will be ACK.

Used in Message Segment:

NTE.1	HL7	Set ID - NTE	4	SI
	MT	Set ID - NTE	4	SI

MEDITECH description

This field may be used where multiple NTE segments are included in a message.
Will start with counter 1.

Used in Message Segment:

NTE.2	HL7	Source of Comment	8	ID
	MT	Source of Comment	8	ID

MEDITECH description

Source of Comment. Will always be set to "P".

Used in Message Segment:

NTE.3	HL7	Comment	655	FT
	MT	Comment	655	FT

MEDITECH description

This field contains the results or response contained in a OM order query.
Format:

Component 1 - Query Mnemonic
Component 2 - Query Text
Component 3 - Group Response Mnemonic
Component 4 - Group Response Text

Used in Message Segment:

OBR.1	HL7	Set ID - OBR	4	SI
	MT	Set ID - OBR	4	SI

MEDITECH description

Set ID. Always will be valued at 1.

Used in Message Segment:

OBR.11	HL7	Specimen Action Code	1	ID
	MT	Specimen Action Code	1	ID

MEDITECH description

Status of collection. This field will contain 'O' if the specimen or product
has been collected, otherwise this field will be nil. The Collected By Nurse
query associated with the ordered procedure will determine whether this field
will be filled or not.

Used in Message Segment: ORM OBR

OBR.12	HL7	Danger Code	250	CE
	MT	Isolation #1	250	CE

MEDITECH description

This field will contain the response to the Isolation #1 query as defined in
the MEDITECH Order Entry parameters. The first component will contain the
Group Response code if the query is defined as a group response. The second
component will contain the Group Response Name for a group response query or
the response text for other types of queries.

Used in Message Segment: ORM OBR

OBR.15	HL7	Specimen Source	300	CM
	MT	Specimen Source	300	CM

HL7 standard description

Specimen Source.

Used in Message Segment: ORM OBR

OBR.16	HL7	Ordering Provider	250	XCN
	MT	Ordering Provider	250	XCN

MEDITECH description

The identification of the provider who ordered the test.

This will contain the MEDITECH Doctor Dictionary mnemonic of the ordering
doctor followed by the ordering doctor insurance pin number.

Used in Message Segment: ORM OBR

OBR.18	HL7	Placer Field 1	60	ST
	MT	Placer Field 1	60	ST

HL7 standard description

Placer Field #1.

Used in Message Segment: ORM OBR

```
OBR.2        HL7        Placer Order Number                      30      EI
             MT         Placer Order Number                      30      EI
```

MEDITECH description

The Placer is the person or service that requests or places the order for an
observation. Examples of Placers include physicians, practices, clinics,
or ward services that order lab tests, X-rays, or vital signs.

This field will be valued with the MEDITECH OM ID (OID) in a bidirectional
Order integration. In addition, if the order originated in the MEDITECH OM
system, then this field will contain the OM Order ID (OID), where MEDITECH is
acting as the Placer.

Used in Message Segment: ORM OBR

```
OBR.20       HL7        Filler Field 1                           60      ST
             MT         Filler Field 1                           60      ST
```

HL7 standard description

Filler Field #1.

Used in Message Segment: ORM OBR

```
OBR.21       HL7        Filler Field 2                           60      ST
             MT         Filler Field 2                           60      ST
```

MEDITECH description

Filler Field #2.

Used in Message Segment: ORM OBR

```
OBR.3        HL7        Filler Order Number                      30      EI
             MT         Filler Order Number                      30      EI
```

MEDITECH description

Filler is synonymous to Producer. The Producer is the person or service who
produces the observations (i.e. fills the order) requested by the Placer (i.e
person or service requesting the order/observation). Fillers include diagnostic
services, clinical services and care providers who report observations about
their patients. For example, a clinical laboratory is a producer of lab test
results (i.e. filler of a lab order), and a nursing service is the producer of
vital signs observations (i.e. the filler of orders to measure vital signs)

MEDITECH will send the OV Order ID in this field in a bidirectional Order
integration. If the interface is a standalone OM orders to an Other Vendor,
then this field will
be blank.

Used in Message Segment: ORM OBR

| OBR.4 | HL7 | Universal Service ID | 250 | CE |
| | MT | Universal Service ID | 250 | CE |

MEDITECH description

This is a two component field that allows an order placing system to group sets
of orders together and subsequently identify them.

OM Category Mnemonic or Category Group Mnemonic^Procedure Mnemonic

    Note: If the Category Mnemonic is defined within a Category Group then the
    OBR|4.1 field will be populated with the Category Group Mnemonic.

Note: At 6.05 PP7, The Order Category/Procedure will be restructured in the
     following format:

Category mnemonic = Category.database
Order mnemonic = Procedure.Category.database

Used in Message Segment: ORM OBR

| ORC.1 | HL7 | Order Control | 2 | ID |
| | MT | Order Control | 2 | ID |

MEDITECH description

Order Event Type. Possible Values:

NA	Number Assignment
NW	New orders
XX	Edit Orders
OC	Cancelled orders
OD	Completed Order

Used in Message Segment: ORM ORC

| ORC.10 | HL7 | Entered By | 250 | XCN |
| | MT | Entered By | 250 | XCN |

MEDITECH description

If New Order then this will be populated with the Order By User. If Cancelled,
this will be populated with the Responsible By User.

Used in Message Segment: ORM ORC

| ORC.12 | HL7 | Ordering Provider | 250 | XCN |
| | MT | Ordering Provider | 250 | XCN |

MEDITECH description

Ordering Provider.

ORC.13   **HL7**   **Enterer's Location**   **80**   **PL**
               MT   **Enterer's Location**   **80**   **PL**

MEDITECH description

Enterer's Location.

ORC.15   **HL7**   **Order Effective Date/Time**   **26**   **TS**
               MT   **Order Effective Date/Time**   **26**   **TS**

MEDITECH description

Order Effective Date/Time. Format: YYYYMMDDHHMM

ORC.16   **HL7**   **Order Control Code Reason**   **250**   **CE**
               MT   **Order Control Code Reason**   **250**   **CE**

MEDITECH description

Reason for Order Cancellation. Only populated if order status is "CA" or "OC".

ORC.18   **HL7**   **Entering Device**   **250**   **CE**
               MT   **Entering Device**   **250**   **CE**

MEDITECH description

Entering Device.

ORC.2   **HL7**   **Placer Order Number**   **22**   **EI**
               MT   **Placer Order Number**   **22**   **EI**

HL7 standard description

Placer Order Number.

| ORC.3 | HL7 | Filler Order Number | 22 | EI |
| | MT | Filler Order Number | 22 | EI |

MEDITECH description

Filler Order Number.

Used in Message Segment: ORM ORC

| ORC.4 | HL7 | Placer Group Number | 22 | EI |
| | MT | Placer Group Number | 22 | EI |

MEDITECH description

OM Order Number

Used in Message Segment: ORM ORC

| ORC.5 | HL7 | Order Status | 2 | ID |
| | MT | Order Status | 2 | ID |

MEDITECH description

Order Status.

Possible Values:

CA - Cancelled
CM - Complete
IP - In Process

Used in Message Segment: ORM ORC

| ORC.6 | HL7 | Response Flag | 1 | ID |
| | MT | Response Flag | 1 | ID |

MEDITECH description

Response Flag. Always valued at "N" for MSA only response.

Used in Message Segment: ORM ORC

| ORC.7 | HL7 | Quantity/Timing | 200 | TQ |
| | MT | Quantity/Timing | 200 | TQ |

HL7 standard description

Quantity/Timing.

Component 1 - Quantity
Component 4 - Date/Time

Used in Message Segment: <u>ORM ORC</u>

ORC.9 **HL7** **Date/Time of Transaction** **26** **TS**
 MT **Date/Time of Transaction** **26** **TS**

MEDITECH description

Date/Time of Transaction.

Used in Message Segment: <u>ORM ORC</u>

PID.1 **HL7** **Set ID** **1** **CX**
 MT **Set ID** **1** **N**

MEDITECH description

There will only be one patient being sent at a time. Therefore, this will always be set to the value of "1".

Used in Message Segment: <u>ORM PID</u>

PID.14 **HL7** **Phone Number - Business** **250** **TN**
 MT **Phone Number - Business** **250** **N**

MEDITECH description

This field contains the patient's business telephone number.

6.1 Release and Above:

Component 1 - Phone Number
Component 2 - HL7 Use Code
   Hard coded as "WPN" - Work Primary Number
Component 3 - Type
   Hard coded as "EMP" - Employer

MEDITECH element/value

@ADM.PAT.emp.phone

Used in Message Segment: <u>ORM PID</u>

PID.18 **HL7** **Patient Account Number** **250** **TX**
 MT **Patient Account Number** **250** **AN**

MEDITECH description

This field contains the patient account number.

Optional 2nd Component: Patient Registration Category

MEDITECH element/value

DPM Information:

ADM.PAT.acct.num

Used in Message Segment: <u>ORM PID</u>

PID.21   **HL7**   **Mother's Identifier**   **250**   **AN**
             MT   **Mother's Account Number**   **250**   **AN**

MEDITECH element/value

@ADM.PAT.acct.number

Used in Message Segment: <u>ORM PID</u>

PID.3   **HL7**   **Patient Identifier List**   **250**   **CX**
             MT   **Patient Identifier List**   **25**   **SID**

MEDITECH description

This field contains multiple patient identifiers separated by a repetition
character. A patients Medical Record Number, Social Security Number (if
available), HIM OID, and EMR Number are sent through this field. The following
format of this field is as follows:

Anything between expressed with " " is a hardcoded value.

First Repetition:

Component 1: Medical Record Number
Component 5: "MR"
Component 6: Facility Mnemonic

Second Repetition:

Component 1: Social Security Number
Component 5: "SS"
Component 6: Facility Mnemonic

Third Repetition:(If Available)

Component 1: HIM OID
Component 5: "PI"
Component 6: Facility Mnemonic

Fourth Repetition:

Component 1: EMR ID
Component 5: "HUB"
Component 6: Facility Mnemonic

Note: If there is no social security number entered on a patient, the fourth
repetition will assume the third repetition.

If HL7 version < 2.4 then only MRN repition will be available.

MEDITECH element/value

```
Medical Record Number: @unit.number
Social Security Number: @soc.sec.number
HIM ID:                 @mri.urn
EMR ID:                 @MRI.PAT.mri.hub.id
```

Used in Message Segment: ORM PID

PID.5	HL7	Patient Name	250	PN
	MT	Patient Name	250	AN

MEDITECH description

This field contains the name of the patient. This field is a 6 component field
which is formatted as follows:

```
Component 1: Last Name
Component 2: First Name
Component 3: Middle Initial
Component 4: Suffix
Component 5: Title
Component 6: Degree
```

If the HL7 Version is greater than 2.2 than PID.5.7 will populate with L and
if there are multiple other names than PID.5.7 will be populated with an M.
If the HL7 Versions is 2.2 or less than it won t populate PID.5.7.

MEDITECH element/value

```
@name
@maiden.other.name
@MRI.PAT.name
```

Used in Message Segment: ORM PID

PID.6	HL7	Mother's Maiden Name	250	PN
	MT	Mother's Maiden Name	250	AN

MEDITECH description

This field contains the mothers maiden name.

MEDITECH element/value

```
@mothers.first.name
@MRI.PAT.mothers.first.name
```

Used in Message Segment: ORM PID

PID.7	HL7	Date of Birth	26	TS
	MT	Date of Birth	26	N

MEDITECH description

This field contains the patients date of birth. This is formatted as follows:

YYYYMMDDHHMM

MEDITECH element/value

DPM Information:

ADM.PAT.pat.dob

Used in Message Segment: ORM PID

PID.8	HL7	Administrative Sex	1	IS
	MT	Administrative Sex	1	N

MEDITECH description

This field contains the sex of the patient. Possible values: M, F, and U.

M = Male
F = Female
U = Unknown

MEDITECH element/value

DPM Information:

ADM.PAT.sex

Used in Message Segment: ORM PID

PV1.1	HL7	Set ID	4	SI
	MT	Set ID	4	N

MEDITECH description

This field contains the number that identifies this transaction. For the first occurrence of the segment, the sequence number shall be one, for the second occurrence, the sequence number shall be two, etc.

Used in Message Segment: ORM PV1

PV1.10	HL7	Hospital Service	3	ID
	MT	Hospital Service	3	AN

MEDITECH description

This field contains the treatment or type of surgery that the patient is scheduled to receive; defined as the Service in Admissions. It is a required field with trigger events A01 (admit/visit notification), A02 (transfer a patient). The values that populate this field are built in the Registration Service dictionary in MIS.

MEDITECH element/value

DPM Information:

ADM.PAT.service

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.11	HL7	Patients Temporary Location	20	CE
	MT	Patients Temporary Location	20	AN

MEDITECH description

Patients Temporary Location

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.14	HL7	Admit Source	6	IS
	MT	Admit Source	6	AN

MEDITECH description

This field indicates where the patient was admitted. This is defined as the
Admit Source in Admissions. The values for this field are built in the
Admission Source dictionary in MIS.

MEDITECH element/value

DPM Information:

ADM.PAT.admit.source

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.16	HL7	VIP Indicator	2	ID
	MT	VIP Indicator	2	SN

MEDITECH description

This is a Y/N flag that is defined as the VIP field in HIM - MPI desktop. This
field will be blank if no value is defined in HIM.

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.17	HL7	Admitting Provider	60	CN
	MT	Admitting Provider	60	SN

MEDITECH description

"This field contains the admitting physician information as defined in

Admissions. The components of this field are populated by the MIS Person dictionary.

Component 1 - Provider Mnemonic

MEDITECH element/value

DPM Information:

ADM.PAT.admit.doctor

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.18	HL7	Patient Type	2	ID
	MT	Patient Type	3	AN

MEDITECH description

This field contains the Patient's Account Type as defined in Admissions.
Possible values are:

CLI - Clinical Outpatient
ER - Emergency Room Patient
IN - Inpatient
INO - Observation Patient
RCR - Recurring Outpatient
REF - Referred Outpatient
SDC - Surgical Day Care Patient

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.2	HL7	Patient Status	1	CX
	MT	Patient Status	1	SN

MEDITECH description

PV1|2 can be populated with the following values:

"P", used for "PRE" patients
"I", used for inpatients
"E", used for ER patients
"O", used for outpatients

The field can also be left blank, which appears to happen if the patient is an
"SCH" patient.

Used in Message Segment: [ORM PV1](ORM PV1)

PV1.20	HL7	Financial Class	11	ID
	MT	Financial Class	11	AN

MEDITECH description

This is the Patient's Financial Class as defined as Fin Class in Admissions.
The values for this field are defined in the Financial Class dictionary in MIS.

MEDITECH element/value

DPM Information:

ADM.PAT.financial.class

Used in Message Segment: <u>ORM PV1</u>

PV1.3	HL7	Assigned Patient Location	80	PL
	MT	Assigned Patient Location	80	AN

MEDITECH description

This field contains the patient s assigned location as defined in Admissions.

Component 1 - Location
Component 2 - Room
Component 3 - Bed

Component 1 values are defined values in the Location dictionary in MIS. These are typically hospital wards or floors. Components 2 and 3 are defined in the Room dictionary in MIS.

MEDITECH element/value

Component 1 - location - ADM.PAT.location
Component 2 - room   - ADM.PAT.room
Component 3 - bed   - ADM.PAT.bed

Used in Message Segment: <u>ORM PV1</u>

PV1.36	HL7	Discharge Disposition	2	ID
	MT	Discharge Disposition	10	AN

MEDITECH description

This field contains the disposition of the patient at time of discharge (i.e., discharged to home, expired, etc.). This is defined as the Discharge Disposition in Admissions. The values for this field are defined in the Discharge Disposition dictionary in MIS.

MEDITECH element/value

DPM Information:

ADM.PAT.discharge.disposition

Used in Message Segment: <u>ORM PV1</u>

PV1.39	HL7	Servicing Facility	2	ID
	MT	Servicing Facility	10	AN

MEDITECH description

This field is used in a multiple facility environment to indicate the
healthcare facility with which this visit is associated. The Facility Mnemonic
is defined within the ADM Toolbox parameters.

Used in Message Segment: ORM PV1

```
PV1.4      HL7      Admission Type                    2      ID
           MT       Admission Type                    2      AN
```

MEDITECH description

This is a Patient's "Admit Priority" as defined in Admissions.

MEDITECH element/value

ADM.PAT.admit.priority

Used in Message Segment: ORM PV1

```
PV1.41     HL7      Patient Status                   2      ID
           MT       Patient Status                   3      AN
```

MEDITECH description

This field contains the account status. Possible values are:

```
SCH - Scheduled     PRE - Preadmitted
ADM - Admitted      REG - Registered
DIS - Discharged    DEP - Departed"
```

Used in Message Segment: ORM PV1

```
PV1.44     HL7      Admit Date/Time                  19     TS
           MT       Admit/Service Date/Time          19     AN
```

MEDITECH description

This field contains the admit date/time. It is to be used if the event
date/time is different than the admit date and time, i.e., a retroactive
update. This is defined as the Admit Date and Time in Admissions. Format is
YYYYMMDDHHMM

MEDITECH element/value

DPM Information:

ADM.PAT.admit.date
ADM.PAT.admit.time

Used in Message Segment: ORM PV1

PV1.45	HL7	Discharge Date/Time	19	TS
	MT	Discharge Date/Time	19	AN

MEDITECH description

This field contains the discharge date/time. This is defined as the Discharge
Date and Time in Admissions. Format is YYYYMMDDHHMM

MEDITECH element/value

DPM Information:

ADM.PAT.discharge.date
ADM.PAT.discharge.time

Used in Message Segment: ORM_PV1

PV1.52	HL7	Family Doctor	100	CE
	MT	Family Doctor	100	AN

MEDITECH description

Mnemonic of Family Doctor.

Component 1 - Provider Mnemonic
Component 2 - Last Name
Component 3 - First Name
Component 4 - Middle Initial
Component 5 - Suffix
Component 6 - Title
Component 7 - Degree

Used in Message Segment: ORM_PV1

PV1.6	HL7	Prior Patient Location	80	PL
	MT	Prior Patient Location	80	AN

MEDITECH description

This field contains the prior patient location if the patient is being
transferred. This field is null if the patient is new.

The format of this field is the same as PV1|3:

Component 1 - Location
Component 2 - Room
Component 3 - Bed

Component 1 values are defined values in the Location dictionary in MIS. These
are typically hospital wards or floors. Components 2 and 3 are defined in the
Room dictionary in MIS.

Used in Message Segment: ORM_PV1

PV1.7	HL7	Attending Provider	60	CN
	MT	Attending Provider	60	AN

MEDITECH description

This field contains the attending physician information as defined in Admissions. The components of this field are populated by the MIS Person dictionary.

Component 1 - Provider Mnemonic
Component 2 - Last Name
Component 3 - First Name
Component 4 - Middle Initial
Component 5 - Suffix
Component 6 - Title
Component 7 - Degree

MEDITECH element/value

ADM.PAT.attend.er.doctor

Used in Message Segment: ORM PV1

PV1.8	HL7	Referring Provider	60	CN
	MT	Referring Provider	60	AN

MEDITECH description

This field contains the referring physician information as defined in Admissions. The components of this field are populated by the MIS Person dictionary.

Component 1 - Provider Mnemonic
Component 2 - Last Name
Component 3 - First Name
Component 4 - Middle Initial
Component 5 - Suffix
Component 6 - Title
Component 7 - Degree

MEDITECH element/value

DPM Information:

ADM.PAT.refer.doctor

Used in Message Segment: ORM PV1

PV1.9	HL7	Consulting Provider	60	CN
	MT	Consulting Provider	60	AN

MEDITECH description

This field contains the consulting physician information as defined in

Admissions. The components of this field are populated by the MIS Person
dictionary.

Component 1 - Provider Mnemonic
Component 2 - Last Name
Component 3 - First Name
Component 4 - Middle Initial
Component 5 - Suffix
Component 6 - Title
Component 7 - Degree

Used in Message Segment: ORM PV1