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Media Manager 7.1.0.0

Health Level Seven (HL7®) Reference Manual

INTEROPERABILITY DOCUMENTATION

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2 Conformance Statement Overview

A component of the Datalogue™ solution, Media Manager enables a point-of-care provider to document a patient's condition by submitting images, videos, and PDF documents using a smart device. The information is securely submitted to an archive, where it becomes part of the patient's medical history and can be viewed by authorized providers.

MM conforms to the HL7 2.3 specification for ORU and ORM messages and 2.5 for QBP and RSP messages. The following message types are supported in Media Manager:

Table 2-1 Supported outbound HL7 messages

Event	Message Type	Event Type	Description
Observation Result	ORU	R01	Unsolicited transmission of an observation message
Query	QBP	Q22	Query by parameter
Query	QBP	Q23	Query by parameter
Order Message	ORM	O01	Order completion notification

Table 2-2 Supported inbound HL7 messages

Event	Message Type	Event Type	Description
Response	RSP	K22	Segment Pattern Response
Response	RSP	K23	Segment Pattern Response

3 Introduction

3.1 Revision History

Revision	Comment	Applicable Releases
1	Initial revision.	Media Manager 7.1.0.0

3.2 Audience and Purpose

The reader of this document is concerned with software design and/or system integration. It is assumed that the reader of this document is familiar with the HL7 Standard and with the terminology and concepts that are used in the HL7 standard.

Media Manager features an implementation of an HL7 interface. Because HL7 implementations have many different approaches and versions, the interface is configurable to a certain amount. This document describes the requirements, features, limitations and recommendations for use of the HL7 interface.

3.3 Important Considerations for the Reader

This HL7 Conformance Statement itself is not sufficient to guarantee successful connectivity between MM and equipment from other vendors. The following considerations should be made:

The integration of equipment from different vendors (including GE HealthCare) goes beyond the scope of the HL7 standard and the HL7 Conformance Statements from GE HealthCare and other vendors. It is the responsibility of the user (or user's agent) to assess the application requirements and to design a solution that integrates GE HealthCare equipment with equipment from other vendors.

When the comparison of this HL7 Conformance Statement with a HL7 Conformance Statement from another vendor indicates that connectivity should be possible it is the responsibility of the user (or user's agent) to verify this by carrying out validation tests and to check whether all required functionality is met.

Regarding the future evolution of the HL7 standard GE HealthCare reserves the right to make changes to the MM architecture described in this document. The user (or user's agent) should ensure that any equipment connected via HL7 to GE HealthCare also follows the future evolution of the HL7 standard. Failure to do so may result in (partial) loss of connectivity.

3.4 Acknowledgement of Trade Names

All trade names mentioned in this document are recognized. Media Manager is a registered trademark of GE HealthCare.

3.5 Definitions, Acronyms and Abbreviations

3.5.1 Definitions

When HL7 fields are described in this document the notation `field.component.subcomponent` is used. For example, Patient Identifier List.4.2' designates the second subcomponent of the fourth component of the

'Patient Identifier List' field. If a component or subcomponent is not given, the entire field or component is indicated.

3.5.2 Abbreviations

HL7	Health Level 7
MM	Media Manager
IHE	Integrating the Healthcare Enterprise
MSH	Message Header segment
OBR	Observation Request segment
ORC	Common Order segment
ORM	Order Request Messages
OBX	Observation
PID	Patient ID segment
PV1	Patient Visit segment
RIS	Radiology Information System
PIX	Patient Identifier Cross-Referencing
PDQ	Patient Demographics Query
QAK	Query Acknowledgment
QPD	Query Parameter Definition
RCP	Response Control Parameter
RSP	Segment Pattern Response
ACK	Acknowledgement
SFT	Software Segment

4 Supported Outbound HL7 Messages

This chapter provides a detailed overview of all supported outbound HL7 events.

Table 4-1 Supported outbound HL7 messages

Functional Area	Event Code	Event
Observation Result	ORU	R01
Query	QBP	Q22
Query	QBP	Q23
Order Message	ORM	O01

4.1 Observation Message (Event ORU^R01)

When an XDS or DICOM submission is successfully created, updated, or deleted, a notification message is sent to the configured EMR system. An HL7 template provides the ability to construct an HL7 message and send it as a notification to the destination. The location of the HL7 template files for document creation, update, and deprecation is configurable with the keys hl7TemplateDocumentCreation, hl7TemplateDocumentUpdate, and hl7TemplateDocumentDeprecation. These templates can be adjusted to modify the structure of the message sent to submission subscribers. The template files contain two parts: constants and the placeholders. The names in angular brackets are the placeholders, which are replaced by the system. Values in the template are the constants, which can be modified by the system administrator.

Table 4-2 ORU - R01: Observation Message

Message Type	Event Code	Action
ORU	R01	Document Creation notification (XDS workflow)
ORU	R01	Document Update notification (XDS workflow)
ORU	R01	Document Creation notification (DICOM workflow)
ORU	R01	Document Update notification (DICOM workflow)
ORU	R01	Document Deprecation notification
ORU	R01	Document Creation notification (File Ingestion XDS Workflow)
ORU	R01	Document Creation notification (File Ingestion DICOM Workflow)

Table 4-3 ORU - R01: Segments

Segment Group	Segment	Segment Name	HL7 Requirement	Required by MM	Used by MM
	MSH	Message Header	R	Yes	Yes
RESPONSE/PATIENT	PID	Patient Identification	R	Yes	Yes
RESPONSE/PATIENT	PD1	Patient Demographics	O	No	No
RESPONSE/PATIENT	NTE	Notes and Comments	O	No	No
RESPONSE/PATIENT/VISIT	PV1	Patient Visit	R	Yes	Yes
RESPONSE/PATIENT/VISIT	PV2	Patient Visit – additional info	O	No	No
RESPONSE/ORDER_OBSERVATION	ORC	Common Order	O	No	No
RESPONSE/ORDER_OBSERVATION	OBR	Observation Request	R	Yes	Yes

RVATION					
RESPONSE/ORDER_OBSE RVATION	NTE	Notes and Comments	O	No	No
RESPONSE/ORDER_OBSE RVATION/OBSERVATION	OBX	Observation	O	Yes	Yes
RESPONSE/ORDER_OBSE RVATION/OBSERVATION	NTE	Notes and Comments	O	No	No
RESPONSE/ORDER_OBSE RVATION	CTI	Clinical Trial Identification	O	No	No
	DSC	Continuation Pointer	O	No	No
	ZDS	Physician Details	O	Yes	Yes

4.1.1 Document Creation Notification (XDS workflow)

Used Segments

Message Header (MSH)

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU - R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU - R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU - R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU - R01 message.

Observation (OBX)

See paragraph 6.5 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU - R01 message.

Physician Details (ZDS)

Table 4-4 shows which ZDS fields are supported, required or optional and which fields from the ZDS segment are used by MM.

Table 4-4 ZDS Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Start Tag	1	O	Yes	Yes
Physician Details	2	O	Yes	Yes
Activity Date Time	3	O	Yes	Yes

End Tag	4	O	Yes	Yes
---------	---	---	-----	-----

Sample HL7 Message Example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>||ORU^R01|EMR<MessageControlID>|P|2.3|
```

```
PID|1|||<LocalPatientID>^^^MPACCOMM||<PatientName>||<DateTimeOfBirth>|<AdministrativeSex>|||||WOUND
```

```
CARE<VisitNumber>^^^<VisitInstitutionNamespaceId>|PV1|||CP|||||DISCHARGED||<ActivityDateTime>|<ActivityDate>2359|
```

```
OBR|1||EMR<DocumentId>|<CareGroupAlias>^<ValueOfCareGroup>||<ActivityDateTime>|||||  
||<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|||||F|^<ActivityDateTime>|||  
||||<UserId>&<FamilyName>&<GivenName>&<MiddleName>^^^^^<Facility>[BEGIN_REPEAT]OB  
X|<SeqNumber>|ST|<CareGroupPrefix>_<SubGroupCode>^<SubGroupDisplay>||<ValueOfSubgroup>|  
|||||F|[END_REPEAT]
```

```
OBX|<SeqNumber>|RP|<CareGroupPrefix>_IMAGE^<ValueOfCareGroup>Image||https://zfp.cca.co  
m/ZFP/PatientTimeline?PatientId=<LocalPatientID>&authority=<LocalNamespaceId>&documentUid=  
<UniqueDocumentNumber>^URL^IMAGE|||||F
```

```
ZDS|S|<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|<ActivityDateTime>|E|
```

4.1.2 Document Update Notification (XDS workflow)

Used Segments

Message Header (MSH)

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU - R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU - R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU - R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU - R01 message.

Observation (OBX)

See paragraph 6.5 for the overview of supported fields of this segment and the mapping of these. No

special processing is done in the context of an ORU - R01 message.

Physician Details (ZDS)

Table 4-4 shows which ZDS fields are supported, required or optional and which fields from the ZDS segment are used by MM.

Sample HL7 message example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>||ORU^R01|EMR<MessageControlID>|P|2.3|
PID|1|||<LocalPatientID>^^^MPACCOMM||<PatientName>||<DateTimeofBirth>|<AdministrativeSex>|||||WOUND CARE <VisitNumber>^^^MPACCOMM|
PV1|||CP|||||DISCHARGED|||<ActivityDateTime>|<ActivityDate>2359|
OBR|1||EMR<DocumentId>|<CareGroupAlias>^<ValueOfCareGroup>|||<ActivityDateTime>|||||
||<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|||||C|^^^<ActivityDateTime>||
|||||<UserId>&<FamilyName>&<GivenName>&<MiddleName>^^^^^^<Facility>[BEGIN_REPEAT]OBX|
<SeqNumber>|ST|<CareGroupPrefix>_<SubGroupCode>^<SubGroupDisplay>||<ValueOfSubgroup>
|||||C|[END_REPEAT]
OBX|<SeqNumber>|RP|<CareGroupPrefix>_IMAGE^<ValueOfCareGroup>Image||https://zfp.cca.com/ZFP/PatientTimeline?PatientId=<LocalPatientID>&authority=<LocalNamespaceId>&documentUid=
<UniqueDocumentNumber>^URL^IMAGE|||||F
ZDS|S|<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|<ActivityDateTime>|E|
```

4.1.3 Document Creation Notification (DICOM workflow)

Used Segments

Message Header (MSH)

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Observation (OBX)

See paragraph 6.5 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Physician Details (ZDS)

Table 4-4 shows which ZDS fields are supported, required or optional and which fields from the ZDS segment are used by MM.

Sample HL7 message example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>|||ORU^R01|EMR<MessageControlID>|P|2.3|
PID|1|||<LocalPatientID>^^^MPACCOMM||<PatientName>||<DateTimeOfBirth>|<AdministrativeSex>|||WOUND CARE <VisitNumber>^^^<VisitInstitutionNamespaceId>|
PV1|||CP|||||DISCHARGED|||<ActivityDateTime>|<ActivityDate>2359|
OBR|1|<PlacerOrderNumber>|EMR<DocumentId>|^^^|||<ActivityDateTime>|||<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|||<AccessionNumber>|F|^<ActivityDateTime>|||<UserID>&<FamilyName>&<GivenName>&<MiddleName>^^^^^<Facility>
OBX|<SeqNumber>|RP|^^^
Image||https://zfp.cca.com?mode=proxy&lights=off&titlebar=on#View&sui=<StudyInstanceUID>^URL^IMAGE|||F
OBX|<SeqNumber>||^ Documents Count ||<DocumentCount>
ZDS|S|^<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|<ActivityDateTime>|E|
```

4.1.4 Document Update Notification (DICOM workflow)**Used Segments****Message Header (MSH)**

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Observation (OBX)

See paragraph 6.5 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Physician Details (ZDS)

Table 4-4 shows which ZDS fields are supported, required or optional and which fields from the ZDS segment are used by MM.

Sample HL7 message example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>|||ORU^R01|EMR<MessageControlID>|P|2.3|
PID|1|||<LocalPatientID>^^^MPACCOMM|||<PatientName>||<DateTimeOfBirth>|<AdministrativeSex>|||WOUND CARE <VisitNumber>^^^<VisitInstitutionNamespaceId>|
PV1|||CP|||DISCHARGED|||<ActivityDateTime>|<ActivityDate>2359|
OBR|1|<PlacerOrderNumber>|EMR<DocumentId>|^^^|||<ActivityDateTime>|||<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|||<AccessionNumber>|C|^^^<ActivityDateTime>|||<UserId>&<FamilyName>&<GivenName>&<MiddleName>^^^^^<Facility>
OBX|<SeqNumber>|RP|^^^
Image||https://zfp.cca.com?mode=proxy&lights=off&titlebar=on#View&sui=<StudyInstanceUID>^URL^IMAGE|||C
OBX|<SeqNumber>||^ Documents Count ||<DocumentCount>
ZDS|S|<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|<ActivityDateTime>|E|
```

4.1.5 Document Deprecation Notification

Used Segments

Message Header (MSH)

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these No

special processing is done in the context of an ORU-R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Sample HL7 message example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>|||ORU^R01|EMR<MessageControlID>|P|2.3|
```

```
PID|1|||<LocalPatientID>^^^MPACCOMM|||<PatientName>||<DateTimeOfBirth>|<AdministrativeSex>|||WOUND CARE <VisitNumber>^^^<VisitInstitutionNamespaceId>|
```

```
PV1|||CP|||||DISCHARGED|||<ActivityDateTime>|<ActivityDate>2359|
```

```
OBR|1|<PlacerOrderNumber>|EMR<DocumentId>|<CareGroupAlias>^<ValueOfCareGroup>|||<ActivityDateTime>|||<PhysicianId>^<PhysicianName>^^^^^<AssigningAuthority>|||<AccessionNumber>|C|^<ActivityDateTime>|||<UserID>&<FamilyName>&<GivenName>&<MiddleName>^^^^^^<Facility>
```

4.1.6 Document Creation Notification (File Ingestion XDS Workflow)**Used Segments****Message Header (MSH)**

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Observation (OBX)

See paragraph 6.5 for the overview of supported fields of this segment and the mapping of these No special processing is done in the context of an ORU-R01 message.

Sample HL7 message example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>||ORU^R01|EMR<MessageControlID>|P|2.3
PID|1|||<LocalPatientID>^^^MPACCOMM||<PatientName>||<DateTimeOfBirth>|<AdministrativeSex>|||WOUND CARE <VisitNumber>^^^<VisitInstitutionNamespaceId>|
PV1|||CP|||DISCHARGED||<ActivityDateTime>|<ActivityDate>2359|
OBR|1|<PlacerOrderNumber>|EMR<DocumentId>|^|^|<ActivityDate>|||^^^<LocalNamespaceId>|||<AccessionNumber>|F|<ActivityDate>|||Media Manager File Ingestion Batch Processing^^^<Facility>
OBX|1|RP|<MimeType>||https://zfp.cca.com/ZFP/PatientTimeline?PatientId=<LocalPatientID>&authority=<LocalNamespaceId>&documentUid=<DocumentId>^URL^IMAGE|||F
```

4.1.7 Document Creation Notification (File Ingestion DICOM Workflow)

Used Segments

Message Header (MSH)

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Observation Request (OBR)

See paragraph 6.4 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Observation (OBX)

See paragraph 6.5 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORU-R01 message.

Sample HL7 message example:

```
MSH|^~\&|MEDIA_MANAGER|ORG0|EMR0|ORG0|<DateTimeOfMessage>||ORU^R01|EMR<MessageControlID>|P|2.3
```

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geControlID>|P|2.3

PID|1|||<LocalPatientID>^^^MPACCOMM||<PatientName>||<DateTimeOfBirth>|<AdministrativeSex>|||WOUND CARE <VisitNumber>^^^<VisitInstitutionNamespaceld>|

PV1|||CP|||DISCHARGED|||<ActivityDateTime>|<ActivityDate>2359|

OBR|1|<PlacerOrderNumber>|EMR<DocumentId>|^^^|||<ActivityDate>|||^^^<LocalNamespaceld>|||<AccessionNumber>||F|<ActivityDate>|||Media Manager File Ingestion Batch Processing^^^<Facility>

OBX|1|RP|<MimeType>||https://zfp.cca.com?mode=proxy&lights=off&titlebar=on#View&sui=<StudyInstanceUID>^URL^IMAGE|||F

4.2 Query By Parameter (Event QBP^Q22, QBP^23)

Media Manager uses HL7 messages for performing patient search query to PIX and PDQ systems. Details of these are explained in this section.

Table 4-5 QBP-Q22/QBP-Q23: Query By Parameter

Functional Area	Event Code	Action
QBP	Q22	Get Corresponding Identifiers from PDQ System
QBP	Q23	Get Corresponding Identifiers PIX System

Table 4-6 QBP-Q22/QBP-Q23: Segments

Segment	Segment Name	HL7 Requirement	Required by MM	Used by MM
MSH	Message Header	R	Yes	Yes
SFT	Software Segment	O	No	No
QPD	Query Parameter Definition	R	Yes	Yes
RCP	Response Control Parameter	R	Yes	Yes
DSC	Continuation Pointer	O	No	No

Used Segments

Message Header (MSH)

See Table 4-7 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of QBP-Q22/QBP-Q23 message.

Table 4-7 MSH Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by	Used by MM
------------	----------	-----------------	-------------	------------

			MM	
Field Separator	1	R	Yes	Yes
Encoding Characters	2	R	Yes	Yes
Sending Application	3	O	Yes	Yes
Sending Facility	4	O	Yes	Yes
Receiving Application	5	O	Yes	Yes
Receiving Facility	6	O	Yes	Yes
Date/Time of Message	7	R	Yes	Yes
Security	8	O	No	No
Message Type	9	R	Yes	Yes
Message Control ID	10	R	Yes	Yes
Processing ID	11	R	Yes	Yes
Version ID	12	R	Yes	Yes
Sequence Number	13	O	No	No
Continuation Pointer	14	O	No	No
Accept Acknowledgement Type	15	O	No	No
Application Acknowledgement Type	16	O	No	No
Country Code	17	O	No	No
Character Set	18	O	Yes	Yes
Principal Language of Message	19	O	No	No
Alternate Character Set Handling Scheme	20	O	No	No
Conformance Statement ID	21	O	No	No

Query Parameter Definition (QPD)

Table 4-8 shows which fields are used by MM for the QPD segment.

Table 4-8 QPD Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Message Query Name	1	R	Yes	Yes
Query Tag	2	C	Yes	Yes (fixed to value 'QRY001')
User Parameters	3	O	Yes	Yes

Response Control Parameter (RCP)

Table 4-9 shows which fields are used by MM for the RCP segment.

Table 4-9 RCP Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Query Priority	1	O	Yes	Yes (fixed value '1')
Quantity Limited Request	2	O	No	No
Response Modality	3	O	No	No
Execution and Delivery Time	4	C	No	No
Modify Indicator	5	O	No	No
Sort-by Field	6	O	No	No
Segment group inclusion	7	O	No	No

Sample HL7 message (query) example:

```
MSH|^~\&|MediaManager|MediaManager_TestLab|ICW_MPI|MediaManager_TestLab|202604031
10002||QBP^Q22^QBP_Q21|20260403110002762|D|2.5
```

```
QPD|IHE PDQ
```

```
Query|QRY001|@PID.3.1^306914~@PID.3.4.1^CCA~@PID.3.4.2^2.16.840.5.3.1.1.3.1~@PID.3.4.3^IS
O||||
```

```
RCP|i
```

Sample HL7 message (Success response) example:

```
MSH|^~\&|ICW_MPI|MediaManager_TestLab|MediaManager|MediaManager_TestLab|202604032
12856||RSP^K22^RSP_K21|39cb3dae-6657-42fd-bdf7-dfdb8d62edc7|D^T|2.5|||||UNICODE UTF-
8
```

```
MSA|AA|20260403110002762
```

```
QAK|QRY001|OK
```

```
QPD|IHE PDQ
```

```
Query|QRY001|@PID.3.1^306914~@PID.3.4.1^CCA~@PID.3.4.2^2.16.840.5.3.1.1.3.1~@PID.3.4.3^IS
O||||
```

```
PID|1||306914^^^CCA&2.16.840.5.3.1.1.3.1&ISO^PI~1111179018^^^SYS_A&2.16.840.5.3.2.1.1&ISO
^PI||MM_71_018^MM_71_018^^^^^L||19501226|F||2112^LINCOLM^AV^NEWYORK^OR^07333
||||U
```

4.3 Order Message (Event ORM^O01)

Media Manager uses HL7 messages for receiving order update notification from DICOM modality worklist. Details of which are mentioned below:

Table 4-10 ORM-001: Order Message

Functional Area	Event Code	Action
ORM	O01	Get order update Information

Table 4-11 ORM-001: Segments

Segment	Segment Name	HL7 Requirement	Required by MM	Used by MM
MSH	Message Header	R	Yes	Yes
PID	Patient Identification	R	Yes	Yes
PV1	Patient Visit	R	Yes	Yes
ORC	Common Order Segment	R	Yes	Yes
OBR	Order - Details	C	Yes	Yes
ZDS	Additional identification information (custom for IHE)	O	Yes	Yes

Used Segments

Message Header (MSH)

See paragraph 6.1 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORM^O01 message.

Patient Identification (PID)

See paragraph 6.2 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORM^O01 message.

Patient Visit (PV1)

See paragraph 6.3 for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of an ORM^O01 message.

Common Order Segment (ORC)

See **Table 4-12** for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of ORM^O01 message.

Table 4-12 ORC supported segment fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Order Control	1	R	Yes	Yes
Placer Order Number	2	C	No	No
Filler Order Number	3	C	Yes	Yes

Placer Group Number	4	O	No	No
Order Status	5	O	Yes	Yes
Response Flag	6	O	No	No
Quantity/Timing	7	O	No	No
Parent Order	8	O	No	No
Date/Time of Transaction	9	O	No	No
Entered By	10	O	No	No
Verified By	11	O	No	No
Ordering Provider	12	O	No	No
Enterer's Location	13	O	No	No
Call Back Phone Number	14	O	No	No
Order Effective Date/Time	15	O	No	No
Order Control Code Reason	16	O	No	No
Entering Organization	17	O	No	No
Entering Device	18	O	No	No
Action By	19	O	No	No

Order - Details (OBR)

See **Table 4-13** for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of ORM^O01 message.

Table 4-13 OBR supported segment fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Set ID OBR	1	C	No	No
Placer Order Number	2	C	No	No
Filler Order Number	3	C	Yes	Yes
Universal Service Identifier	4	R	No	No
Priority (ID)	5	O	No	No
Requested Date/Time	6	O	No	No
Observation Date/Time	7	C	No	No
Observation End Date/Time	8	O	No	No
Collection Volume	9	O	No	No
Collector Identifier	10	O	No	No
Specimen Action Code	11	O	No	No
Danger Code	12	O	No	No

Relevant Clinical Information	13	O	No	No
Specimen Received Date/Time	14	C	No	No
Specimen Source	15	O	No	No
Ordering Provider	16	O	Yes	Yes
Order Callback Phone Number	17	O	No	No
Placer Field 1	18	O	Yes	Yes
Placer Field 2	19	O	Yes	Yes
Filler Field 1	20	O	Yes	Yes
Filler Field 2	21	O	No	No
Results Rpt/Status Chng - Date/Time	22	C	No	No
Charge to Practice	23	O	No	No
Diagnostic Serv Sect ID	24	O	No	No
Result Status	25	C	No	No
Parent Result	26	O	No	No
Quantity/Timing	27	O	No	No
Result Copies To	28	O	No	No
Parent	29	O	No	No
Transportation Mode	30	O	No	No
Reason for Study	31	O	No	No
Principal Result Interpreter	32	O	No	No
Assistant Result Interpreter	33	O	No	No
Technician	34	O	No	No
Transcriptionist	35	O	No	No
Scheduled Date/Time	36	O	No	No
Number of Sample Containers *	37	O	No	No
Transport Logistics of Collected Sample	38	O	No	No
Collector's Comment *	39	O	No	No
Transport Arrangement Responsibility	40	O	No	No
Transport Arranged	41	O	No	No
Escort Required	42	O	No	No
Planned Patient Transport Comment	43	O	No	No

ZDS

See **Table 4-14** for the overview of supported fields of this segment and the mapping of these. No special processing is done in the context of ORM^O01 message.

Table 4-14 ZDS supported segment fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Study Instance UID	1	O	Yes	Yes

Sample HL7 Message Example:

```
MSH|^~\&|MediaManager|ORG0|EMR0|ORG0|<DateTimeOfMessage>||ORM^O01|<MessageControlId>|P|2.3|
```

```
PID|||<PatientId>|<PatientId>^^^<AssigningAuthority>|<FamilyName>^<GivenName>^<MiddleName>^^|<PatientBirthDate>|<PatientSex>|
```

```
PV1|||<VisitNumber>|
```

```
ORC|XO||<FillerOrderNumber>^^^|CM|
```

```
OBR|||<FillerOrderNumber>|<RequestingPhysician>|<AccessionNumber>|<FillerOrderNumber>|<ScheduledProcedureId>|
```

5 Supported Inbound HL7 Messages

This chapter provides a detailed overview of all supported inbound HL7 events. We receive these messages in response to our query request from PIX/PDQ systems.

Table 5-1 Supported inbound HL7 messages

Functional Area	Event Code	Event
Segment Pattern Response	RSP	K22
Segment Pattern Response	RSP	K23

Table 5-2 RSP-K22 / RSP-K23: Segments

Segment	Segment Name	HL7 Requirement	Required by MM	Used by MM
MSH	Message Header	R	Yes	Yes
SFT	Software Segment	O	No	No
MSA	Message Acknowledgment	R	Yes	Yes
ERR	Error	O	Yes	Yes
QAK	Query Acknowledgment	R	Yes	Yes
QPD	Query Parameter Definition	R	Yes	Yes
PID	Patient Identification	R	Yes	Yes
PD1	Patient Additional Demographic	O	No	No
NK1	Next of Kin / associated parties	O	No	No
QRI	Query Response Instance	O	No	No
DSC	Continuation Pointer	O	No	No

5.1 Observation (OBX)

Table 5-3 shows which OBX fields are supported and used by MM.

Table 5-3 Observation (OBX) Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Set ID – OBX	1	O	Yes	Yes
Value Type	2	C	Yes	Yes
Observation Identifier	3	R	Yes	Yes
Observation Sub-ID	4	C	No	No
Observation Value	5	C	Yes	Yes
Units	6	O	No	No
References Range	7	O	No	No
Abnormal Flags	8	O	No	No
Probability	9	O	No	No
Nature of Abnormal Test	10	O	No	No
Observation Result Status	11	R	Yes	Yes
Date last obs Normal value	12	O	No	No
User Defined Access Checks	13	O	No	No
Date/Time of the Observation	14	O	No	No
Producer's ID	15	O	No	No
Responsible Observer	16	O	No	No
Observation Method	17	O	No	No
Equipment Instance Identifier	18	O	No	No
Date/Time of the Analysis	19	O	No	No

5.2 Segment Pattern Response (Event RSP^K22)

Used Segments

Message Header (MSH)

Table 4-7 shows which fields are used by MM for the MSH segment.

Message Acknowledgement (MSA)

Table 5-4 shows which fields are used by MM for the MSA segment.

Table 5-4 MSA Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Acknowledgment Code	1	R	Yes	Yes
Message Control ID	2	R	Yes	Yes

Text Message	3	O	No	No
Expected Sequence Number	4	O	No	No
Delayed Acknowledgement Type	5	O	No	No
Error Condition	6	O	No	No

Query Acknowledgement (QAK)

Table 5-5 shows which fields are used by MM for the QAK segment.

Table 5-5 QAK Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Query Tag	1	C	Yes	Yes
Query Response Status	2	O	Yes	Yes
Message Query Name	3	O	No	No
Hit Count	4	O	No	No
The Payload	5	O	No	No
Hits Remaining	6	O	No	No

Query Parameter Definition (QPD)

Table 5-6 shows which fields are used by MM for the QPD segment.

Table 5-6 QPD Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Message Query Name	1	R	Yes	Yes
Query Tag	2	C	Yes	Yes
User Parameters	3	O	Yes	Yes

Patient Identification (PID)

Table 5-7 shows which fields are used by MM for the PID segment.

Table 5-7 PID Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
SET ID – Patient ID	1	O	Yes	Yes
Patient ID	2	O	No	No
Patient Identifier List	3	R	Yes	Yes

Alternate Patient ID	4	O	No	No
Patient Name	5	R	Yes	Yes
Mother's Maiden Name	6	O	No	No
Date of Birth	7	O	Yes	Yes
Administrative Sex	8	O	Yes	Yes
Patient Alias	9	O	No	No
Race	10	O	No	No
Patient Address	11	O	No	No
Country Code	12	O	No	No
Phone Number – Home	13	O	No	No
Phone Number – Business	14	O	No	No
Primary Language	15	O	No	No
Marital Status	16	O	Yes	Yes
Religion	17	O	No	No
Patient Account Number	18	O	Yes	Yes
SSN Number	19	O	No	No
Driver's License Number	20	O	No	No
Mother's Identifier	21	O	No	No
Ethnic Group	22	O	No	No
Birth Place	23	O	No	No
Multiple Birth Indicator	24	O	No	No
Birth Order	25	O	No	No
Citizenship	26	O	No	No
Veterans Military Status	27	O	No	No
Nationality Code	28	O	No	No
Patient Death Date/Time	29	O	No	No
Patient Death Indicator	30	O	No	No
Identity Unknown Indicator	31	O	No	No
Identity Reliability Code	32	O	No	No
Last Update Date/Time	33	O	No	No
Last Update Facility	34	O	No	No

Species Code	35	C	No	No
Breed Code	36	C	No	No
Strain	37	O	No	No
Production Class Code	38	O	No	No
Tribal Citizenship	39	O	No	No

5.3 Segment Pattern Response (Event RSP^K23)

Used Segments

Message Header (MSH)

Table 4-7 shows which fields are used by MM for the MSH segment.

Message Acknowledgement (MSA)

Table 5-4 shows which fields are used by MM for the MSA segment.

Query Acknowledgement (QAK)

Table 5-5 shows which fields are used by MM for the QAK segment.

Query Parameter Definition (QPD)

Table 5-6 shows which fields are used by MM for the QPD segment.

Patient Identification (PID)

Table 5-7 shows which fields are used by MM for the PID segment.

6 Common Segments

This paragraph list the common segment and their corresponding fields that are used by more than one HL7 message.

6.1 Message Header (MSH)

Table 6-1 shows which MSH fields are supported, required or optional and which fields from the MSH segment are used by MM.

Table 6-1 MSH Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Field Separator	1	R	Yes	Yes
Encoding Characters	2	R	Yes	Yes
Sending Application	3	O	Yes	Yes
Sending Facility	4	O	Yes	Yes
Receiving Application	5	O	Yes	Yes
Receiving Facility	6	O	Yes	Yes
Date/Time of Message	7	O	Yes	Yes
Security	8	O	No	No
Message Type	9	R	Yes	Yes
Message Control ID	10	R	Yes	Yes
Processing ID	11	R	Yes	Yes
Version ID	12	R	Yes	Yes
Sequence Number	13	O	Yes	Yes
Continuation Pointer	14	O	No	No
Accept Acknowledgement Type	15	O	No	No
Application Acknowledgement Type	16	O	No	No
Country Code	17	O	No	No
Character Set	18	O	No	No
Principal Language of Message	19	O	No	No

6.2 Patient Identification (PID)

Table 6-2 shows which PID fields are supported, required or optional and which fields from the PID segment are used by MM.

Table 6-2 PID Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
SET ID – Patient ID	1	O	Yes	Yes
Patient ID	2	O	Yes	Yes
Patient Identifier List	3	R	Yes	Yes
Alternate Patient ID	4	O	No	No
Patient Name	5	R	Yes	Yes
Mother's Maiden Name	6	O	No	No
Date of Birth	7	O	Yes	Yes
Sex	8	O	Yes	Yes
Patient Alias	9	O	No	No
Race	10	O	No	No
Patient Address	11	O	No	No
Country Code	12	O	No	No
Phone Number – Home	13	O	No	No
Phone Number – Business	14	O	No	No
Primary Language	15	O	No	No
Marital Status	16	O	No	No
Religion	17	O	No	No
Patient Account Number	18	O	Yes	Yes
SSN Number	19	O	No	No
Driver's License Number	20	O	No	No
Mother's Identifier	21	O	No	No
Ethnic Group	22	O	No	No
Birth Place	23	O	No	No
Multiple Birth Indicator	24	O	No	No
Birth Order	25	O	No	No
Citizenship	26	O	No	No

Veterans Military Status	27	O	No	No
Nationality Code	28	O	No	No
Patient Death Date/Time	29	O	No	No
Patient Death Indicator	30	O	No	No

6.3 Patient Visit (PV1)

Table 6-3 shows which PV1 fields are supported, required or optional and which fields from the PV1 segment are used by MM.

Table 6-3 PV1 Segment Supported Fields

HL7 Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Set ID - PV1	1	O	No	No
Patient Class	2	R	Yes	Yes
Assigned Patient Location	3	O	No	No
Admission Type	4	O	No	No
Preadmit Number	5	O	No	No
Prior Patient Location	6	O	No	No
Attending Doctor	7	O	No	No
Referring Doctor	8	O	No	No
Consulting Doctor	9	O	No	No
Hospital Service	10	O	No	No
Temporary Location	11	O	No	No
Preadmit Test Indicator	12	O	No	No
Readmission Indicator	13	O	No	No
Admit Source	14	O	No	No
Ambulatory Status	15	O	No	No
VIP Indicator	16	O	No	No
Admitting Doctor	17	O	No	No
Patient Type	18	O	Yes	Yes
Visit Number	19	O	No	No
Financial Class	20	O	No	No
Charge Price Indicator	21	O	No	No
Courtesy Code	22	O	No	No
Credit Rating	23	O	No	No

Contract Code	24	O	No	No
Contract Effective Date	25	O	No	No
Contract Amount	26	O	No	No
Contract Period	27	O	No	No
Interest Code	28	O	No	No
Transfer to Bad Debt Code	29	O	No	No
Transfer to Bad Debt Date	30	O	No	No
Bad Debt Agency Code	31	O	No	No
Bad Debt Transfer Amount	32	O	No	No
Bad Debt Recovery Amount	33	O	No	No
Delete Account Indicator	34	O	No	No
Delete Account Date	35	O	No	No
Discharge Disposition	36	O	No	No
Discharged to Location	37	O	No	No
Diet Type	38	O	No	No
Servicing Facility	39	O	No	No
Bed Status	40	O	No	No
Account Status	41	O	Yes	Yes
Pending Location	42	O	No	No
Prior Temporary Location	43	O	No	No
Admit Date/Time	44	O	Yes	Yes
Discharge Date/Time	45	O	Yes	Yes
Current Patient Balance	46	O	No	No
Total Charges	47	O	No	No
Total Adjustments	48	O	No	No
Total Payments	49	O	No	No
Alternate Visit ID	50	O	No	No
Visit Indicator	51	O	No	No
Other Healthcare Provider	52	O	No	No

6.4 Observation Request (OBR)

Table 6-4 shows which OBR fields are supported, required or optional and which fields from the OBR segment are used by MM.

Table 6-4 Observation Request (OBR) Segment Supported Fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Set ID OBR	1	C	Yes	Yes
Placer Order Number	2	C	Yes	Yes (Used for order-based submission)
Filler Order Number	3	C	Yes	Yes (Used for order-based submission)
Universal Service Identifier	4	R	Yes	Yes
Priority (ID)	5	O	No	No
Requested Date/Time	6	O	No	No
Observation Date/Time	7	C	Yes	Yes
Observation End Date/Time	8	O	No	No
Collection Volume	9	O	No	No
Collector Identifier	10	O	No	No
Specimen Action Code	11	O	No	No
Danger Code	12	O	No	No
Relevant Clinical Information	13	O	No	No
Specimen Received Date/Time	14	C	No	No
Specimen Source	15	O	No	No
Ordering Provider	16	O	Yes	Yes
Order Callback Phone Number	17	O	No	No
Placer Field 1	18	O	No	No
Placer Field 2	19	O	No	No
Filler Field 1	20	O	No	No
Filler Field 2	21	O	Yes	Yes (Used for order-based submission)
Results Rpt/Status Chng - Date/Time	22	C	No	No
Charge to Practice	23	O	No	No
Diagnostic Serv Sect ID	24	O	No	No
Result Status	25	C	No	No
Parent Result	26	O	No	No
Quantity/Timing	27	O	No	No
Result Copies To	28	O	No	No

Parent	29	O	No	No
Transportation Mode	30	O	No	No
Reason for Study	31	O	No	No
Principal Result Interpreter	32	O	No	No
Assistant Result Interpreter	33	O	No	No
Technician	34	O	No	No
Transcriptionist	35	O	No	No
Scheduled Date/Time	36	O	No	No
Number of Sample Containers *	37	O	No	No
Transport Logistics of Collected Sample	38	O	No	No
Collector's Comment *	39	O	No	No
Transport Arrangement Responsibility	40	O	No	No
Transport Arranged	41	O	No	No
Escort Required	42	O	No	No
Planned Patient Transport Comment	43	O	No	No

6.5 Observation Result (OBX)

Table 6-5 shows which OBX fields are supported, required or optional and which fields from the OBR segment are used by MM.

Table 6-5 OBX supported segment fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
Set ID OBX	1	O	Yes	Yes
Value Type	2	C	Yes	Yes
Observation Identifier	3	R	Yes	Yes
Observation Sub-ID	4	C	No	No
Observation Value	5	C	Yes	Yes
Units	6	O	No	No
References Range	7	O	No	No
Abnormal Flags	8	O	No	No
Probability	9	O	No	No
Nature of Abnormal Test	10	O	No	No

Observation Result Status	11	R	Yes	Yes
Date Last Obs Normal Values	12	O	No	No
User Defined Access Checks	13	O	No	No
Date/Time of the Observation	14	O	No	No
Procedure's ID	15	O	No	No
Responsible Observer	16	O	No	No
Observation Method	17	O	No	No

6.6 Error (ERR)

The ERR segment is used to add error details to the acknowledgment messages. System will return Error code "205", Severity with "E" and Diagnostic Information as 'Descriptive text for the field(s) causing the error.'

Table 6-6 supported error segment fields

Field Name	Sequence	HL7 Requirement	Required by MM	Used by MM
HL7 Error Code	3	R	No	Yes
Severity	4	O	No	Yes
Diagnostic Information	7	O	No	Yes

6.7 Supported Acknowledgement Codes

Table 6-7 supported acknowledge codes

Code	Description	Comment
AA	Original mode: Application Accept - Enhanced mode: Application acknowledgment: Accept	PIX/PDQ Query accepted
AE	Original mode: Application Error - Enhanced mode: Application acknowledgment: Error	PIX/PDQ Query error
AR	Original mode: Application Reject - Enhanced mode: Application acknowledgment: Reject	PIX/PDQ Query Rejected

7 Supported Field Types

This chapter defines which field types are recognized by the MM.

Table 7-1 supported field types

Field Type
CE
CM_MSG
CM_NDL
CM_PRL
CX
EI
HD
ID
IS
NM
PT
RP
SI
ST
TS
TS
XCN
XPN

8 Network Interface

8.1 Lower Layer Network Protocol

MM supports the HL7 Minimal Lower Layer Protocol using TCP/IP.

8.2 IPv4 and IPv6 Support

This product supports IPv4.

8.3 Configuration

The configuration of the MM HL7 services can be changed. The mechanism how to change the configuration is documented in the Media Manager Service and Administration Manual. Only accounts with the right level of security will be able to change the configuration; support personnel will typically do this.

8.3.1 Parameters

The following general parameters are configurable for MM HL7 Hosts:

Table 8-1 configuration parameters

Name	Default Value	Description
hl7NotificationIpAddress	None	IP address of destination that receives HL7 message as a notification.
port	None	Port number of destination that receives HL7 notifications from Media Manager.
isSecured	True	Communication with the HL7 destination is secured (TLS). Mutual TLS is used for secured communication with bidirectional certificate validation. False: Communication with HL7 destination is unsecured.
sourceCertificateCom-commonName	None	Certificate name used by Media Manager to secure the communication channel with the HL7 destination.
hl7ListenerCertificate-CommonName	None	Certificate name used by the HL7 destination to secure the communication channel
disableServerCertificate-HostNameValidation	False	Secured communication fails if a mismatch occurs between names.
disableAllServerCertificateValidations	False	Secured communication fails if certificate errors occur.
tlsProfile	IetfBcp195	IetfBcp195 (default) = Tries to negotiate TLS 1.2. Allows degradation to TLS 1.1 and 1.0. Conforms to IETF BCP 195 (RFC 7525) Recommendations for Secure Use of Transport Layer Security (TLS) and Datagram Transport Layer Security (DTLS).

		StandardSslStream = Tries to negotiate TLS 1.2. Allows degradation to TLS 1.1 and 1.0. Uses unmodified SSL stream behavior based on Windows Cipher Suites (Windows Defaults).
Send Timeout	5 seconds	The amount of time after which Send call will time out.
Receive Timeout	5 seconds	The amount of time after which Receive acknowledge will time out.
MaxNotificationRetryAttempts	3	System retries the number of time to send notification if it fails
DelayBetweenAttemptsInMilliseconds Tag	2000	Delay between each retry.

8.4 Secure Transport

The Table below lists the secure transport connections cipher suites supported for TLS 1.2

Table 8-2 supported cipher suites

Cipher Suite	Default Preference Order (from 1=preferred to n=less preferred)
TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384	1
TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256	2
TLS_DHE_RSA_WITH_AES_256_GCM_SHA384	3
TLS_DHE_RSA_WITH_AES_128_GCM_SHA256	4

