

eGateway Integration Manager

HL7 Reference Manual



Software Version: v7.0.0

© Copyright 2011-2019 Shenzhen Mindray Bio-Medical Electronics Co., Ltd.

All right reserved.


For this manual, the issue date is January 2019(Version:18.0).

Intellectual Property Statement

SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD. (hereinafter called Mindray) owns the intellectual property rights to this Mindray product and this manual. This manual may refer to information protected by copyright or patents and does not convey any license under the patent rights or copyright of Mindray, or of others.

Mindray intends to maintain the contents of this manual as confidential information. Disclosure of the information in this manual in any manner whatsoever without the written permission of Mindray is strictly forbidden.

Release, amendment, reproduction, distribution, rental, adaptation, translation or any other derivative work of this manual in any manner whatsoever without the written permission of Mindray is strictly forbidden.

mindray ,  and **MINDRAY** are the trademarks, registered or otherwise, of Mindray in China and other countries. All other trademarks that appear in this manual are used only for informational or editorial purposes. They are the property of their respective owners.

Responsibility on the Manufacturer Party

Contents of this manual are subject to change without prior notice.

All information contained in this manual is believed to be correct. Mindray shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual.

Mindray is responsible for the effects on safety, reliability and performance of this product, only if:

- all installation operations, expansions, changes, modifications and repairs of this product are conducted by Mindray authorized personnel;
- the electrical installation of the relevant room complies with the applicable national and local requirements; and
- the product is used in accordance with the instructions for use.

NOTE

This equipment must be operated by skilled/trained clinical professionals.



WARNING

It is important for the hospital or organization that employs this equipment to carry out a reasonable service/maintenance plan. Neglect of this may result in machine breakdown or personal injury.

Warranty

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Exemptions

Mindray's obligation or liability under this warranty does not include any transportation or other charges or liability for direct, indirect or consequential damages or delay resulting from the improper use or application of the product or the use of parts or accessories not approved by Mindray or repairs by people other than Mindray authorized personnel.

This warranty shall not extend to

- Malfunction or damage caused by improper use or man-made failure.

- Malfunction or damage caused by unstable or out-of-range power input.

- Malfunction or damage caused by force majeure such as fire and earthquake.

- Malfunction or damage caused by improper operation or repair by unqualified or unauthorized service people.

- Malfunction of the instrument or part whose serial number is not legible enough.

- Others not caused by instrument or part itself.

Contact Information

Manufacturer: Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Address: Mindray Building, Keji 12th Road South, High-tech industrial park, Nanshan, Shenzhen 518057, P.R. China
Website: www.mindray.com
Tel: +86 755 81888998
Fax: +86 755 26582680

Distributor(North America): Mindray DS USA, Inc.
Address: 800 MacArthur Boulevard Mahwah, New Jersey 07430 USA
Tel: 1.800.288.2121, 1.201.995.8000
Website: www.mindray.com

EC-Representative: Shanghai International Holding Corp. GmbH (Europe)
Address: Eiffestraße 80, 20537 Hamburg, Germany
Tel: 0049-40-2513175
Fax: 0049-40-255726

Preface

Manual Purpose

This manual contains the instructions necessary to operate the product safely and in accordance with its function and intended use. Observance of this manual is a prerequisite for proper product performance and correct operation and ensures patient and operator safety.

This manual is based on the maximum configuration and therefore some contents may not apply to your product. If you have any question, please contact us.

This manual is an integral part of the product. It should always be kept close to the equipment so that it can be obtained conveniently when needed.

Intended Audience

This manual is geared for clinical professionals who are expected to have a working knowledge of medical procedures, practices and terminology as required for monitoring of critically ill patients.

Illustrations

All illustrations in this manual serve as examples only. They may not necessarily reflect the setup or data displayed on your patient monitor.

Conventions

Italic text is used in this manual to quote the referenced chapters or sections.

The terms danger, warning, and caution are used throughout this manual to point out hazards and to designate a degree or level of seriousness.

Table of Contents

1	Overview	5
2	Transport Layer	5
3	Encoding	5
4	Interfaces.....	6
4.1	Types	6
4.1.1	Results	6
4.1.2	Alert	6
4.1.3	ADT	7
4.1.4	High Resolution Result.....	7
4.1.5	High Resolution Alert.....	7
4.1.6	Document Sharing	7
4.2	Common Components	9
4.2.1	Data Types	9
4.2.2	Segments	9
4.2.3	Messages	13
4.3	Results Interfaces	19
4.3.1	Unsolicited Client.....	19
4.3.2	Unsolicited Server.....	35
4.3.3	Solicited Server	36
4.3.4	Solicited Client/Server	50
4.3.5	File	51
4.4	Alert Interface	60
4.4.1	Message definitions.....	60
4.5	ADT Interfaces	90
4.5.1	ADT Feed.....	90
4.5.2	ADT Query	114
4.6	High Resolution Result	143

4.6.1	Message definitions.....	143
4.7	High Resolution Alert	162
4.7.1	Message definitions.....	162
4.8	Document Sharing.....	181
4.8.1	MDM with Reference	181
4.8.2	MDM with Content.....	189
4.8.3	ORU.....	198
5	Data Definitions.....	206
5.1	Parameters.....	206
5.2	Waveforms.....	274
5.3	Snippet Waveforms.....	277
5.4	Units of Measure.....	284
5.5	Locations	290
5.6	Enumerations	294
5.6.1	Level of Consciousness	294
5.6.2	Body Position	294
5.6.3	Oxygen Source	295
5.6.4	Source	295
5.6.5	Boolean.....	296
5.6.6	QTC Formula Type	296
5.6.7	Pain	297
5.6.8	AVPU Score	297
5.6.9	Ventilation Mode.....	298
5.6.10	Anesthesia Info.....	299
5.6.11	Test	300
5.7	Alarms	300
5.8	Containment Tree	374
6	Sample Messages	379
6.1	Unsolicited Client and Unsolicited Server Results	379

6.1.1	Results Message	379
6.1.2	Results Acknowledgement	379
6.2	Solicited Server Results	379
6.2.1	Query Message based on Patient ID	379
6.2.2	Query Reply Message	379
6.2.3	Query Results Message	380
6.2.4	Query Results Reply Message	380
6.2.5	Query Message based on Visit Number	380
6.3	File Query	380
6.3.1	Query Message based on Patient ID	380
6.3.2	Query Reply Message	381
6.3.3	Query Data File Content	381
6.3.4	Query Message based on Visit Number	382
6.4	Alert.....	382
6.4.1	Alert Message	382
6.4.2	Alert Acknowledgement.....	383
6.5	ADT.....	384
6.5.1	ADT Feed.....	384
6.5.2	ADT Query	394
6.6	High Resolution Result	396
6.6.1	Result Parameter Message.....	396
6.6.2	Result Waveform Message.....	396
6.6.3	Result Acknowledgement.....	399
6.7	High Resolution Alert	399
6.7.1	Alert Message	399
6.7.2	Alert Acknowledgement.....	400
6.8	A Series.....	400
6.8.1	Message.....	400
6.9	Document Sharing.....	401

6.9.1	MDM with Reference Message	401
6.9.2	MDM with Content Message	401
6.9.3	ORU with Reference Message	401
6.9.4	ORU with Content Message	401

1 Overview

This document specifies the 3rd party interfaces used by the Mindray eGateway version 7.0.

The eGateway receives data from Mindray devices and converts it into standards based protocols to interface with 3rd party systems. The majority of the interfaces use HL7, some use XML.

This document defines the default interface configurations of the eGateway. The eGateway is highly configurable and can have its output altered to meet the needs of different 3rd party systems. This mapping and configuration is performed by Mindray's service team.

2 Transport Layer

The eGateway uses HL7 over TCP for communicating with 3rd party devices. Depending on the interface it will act as a client, a server, or in some cases both.

In order to delineate the HL7 messages in the TCP stream, the eGateway use the Minimum Lower Layer Protocol (MLLP) specified by HL7 to frame its message. MLLP uses the following format:

<SB>	HL7 Message Data	<EB>	<CR>
------	------------------	------	------

Where:

Element	Length (Bytes)	Description
<SB>	1	Start Block character, represented by value of 0x0B
HL7 Message Data	Variable	This can contain any single byte value greater than 0x1F, and the byte value of 0x0D (ASCII Carriage Return)
<EB>	1	End Block character, represented by the value of 0x1C
<CR>	1	Carriage Return, represented by the value of 0x0D

3 Encoding

By default the eGateway sends UTF-8 encoded HL7 messages and expects to receive UTF-8 encoded HL7 messages. This can be changed to ASCII if necessary.

4 Interfaces

The eGateway supports multiple interfaces to support the different needs of the systems it is sharing data with. This section describes the messaging associated with the supported formats.

4.1 Types

4.1.1 Results

Results interfaces are used to send patient observational data from bedside devices to a remote system. The eGateway supports multiple result interface types. Up to 5 interfaces of any combinations of modes can be active at one time.

Interface Mode	Description
Unsolicited Client	The eGateway will connect to a remote system over TCP and send data at a configured interval.
Unsolicited Server	A remote system will connect to the eGateway over TCP and then the eGateway will send data at a configured interval until the remote system disconnects.
Solicited Server	A remote system will connect to the eGateway over TCP and send messages to request data from the eGateway. The eGateway will send the reply on the same connection.
Solicited Client/Server	A remote system will connect to the eGateway over TCP and send messages to request data from the eGateway. The eGateway will send the reply over a separate TCP connection that is initiated by the eGateway.
File	A remote system will connect to the eGateway over TCP and send messages to request data from the eGateway. The eGateway will generate a file containing the HL7 reply and send a message to the requesting system with the Location of the generated file. This mode is used by Meditech® Client/Server systems

The eGateway expects to receive an acknowledgement for each results message it sends. By default the eGateway will try to resent the message 1 time if an acknowledgment is not received in 15 seconds.

The available settings are specified in the table below:

Setting	Default	Range
Timeout Interval	15 seconds	5 - 60 seconds
Maximum Retry Count	1	0 - 3

4.1.2 Alert

Alert interfaces are used to send patient/device alarm information from monitoring devices to a remote system. The eGateway support one alert interface mode. Up to 3 alert interfaces can be active

at one time. The alert interface is an unsolicited interface over TCP where the eGateway will send alert messages as they occur.

The eGateway expects to receive an acknowledgement for each alert message. By default the eGateway will try to resent the alert 1 time if an acknowledgment is not received in 15 seconds.

The available settings are specified in the table below:

Setting	Default	Range
Timeout Interval	15 seconds	5 - 60 seconds
Maximum Retry Count	1	0 - 3

4.1.3 ADT

The ADT interface is used to collect patient demographics and location information from the ADT system to make it available to bedside devices. The eGateway has two types of ADT interface modes. Only one interface can be active at one time.

Interface Mode	Description
Feed	A remote system will connect to the eGateway over TCP and send ADT messages as changes occur in the ADT database. Up to two ADT feeds can be connected simultaneously to the eGateway.
Query	The eGateway will connect to the remote system and send queries for patient information as needed.

4.1.4 High Resolution Result

High resolution result interface is used to send patient observational parameters and waveforms from bedside devices to a remote system.

The eGateway support one high resolution result interface mode. Only 1 high resolution result interface can be active at one time. The eGateway will connect to a remote system over TCP and send parameters at a configured interval and waveforms per second.

4.1.5 High Resolution Alert

High resolution alert interface is used to send patient/device alarm information from monitoring devices to a remote system.

The eGateway support one high resolution alert interface mode. Only 1 high resolution alert interface can be active at one time. The high resolution alert interface is an unsolicited interface over TCP where the eGateway will send alert messages as they occur.

4.1.6 Document Sharing

Document sharing interface is used to send document to a remote system. There are 5 work modes.

Interface Mode	Description
File Copy	Documents generated by the system will be placed in a shared directory on the eGateway for the remote system to pick up.
MDM with Reference	The eGateway will send the document path in an HL7 message over the active Document Sharing Channel. And the documents will be placed in a shared directory on the eGateway for the remote system to pick up.
MDM with Content	The eGateway will send the document content in an HL7 message over the active Document Sharing Channel.
ORU with Reference	The eGateway will send the document path in an HL7 message over the active Document Sharing Channel. And the documents will be placed in a shared directory on the eGateway for the remote system to pick up.
ORU with Content	The eGateway will send the document content in an HL7 message over the active Document Sharing Channel.

4.2 Common Components

4.2.1 Data Types

4.2.1.1 Date/Time (DTM)

The data and time shall be represented in the following format:

YYYYMMDD[HHmmSS[.ssss]]][+/-ZZZZ]. Thus:

YYYY = year

MM = month

DD = day

HH = hours

mm = minutes

SS = seconds

ssss = 1/10 of a millisecond

The time zone (+/-ZZZZ) is represented as +/-HHmm offset from Coordinated Universal Time (UTC), where +0000 or -0000 both represent UTC (without offset). The specific data representations used in the HL7 encoding rules are compatible with ISO 8824-1987(E).

4.2.2 Segments

4.2.2.1 SFT Segment

The SFT segment contains information about the sending software. When sent by the eGateway it contains information about the eGateway's software version. The eGateway ignores this segment on received messages though it can be used to aid in trouble shooting.

Table 1 SFT Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	567	XON	R	[1..1]		Software Vendor Organization
2	15	ST	R	[1..1]		Software Certified Version or Release Number
3	20	ST	R	[1..1]		Software Product Name
4	20	ST	X	[0..0]		Software Binary ID

4.2.2.1.1 SFT-1 Software Vendor Organization (XON)

SFT-2 contains "Mindray" in messages sent by the eGateway.

4.2.2.1.2 SFT-2 Software Certified Version or Release Number (ST)

SFT-2 contains the eGateway's version number in messages sent by the eGateway.

4.2.2.1.3 SFT-3 Software Product Name (ST)

SFT-3 contains "eGateway" in messages sent by the eGateway.

4.2.2.2 ERR Segment

The ERR segment contains information about message error. This segment will only be sent by the eGateway when an error occurs. The eGateway ignores this segment on received messages though it can be used to aid in trouble shooting.

Table 2 ERR Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	493	ELD	X	[0..0]		Error Code and Location
2	18	ERL	O	[0..*]		Error Location
3	705	CWE	R	[1..1]	0357	HL7 Error
4	2	ID	R	[1..1]	0516	Severity

4.2.2.2.1 ERR-1 Error Code and Location (ELD)

The eGateway does not support this field when sending messages. It is ignored on received messages.

4.2.2.2.2 ERR-2 Error Location (ERL)

The eGateway does not support this field when sending messages.

4.2.2.2.3 ERR-3 HL7 Error (CWE)

The eGateway will populate this field with a code found in the HL7 Table 0357 based on the nature of the error.

Table 3 HL7 Table 0357 - Message Error Condition Codes

Value	Description	Comment
0	Message accepted	Success. Optional, as the AA conveys success. The eGateway will never send this value. It will accept it if it is received.
100	Segment sequence error	Error: The message segments were not in the proper order, or required segments are missing.
101	Required field missing	Error: A required field is missing from a segment
102	Data type error	Error: The field contained data of the wrong data type, e.g. an NM field contained "FOO".
103	Table value not found	Error: A field of data type ID or IS was compared against the corresponding table, and no match was found.
200	Unsupported message type	Rejection: The Message Type is not supported.
201	Unsupported event code	Rejection: The Event Code is not supported.
202	Unsupported processing id	Rejection: The Processing ID is not supported.
203	Unsupported version id	Rejection: The Version ID is not supported.
204	Unknown key identifier	Rejection: The ID of the patient, order, etc., was not found. Used for transactions other than additions, e.g. transfer of a non-existent patient.

Value	Description	Comment
205	Duplicate key identifier	Rejection: The ID of the patient, order, etc., already exists. Used in response to addition transactions (Admit, New Order, etc.).
206	Application record locked	Rejection: The transaction could not be performed at the application storage level, e.g., database locked.
207	Application internal error	Rejection: A catchall for internal errors not explicitly covered by other codes.

4.2.2.2.4 ERR-4 Severity (ID)

ERR-4 contains the severity of the error. The values used are found in the HL7 Table 0516.

Table 4 HL7 Table 0516 - Error Severity

Value	Description	Comment
W	Warning	Transaction successful, but there may issues
I	Information	Transaction was successful but includes information e.g., inform patient
E	Error	Transaction was unsuccessful
F	Fatal Error	Message not processed due to application or network failure condition

4.2.2.3 MSA Segment

The MSA segment contains information sent while acknowledging another message.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	2	ID	R	[1..1]	0008	Acknowledgement Code
2	20	ST	R	[1..1]		Message Control ID
3	80	ST	X	[0..0]		Text Message
4		NM	X	[0..0]		Expected Sequence Number
5	1	ST	X	[0..0]		Delayed Acknowledgement Type
6	250	CE	X	[0..0]		Error Condition

4.2.2.3.1 MSA-1 Acknowledgement Code (ID)

MSA-1 contains one of the codes found in HL7 Table 0008 based on the results of processing a received message.

Table 5 HL7 Table 0008 Acknowledgement Codes

Value	Meaning	Comment
AA	Application Accept	The eGateway accepts and sends this value

Value	Meaning	Comment
AE	Application Error	The eGateway accepts this value and sends it on these types of message error: Unknown key identifier Duplicate key identifier Application record locked Application internal error
AR	Application Reject	The eGateway accepts this value and sends it on these types of message issues: Segment sequence error Required field missing Data type error Table value not found Value too long Unsupported message type Unsupported event code Unsupported processing id Unsupported version id
CA	Commit Accept	The eGateway accepts this value but will not send it.
CE	Commit Error	The eGateway accepts this value but will not send it.
CR	Commit Reject	The eGateway accepts this value but will not send it.

4.2.2.3.2 MSA-2 Message Control ID (ST)

MSA-2 shall contain the message Control ID from MSH-10 of the message being responded to.

4.2.2.4 OBR segment

Table 6 OBR Observation Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBR
2	427	EI	R	[1..1]		Placer Order Number
3	427	EI	R	[1..1]		Filler Order Number
4	705	CWE	R	[1..1]		Universal Service Identifier
5	2	ID	X	[0..0]		Priority - OBR
6	24	DTM	X	[0..0]		Request Date/Time

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
7	24	DTM	R	[1..1]		Observation Date/Time

4.2.2.4.1 OBR-1 Set ID – OBR (SI)

OBR-1 shall contain an integer that is incremented by one for each successive OBR segment in the message.

4.2.2.4.2 OBR-2 Placer Order Number (EI)

4.2.2.4.2.1 OBR-2.1 Entity Identifier

OBR-2.1 shall contain the value in MSH-10

4.2.2.4.3 OBR-2.2 Namespace ID

OBR-2.2 shall contain the value in MSH-3.1

4.2.2.4.4 OBR-2.3 Universal ID

OBR-2.3 shall contain the value in MSH-3.2

4.2.2.4.5 OBR-2.4 Universal ID Type

OBR-2.3 shall contain the value in MSH-3.3

4.2.2.4.6 OBR-3 Filler Order Number (EI)

OBR-3 shall be populated with the same value as OBR-2

4.2.2.4.7 OBR-4 Universal Service Identifier (CWE)

OBR-4 shall be populated with one of the values found in the table below based on the type of data contained in the OBR data block.

Table 7 OBR-4 values

Value	OBR Data Block Type
182777000^monitoring of patient^SCT	Parameter Data
BOUNDED WAVEFORMS	Waveform Snippets
196616^MDC_EVT_ALARM^MDC	Alert Data

4.2.2.4.8 OBR-7 Observation Date/Time Start Time (DTM)

This field identifies the time of the observation data was measured.

4.2.3 Messages

4.2.3.1 Received Acknowledgement

This is the format the eGateway will expect from a remote system in acknowledgement of a message sent.

4.2.3.1.1 ACK^W01 structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]

[SFT]	Software Segment	RE	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.2.3.1.2 MSH Segment

The Unsolicited Results Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	TS	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.2.3.1.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.2.3.1.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.2.3.1.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the acknowledging application.

4.2.3.1.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the acknowledging application.

4.2.3.1.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the Data Message.

4.2.3.1.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the Data Message.

4.2.3.1.2.7 MSH-7 Date/Time of Message (DTM)

MSH-6 shall contain the time the acknowledgement message was sent.

4.2.3.1.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with the appropriate message type. Interfaces using the common acknowledgement will specify this value.

4.2.3.1.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.2.3.1.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.2.3.1.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.2.3.1.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.2.3.1.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.2.3.1.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.2.3.1.3 SFT Segment

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. The eGateway ignores this segment in an acknowledgement. It is useful for trouble shooting.

4.2.3.1.4 MSA Segment

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.2.3.1.5 ERR Segment

This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. The eGateway ignores this segment. If the acknowledger returns an error code in the MSA segment, this segment should be included to aid trouble shooting.

4.2.3.2 Heart Beat Message (ZHB^Z01^ZHB_Z01)

This is a message sent by the interface to indicate that it is still up and running. It does not expect an acknowledgement from the receiving system. The rate at which the heart beat message is sent can be configured by the user.

4.2.3.2.1 ZHB^Z01^ZHB_Z01Structure

Table 8 ZHB^Z01^ZHB_Z01 Heart Beat Message Definition

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]

4.2.3.2.2 MSH Segment

The Heart Beat message uses the following MSA segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	TS	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
21	427	EI	X			Message Profile Identifier

4.2.3.2.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator. Applications must be prepared to handle non-standard field separators when received.

4.2.3.2.2.2 MSH-2 Encoding Characters (ST)

Mindray shall use the standard HL7 encoding character.

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.2.3.2.2.3 MSH-3 Sending Application (HD)

This field shall contain “eGateway^00A0370027XXXXXX^EUI-64”, where XXXXXX is the serial number of the eGateway.

4.2.3.2.2.4 MSH-4 Sending Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.2.3.2.2.5 MSH-5 Receiving Application (HD)

This field shall be based on the installations requirements. By default it is empty.

4.2.3.2.2.6 MSH-6 Receiving Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.2.3.2.2.7 MSH-7 Date/Time of Message (DTM)

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.2.3.2.2.8 MSH-9 Message Type (MSG)

This field shall be populated with “ZHB^Z01^ZHB_Z01”.

4.2.3.2.2.9 MSH-10 Message Control ID (ST)

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.2.3.2.2.10 MSH-11 Message Processing ID (PT)

This field shall be populated with "P" for production.

4.2.3.2.2.11 MSH-12 Version ID (VID)

This field shall be populated with "2.6".

4.2.3.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

This field shall be populated with "NE".

4.2.3.2.2.13 MSH-16 Application Acknowledgement Type (ID)

This field shall be populated with "NE".

4.2.3.2.2.14 MSH-18 Character Set (ID)

This field shall be populated with "UNICODE UTF-8"

4.2.3.2.3 [SFT Segment](#)

This segment follows the common Software Segment definition found in section 4.2.2.1 *SFT Segment*.

4.3 Results Interfaces

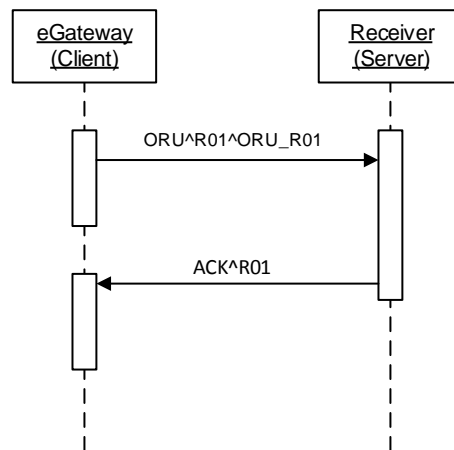
Results interfaces are used to acquire patient parameters from monitoring devices.

4.3.1 Unsolicited Client

The Unsolicited Client interface sends data to the receiving system in an unsolicited mode. The eGateway is responsible to initiating the connection to the receiver's TCP server socket. Once the connection is established it will begin sending results data at a configured interval. Data will continue to be send until the eGateway's interface is closed down by the user.

4.3.1.1 Message definitions

The eGateway will send data messages periodically to the receiving system. The receiving system is expected to send a reply to acknowledge the reception of the message.



4.3.1.1.1 Data Message (ORU^R01^ORU_R01)

4.3.1.1.1.1 ORU^R01^ORU_R01 Structure

Table 9 ORU^R01^ORU_R01 Message Definition

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
{	--- PATIENT RESULT begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- VISIT begin		
PV1	Patient Visit	R	[1..1]
]	--- VISIT end		

Segment	Meaning	Usage	Cardinality
]	--- PATIENT end		
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[1..1]
{	--- OBSERVATION begin	R	[1..N]
OBX	Observation Result	R	[1..1]
}	--- OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

4.3.1.1.1.2 MSH Segment

The Unsolicited Results message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
						Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.3.1.1.1.2.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.3.1.1.1.2.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.3.1.1.1.2.3 *MSH-3 Sending Application (HD)*

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.3.1.1.1.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.1.1.1.2.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.1.1.1.2.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.1.1.1.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.3.1.1.1.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ORU^R01^ORU_R01" in a Data Message.

4.3.1.1.1.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.3.1.1.1.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.3.1.1.1.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.3.1.1.1.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.3.1.1.1.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.3.1.1.1.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.3.1.1.1.2.15 *MSH-21 Message Profile Identifier (EI)*

This field shall be populated with "IHE_PCD_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO".

4.3.1.1.1.3 *SFT Segment*

This segment follows the common Software Segment definition found in section 4.2.2.1 *SFT Segment*. By default this segment is not sent in the message.

4.3.1.1.1.4 *PID Segment*

The PID segment for the Data Message follows the common PID segment definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID
2	20	IS	X	[0..0]		Patient ID
3	250	CX	R	[1..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XP	R	[1..1]		Patient Name
6	250	XP	X	[0..0]		Mother's Maiden Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
19	16	ST	O	[0..1]		SSN Number - Patient

4.3.1.1.1.4.1 *PID-1 Set ID – PID (SI)*

PID-1 shall be empty.

4.3.1.1.1.4.2 *PID-2 Patient ID (IS)*

PID-2 shall be empty.

4.3.1.1.1.4.3 *PID-3 Patient Identification List (CX)*

PID-3 shall contain information regarding the patient's identifying number.

4.3.1.1.1.4.3.1 *PID-3.1 ID Number (ST)*

PID-3.1 shall contain the patient ID entered into the device.

4.3.1.1.1.4.3.2 PID-3.4 Assigning Authority (ST)

PID-3.4 shall be configurable in the field, set to the devices Facility, or filled in with “Hospital”, in this order of preference.

4.3.1.1.1.4.3.3 PID-3.5 Identifier Code Type (ST)

PID-3.5 shall contain “PI”.

4.3.1.1.1.4.4 PID-4 Alternate Patient ID - PID (CX)

PID-4 shall be empty.

4.3.1.1.1.4.5 PID-5 Patient Name (XPN)

PID-5 shall contain the patient’s name if available.

4.3.1.1.1.4.6 PID-5.1.1 Family Name.Surname (ST)

PID-5.1.1 shall contain the patient’s family name if available.

4.3.1.1.1.4.7 PID-5.2 Given Name (ST)

PID-5.2 shall contain the patient’s given name if available.

4.3.1.1.1.4.8 PID-5.3 Second or Further Given Names (ST)

PID-5.3 shall contain the patient’s middle name if available.

4.3.1.1.1.4.9 PID-5.7 Name Type Code (ID)

PID-5.7 shall contain “L”.

4.3.1.1.1.4.10 PID-6 Mother’s Maiden Name (XPN)

PID-6 shall be empty.

4.3.1.1.1.4.11 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient’s date of birth if available.

4.3.1.1.1.4.12 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient’s gender from Table 10.

Table 10 HL7 Table 0001 Administrative Sex

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.3.1.1.1.4.13 PID-19 SSN Number - Patient (ST)

PID-19 shall contain the SSN of the patient if it is being used by the system.

4.3.1.1.1.5 PV1 Segment

The PV1 segment for the Data Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table #	ELEMENT NAME
1	4	SI	X			Set ID - PV1
2	1	IS	R	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	O	[0..1]	0010	Attending Doctor
8	250	XCN	O	[0..1]	0010	Referring Doctor
9	250	XCN	X		0010	Consulting Doctor
17	250	XCN	X		0010	Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
44	24	DTM	RE	[0..1]		Admit Date/Time
51	1	IS	X			Visit Indicator

4.3.1.1.1.5.1 *PV1-1 Set ID – PV1 (SI)*

PV1-1 shall be empty.

4.3.1.1.1.5.2 *PV1-2 Patient Class (IS)*

PV1-2 shall be populated with “I”.

4.3.1.1.1.5.3 *PV1-3 Assigned Location (PL)*

PV1-3 shall be populated with the patient’s assigned location.

4.3.1.1.1.5.3.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.3.1.1.1.5.3.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.3.1.1.1.5.3.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.3.1.1.1.5.3.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.3.1.1.1.5.3.5 PV1-7 Attending Doctor (XCN)

PV1-7 shall contain Attending Physician’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.3.1.1.1.5.3.6 PV1-8 Referring Doctor (XCN)

PV1-8 shall contain Referring Doctor’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.3.1.1.1.5.4 *PV1-19 Visit Number (CX)*

PV1-19 shall be populated with the visit number associated with the patient if it is available.

4.3.1.1.1.5.5 *PV1-44 Admit Date/Time (DTM)*

PV1-19 shall be populated with the patient's hospital admit time if it is available.

4.3.1.1.1.6 *Observation Data Block*

The presence of the Observation data block is indicated by an OBR segment containing "182777000^monitoring of patient ^SCT" in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.3.1.1.1.6.1 *OBR segment*

This segment follows the standard OBR segment definition defined in section 4.2.2.4 *OBR segment* with the exceptions and restrictions defined in this section.

4.3.1.1.1.6.1.1 *OBR-4 Universal Service Identifier (CWE)*

OBR-4 shall be populated with "182777000^monitoring of patient^SCT"

4.3.1.1.1.6.2 *OBX segment*

This OBX specifies an observation of the patient or state of the device.

Table 11 Observation Data OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	C	[0..1]	<u>0125</u>	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	99999	varies	C	[0..1]		Observation Value
6	250	CWE	C	[0..1]		Units
7	60	ST	CE	[0..1]		Reference Range
8	5	IS	CE	[0..2]	<u>0078</u>	Abnormality Flags
9	5	NM	X			Probability
10	2	ID	X		0080	Nature of Abnormal Test

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
11	2	ID	R	[1..1]	<u>0085</u>	Observation Result Status
12	24	DTM	X			Effective Date of Reference Range
13	20	ST	X			User Defined Access Check
14	24	DTM	RE	[0..1]		Date/Time of Observation
15	250	CWE	X			Producer's ID
16	250	XCN	RE	[0..1]		Responsible Observer
17	250	CWE	X			Observation Method
18	22	EI	RE	[0..1]		Equipment Instance Identifier
19	24	DTM	CR	[0..1]		Date/Time of Analysis
20	705	CWE	RE	[0..*]	<u>0163</u>	Observation Site

4.3.1.1.1.6.2.1 OBX-1 Set ID OBX (SI)

Mindray applications shall set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.3.1.1.1.6.2.2 OBX-2 Value Type (ID)

The OBX-2 field shall be populated using the values found in the table below. It is used to identify the data type of the OBX-5 field.

Table 12 HL7 Table 0125

Value	HL7 Data Type	Observation Type
NM	Numerical Value	Integer Value Decimal Value
ST	String Value	String Value
SN	Structured Numeric	Ratios
CNE	Coded, No Exceptions	Enumerations
<Blank>	N/A	Any Invalid Value

4.3.1.1.1.6.2.3 OBX-3 Observation Identifier (CWE)

OBX-3 shall contain the IHE Rosetta Terminology code for observations for the observation. Observation codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 5.1 *Parameters* for parameter values.

4.3.1.1.1.6.2.4 OBX-4 Observation Sub-ID (ST)

OBX-4 shall contain a M.V.C.I. containment tree format for measurement or settings.

4.3.1.1.1.6.2.5 OBX-5 Observation Value (variable)

OBX-5 shall contain the value of the observation or setting. It shall be empty for an invalid value.

4.3.1.1.1.6.2.6 OBX-6 Units (CWE)

OBX-6 shall contain the IHE Rosetta Terminology code for units of measure for the observation. Unit of measure codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 0

Units of Measure for units of measure values.

4.3.1.1.1.6.2.7 OBX-7 Reference Range (ST)

OBX-7 shall be empty.

4.3.1.1.1.6.2.8 OBX-8 Abnormal Flags (IS)

This field is used in conjunction with OBX-11 to identify the observation type. It can be repeated.

Table 13 HL7 Table 0078

Value	Observation Type
<Blank>	Valid, Confirmed by user Valid, Unconfirmed
DEMO	Demo data
INV	Invalid

“DEMO” can be a repetition field included with “INV” to support invalid demo data. For example:

| DEMO~INV |

4.3.1.1.1.6.2.9 OBX-11 Observation Result Status (ID)

This field is used in conjunction with OBX-8 to identify the observation type.

Table 14 HL7 Table 0085

Value	Observation Type
F	Valid, Confirmed by user
R	Valid, Unconfirmed
X	Invalid

4.3.1.1.1.6.2.10 OBX-14 Date/Time of Observation (DTM)

OBX-14 shall be contain the time the observation was made.

4.3.1.1.1.6.2.11 OBX-16 Responsible Observer (XCN)

OBX-16 shall be contain the ID of the Clinician responsible for verifying the measurement. This field is filled only if a clinician is associated with the measurement.

4.3.1.1.1.6.2.12 OBX-17 Observation Method (CWE)

4.3.1.1.1.6.2.12.1 OBX-17.2 Text

OBX-17.2 shall be contain the “APERIODIC” for observations that are aperiodic. Some examples of aperiodic data are NIBP, CO, PAWP, and a spot check temperature.

4.3.1.1.1.6.2.13 OBX-18 Equipment Identifier Instance

OBX-18 is populated based on the type of equipment ID. If the device has a universal EUI-64 ID then that should be used in preference to the custom Mindray device ID. Devices that send HL7 direct and not through the eGateway should use the EUI-64.

Only the first OBX in the block contains the OBX-18 value.

4.3.1.1.1.6.2.13.1 OBX-18.1

Identifier Type	Value
Custom Mindray Device ID	The custom value
EUI-64	The EUI-64 value

4.3.1.1.1.6.2.13.2 OBX-18.2

OBX-18.2 should be left blank for a EUI-64 value. For a Custom Mindray Device ID the following values are used:

Device Type	Value
Passport	Passport
Passport2	Passport_2
Passport2 with WMTS radio	Passport_2_WMTS
Spectrum	Spectrum
Spectrum with WMTS radio	Spectrum_WMTS
Spectrum OR	Spectrum_OR
V Series	V_Series
Telepack with 2.4GHz Radio	Telepack_2Point4_GHz
Telepack with WMTS radio	Telepack_WMTS
DPM	DPM
Passport V	Passport_V
V12	V12
V21	V21
Accutorr CS	Accutorr_CS
Accutorr V	Accutorr_V
NetGuard	NetGuard
Duo	Duo
Trio	Trio
DPM1	DPM1
DPM2	DPM2
DPM3	DPM3
DPM4	DPM4
DPM5	DPM5
DPM6	DPM6
DPM7	DPM7
DPM Central Station	DPM_Central_Station

Device Type	Value
Panorama Central Station	Panorama_Central_Station
A3	A3
A5	A5
A7	A7
ACCUTORR7	ACCUTORR7
A4	A4
HyperVisor VI	HyperVisor_VI
MEC1000	MEC1000
MEC2000	MEC2000
MEC509B	MEC509B
PM5000	PM5000
PM6000	PM6000
PM7000	PM7000
PM8000	PM8000
PM9000 Super	PM9000Super
PM9000 Express	PM9000Express
PM9000 Outport	PM9000Outport
PM9300	PM9300
PM9303	PM9303
102b	102b
TMS6016	TMS6016
VS800	VS800
CMS+ devices	Beneview
AG	AG
IPM9800	IPM9800
INTREPID	INTREPID
Valiant	Valiant
DPM_SZ	DPM_SZ
BeneHeart	BeneHeart
VS900	VS900
T1	T1
T1 Dock	T1_Dock
N Series	BIG_DIPPER
TD60	DUBHE_608M

Device Type	Value
HyperVisor_VII	HyperVisor_VII
HyperVisor WorkStation	HyperVisor_WorkStation
HyperVisor ViewStation	HyperVisor_ViewStation
TM80	DUBHE_WIFI
N Series via CMS	BIG_DIPPER_Translator
TM80 via CMS	DUBHE_WIFI_Translator
SV300	SV300
SV350	SV350
SV600	SV600
SV650	SV650
SV800	SV800
SV850	SV850

4.3.1.1.1.6.2.13.3 OBX-18.3

Identifier Type	Value
Custom Mindray Device ID	"mindray.com"
EUI-64	The EUI-64 value

4.3.1.1.1.6.2.13.4 OBX-18.4

Identifier Type	Value
Custom Mindray Device ID	"DNS"
EUI-64	"EUI-64"

4.3.1.1.1.6.2.13.5 OBX-20 Observation Site

This field is can be used to identify the observation site of a value if the site is not fully specified by the OBX-3 value.

OBX-30 shall use the IHE Rosetta Terminology codes for observation sites. Observation site codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 0

Locations for locations values.

In some cases this field can be repeated.

4.3.1.1.2 Unsolicited Data Message Acknowledgement (ACK^R01)

4.3.1.1.2.1 ACK^R01 Structure

This message is expected as an acknowledgement to the ORU^R01^ORU_R01 message sent by the eGateway.

Table 15 ACK^R01 Acknowledgement Message Definition

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.3.1.1.2.2 MSH Segment

The Unsolicited Results Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.1.1.2.2.1 *MSH-1 Field Separator (ST)*

MSH-1 shall contain the field separator used in the message.

4.3.1.1.2.2.2 *MSH-2 Encoding Characters (ST)*

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.3.1.1.2.2.3 *MSH-3 Sending Application (HD)*

MSH-3 shall contain the sending application identifier for the acknowledging application.

4.3.1.1.2.2.4 *MSH-4 Sending Facility (HD)*

MSH-4 shall contain the sending facility identifier for the acknowledging application.

4.3.1.1.2.2.5 *MSH-5 Receiving Application (HD)*

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the Data Message.

4.3.1.1.2.2.6 *MSH-6 Receiving Facility (HD)*

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the Data Message.

4.3.1.1.2.2.7 *MSH-7 Date/Time of Message (DTM)*

MSH-6 shall contain the time the acknowledgement message was sent.

4.3.1.1.2.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ACK^R01^ACK" in a Data Acknowledgement message.

4.3.1.1.2.2.9 *MSH-10 Message Control ID (ST)*

MSH-10 shall be populated with a unique identifier for this message

4.3.1.1.2.2.10 *MSH-11 Message Processing ID (PT)*

MSH-11 shall be populated with "P" for production.

4.3.1.1.2.2.11 *MSH-12 Version ID (VID)*

MSH-12 shall be populated with "2.6".

4.3.1.1.2.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

MSH-15 should be populated with "NE" or be empty.

4.3.1.1.2.2.13 *MSH-16 Application Acknowledgement Type (ID)*

MSH-16 should be populated with "NE" or be empty.

4.3.1.1.2.2.14 *MSH-18 Character Set (ID)*

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.3.1.1.2.3 *SFT Segment*

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. The eGateway ignores this segment.

4.3.1.1.2.4 *MSA Segment*

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.3.1.1.2.5 *ERR Segment*

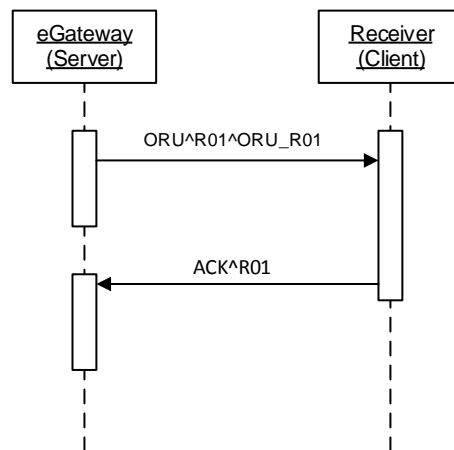
This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. The eGateway ignores this segment. If the acknowledger return an error code in the MSA segment, this segment should be included to aid debugging.

4.3.2 Unsolicited Server

The Unsolicited Server interface is identical to the Unsolicited Client interface except that it is the responsibility of the receiving device to establish the connection. Once the receiving device connects to the eGateway's TCP server socket the eGateway will send results data at the configured interval. When the receiver disconnects, the eGateway will stop sending data.

4.3.2.1 Message definitions

The eGateway will send data messages periodically to the receiving system. The receiving system is expected to send a reply to acknowledge the reception of the message.

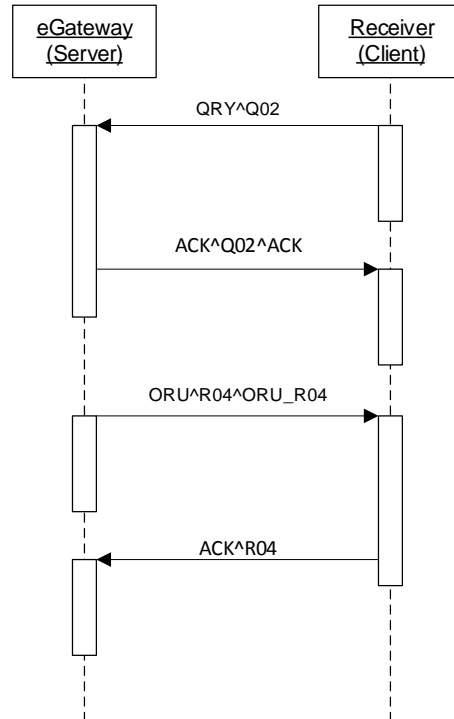


The messages used by the Unsolicited Server interface are identical to those used by the Unsolicited Client interface. Please refer to section 4.3.1 *Unsolicited Client* for details on the HL7 messages.

4.3.3 Solicited Server

In this interface the user queries the eGateway for results data.

4.3.3.1 Message definitions



4.3.3.1.1 Query Message (QRY^Q02)

This is the query sent to the eGateway requesting results data. The query can include any combination of Patient ID, Visit Number, Assigned location (Facility, Point-of-Care, Room, and Bed), Given Name, Surname, and Social Security Number to select the data. The matching for the fields is case sensitive and requires the whole field to be identical to match.

4.3.3.1.1.1 QRY^Q02 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
QRD	Original Style Query Definition	R	[1..1]
QRF	Original Style Query Filter	RE	[0..1]

4.3.3.1.1.2 MSH Segment

The Solicited Results Query message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.3.1.1.2.1 *MSH-1 Field Separator (ST)*

MSH-1 shall contain the field separator used in the message.

4.3.3.1.1.2.2 *MSH-2 Encoding Characters (ST)*

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.3.3.1.1.2.3 *MSH-3 Sending Application (HD)*

MSH-3 shall contain the sender's application identifier.

4.3.3.1.1.2.4 *MSH-4 Sending Facility (HD)*

MSH-4 shall contain the sender's facility identifier.

4.3.3.1.1.2.5 *MSH-5 Receiving Application (HD)*

MSH-5 should contain the eGateway's application ID. This is of the form: "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway

4.3.3.1.1.2.6 *MSH-6 Receiving Facility (HD)*

MSH-6 should contain the eGateway's configured facility.

4.3.3.1.1.2.7 *MSH-7 Date/Time of Message (DTM)*

MSH-7 shall contain the time the Query message was sent.

4.3.3.1.1.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "QRY^Q02" in a Query message.

4.3.3.1.1.2.9 *MSH-10 Message Control ID (ST)*

MSH-10 shall be populated with a unique identifier for this message

4.3.3.1.1.2.10 *MSH-11 Message Processing ID (PT)*

MSH-11 shall be populated with "P" for production.

4.3.3.1.1.2.11 *MSH-12 Version ID (VID)*

MSH-12 shall be populated with "2.6".

4.3.3.1.1.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

MSH-15 should be populated with "AL".

4.3.3.1.1.2.13 *MSH-16 Application Acknowledgement Type (ID)*

MSH-16 should be populated with "NE".

4.3.3.1.1.2.14 *MSH-18 Character Set (ID)*

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.3.3.1.1.3 *QRD Segment*

The QRD segment is used to define a query. This segment is not IHE compliant.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	26	DTM	R	[1..1]		Query Date/Time
2	1	ID	R	[1..1]	0106	Query Format Code
3	1	ID	R	[1..1]	0091	Query Priority
4	10	ST	R	[1..1]		Query ID
5	1	ID	X		0107	Deferred Response Type
6	26	DTM	X			Deferred Response Date/Time
7	10	CQ	R	[1..1]	0126	Quantity Limited Request
8	60	XCN	C	[0..1]		Who Subject Filter
9	60	CWE	R	[1..*]	0048	What Subject
10	60	CWE	R	[1..*]		What Department Data Code
11	20	VR	X			What Data Code Value Qual.
12	1	ID	X			Query Results Level

4.3.3.1.1.3.1 QRD-2 Query Format Code (ID)

The eGateway shall only process queries when QRD-2 is populated with “D”.

4.3.3.1.1.3.2 QRD-3 Query Priority (ID)

The eGateway shall only process queries when QRD-3 is populated with “D”.

4.3.3.1.1.3.3 QRD-4 Query ID (ST)

This field should contain a unique ID for the query.

4.3.3.1.1.3.4 QRD-7 Quantity Limits Request (CQ)

4.3.3.1.1.3.4.1 QRD-7.1 Quantity

This field should always be populated with 1.000000.

4.3.3.1.1.3.4.2 QRD-7.2.1 Units.Identifier

This field should always be populated with “RD”.

4.3.3.1.1.3.5 QRD-8 Who Subject Filter (XCN)

The eGateway shall only process queries based on QRD-8 “Who”.

4.3.3.1.1.3.5.1 QRD-8.1 Patient ID (ST)

The eGateway shall only utilize the first 20 characters of the QRD-8.1 "Patient ID" field.

4.3.3.1.1.3.5.2 QRD-8.2 Family Name (FN)

The eGateway shall only utilize the first 20 characters of the QRD-8.2 "Family Name" field.

4.3.3.1.1.3.5.3 QRD-8.3 Given Name (ST)

The eGateway shall only utilize the first 20 characters of the QRD-8.3 "Given Name" field.

4.3.3.1.1.3.6 QRD-9 What Subject (CWE)

The eGateway will only process queries when QRD-9.1 "Identifier" is populated with “RES”.

4.3.3.1.1.3.7 QRD-10 What Department Data Code (CWE)

4.3.3.1.1.3.7.1 QRD-10.2 Text

QRD-10.2 shall be populated to “eGateway” on messages sent by the eGateway; this can be configured via the configuration file.

4.3.3.1.1.4 QRF Segment

The QRF segment is used to filter the requested data for a File query.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	20	ST	O	[0..4]		Where Subject Filter
2	26	DTM	X			When Data Start Date/Time
3	26	DTM	X			When Data End Date/Time
4	60	ST	C	[0..1]		What User Qualifier
5	60	ST	X			Other QRY Subject Filter
6	12	ID	X		0156	Which Date/Time Qualifier
7	12	ID	X		0157	Which Date/Time Status Qualifier
8	12	ID	X		0158	Date/Time Selection Qualifier
9	60	TQ	X			When Quantity/Timing Qualifier

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
10	10	NM	X			Search Confidence Threshold

4.3.3.1.1.4.1 QRF-1 Where Subject Filter

This field contains the location filter for the query. It is based on repetitions of the field. The 1st repetition contains the Facility, the 2nd the Point-of-Care, the 3rd the Room, and the 4th the Bed.

For example if the query is for the Facility of “Mindray”, Point-of-Care of “Cardiac Surgery”, Room of “OR 1”, and Bed of “1” the fields would look like:

QRF|Mindray~Cardiac Surgery~OR 1~1| ...

If a field is left out that field matches all results for that field so multiple results could be returned.

4.3.3.1.1.4.2 QRF-4 What User Qualifier (ST)

The eGateway uses this field to query by Visit Number. If querying by Visit Number this field shall contain the Visit Number of the patient whose data is needed.

4.3.3.1.1.4.3 QRF-5 Other QRY Subject Filter (ST)

The eGateway uses this field to query by Social Security Number. If querying by Social Security Number this field shall contain the Social Security Number of the patient whose data is needed.

4.3.3.1.2 Query Acknowledgement Message (ACK^Q02^ACK)

This acknowledgement is sent by the eGateway in response to the QRY^Q02 Query message.

4.3.3.1.2.1 ACK^Q02^ACK Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.3.3.1.2.2 MSH Segment

The Query Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.3.1.2.2.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.3.3.1.2.2.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.3.3.1.2.2.3 *MSH-3 Sending Application (HD)*

This field shall contain “eGateway^00A0370027XXXXXX^EUI-64”, where XXXXXX is the serial number of the eGateway.

4.3.3.1.2.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.3.1.2.2.5 *MSH-5 Receiving Application (HD)*

This field shall contain the MSH-3 value from the message being acknowledged.

4.3.3.1.2.2.6 *MSH-6 Receiving Facility (HD)*

This field shall contain the MSH-4 value from the message being acknowledged.

4.3.3.1.2.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.3.3.1.2.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ACK^Q02^ACK" in a Query Acknowledgement message.

4.3.3.1.2.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.3.3.1.2.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.3.3.1.2.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.3.3.1.2.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.3.3.1.2.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.3.3.1.2.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.3.3.1.2.3 *SFT Segment*

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. This segment can be configured to excluded or included in the message.

4.3.3.1.2.4 *MSA Segment*

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.3.3.1.2.5 *ERR Segment*

This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. This segment will be included if an error code is returned in the MSA segment.

4.3.3.1.3 *Query Results Message (ORF^R04^ ORF_R04)*

This message contains any data related to the query. If the query produces no results this message will not be sent.

4.3.3.1.3.1 *ORF^R04^ ORF_R04 Structure*

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]

Segment	Meaning	Usage	Cardinality
QRD	Original Style Query Definition	R	[1..1]
{	--- PATIENT RESULT begin	R	[1..1]
PID	Patient Identification	R	[1..1]
PV1	Patient Visit	R	[1..1]
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[1..1]
{	--- OBSERVATION begin	R	[1..1]
OBX	Observation	R	[1..N]
}	--- OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

4.3.3.1.3.2 MSH Segment

The Query Results message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.3.1.3.2.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.3.3.1.3.2.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.3.3.1.3.2.3 *MSH-3 Sending Application (HD)*

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.3.3.1.3.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.3.1.3.2.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.3.1.3.2.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.3.1.3.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.3.3.1.3.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ORF^R04^ ORF_R04" in a Query Results message.

4.3.3.1.3.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.3.3.1.3.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.3.3.1.3.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.3.3.1.3.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.3.3.1.3.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.3.3.1.3.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.3.3.1.3.3 *QRD Segment*

The QRD segment is used to define a query. This segment is not IHE compliant.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	26	DTM	R	[1..1]		Query Date/Time
2	1	ID	R	[1..1]	0106	Query Format Code
3	1	ID	R	[1..1]	0091	Query Priority
4	10	ST	R	[1..1]		Query ID
5	1	ID	X		0107	Deferred Response Type
6	26	DTM	X			Deferred Response Date/Time
7	10	CQ	R	[1..1]	0126	Quantity Limited Request
8	60	XCN	R	[1..*]		Who Subject Filter
9	60	CWE	R	[1..*]	0048	What Subject
10	60	CWE	R	[1..*]		What Department Data Code
11	20	VR	X			What Data Code Value Qual.
12	1	ID	X			Query Results Level

4.3.3.1.3.3.1 *QRD-1 Query Date/Time (DTM)*

The field should contain the data and time the query was generated.

4.3.3.1.3.3.2 *QRD-2 Query Format Code (ID)*

QRD-2 shall always be populated to "D" on reply messages sent by the eGateway.

4.3.3.1.3.3.3 *QRD-3 Query Priority (ID)*

QRD-3 shall always be populated to "D" on reply messages sent by the eGateway.

4.3.3.1.3.3.4 *QRD-4 Query ID (ST)*

This field will contain the value sent in the Query message that this is the reply to.

4.3.3.1.3.3.5 *QRD-7 Quantity Limits Request (CQ)*

4.3.3.1.3.3.5.1 QRD-7.1 Quantity

This field will contain the value sent in the Query message that this is the reply to.

4.3.3.1.3.3.5.2 QRD-7.2.1 Units.Identifier

This field will contain the value sent in the Query message that this is the reply to.

4.3.3.1.3.3.6 *QRD-8 Who Subject Filter (XCN)*

This field will contain the value sent in the Query message that this is the reply to.

4.3.3.1.3.3.7 *QRD-9 What Subject (CWE)*

This field will contain the value sent in the Query message that this is the reply to.

4.3.3.1.3.3.8 *QRD-10 What Department Data Code (CWE)*

4.3.3.1.3.3.8.1 QRD-10.2 Text

QRD-10.2 shall be populated to “eGateway” on messages sent by the eGateway; this can be configured via the configuration file.

4.3.3.1.3.4 *PID Segment*

This segment follows the same format as the Unsolicited Client interface PID segment defined in section 4.3.1.1.1.4 *PID Segment*.

4.3.3.1.3.5 *PV1 Segment*

This segment follows the same format as the Unsolicited Client interface PV1 segment defined in section 4.3.1.1.1.5 *PV1 Segment*.

4.3.3.1.3.6 *Observation Data Block*

The presence of the Observation data block is indicated by an OBR segment containing “182777000^monitoring of patient ^SCT” in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.3.3.1.3.6.1 *OBR segment*

This segment follows the same format as the Unsolicited Client interface OBR segment defined in section 4.3.1.1.1.6.1 *OBR segment*.

4.3.3.1.3.6.2 *OBX segment*

This segment follows the same format as the Unsolicited Client interface OBX segment defined in section 4.3.1.1.1.6.2 *OBX segment*.

4.3.3.1.4 *Query Results Acknowledgement Message (ACK^Q04)*

This acknowledgement is expected by the eGateway in response to the QRY^Q04 Query Response message.

4.3.3.1.4.1 ACK^Q04 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.3.3.1.4.2 MSH Segment

The Query Results Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.3.1.4.2.1 *MSH-1 Field Separator (ST)*

MSH-1 shall contain the field separator used in the message.

4.3.3.1.4.2.2 *MSH-2 Encoding Characters (ST)*

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.3.3.1.4.2.3 *MSH-3 Sending Application (HD)*

MSH-3 shall contain the sending application identifier for the acknowledging application.

4.3.3.1.4.2.4 *MSH-4 Sending Facility (HD)*

MSH-4 shall contain the sending facility identifier for the acknowledging application.

4.3.3.1.4.2.5 *MSH-5 Receiving Application (HD)*

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the Query Results message.

4.3.3.1.4.2.6 *MSH-6 Receiving Facility (HD)*

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the Query Results Message.

4.3.3.1.4.2.7 *MSH-7 Date/Time of Message (DTM)*

MSH-6 shall contain the time the acknowledgement message was sent.

4.3.3.1.4.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ACK^Q04^ACK" in a Data Acknowledgement message.

4.3.3.1.4.2.9 *MSH-10 Message Control ID (ST)*

MSH-10 shall be populated with a unique identifier for this message

4.3.3.1.4.2.10 *MSH-11 Message Processing ID (PT)*

MSH-11 shall be populated with "P" for production.

4.3.3.1.4.2.11 *MSH-12 Version ID (VID)*

MSH-12 shall be populated with "2.6".

4.3.3.1.4.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

MSH-15 should be populated with "NE" or be empty.

4.3.3.1.4.2.13 *MSH-16 Application Acknowledgement Type (ID)*

MSH-16 should be populated with "NE" or be empty.

4.3.3.1.4.2.14 *MSH-18 Character Set (ID)*

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.3.3.1.4.3 *SFT Segment*

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. The eGateway ignores this segment.

4.3.3.1.4.4 *MSA Segment*

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

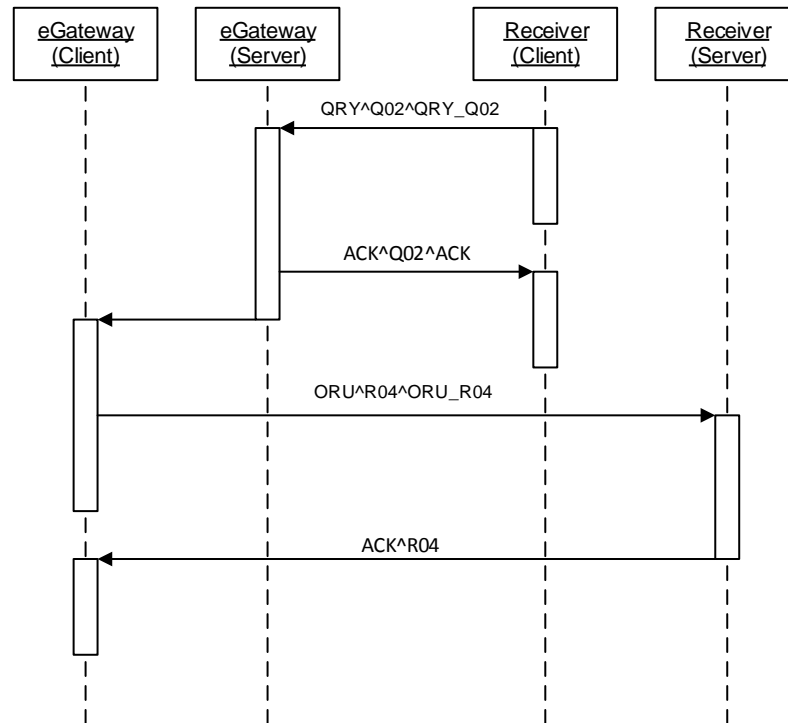
4.3.3.1.4.5 ERR Segment

This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. The eGateway ignores this segment. If the acknowledger return an error code in the MSA segment, this segment should be included to aid debugging.

4.3.4 Solicited Client/Server

The Solicited Client/Server interface is identical to the Solicited Server interface for message format. The difference is what sockets the messages are sent on. The eGateway opens a server socket to receive queries similar to the Solicited Server interface but it will also create a client socket to connect to a server socket on the Receiver. This client connection will be used to return the results of the query.

4.3.4.1 Message definitions

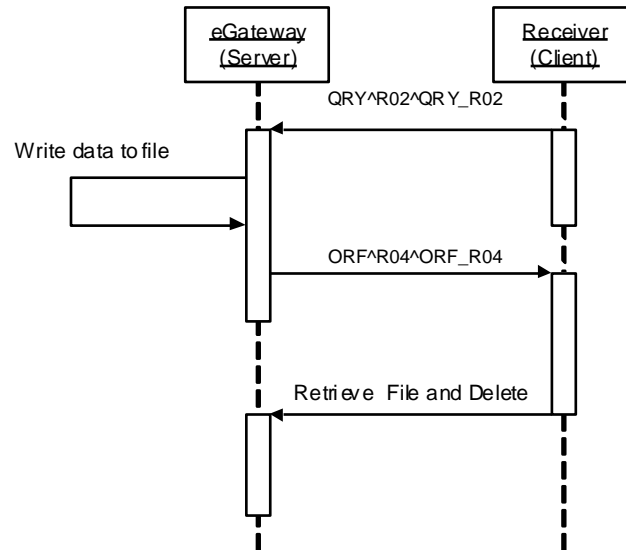


The messages used by the Unsolicited Server interface are identical to those used by the Solicited Server interface. Please refer to section 4.3.3 *Solicited Server* for details on the HL7 messages.

4.3.5 File

This mode is used by Meditech Client/Server systems.

4.3.5.1 Message definitions



The receiver queries the eGateway for data. The eGateway will reply to the query with a message containing a URL to the location of the created data file. The receiver is then responsible for copying the file from the location and deleting it. If the query produces no results no data file will be created and the reply will indicate that the query has failed.

4.3.5.1.1 Query Message (QRY^Q02^QRY_R02)

The query message is used to specify which patient and what time range of data is needed. The query is based on the Patient ID or the Visit Number depending on the Channels Patient Key. When the Key is Patient ID the patient is selected by the QRD-8.1 "Patient ID" field. When the Key is Visit Number the patient is selected by the QRF-4 field where the Visit Number should be entered. The matching is case sensitive and requires the whole field to be identical to match.

4.3.5.1.1.1 QRY^Q02^QRY_R02 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
QRD	Original Style Query Definition	R	[1..1]
QRF	Original Style Query Filter	RE	[0..1]

4.3.5.1.1.2 MSH Segment

The Solicited Results Query message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
-----	-----	----	-------	-------------	--------	--------------

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.5.1.1.2.1 *MSH-1 Field Separator (ST)*

MSH-1 shall contain the field separator used in the message.

4.3.5.1.1.2.2 *MSH-2 Encoding Characters (ST)*

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.3.5.1.1.2.3 *MSH-3 Sending Application (HD)*

MSH-3 shall contain the sender's application identifier.

4.3.5.1.1.2.4 *MSH-4 Sending Facility (HD)*

MSH-4 shall contain the sender's facility identifier.

4.3.5.1.1.2.5 *MSH-5 Receiving Application (HD)*

MSH-5 should contain the eGateway's application ID. This is of the form: "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway

4.3.5.1.1.2.6 *MSH-6 Receiving Facility (HD)*

MSH-6 should contain the eGateway's configured facility.

4.3.5.1.1.2.7 *MSH-7 Date/Time of Message (DTM)*

MSH-6 shall contain the time the File Query message was sent.

4.3.5.1.1.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "QRY^Q02^QRY_R02" in a File Query message.

4.3.5.1.1.2.9 *MSH-10 Message Control ID (ST)*

MSH-10 shall be populated with a unique identifier for this message

4.3.5.1.1.2.10 *MSH-11 Message Processing ID (PT)*

MSH-11 shall be populated with "P" for production.

4.3.5.1.1.2.11 *MSH-12 Version ID (VID)*

MSH-12 shall be populated with "2.6".

4.3.5.1.1.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

MSH-15 should be populated with "AL".

4.3.5.1.1.2.13 *MSH-16 Application Acknowledgement Type (ID)*

MSH-16 should be populated with "NE".

4.3.5.1.1.2.14 *MSH-18 Character Set (ID)*

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.3.5.1.1.3 *QRD Segment*

The QRD segment is used to define a query. This segment is not IHE compliant.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	26	DTM	R	[1..1]		Query Date/Time
2	1	ID	R	[1..1]	0106	Query Format Code
3	1	ID	R	[1..1]	0091	Query Priority
4	10	ST	R	[1..1]		Query ID
5	1	ID	X		0107	Deferred Response Type
6	26	DTM	X			Deferred Response Date/Time
7	10	CQ	R	[1..1]	0126	Quantity Limited Request
8	60	XCN	C	[0..1]		Who Subject Filter
9	60	CWE	R	[1..*]	0048	What Subject
10	60	CWE	X			What Department Data Code
11	20	VR	X			What Data Code Value Qual.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
12	1	ID	X			Query Results Level

4.3.5.1.1.3.1 QRD-2 Query Format Code (ID)

On the File interface, the eGateway shall only process queries when QRD-2 is populated with “R”.

4.3.5.1.1.3.2 QRD-3 Query Priority (ID)

On the File interface, the eGateway shall only process queries when QRD-3 is populated with “I”.

4.3.5.1.1.3.3 QRD-7 Quantity Limits Request (CQ)

4.3.5.1.1.3.4 QRD-7.1 Quantity (NM)

QRD-7.1 shall always be populated to 1.000000 on messages sent by the eGateway.

4.3.5.1.1.3.5 QRD-7.2.1 Units.Identifier (CWE)

QRD-7.2.1 shall always be populated to “RD” on messages sent by the eGateway.

4.3.5.1.1.3.6 QRD-8 Who Subject Filter (XCN)

The eGateway shall only process queries based on QRD-8 “Who”.

4.3.5.1.1.3.6.1 QRD-8.1 Patient ID (ST)

The eGateway shall only utilize the first 20 characters of the QRD-8.1 "Patient ID" field.

4.3.5.1.1.3.6.2 QRD-8.2 Family Name (FN)

The eGateway does not support this field in File interface.

4.3.5.1.1.3.6.3 QRD-8.3 Given Name (ST)

The eGateway does not support this field in File interface.

4.3.5.1.1.3.6.4 QRD-9 What Subject (CWE)

The eGateway will only process queries when QRD-9.1 "Identifier" is populated with “RES”.

4.3.5.1.1.4 QRF Segment

The QRF segment is used to filter the requested data for a File interface query.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	20	ST	X			Where Subject Filter
2	26	DTM	R	[0..1]		When Data Start Date/Time
3	26	DTM	R	[0..1]		When Data End Date/Time
4	60	ST	C	[0..1]		What User Qualifier
5	60	ST	X			Other QRY Subject Filter
6	12	ID	X		0156	Which Date/Time Qualifier
7	12	ID	X		0157	Which Date/Time Status Qualifier
8	12	ID	X		0158	Date/Time Selection Qualifier
9	60	TQ	X			When Quantity/Timing Qualifier
10	10	NM	X			Search Confidence Threshold

4.3.5.1.1.4.1 QRF-1 Where Subject Filter

By default this segment is ignored by the eGateway.

4.3.5.1.1.4.2 QRF-2 When Data Start Date/Time

This segment specifies the time of the first record to send in a File Query. The query will fail if this is empty.

4.3.5.1.1.4.3 QRF-3 When Data End Date/Time

This segment specifies the time of the last record to send in a File Query. The query will fail if this is empty.

4.3.5.1.1.4.4 QRF-4 What User Qualifier

The eGateway uses this field to query by Visit Number. If querying by Visit Number this field shall contain the Visit Number of the patient whose data is needed.

4.3.5.1.2 Query Message Response (ORF^R04^ORF_R04)

4.3.5.1.2.1 ORF^R04^ORF_R04 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
MSA	Message Acknowledgement	R	[1..1]
PID	Patient Identification	R	[1..1]
NTE	Notes and Comments	R	[1..1]

4.3.5.1.2.2 MSH Segment

The File Query Results message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.3.5.1.2.2.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.3.5.1.2.2.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.3.5.1.2.2.3 *MSH-3 Sending Application (HD)*

This field shall contain “eGateway^00A0370027XXXXXX^EUI-64”, where XXXXXX is the serial number of the eGateway.

4.3.5.1.2.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.5.1.2.2.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.5.1.2.2.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.3.5.1.2.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.3.5.1.2.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "QRF^R04^ORF_R04" in a File Query Results message.

4.3.5.1.2.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.3.5.1.2.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.3.5.1.2.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.3.5.1.2.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.3.5.1.2.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.3.5.1.2.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.3.5.1.2.3 *MSA Segment*

The MSA segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.3.5.1.2.4 *PID Segment*

This segment follows the same format as the Unsolicited Client interface PID segment defined in section 4.3.1.1.1.4 *PID Segment*.

4.3.5.1.2.5 *NTE Segment*

The NTE segment is used to specify the location of the generated file.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	O	[0..1]		Set ID - NTE
2	1	ID	X	[0..0]		Source of Comment
3	65536	FT	R	[1..1]	0105	Comment
4	250	CWE	X	[0..0]		Comment Type
5	3220	XCN	X	[0..0]	0364	Entered By
6	24	DTM	X	[0..0]		Entered Date/Time
7	24	DTM	X	[0..0]		Effective Start Date
8	24	DTM	X	[0..0]		Expiration Date

4.3.5.1.2.5.1 *NTE-1 Set ID – NTE*

NTE-3 will contain the value of "1".

4.3.5.1.2.5.2 NTE-3 Comment

NTE-3 will contains the URL to the generated files. If the query produces no results this field will contain “Unable to get results for [Record]”, where [Record] is the value of the Patient ID or Visit Number that failed to get results.

4.3.5.1.3 File (ORF^R04^ ORF_R04)

The file format support having multiple sets of observations for a single patient.

4.3.5.1.3.1 ORF^R04^ ORF_R04 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
PID	Patient Identification	R	[1..1]
PV1	Patient Visit	R	[1..1]
{	--- ORDER_OBSERVATION begin	R	[1..N]
OBR	Observation Request	R	[1..1]
{OBX}	Observation/Result	R	[1..N]
}	--- ORDER_OBSERVATION end		

4.3.5.1.3.2 MSH Segment

This segment follows the same format as the Query Message Response message MSH segment defined in section 4.3.5.1.2.2 *MSH Segment*.

4.3.5.1.3.3 PID Segment

This segment follows the same format as the Unsolicited Client interface PID segment defined in section 4.3.1.1.1.4 *PID Segment*.

4.3.5.1.3.4 PV1 Segment

This segment follows the same format as the Unsolicited Client interface PV1 segment defined in section 4.3.1.1.1.5 *PV1 Segment*.

4.3.5.1.3.5 Observation Data Block

The presence of the Observation data block is indicated by an OBR segment containing “182777000^monitoring of patient ^SCT” in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.3.5.1.3.5.1 *OBR segment*

This segment follows the same format as the Unsolicited Client interface OBR segment defined in section 4.3.1.1.1.6.1 *OBR segment*.

4.3.5.1.3.5.2 *OBX segment*

This segment follows the same format as the Unsolicited Client interface OBX segment defined in section 4.3.1.1.1.6.2 *OBX segment*.

4.3.5.1.4 *File Retrieval and Deletion*

The receiving system is responsible for retrieving the file specified in the NTE segment of the Query Response Message and deleting it from the eGateway when done.

4.4 Alert Interface

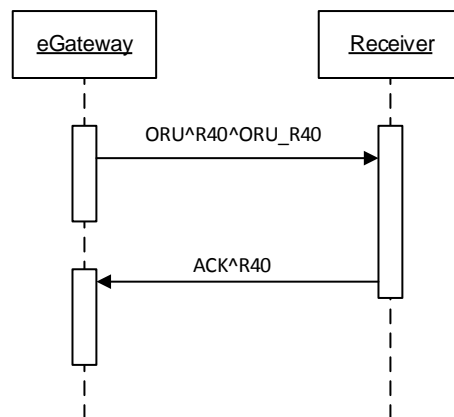
The Mindray's alert interface is an aperiodic unsolicited interface. It implements the IHE PCD ACM technical framework by default.

The alert message should be encoded in Unicode using UTF-8 compression to support characters required for multiple languages. UTF-8 allows the message when using just ASCII characters to be the same as ASCII encoding

The Mindray devices will send alert messages aperiodically to an alarm receiver when the alerts occur or change state. The receiving system is expected to send a reply to acknowledge the reception of the message.

4.4.1 Message definitions

The Mindray devices will send alert messages aperiodically to an alarm receiver when the alerts occur or change state. The receiving system is expected to send a reply to acknowledge the reception of the message.



4.4.1.1 Alert Message (ORU^R40^ORU_R40)

4.4.1.1.1 ORU^R40^ORU_R40 Structure

Table 16 ORU^R40^ORU_R40 Message Definition

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
{	--- ALERT_begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- LOCATION begin		

Segment	Meaning	Usage	Cardinality
PV1	Alert Location	R	[1..1]
]	--- LOCATION end		
]	--- PATIENT end		
{	--- ALERT_IDENTIFICATION begin		[1..1]
[ORC]	Alert Common	X	[0..0]
OBR	Alert Identification	R	[1..1]
{	--- ALERT_OBSERVATION begin	R	[1..7]
OBX	Alert specification	R	[1..1]
}	--- ALERT OBSERVATION end		
}	--- ALERT_IDENTIFICATION end		
[	--- OBSERVATION DATA BLOCK begin	O	[0..1]
OBR	Observation Identification	R	[1..1]
{	--- OBSERVATION begin		[1..N]
OBX	Observation	R	[1..1]
}	--- OBSERVATION end		
]	--- OBSERVATION DATA BLOCK end		
[	--- WAVEFORM DATA BLOCK begin	O	[0..1]
OBR	Waveform Identification	R	[1..1]
{	--- WAVEFORM OBSERVATION begin	R	[1..N]
OBX	Waveform Specification	R	[1..1]
}	--- WAVEFORM OBSERVATION end		
]	--- WAVEFORM DATA BLOCK end		
}	--- ALERT end		

The OBSERVATION DATA BLOCK and WAVEFORM DATA BLOCK can be configured to be removed from the message if the receiving system does not need this information.

4.4.1.1.2 MSH Segment

The Alert message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.4.1.1.2.1.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.4.1.1.2.1.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.4.1.1.2.1.3 *MSH-3 Sending Application (HD)*

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.4.1.1.2.1.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.4.1.1.2.1.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.4.1.1.2.1.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.4.1.1.2.1.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.4.1.1.2.1.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ORU^R40^ORU_R40" in an Alert message.

4.4.1.1.2.1.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.4.1.1.2.1.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.4.1.1.2.1.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.4.1.1.2.1.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.4.1.1.2.1.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.4.1.1.2.1.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.4.1.1.2.1.15 *MSH-21 Message Profile Identifier (EI)*

This field shall be populated with "IHE_PCD_ACM_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.4.1^ISO".

4.4.1.1.3 *PID Segment*

The PID segment for the Alert Message uses the following definition.

Table 17 Alert PID Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID
2	20	IS	X	[0..0]		Patient ID

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	250	CX	O	[0..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XPN	O	[0..1]		Patient Name
6	250	XPN	X	[0..0]		Mother's Maiden Name
7	26	DTM	O	[0..1]		Date/Time of Birth
8	1	IS	O	[0..1]	0001	Administrative Sex

4.4.1.1.3.1 PID-1 Set ID – PID (SI)

PID-1 shall be empty.

4.4.1.1.3.2 PID-2 Patient ID (IS)

PID-2 shall be empty.

4.4.1.1.3.3 PID-3 Patient Identification List (CX)

PID-3 shall contain information regarding the patient's identifying number.

4.4.1.1.3.4 PID-3.1 ID Number (ST)

PID-3.1 shall contain the patient ID entered into the device.

4.4.1.1.3.5 PID-3.4 Assigning Authority (ST)

PID-3.4 shall be configurable in the field, set to the device's Facility, or filled in with "Hospital", in this order of preference.

4.4.1.1.3.6 PID-3.5 Identifier Code Type (ST)

PID-3.5 shall contain "PI".

4.4.1.1.3.7 PID-4 Alternate Patient ID - PID (CX)

PID-4 shall be empty.

4.4.1.1.3.8 PID-5 Patient Name (XPN)

PID-5 shall contain the patient's name if available.

4.4.1.1.3.9 PID-5.1.1 Patient Name.Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name if available.

4.4.1.1.3.10 PID-5.2 Patient Name.Given Name (ST)

PID-5.2 shall contain the patient's given name if available.

4.4.1.1.3.11 PID-5.3 Patient Name.Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name if available.

4.4.1.1.3.12 PID-5.7 Patient Name.Name Type Code (ST)

PID-5.7 shall contain the "L" for legal name.

4.4.1.1.3.13 PID-6 Mother's Maiden Name (XPN)

PID-6 shall be empty.

4.4.1.1.3.14 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient's date of birth if available.

4.4.1.1.3.15 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient's gender from Table 18.

Table 18 HL7 Table 0001 Administrative Sex

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.4.1.1.4 PV1 Segment

The PV1 segment for the Alert Message uses the following definition.

Table 19 Alert PV1 Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PV1
2	1	IS	X	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location

4.4.1.1.4.1 PV1-1 Set ID – PV1 (SI)

PV1-1 shall be empty.

4.4.1.1.4.2 PV1-2 Patient Class (IS)

PV1-2 shall be empty.

4.4.1.1.4.3 PV1-3 Assigned Location (PL)

PV1-3 shall be populated with the patient's assigned location.

4.4.1.1.4.4 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.4.1.1.4.5 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.4.1.1.4.6 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.4.1.1.4.7 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.4.1.1.5 Alert Data Block

The presence of the Alert data block is indicated by an OBR segment containing “196616^MDC_EVT_ALARM^MDC” in the OBR-4 field. The use of the Alert data block shall be always be included in an alert message.

The following table specifies the structure of the alert data block

Segment	Meaning	Usage	Cardinality
OBR	Alert Identification	R	[1..1]
OBX(Facet 1)	Event Identification	R	[1..1]
OBX(Facet 2)	Source Identification	R	[1..1]
OBX(Facet 3)	Event Phase	R	[1..1]
OBX(Facet 4)	Alarm State	R	[1..1]
OBX(Facet 5)	Inactivation State	O	[0..1]
OBX(Facet 6)	Alarm Priority	R	[1..1]
OBX(Facet 7)	Alert Type	R	[1..1]

4.4.1.1.5.1 OBR Alert segment

Table 20 Alert OBR Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBR
2	427	EI	X	[0..1]		Placer Order Number
3	427	EI	R	[1..1]		Filler Order Number
4	705	CWE	R	[1..1]		Universal Service Identifier
5	2	ID	X	[0..0]		Priority - OBR
6	24	DTM	X	[0..0]		Request Date/Time
7	24	DTM	RE	[0..1]		Observation Date/Time
29	855	EIP	R	[1..1]		Parent

4.4.1.1.5.1.1 OBR-1 Set ID – OBR (SI)

OBR-1 shall contain an integer that is incremented by one for each successive OBR segment in the message.

4.4.1.1.5.1.2 OBR-Placer Order Number (EI)

This field shall be empty.

4.4.1.1.5.1.3 *OBR-3 Filler Order Number (EI)*

This field shall be populated in the same manner as the standard OBR segment OBR-3 field.

OBR-3.1 shall contain the value found in MSH-10

OBR-3.2 shall contain the value found in MSH-3.1

OBR-3.3 shall contain the value found in MSH-3.2

OBR-3.4 shall contain the value found in MSH-3.3

4.4.1.1.5.1.4 *OBR-4 Universal Service Identifier (CWE)*

This field is filled in with "196616^MDC_EVT_ALARM^MDC"

4.4.1.1.5.1.5 *OBR-7 Observation Date/Time (DTM)*

This field identifies the point in time at which the Alert Reporter actor committed itself to packaging up the Report Alert transaction information to be sent to the Alert Manager.

4.4.1.1.5.1.6 *OBR-29 Parent (EIP)*

This shall contain a unique identifier for the alarm. It is used to associate separate alert events to a single alert. All alert messages related to the same alert event shall the same identifier.

OBR-29.1 shall be empty.

OBR-29.2.1 shall contain a unique integer ID for the alert.

OBR-29.2.2 shall contain the value found in MSH-3.1

OBR-29.2.3 shall contain the value found in MSH-3.2

OBR-29.2.4 shall contain the value found in MSH-3.3

4.4.1.1.5.2 *Alert OBX segment, Facet 1 Event Identification*

This OBX specifies the alert event type

Table 21 Facet 1 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	705	CWE	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status
14	24	DTM	RE	[0..1]		Observation Date/Time

4.4.1.1.5.2.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.2.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “CWE” by default.

4.4.1.1.5.2.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “196616^MDC_EVT_ALARM^MDC”.

4.4.1.1.5.2.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain the containment tree value of the alert source in the M.V.C.I format appended with “.1” to specify the Event Identification facet.

4.4.1.1.5.2.5 *OBX-5 Observation Value (CWE)*

OBX-5 shall be populated with values from values found in section 5.7 *Alarms*.

OBX-5 shall be populated with “196652^MDC_EVT_HI_VAL_GT_LIM^MDC” for a high threshold alarm.

OBX-5 shall be populated with “196674^MDC_EVT_LO_VAL_LT_LIM^MDC” for a low threshold alarm

OBX-5 shall be populated with “30905^MNDRY_EVT_HI_VAL_GT_EXTREME_LIM^99MNDRY” for extreme high threshold alarms.

OBX-5 shall be populated with “30906^MNDRY_EVT_LO_VAL_LT_EXTREME_LIM^99MNDRY” for extreme low threshold alarms.

4.4.1.1.5.2.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.4.1.1.5.2.7 *OBX-14 Observation Date/Time*

OBX-14 shall be populated with time of the event transition specified in this message.

4.4.1.1.5.3 *Alert OBX segment, Facet 2 Source Identification*

This OBX specifies the source of the alert event. It follows two formats based on the type of alarm specified in Facet 1.

4.4.1.1.5.3.1 *Threshold Alarms*

For alerts based on thresholds this OBX will be populated with the common results OBX message format for the parameter in alarm, reflecting the value of the parameter at the time of the event.

Threshold alarms are any alarm that has OBX-5 populated with one of the following values in the facet 1 OBX segment:

196652^MDC_EVT_HI_VAL_GT_LIM^MDC
196674^MDC_EVT_LO_VAL_LT_LIM^MDC
30905^MNDRY_EVT_HI_VAL_GT_EXTREME_LIM^99MNDRY
30906^MNDRY_EVT_LO_VAL_LT_EXTREME_LIM^99MNDRY

In addition OBX-7 shall be populated with the alarm’s range if available from the device.

4.4.1.1.5.3.2 *Table 22 Facet 2 OBX Segment for Threshold Alerts.*

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	1-9999	variable	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units
7	60	ST	O	[0..1]		Reference Range
8	5	IS	O	[0..1]	0078	Abnormal Flags
11	1	ID	R	[1..1]	0085	Observation Result Status
14	24	DTM	R	[1..1]		Date/Time of Observation
18	427	EI	RE	[0..1]		Equipment Instance Identifier

4.4.1.1.5.3.3 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.3.4 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with data type used by the observation.

4.4.1.1.5.3.5 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated by the observation's ID.

4.4.1.1.5.3.6 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall be populated by the observation's Sub-ID appended with “.2” to specify the Source Identification facet.

4.4.1.1.5.3.7 *OBX-5 Observation Value (variable)*

OBX-5 shall contain the observation's value.

4.4.1.1.5.3.8 *OBX-6 Units (CWE)*

OBX-6 shall be populated with the observation's units.

4.4.1.1.5.3.9 *OBX-7 Reference Range (ST)*

OBX-7 shall be populated with the thresholds of the alarm in the following formats.

For a high and Low threshold the format is “L-H” where “L” is the low threshold and “H” is the high threshold. For example for a low limit of 30 and a high limit of 120 the value would be:

30-120

For only a high limit the format is “<H”, where H is the high limit. For example with only a high limit of 120 the value would be:

<120

For only a low limit the format is “>L”, where L is the low limit. For example with only a low limit of 30 the value would be:

>30

4.4.1.1.5.3.10 *OBX-8 Abnormal Flags (IS)*

This field is used in conjunction with OBX-11 to identify the observation type.

Table 23 HL7 Table 0078

Value	Observation Type
<Blank>	Valid, Confirmed by user Valid, Unconfirmed
DEMO	Demo data
INV	Invalid

“DEMO” can be a repetition field included with “INV” to support invalid demo data. For example:

| DEMO~INV |

4.4.1.1.5.3.11 *OBX-11 Observation Result Status (ID)*

OBX-11 shall be populated with “F” for valid values.

OBX-11 shall be populated with “X” for invalid values.

4.4.1.1.5.3.12 *OBX-14 Date/Time of Observation (DTM)*

OBX-14 shall be populated with the time of the observation.

4.4.1.1.5.3.13 *OBX-18 Equipment Instance Identifier (EI)*

OBX-18 shall be populated with the source devices identifier. This is either a EUI-64 identifier or 8 character identifier. The use of the EUI-64 identifier is preferred.

Example of EUI-64 format identifier:

00A0370027000001^^00A0370027000001^EUI-64

Example of 8 character format identifier:

S5E4B32X^Spectrum^mindray.com^DNS

4.4.1.1.5.3.14 *Non-Threshold Alerts*

4.4.1.1.5.3.15 *Table 24 Facet 2 OBX Segment for Technical Alerts and non-Threshold Alerts.*

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	705	CWE	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.4.1.1.5.3.16 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.3.17 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “CWE” by default.

4.4.1.1.5.3.18 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated by “68480^MDC_ATTR_ALERT_SOURCE^MDC” by default.

4.4.1.1.5.3.19 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.2” to specify the Source Identification facet.

4.4.1.1.5.3.20 *OBX-5 Observation Value (CWE)*

OBX-5 shall be populated with based on the following table for all non-threshold alarms.

Device	Value
Anesthesia Devices	70041^MDC_DEV_SYS_ANESTH_MDS^MDC
Ventilator Devices	70025^MDC_DEV_REGUL_VOL_VENT_MDS^MDC
Patient Monitors	69953^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM_MDS^MDC

4.4.1.1.5.3.21 *OBX-11 Observation Result Status (ID)*

OBX-11 shall be populated with “F” for final value.

4.4.1.1.5.4 Alert OBX segment, Facet 3 Event Phase

This OBX specifies the phase of the alert event

Table 25 Facet 3 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	ST	R	[1..1]		Observation Value

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
11	1	ID	R	[1..1]	0085	Observation Result Status

4.4.1.1.5.4.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.4.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.4.1.1.5.4.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68481^MDC_ATTR_EVENT_PHASE^MDC” by default.

4.4.1.1.5.4.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.3” to specify the Event Phase facet.

4.4.1.1.5.4.5 *OBX-5 Observation Value (ST)*

OBX-5 shall contain the current alarm phase. The following table specified allowed values.

Table 26 Alert Phase Values

Value	Phase
start	The alert started. Transitioned to active.
end	The alert has ended. Transitioned from active to inactive or latched.
escalate	The alert has escalated in priority.
de-escalate	The alert has de-escalated in priority.
reset	The alert was reset. Transitioned from latched to inactive.
inactivation	The inactivation state has changed (audio pause, alarm pause, etc...).
acknowledged	The acknowledgement state has changed

When the acknowledgement state changes it will typically be included with an “inactivation” state phase change as acknowledgement silences an alarm. Two separate events should not be sent for inactivation and acknowledgement in this case.

4.4.1.1.5.4.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.4.1.1.5.5 *Alert OBX segment, Facet 4 Alarm State*

This OBX specifies the state of the alert.

Table 27 Facet 4 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	8	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.4.1.1.5.5.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.5.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.4.1.1.5.5.3 *OBX-3 Observation Sub-ID (ST)*

OBX-3 shall be populated with “68482^MDC_ATTR_ALARM_STATE^MDC” by default.

4.4.1.1.5.5.4 *OBX-4 Observation Identifier (CWE)*

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.4” to specify the Alarm State facet.

4.4.1.1.5.5.5 *OBX-5 Observation Value (ST)*

Mindray applications shall populate this field with one of the values in the table below.

Table 28 Alert States

Value	State
inactive	The alarm is inactive. The alarm condition does not exist and the alarm system does not have an associated alarm.
active	The alarm is active. The alarm condition exists and the alarm system has an associated active alarm.
latched	The alarm is latched. The alarm condition is gone but the alarm system is keeping the associated alarm active.

4.4.1.1.5.5.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.4.1.1.5.6 *Alert OBX segment, Facet 5 Inactivation State*

This OBX specifies the inactivation state of the of the alerts signals. This segment is optional if the sender does not have this information, if it does is shall send this segment.

Table 29 Facet 5 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	40	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.4.1.1.5.6.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.6.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.4.1.1.5.6.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68483^MDC_ATTR_ALARM_INACTIVATION_STATE^MDC” by default.

4.4.1.1.5.6.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.5” to specify the Inactivation State facet.

4.4.1.1.5.6.5 *OBX-5 Observation Value (ST)*

Mindray applications shall repeat this field with up to one value from each of the Audio Inactivation State, Visual Inactivation State, and Acknowledgement State tables below.

Table 30 Audio Inactivation States

Value	Alarm Audio State
<blank>	The alarm’s audio and visual indicators are enabled.
audio-paused	The alarm’s audio indicator is temporarily off
audio-off	The alarm’s audio indicator permanently off

Audio Inactivation can occur if the monitoring device has the overall audio for alarms paused or off or if the individual alarm has been silenced, or if audio is disabled during the latched state. Other situation can also exist depending on the individual monitor’s software.

If it is unknown whether the audio inactivation is temporarily or permanently inactivated “audio-off” should be sent.

Table 31 Visual Inactivation States

Value	Alarm Visual State
<blank>	The alarm’s audio and visual indicators are enabled.
alarm-paused	The alarm’s visual indicator is temporarily off

alarm-off	The alarm's visual indicator is permanently off
-----------	---

Visual Inactivation can occur if Alarm Pause or Alarm Off is activated on a device.

If it is unknown whether the alarm inactivation is temporarily or permanently inactivated "alarm-off" should be sent.

Table 32 Acknowledgement State

Value	Acknowledgement State
<blank>	The alarm has not been acknowledged at the source.
alert-acknowledged	The alarm has been acknowledged at the source.

The acknowledgement state can be configured to be disabled. The acknowledge state for an alarm is latched until the alarm condition ends.

Examples:

| |	Indicates audio and visual indicators are active.
|audio-paused|	Indicates audio indicators are paused and visual indicators are active.
|audio-paused~alarm-paused|	Indicates audio and visual indicators are paused.
|audio-paused~alert-acknowledged|	Indicates audio indicators are paused and visual indicators are active and the local user has acknowledge the alarm.

4.4.1.1.5.6.6 OBX-11 Observation Result Status

OBX-11 shall be populated with "F" for final value.

4.4.1.1.5.7 Alert OBX segment, Facet 6 Alarm Priority

This OBX specifies the alarm priority.

Table 33 Facet 6 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	2	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.4.1.1.5.7.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.7.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.4.1.1.5.7.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68484^MDC_ATTR_ALARM_PRIORITY^MDC” by default.

4.4.1.1.5.7.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain the containment tree value of the alert source in the M.V.C.I format appended with “.6” to specify the Event Identification facet.

4.4.1.1.5.7.5 *OBX-5 Observation Value (ST)*

The OBX-5 field shall contain a value from the following table:

Table 34 Alarm Priority

Value	Alarm Priority
PN	No alarm
PL	Low priority
PM	Medium priority
PH	High priority

The following table shows how facet 6 and 7 are combined for different alarm and advisory types:

Table 35 Facet 6 and 7 values

Alert Type	Facet 6 OBX-5	Facet 7 OBX-5
High Priority Physiological	PH	SP
Medium Priority Physiological	PM	SP
Low Priority Physiological	PL	SP
High Priority Technical	PH	ST
Medium Priority Technical	PM	ST
High Priority Technical	PH	ST
Advisory	PN	SA

4.4.1.1.5.7.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.4.1.1.5.8 *Alert OBX segment, Facet 7 Alert Type*

This OBX specifies the alert type.

Table 36 Facet 7 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	2	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.4.1.1.5.8.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.4.1.1.5.8.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.4.1.1.5.8.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68485^MDC_ATTR_ALERT_TYPE^MDC” by default.

4.4.1.1.5.8.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain the containment tree value of the alert source in the M.V.C.I format appended with “.7” to specify the Event Identification facet.

4.4.1.1.5.8.5 *OBX-5 Observation Value (ST)*

The OBX-4 field shall contain a value from the following table:

Table 37 Alarm Type

Value	Alarm Type
SP	Physiological
ST	Technical
SA	Advisory

4.4.1.1.5.8.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.4.1.1.6 Waveform Data Block

The presence of the Waveform Data Block is indicated by an OBR segment containing “BOUNDED WAVEFORM” in the OBR-4 field. The Waveform Data Block can be configured to be included or excluded from the alarm message.

The waveform segment contains 6 seconds of waveform just prior to the alarm state change. A maximum of three waveforms will be sent based on the alarm.

The following table specifies what waveforms are sent with which physiological alert. Each alert has a priority list of waveform classes that it will send. These are defined in *Table 38 Alarm Waveform Priority*. The order of preference is from left to right. The alert will only select one waveform from a single class in its list. The waveforms available in each class are defined in *Table 39 Class Waveform Priority*. Again, the order of preference is from left to right. Once three waveforms are selected the process ends. If less than three are found in the process only those found will be sent.

Table 38 Alarm Waveform Priority

Alert	Waveform Class Priority
HR	ECG, Pleth/Plethb, Imped., IBP
QTc, ΔQTc, Arrhythmias	3 available ECG class waveforms
ST Multiple, ST Single	ECG, Pleth/Plethb, Imped. , IBP
ST	ECG, Pleth/Plethb, Imped. , IBP
RR/Apnea/CVA (ECG)	ECG, Imped. , Pleth/Plethb, IBP
RR/Apnea (CO2)	ECG, CO2, Pleth/Plethb, IBP, Imped.
RR/Apnea (AG)	ECG, CO2, Pleth/Plethb, IBP, Imped.
RR/Apnea (RM)	ECG, Paw, Flow, Vol, CO2, IBP
SpO ₂ /SpO ₂ PR	ECG, Pleth, IBP
SpO ₂ b/SpO ₂ b PR	ECG, Plethb, IBP
ΔSPO ₂	ECG, Pleth, Plethb
PR (IBP)	ECG, IBP that is source of PR, Pleth/Plethb
No Pulse, Asystole	ECG, Pleth/Plethb, IBP, Imped.
NIBP	ECG, Pleth/Plethb, Imped.
T1/T2/ΔT	ECG, Pleth/Plethb, Imped.
IBP/IBP Pulse Rate	IBP, ECG, Pleth/Plethb, Imped. , EEG

Alert	Waveform Class Priority
ICP	ICP, ECG, Pleth/Plethb, Imped. , EEG
TBlood	ECG, IBP, Pleth/Plethb
CO ₂	ECG, CO2, Pleth/Plethb, Imped. , IBP, EEG
O ₂	ECG, O2, Pleth/Plethb, IBP, EEG
AA	ECG, AA, Pleth/Plethb, IBP, EEG
N2O	ECG, N2O, Pleth/Plethb, IBP, EEG
MAC>3	ECG, AA, N2O, IBP, Pleth/Plethb, CO2
BIS	EEG LT, EEG RT, ECG, IBP, CO2
MVe/PEEP/PIP(RM)	ECG, Paw, Vol, Flow
C.I./TFC(ICG)	ECG, ICG, Pleth/Plethb, CO2, Imped., IBP
CCO, CCO and related parameters	ECG, IBP, Pleth/Plethb
SvO2/ScvO2	ECG, Pleth/Plethb, IBP
tcpCO2/tcpO2	ECG, CO2, O2, Pleth/Plethb, Imped.
Train of Four	ECG, EEG LT, EEG RT, Pleth/Plethb, CO2, Imped., IBP
rSO2	ECG, Pleth/Plethb, IBP, CO2

Table 39 Class Waveform Priority

Class	Class Waveform Priority
ECG	ECG II, ECG I, ECG V1, ECG V2, ECG V3, ECG V4, ECG V5, ECG V6, ECG Va, ECG Vb, ECG III, ECG AVR, ECG AVL, ECG AVF
Pleth/Plethb	Pleth, Pleth b
IBP	ART, ART2, pART, PA, AO, UAP, BAP, FAP, CVP, pCVP, LAP, RAP, ICP, UVP, LVP, IBP1, IBP2, IBP3, IBP4, IBP5, IBP6, IBP7, IBP8, IAP
EEG	EEG1, EEG2, EEG3, EEG4
Imped.	Transthoracic Impedence
CO2	CO2
Paw	Airway Pressure
Flow	Airway Flow
Vol	Airway Volume

Class	Class Waveform Priority
ICG	ICG
O2	O2
AA	Halothane, Enflurane, Isoflurane, Sevoflurane, or Desflurane; whichever is the primary agent.
N2O	N2O
EEG LT	EEG LT
EEG RT	EEG RT

The following table specifies the structure of the waveform data block

Segment	Meaning	Usage	Cardinality
OBR	Waveform Identification	R	[1..1]
{	--- WAVEFORM START	R	[1..N]
OBX	Waveform Data	R	[1..1]
OBX	Sample Rate	R	[1..1]
OBX	Resolution	R	[1..1]
OBX	Invalid Value Specification	C	[0..1]
OBX	Event	C	[0..N]
}	--- WAVEFORM END		

Notes on OBX-4 Sub-ID:

OBX-4 for the waveform data OBX follows the standard IHE format of M.V.C.I, where M = System, V = Virtual Device, V = Channel, I = Metric. I is set to the OBX-3.1 value for the parameter. The following OBXs that contain specifications for the waveform data follow the format of M.V.C.I.F, where F is an incrementing integer for each new OBX. The M.V.C.I component is identical to the value in the data OBX. This allows the specifications to be associated with the data OBX.

4.4.1.1.6.1 OBR Waveform segment

Table 40 OBR Waveform Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBR
2	427	EI	C	[0..1]		Placer Order Number
3	427	EI	R	[1..1]		Filler Order Number

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
4	705	CWE	R	[1..1]		Universal Service Identifier
5	2	ID	X	[0..0]		Priority - OBR
6	24	DTM	X	[0..0]		Request Date/Time
7	24	DTM	R	[1..1]		Observation Date/Time of first sample
8	24	DTM	R	[1..1]		Observation Date/Time of the end of the last sample interval

4.4.1.1.6.1.1 *OBR-1 Set ID – OBR (SI)*

OBR-1 shall contain an integer that is incremented by one for each successive OBR segment in the message.

4.4.1.1.6.1.2 *OBR-2 Placer Order Number (EI)*

This field shall be empty

4.4.1.1.6.1.3 *OBR-3 Filler Order Number (EI)*

This field shall be populated in the same manner as the standard OBR segment OBR-3 field.

4.4.1.1.6.1.4 *OBR-4 Universal Service Identifier (CWE)*

This field is filled in with “BOUNDED WAVEFORM”

4.4.1.1.6.1.5 *OBR-7 Observation Date/Time Start Time (DTM)*

This field identifies the time of the first waveform sample.

4.4.1.1.6.1.6 *OBR-8 Observation Date/Time End Time (DTM)*

This field identifies the time of the last waveform sample interval. The value should be identical to the OBR-7 of the next waveform message.

4.4.1.1.6.2 *Waveform OBX segment, Waveform Data*

This OBX specifies the data samples for the waveform

Table 41 Waveform Data OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	65536	NA	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units
20	705	CWE	RE	[0..*]	0163	Observation Site

4.4.1.1.6.2.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.4.1.1.6.2.2 *OBX-2 Value Type (ID)*

OBX-2 will be populated with “NA”.

4.4.1.1.6.2.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 will be populated with appropriate Waveform Identifier specified in *Table 103 Waveform* codes.

4.4.1.1.6.2.4 *OBX-4 Observation Sub-ID (ST)*

OBX-4 will contain M.V.C.I.

4.4.1.1.6.2.5 *OBX-5 Observation Value (NA)*

OBX-5 will be populated with an array of integer ADC values representing the waveform samples. The values shall be separated by the component separator “^”.

4.4.1.1.6.2.6 *OBX-6 Units (CWE)*

OBX-6 will be populated with units of the values. Since the values are ADC counts the units should be “262656^MDC_DIM_DIMLESS^MDC”.

4.4.1.1.6.2.7 *OBX-20 Observation Site (CWE)*

OBX-20 will be populated with the observation site of the waveform if necessary.

4.4.1.1.6.3 *Waveform OBX segment, Waveform Sample Rate*

This OBX specifies the sample rate for the waveform.

Table 42 Sample Rate OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	NM	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units

4.4.1.1.6.3.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.4.1.1.6.3.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “NM”.

4.4.1.1.6.3.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “0^MDC_ATTR_SAMP_RATE^MDC”

4.4.1.1.6.3.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain M.V.C.I.1.

4.4.1.1.6.3.5 *OBX-5 Observation Value (NM)*

OBX-5 shall be populated with the sample rate of the waveform.

4.4.1.1.6.3.6 *OBX-6 Units (CWE)*

OBX-5 shall be populated with “264608^MDC_DIM_PER_SEC^MDC”.

4.4.1.1.6.4 *Waveform OBX segment, Waveform Resolution*

This OBX specifies the resolution for the waveform.

Table 43 Resolution OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	NM	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units

4.4.1.1.6.4.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.4.1.1.6.4.2 *OBX-2 Value Type (ID)*

OBX-2 will be populated with “NM”.

4.4.1.1.6.4.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 will be populated with “2327^MDC_ATTR_NU_MSMT_RES^MDC”.

4.4.1.1.6.4.4 *OBX-4 Observation Sub-ID (ST)*

OBX-4 will contain M.V.C.I.2.

4.4.1.1.6.4.5 *OBX-5 Observation Value (NM)*

OBX-5.1 shall contain the data resolution in units per sample.

4.4.1.1.6.4.6 *OBX-6 Units (CWE)*

OBX-5 will be populated with MDC code for the units of measure for the waveform data. See section 0

Units of Measure for available units of measure.

4.4.1.1.6.5 Waveform OBX segment, Invalid Value

This OBX specifies the value in the waveform data that indicates an invalid value. This segment is optional if the waveform does not contain an invalid value.

Table 44 Invalid value OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	NM	R	[1..1]		Observation Value

4.4.1.1.6.5.1 OBX-1 Set ID – OBX (SI)

The eGateway shall set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.4.1.1.6.5.2 OBX-2 Value Type (ID)

OBX-2 will be populated with “NM”.

4.4.1.1.6.5.3 OBX-3 Observation Identifier (CWE)

OBX-3 will be populated with “262196^MDC_EVT_INOP^MDC”.

4.4.1.1.6.5.4 OBX-4 Observation Sub-ID (ST)

OBX-4 will contain M.V.C.I.3.

4.4.1.1.6.5.5 OBX-5 Observation Value (NM)

OBX-5.1 will contains the waveform data sample value that flags an invalid value.

4.4.1.1.6.6 Waveform OBX segment, Event

This OBX specifies an event in the waveform data. This segment is optional if the waveform segment does not contain any events. Multiple event segments can be included if multiple events occur in the segment.

Table 45 Event OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	705	CWE	R	[1..1]		Observation Value
14	24	DTM	RE	[0..1]		Observation Date/Time

4.4.1.1.6.6.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.4.1.1.6.6.2 *OBX-2 Value Type (ID)*

OBX-2 will be populated with “CWE”.

4.4.1.1.6.6.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 will be populated with “0^MDC_ATTR_EVENT^MDC”.

4.4.1.1.6.6.4 *OBX-4 Observation Sub-ID (ST)*

OBX-4 will contain M.V.C.I.F.

4.4.1.1.6.6.5 *OBX-5 Observation Value (CWE)*

OBX-5.1 will contain the code representing the event type.

4.4.1.1.6.6.6 *OBX-14 Observation Date/Time (DTM)*

OBX-14 will contain the time of the event with millisecond resolution.

4.4.1.1.7 *Observation Data Block*

The presence of the Observation Data Block is indicated by an OBR segment containing “182777000^monitoring of patient^SCT” in the OBR-4 field. The Observation Data Block can be configured to be included or excluded from the alarm message.

This OBR block follows the same format as the Observation Data Block defined in section 4.3.1.1.1.6 *Observation Data Block*.

The following parameters will be send when available:

- Heart Rates (ECG)
- Pulse Rates (SpO₂, IBPs)
- SpO₂
- Respiration Rates (ECG, CO₂)
- Arterial Pressures (Arterial 1, Arterial 2, Femoral, Brachial, IBP1-8)
- NIBP

Technical alarms do not contain observation data.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.4.1.1.7.1 OBR segment

This segment follows the standard OBR segment definition defined in section 4.2.2.4 *OBR segment* with the exceptions and restrictions defined in this section.

4.4.1.1.7.1.1 OBR-2 Placer Order Number (EI)

This field shall be empty

4.4.1.1.7.1.2 OBR-4 Universal Service Identifier (CWE)

OBR-4 shall be populated with “182777000^monitoring of patient^SCT”

4.4.1.1.7.2 OBX segment

4.4.1.2 Alert Message Acknowledgement (ACK^R40)

4.4.1.2.1 ACK^R40 Structure

This message is expected as an acknowledgement to the ORU^R40^ORU_R40 message sent by Mindray's devices.

Table 46 ACK^R40 Acknowledgement Message Definition

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.4.1.2.2 MSH Segment

The Alert Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.4.1.2.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.4.1.2.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.4.1.2.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the acknowledging application.

4.4.1.2.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the acknowledging application.

4.4.1.2.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the Data Message.

4.4.1.2.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the Data Message.

4.4.1.2.2.7 MSH-7 Date/Time of Message (DTM)

MSH-6 shall contain the time the acknowledgement message was sent.

4.4.1.2.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "ACK^R40^ACK" in an Alert Acknowledgement message.

4.4.1.2.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.4.1.2.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.4.1.2.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.4.1.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.4.1.2.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.4.1.2.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.4.1.2.3 SFT Segment

This segment is ignored by the eGateway.

4.4.1.2.4 MSA Segment

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.4.1.2.5 ERR Segment

This segment is ignored by the eGateway.

4.4.1.3 Heart Beat Message (ZHB^Z01^ZHB_Z01)

This is a message sent by the interface to indicate that it is still up and running. It does not expect an acknowledgement from the receiving system. The rate at which the heart beat message is sent can be configured by the user. It is disabled by default.

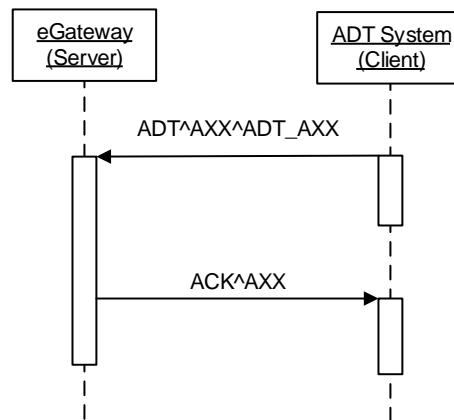
This message follows the same format defined in 4.2.3.2 *Heart Beat Message (ZHB^Z01^ZHB_Z01)*.

4.5 ADT Interfaces

4.5.1 ADT Feed

4.5.1.1 Message definitions

The eGateway can process multiple standard HL7 ADT messages. The following sequence diagram shows the interaction all forms of these messages use.



4.5.1.1.1 Admit/Visit Notification (ADT^A01^ADT_A01)

Table 47 ADT_A01 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.2 Transfer a Patient (ADT^A02^ADT_A02)

Table 48 ADT_A02 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]

Segment	Meaning	Usage	Cardinality
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.3 Discharge/End Visit (ADT^A03^ADT_A03)

Table 49 ADT_A03 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.4 Register a Patient (ADT^A04^ADT_A01)

Table 50 ADT_A01 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.5 Pre-Admit a Patient (ADT^A05^ADT_A05)

Table 51 ADT_A05 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]

Segment	Meaning	Usage	Cardinality
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.6 [Change an Outpatient to an Inpatient \(ADT^A06^ADT_A06\)](#)

Table 52 ADT_A06 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.7 [Change an Inpatient to an Outpatient \(ADT^A07^ADT_A06\)](#)

Table 53 ADT_A06 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

(PV1 should be used since the event can change the assigned location, PAN, or VN)

4.5.1.1.8 [Update Patient Information \(ADT^A08^ADT_A01\)](#)

Table 54 ADT_A01 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]

Segment	Meaning	Usage	Cardinality
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]
[[OBX]]	Observation/Result	R	[0..3]

4.5.1.1.9 Patient Departing - Tracking (ADT^A09^ADT_A09)

Table 55 ADT_A09 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.10 Patient Arriving - Tracking (ADT^A10^ADT_A09)

Table 56 ADT_A09 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.11 Cancel Admit/Visit Notification (ADT^A11^ADT_A09)

Table 57 ADT_A09 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]

Segment	Meaning	Usage	Cardinality
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.12 Cancel Transfer (ADT^A12^ADT_A12)

Table 58 ADT_A12 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.13 Cancel Discharge/End Visit (ADT^A13^ADT_A01)

Table 59 ADT_A01 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.14 Pending Admit (ADT^A14^ADT_A05)

Table 60 ADT_A05 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]

Segment	Meaning	Usage	Cardinality
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.15 Pending Transfer (ADT^A15^ADT_A15)

Table 61 ADT_A15 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.16 Pending Discharge (ADT^A16^ADT_A16)

Table 62 ADT_A16 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.17 Swap Patients (ADT^A17^ADT_A17)

Table 63 ADT_A17 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]

Segment	Meaning	Usage	Cardinality
PID	Patient Identification 1	R	[1..1]
PV1	Patient Visit 1	R	[1..1]
PID	Patient Identification 2	R	[1..1]
PV1	Patient Visit 2	R	[1..1]

4.5.1.1.18 Merge Patient Information (ADT^A18^ADT_A18)

Table 64 ADT_A18 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
PD1	Additional Demographics	X	[0..0]
PID	Merge Information	R	[1..1]
PV1	Patient Visit	X	[0..0]

4.5.1.1.19 Bed Status Update (ADT^A20^ADT_A20)

The eGateway does not support this message.

4.5.1.1.20 Patient Goes on a Leave of Absence (ADT^A21^ADT_A21)

The eGateway does not support this message.

4.5.1.1.21 Patient Returns from a Leave of Absence (ADT^A22^ADT_A21)

The eGateway does not support this message.

4.5.1.1.22 Delete a Patient Record (ADT^A23^ADT_A21)

Table 65 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.23 [Link Patient Information \(ADT^A24^ADT_A24\)](#)

The eGateway does not support this message.

4.5.1.1.24 [Cancel Pending Discharge \(ADT^A25^ADT_A21\)](#)

Table 66 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.25 [Cancel Pending Transfer \(ADT^A26^ADT_A21\)](#)

Table 67 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.26 [Cancel Pending Admit \(ADT^A27^ADT_A21\)](#)

Table 68 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.27 Add Person or Patient Information (ADT^A28^ADT_A05)

Table 69 ADT_A05 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.28 Delete Person Information (ADT^A29^ADT_A21)

Table 70 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.29 Merge Person Information (ADT^A30^ADT_A30)

Table 71 ADT_A30 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.30 Update patient information (ADT^A31^ADT_A05)

Table 72 ADT_A05 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.31 Cancel Patient Arriving – Tracking (ADT^A32^ADT_A21)

Table 73 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.32 Cancel Patient Departing – Tracking (ADT^A33^ ADT_A21)

Table 74 ADT_A21 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.33 Merge Patient Information – Patient ID Only (ADT^A34^ADT_A30)

Table 75 ADT_A30 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.34 Merge Patient Information – Account Number Only (ADT^A35^ADT_A30)

Table 76 ADT_A30 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.35 Merge Patient Information – Patient ID and Account Number (ADT^A36^ADT_A30)

Table 77 ADT_A30 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.36 Unlink Patient Information (ADT^A37^ADT_A37)

The eGateway does not support this message.

4.5.1.1.37 Cancel Pre-Admit (ADT^A38^ADT_A38)

Table 78 ADT_A38 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PV1]	Patient Visit	O	[0..1]

4.5.1.1.38 Merge Person – Patient ID (ADT^A39^ADT_39)

Table 79 ADT_A39 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.39 Merge Patient – Patient Identifier List (ADT^A40^ADT_A39)

Table 80 ADT_A39 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]

Segment	Meaning	Usage	Cardinality
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.40 Merge Person – Patient Account Number (ADT^A41^ADT_39)

Table 81 ADT_A39 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.41 Merge Visit - Visit Number (ADT^A42^ADT_A39)

Table 82 ADT_A39 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.42 Move Patient Information – Patient Identifier List (ADT^A43^ADT_A43)

Table 83 ADT_A43 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.43 Move Patient Information – Patient Account Number (ADT^A44^ADT_A43)

Table 84 ADT_A43 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.44 Move Visit Information – Visit Number (ADT^A45^ ADT_A45)

Table 85 ADT_A45 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.45 [Change Patient ID \(ADT^A46^ADT_A30\)](#)

Table 86 ADT_A30 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.46 [Change Patient Identifier List \(ADT^A47^ADT_A30\)](#)

Table 87 ADT_A30 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.47 [Change Alternate Patient ID \(ADT^A48^ADT_A30\)](#)

The eGateway does not support this message.

4.5.1.1.48 [Change Patient Account Number \(ADT^A49^ADT_A30\)](#)

The eGateway does not support this message.

4.5.1.1.49 [Change Visit Number \(ADT^A50^ADT_A50\)](#)

Table 88 ADT_A50 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	R	[1..1]

4.5.1.1.50 [Change Alternate Visit ID \(ADT^A51^ADT_A50\)](#)

The eGateway does not support this message.

4.5.1.1.51 [Cancel Leave of Absence for a Patient \(ADT^A52^ADT_A52\)](#)

The eGateway does not support this message.

4.5.1.1.52 [Cancel Patient Returns from a Leave of Absence \(ADT^A53^ADT_A52\)](#)

The eGateway does not support this message.

4.5.1.1.53 [Change Attending Doctor \(ADT^A54^ADT_A54\)](#)

Table 89 ADT_A54 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	O	[0..1]

4.5.1.1.54 [Cancel Change Attending Doctor \(ADT^A55^ADT_A54\)](#)

Table 90 ADT_A54 message structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]

Segment	Meaning	Usage	Cardinality
EVN	Event Type	R	[1..1]
PID	Patient Identification	R	[1..1]
[PD1]	Additional Demographics	O	[0..1]
MRG	Merge Information	R	[1..1]
PV1	Patient Visit	O	[0..1]

4.5.1.2 Common ADT Segments

This section defines the segments used by the ADT messages. The individual messages will define any specific uses for individual fields of the segments.

4.5.1.2.1 MSH Segment

The ADT messages use the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	X		0362	Receiving Application
6	277	HD	X		0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
21	427	EI	X			Message Profile Identifier

4.5.1.2.1.1.1 *MSH-1 Field Separator (ST)*

MSH-1 shall contain the field separator used in the message.

4.5.1.2.1.1.2 *MSH-2 Encoding Characters (ST)*

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.5.1.2.1.1.3 *MSH-3 Sending Application (HD)*

MSH-3 shall contain the sending application identifier for the sending application.

4.5.1.2.1.1.4 *MSH-4 Sending Facility (HD)*

MSH-4 should contain the sending facility identifier for the sending application.

4.5.1.2.1.1.5 *MSH-7 Date/Time of Message (DTM)*

MSH-6 shall contain the time the message was sent.

4.5.1.2.1.1.6 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with ADT messages message type.

4.5.1.2.1.1.7 *MSH-10 Message Control ID (ST)*

MSH-10 shall be populated with a unique identifier for this message

4.5.1.2.1.1.8 *MSH-11 Message Processing ID (PT)*

MSH-11 shall be populated with "P" for production.

4.5.1.2.1.1.9 *MSH-12 Version ID (VID)*

MSH-12 shall be populated with "2.6".

4.5.1.2.1.1.10 *MSH-15 Accept Acknowledgement Type (ID)*

MSH-15 should be populated with "AL" or be empty.

4.5.1.2.1.1.11 *MSH-16 Application Acknowledgement Type (ID)*

MSH-16 should be populated with "NE" or be empty.

4.5.1.2.1.1.12 *MSH-18 Character Set (ID)*

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.5.1.2.2 *SFT Segment*

The eGateway ignores this segment on received messages though it can be used to aid in trouble shooting. It should follow the common SFT segment definition found in section 4.2.2.1 *SFT Segment*.

4.5.1.2.3 *PID Segment*

The PID segment for the ADT Messages use the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	250	CX	R	[1..1]		Patient Identification List
5	250	XPN	R	[1..1]		Patient Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
11	250	XAD	RE	[0..1]		Patient Address
18	250	CX	RE	[0..1]		Patient Account Number
35	250	CE	RE	[0..1]		CustomAttr1
36	250	CE	RE	[0..1]		CustomAttr2

4.5.1.2.3.1.1 *PID-3 Patient Identification List (CX)*

PID-3 shall contain information regarding the patient's identifying number.

4.5.1.2.3.1.1.1 PID-3.1 ID Number (ST)

PID-3.1 shall contain the patient's ID.

4.5.1.2.3.1.2 *PID-5 Patient Name (XPN)*

PID-5 shall contain the patient's name.

4.5.1.2.3.1.3 *PID-5.1.1 Family Name.Surname (ST)*

PID-5.1.1 shall contain the patient's family name.

4.5.1.2.3.1.4 *PID-5.2 Given Name (ST)*

PID-5.2 shall contain the patient's given name.

4.5.1.2.3.1.5 *PID-5.3 Second or Further Given Names (ST)*

PID-5.3 shall contain the patient's middle name.

4.5.1.2.3.1.6 *PID-7 Date/Time of Birth (DTM)*

PID-7 shall contain the patient's date of birth if available.

4.5.1.2.3.1.7 *PID-8 Administrative Sex (IS)*

PID-8 shall contain the patient's gender from 错误!未找到引用源。 if available.

Table 91 HL7 Table 0001 Administrative Sex

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.5.1.2.3.1.8 *PID-11 Patient Address (XAD)*

PID-11 shall contain the patient's address if available.

4.5.1.2.3.1.9 *PID-18 Patient's Account Number (CX)*

PID-18 shall contain the patient's account number if available.

4.5.1.2.3.1.10 *PID-35 CustomAttr1*

The PID-35.1 field shall be populated with the Value of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-35.2 field shall be populated with the Name of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.1.2.3.1.11 *PID-36 CustomAttr2*

The PID-36.1 field shall be populated with the Value of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-36.2 field shall be populated with the Name of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.1.2.4 *PV1 Segment*

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	RE	[0..1]		Attending Doctor
8	250	XCN	X	[0..0]		Referring Doctor
9	250	XCN	X	[0..0]		Consulting Doctor
17	250	XCN	X	[0..0]		Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
50	250	CE	RE	[0..1]		CustomAttr3
52	250	CE	RE	[0..1]		CustomAttr4

4.5.1.2.4.1 *PV1-3 Assigned Location (PL)*

PV1-3 shall be populated with the patient's assigned location.

4.5.1.2.4.1.1 *PV1-3.1 Point-of-Care (ST)*

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.5.1.2.4.1.2 *PV1-3.2 Room (ST)*

PV1-3.2 shall contain room the patient is assigned to.

4.5.1.2.4.1.3 *PV1-3.3 Bed (ST)*

PV1-3.3 shall contain bed the patient is assigned to.

4.5.1.2.4.1.4 *PV1-3.4.1 Facility.NamespaceID (ST)*

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.5.1.2.4.2 *PV1-7 Attending Doctor (XCN)*

PV1-7 shall contain Attending Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.1.2.4.3 *PV1-8 Referring Doctor (XCN)*

PV1-7 shall contain Referring Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.1.2.4.4 *PV1-19 Visit Number (CX)*

PV1-19 shall be populated with the visit number associated with the patient's current visit.

4.5.1.2.4.5 *PV1-50 CustomAttr3*

The PV1-50.1 field shall be populated with the Name of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

The PV1-50.2 field shall be populated with the Value of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.1.2.4.6 *PV1-52 CustomAttr4*

The PV1-52.1 field shall be populated with the Name of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

The PV1-52.2 field shall be populated with the Value of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.1.2.5 *MRG Segment*

The ADT message received by the eGateway uses the following MRG segment structure. The fields used will vary based on the ADT message type.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	250	CX	R	[1..N]		Prior Patient Identifier List
2	250	CX	X	[0..0]		Prior Alternate Patient ID
3	250	CX	O	[0..1]		Prior Patient Account Number
4	250	CX	X	[0..0]		Prior Patient ID
5	250	CX	O	[0..1]		Prior Visit Number
6	250	CX	X	[0..0]		Prior Alternate Visit ID

7	250	XPN	X	[0..0]		Prior Patient Name
---	-----	-----	---	--------	--	--------------------

4.5.1.2.6 OBX Segment

Table 92 ADT OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	X			Observation Sub-ID
5	99999	varies	C	[0..1]		Observation Value
6	250	CWE	C	[0..1]		Units
7	60	ST	X			Reference Range
8	5	IS	X		<u>0078</u>	Abnormality Flags
9	5	NM	X			Probability
10	2	ID	X		0080	Nature of Abnormal Test
11	2	ID	R	[1..1]	<u>0085</u>	Observation Result Status
12	24	DTM	X			Effective Date of Reference Range
13	20	ST	X			User Defined Access Check
14	24	DTM	RE	[0..1]		Date/Time of Observation
15	250	CWE	X			Producer's ID
16	250	XCN				Responsible Observer
17	250	CWE	X			Observation Method
18	22	EI	X			Equipment Instance Identifier
19	24	DTM	X			Date/Time of Analysis
20	705	CWE	X		<u>0163</u>	Observation Site

4.5.1.2.6.1.1.1 OBX-1 Set ID OBX (SI)

The first occurrence this field in a message shall be set to 1 and increment the value for each subsequent OBX segment in the same ADT message.

4.5.1.2.6.1.1.2 OBX-2 Value Type (ID)

The OBX-2 field shall be populated using the values found in below. It is used to identify the data type of the OBX-5 field.

4.5.1.2.6.1.1.3 OBX-3 Observation Identifier (CWE)

OBX-3 shall contain one of the values below to identify the observation being sent in the OBX-5 field.

Table 93 Accepted ADT Observation Values

Observation	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3
Patient Height	NM	68060	MDC_ATTR_PT_HEIGHT	MDC
Patient Weight	NM	68063	MDC_ATTR_PT_WEIGHT	MDC
Blood Type	ST	2302	MNDRY_ATTR_PT_BLOOD_TYPE	99MNDRY
Paced	ST	30459	MNDRY_ATTR_PT_EVT_PACER_MODE	99MNDRY

4.5.1.2.6.1.1.4 OBX-5 Observation Value (variable)

OBX-5 shall contain the value of the observation.

Height must be sent as a numeric value in centimeters

Weight must be sent as a numeric value in kilograms

Table 94 Blood Type Values

Blood Type	Value	Comment
A	A	
B	B	
AB	AB	
O	O	
Not Available	NA	Blood type value is not available
Unknown	Unknown	Blood type was undetermined

Table 95 Paced Values

Paced	Value	Comment
Patient is Paced	On	
Patient is not Paced	Off	

4.5.1.2.6.1.1.5 OBX-6 Units (CWE)

the eGateway ignores this field

4.5.1.2.6.1.1.6 OBX-11 Observation Result Status (ID)

This field shall be populated with "F".

4.5.1.2.6.1.1.7 OBX-14 Date/Time of Observation (DTM)

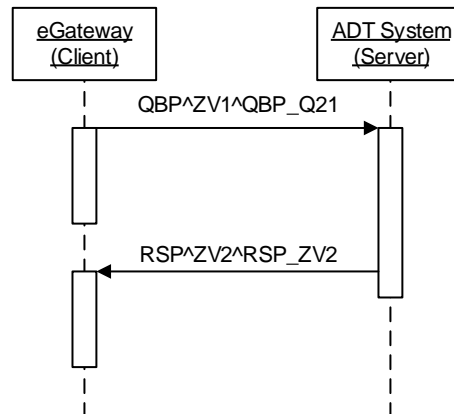
OBX-14 shall be contain the time the observation was made.

4.5.2 ADT Query

4.5.2.1 QBP^ZV1 Query

This message follows the IHE IT Infrastructure Technical Framework’s definition of the ITI-22 “Patient Demographics and Visit Query” message.

4.5.2.1.1 Message definitions



4.5.2.1.1.1 Query Message (QBP^ZV1^QBP_Q21)

4.5.2.1.1.1.1 QBP^ZV1^QBP_Q21 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
QPD	Query Parameter Definition	R	[1..1]
RCP	Response Control Parameter	R	[1..1]

4.5.2.1.1.1.2 MSH Segment

The ADT Query message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.5.2.1.1.1.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator.

4.5.2.1.1.1.2.2 MSH-2 Encoding Characters (ST)

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.5.2.1.1.1.2.3 MSH-3 Sending Application (HD)

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.5.2.1.1.1.2.4 MSH-4 Sending Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.1.1.1.2.5 MSH-5 Receiving Application (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.1.1.1.2.6 MSH-6 Receiving Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.1.1.1.2.7 MSH-7 Date/Time of Message (DTM)

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.5.2.1.1.1.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "QBP^ZV1^QBP_Q21" in a Query message.

4.5.2.1.1.1.2.9 MSH-10 Message Control ID (ST)

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.5.2.1.1.1.2.10 MSH-11 Message Processing ID (PT)

This field shall be populated with "P" for production.

4.5.2.1.1.1.2.11 MSH-12 Version ID (VID)

This field shall be populated with "2.6".

4.5.2.1.1.1.2.12 MSH-15 Accept Acknowledgement Type (ID)

This field shall be populated with "AL".

4.5.2.1.1.1.2.13 MSH-16 Application Acknowledgement Type (ID)

This field shall be populated with "NE".

4.5.2.1.1.1.2.14 MSH-18 Character Set (ID)

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.5.2.1.1.1.3 *QPD Segment*

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	250	CE	R	[1..1]	0471	Message Query Name
2	32	ST	R	[1..1]		Query Tag
3	256	QIP	R	[1..3]		Demographics and Visit Fields
8		CX	X	[0..0]		What Domains Returned

4.5.2.1.1.1.3.1 QPD-1 Message Query Name (CE)

This field shall be populated with "IHE PDQ Query".

4.5.2.1.1.1.3.2 QPD-2 Query Tag (ST)

The data populated into the QPD-2 field by the eGateway will be a string "QueryTag_" + a number. The number starts at one, incrementing by one with each sent query message.

4.5.2.1.1.1.3.3 QPD-3 Demographics Fields (QIP)

This field consists of one or more repetitions, each of which contains two components that together contain the name and value of a distinct parameter to the query. An example of a query based on the Patient Identifier is:

```
| @PID.3.1^MRN012345 |
```

4.5.2.1.1.1.3.3.1 QPD-3.1 Segment Field Name

This component identified the field that is being queried. It uses the following format:

@<seg>.<field no>.<component no>.<subcomponent no>

The eGateway can query by any combination of the following fields:

Field	Element Name
PID.3.1	Patient Identifier
PID.5.2	Given Name
PID.5.1.1	Family Name

4.5.2.1.1.1.3.3.2 QPD-3.2 Values

This component specifies the value of the field being queried.

4.5.2.1.1.1.3.4 QPD-8 What Domains Returned (CX)

This field is not supported by the eGateway.

4.5.2.1.1.1.4 RCP Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	1	ID	R	[1..1]	00091	Query Priority
2	10	CQ	O	[0..1]	00031	Quantity Limited Request

4.5.2.1.1.1.4.1 RCP-1 Query Priority (ID)

This field will always contain "I"

4.5.2.1.1.1.4.2 RCP-2 Quantity Limited Request (CQ)

4.5.2.1.1.1.4.2.1 RCP-2.1 Quantity (NM)

This field will contain "50" to limit the response to 50 records.

4.5.2.1.1.1.4.2.2 RCP-2.2 Units (CWE)

This field will contain "RD" to specify the quantities specified records.

4.5.2.1.1.2 Query Response Message (*RSP^ZV2^RSP_ZV2*)

4.5.2.1.1.2.1 *RSP^ZV2^RSP_ZV2 Structure*

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	O	[0..1]
QAK	Query Acknowledgement	R	[1..1]
QPD	Query Parameter Definition	R	[1..1]
[	--- PATIENT RESULT begin	O	[0..1]
{	--- PATIENT begin	R	[1..*]
PID	Patient Identification	R	[1..1]
[PID1]	Additional Patient Demographics	X	[0..0]
PV1	Patient Visit	O	[0..1]
[PV2]	Patient Visit – Additional Information	X	[0..0]
[QRI]	Query Response Instance	X	[0..*]
}	--- PATIENT end		
]	--- PATIENT RESULT end		

4.5.2.1.1.2.2 *MSH Segment*

The ADT Query Response message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.5.2.1.1.2.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.5.2.1.1.2.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.5.2.1.1.2.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the replying application.

4.5.2.1.1.2.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the replying application.

4.5.2.1.1.2.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the ADT Query message.

4.5.2.1.1.2.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the ADT Query message.

4.5.2.1.1.2.2.7 MSH-7 Date/Time of Message (DTM)

MSH-7 shall contain the time the acknowledgement message was sent.

4.5.2.1.1.2.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "RSP^ZV2^RSP_ZV2" in an ADT Query Response message.

4.5.2.1.1.2.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.5.2.1.1.2.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.5.2.1.1.2.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.5.2.1.1.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.5.2.1.1.2.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.5.2.1.1.2.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.5.2.1.1.2.3 *SFT Segment*

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. The eGateway ignores this segment.

4.5.2.1.1.2.4 *ERR Segment*

This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. The eGateway ignores this segment. If the acknowledger return an error code in the MSA segment, this segment should be included to aid debugging.

4.5.2.1.1.2.5 *QAK Segment*

The QAK segment uses the following format.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	32	SI	R	[1..1]		Query Tag
2	2	ID	R+	[1..1]	0208	Query Response Status

4.5.2.1.1.2.5.1 QAK-1 Query Tag (SI)

This field shall be populated with the value sent in the original query's QPD-2 "Query Tag" field.

4.5.2.1.1.2.5.2 QAK-2 Query Response Status (ID)

This field shall be populated with the query's status. The valid values are defined in the table below.

Table 96 HL7 Table 0208 Query Response Status

Value	Gender
OK	Data found, no errors
NF	No data found, no errors
AE	Application error
AR	Application reject

4.5.2.1.1.2.6 *QPD Segment*

This segment shall echo the values sent in the original query's QPD segment.

4.5.2.1.1.2.7 *PID Segment*

The PID segment for the Demographics Query Response Message uses the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	250	CX	R	[1..1]		Patient Identification List
5	250	XPN	R	[1..1]		Patient Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
11	250	XAD	RE	[0-2]		Patient Address
18	250	CX	RE	[0-2]		Patient Account Number
35	250	CE	RE	[0..1]		CustomAttr1
36	250	CE	RE	[0..1]		CustomAttr2

4.5.2.1.1.2.7.1 PID-3 Patient Identification List (CX)

PID-3 shall contain information regarding the patient's identifying number.

4.5.2.1.1.2.7.1.1 *PID-3.1 ID Number (ST)*

PID-3.1 shall contain the patient's ID.

4.5.2.1.1.2.7.2 PID-5 Patient Name (XPN)

PID-5 shall contain the patient's name.

4.5.2.1.1.2.7.2.1 *PID-5.1.1 Family Name.Surname (ST)*

PID-5.1.1 shall contain the patient's family name.

4.5.2.1.1.2.7.2.2 *PID-5.2 Given Name (ST)*

PID-5.2 shall contain the patient's given name.

4.5.2.1.1.2.7.2.3 *PID-5.3 Second or Further Given Names (ST)*

PID-5.3 shall contain the patient's middle name.

4.5.2.1.1.2.7.3 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient's date of birth if available.

4.5.2.1.1.2.7.4 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient's gender from 错误!未找到引用源。 if available.

Table 97 HL7 Table 0001 Administrative Sex

Value	Gender
<Blank>	Not defined

M	Male
F	Female
U	Unknown

4.5.2.1.1.2.7.5 PID-11 Patient Address (XAD)

PID-11 shall contain the patient's address if available.

4.5.2.1.1.2.7.6 PID-18 Patient's Account Number (CX)

PID-18 shall contain the patient's account number if available.

4.5.2.1.1.2.7.7 PID-35 CustomAttr1

The PID-35.1 field shall be populated with the Value of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-35.2 field shall be populated with the Name of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.1.1.2.7.8 PID-36 CustomAttr2

The PID-36.1 field shall be populated with the Value of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-36.2 field shall be populated with the Name of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.1.1.2.8 *PV1 Segment*

The PV1 segment for the Demographics Query Response Message uses the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	RE	[0..1]		Attending Doctor
8	250	XCN	RE	[0..1]		Referring Doctor
9	250	XCN	RE	[0..1]		Consulting Doctor
17	250	XCN	RE	[0..1]		Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
50	250	CE	RE	[0..1]		CustomAttr3
52	250	CE	RE	[0..1]		CustomAttr4

4.5.2.1.1.2.8.1 PV1-3 Assigned Location (PL)

PV1-3 shall be populated with the patient's assigned location.

4.5.2.1.1.2.8.1.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.5.2.1.1.2.8.1.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.5.2.1.1.2.8.1.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.5.2.1.1.2.8.1.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.5.2.1.1.2.8.2 PV1-7 Attending Doctor (XCN)

PV1-7 shall contain Attending Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.2.1.1.2.8.3 PV1-8 Referring Doctor (XCN)

PV1-8 shall contain Referring Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.2.1.1.2.8.4 PV1-9 Consulting Doctor (XCN)

PV1-9 shall be populated with information regarding the consulting doctor if it is available.

4.5.2.1.1.2.8.5 PV1-17 Admitting Doctor (XCN)

PV1-17 shall be populated with information regarding the admitting doctor if it is available.

4.5.2.1.1.2.8.6 PV1-19 Visit Number (CX)

PV1-19 shall be populated with the visit number associated with the patient.

4.5.2.1.1.2.8.7 PV1-50 CustomAttr3

The PV1-50.1 field shall be populated with the Name of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

The PV1-50.2 field shall be populated with the Value of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.1.1.2.8.8 PV1-52 CustomAttr4

The PV1-52.1 field shall be populated with the Name of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

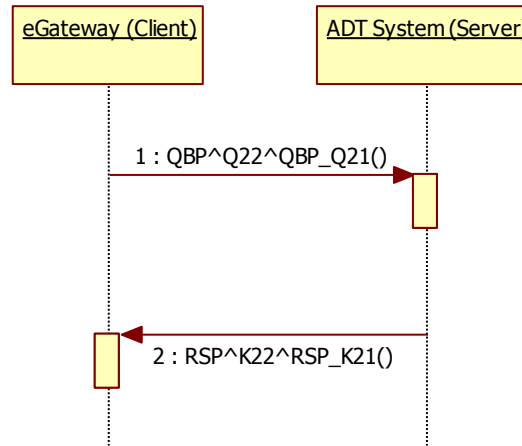
The PV1-52.2 field shall be populated with the Value of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.2 QBP^Q22 Query

The eGateway can be configured to send PDQ Query message by the patient identifier key to EMR. Received PDQ response message from EMR will cause demographics update to monitoring device. In

follow diagram, eGateway acts Patient Demographics Consumer (PDC) Actor, EMR acts Patient Demographics Supplier (PDS) Actor.

4.5.2.2.1 Message definitions



4.5.2.2.1.1 Query Message (QBP^Q22^QBP_Q21)

4.5.2.2.1.1.1 QBP^Q22^QBP_Q21 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
QPD	Query Parameter Definition	R	[1..1]
RCP	Response Control Parameter	R	[1..1]

4.5.2.2.1.1.2 MSH Segment

The ADT Query message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.5.2.2.1.1.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator.

4.5.2.2.1.1.2.2 MSH-2 Encoding Characters (ST)

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.5.2.2.1.1.2.3 MSH-3 Sending Application (HD)

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.5.2.2.1.1.2.4 MSH-4 Sending Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.2.1.1.2.5 MSH-5 Receiving Application (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.2.1.1.2.6 MSH-6 Receiving Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.2.1.1.2.7 MSH-7 Date/Time of Message (DTM)

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.5.2.2.1.1.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "QBP^Q22^QBP_Q21" in a Query message.

4.5.2.2.1.1.2.9 MSH-10 Message Control ID (ST)

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.5.2.2.1.1.2.10 MSH-11 Message Processing ID (PT)

This field shall be populated with "P" for production.

4.5.2.2.1.1.2.11 MSH-12 Version ID (VID)

This field shall be populated with "2.6".

4.5.2.2.1.1.2.12 MSH-15 Accept Acknowledgement Type (ID)

This field shall be populated with "AL".

4.5.2.2.1.1.2.13 MSH-16 Application Acknowledgement Type (ID)

This field shall be populated with "NE".

4.5.2.2.1.1.2.14 MSH-18 Character Set (ID)

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.5.2.2.1.1.3 *QPD Segment*

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	250	CE	R	[1..1]	0471	Message Query Name
2	32	ST	R	[1..1]		Query Tag
3	256	QIP	R	[1..3]		Demographics Fields
8		CX	X	[0..0]		What Domains Returned

4.5.2.2.1.1.3.1 QPD-1 Message Query Name (CE)

This field shall be populated with "IHE PDQ Query".

4.5.2.2.1.1.3.2 QPD-2 Query Tag (ST)

The data populated into the QPD-2 field by the eGateway will be a string "QueryTag_" + a number. The number starts at one, incrementing by one with each sent query message.

4.5.2.2.1.1.3.3 QPD-3 Demographics Fields (QIP)

This field consists of one or more repetitions, each of which contains two components that together contain the name and value of a distinct parameter to the query. An example of a query based on the Patient Identifier is:

```
|@PID.3.1^MRN012345|
```

4.5.2.2.1.1.3.3.1 QPD-3.1 Segment Field Name

This component identified the field that is being queried. It uses the following format:

@<seg>.<field no>.<component no>.<subcomponent no>

The eGateway can query by any combination of the following fields:

Field	Element Name
PID.3.1	Patient Identifier
PID.5.2	Given Name
PID.5.1.1	Family Name

4.5.2.2.1.1.3.3.2 QPD-3.2 Values

This component specifies the value of the field being queried.

4.5.2.2.1.1.3.4 QPD-8 What Domains Returned (CX)

This field is not supported by the eGateway.

4.5.2.2.1.1.4 RCP Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	1	ID	R	[1..1]	00091	Query Priority
2	10	CQ	O	[0..1]	00031	Quantity Limited Request

4.5.2.2.1.1.4.1 RCP-1 Query Priority (ID)

This field will always contain "I"

4.5.2.2.1.1.4.2 RCP-2 Quantity Limited Request (CQ)

4.5.2.2.1.1.4.2.1 RCP-2.1 Quantity (NM)

This field will contain "50" to limit the response to 50 records.

4.5.2.2.1.1.4.2.2 RCP-2.2 Units (CWE)

This field will contain "RD" to specify the quantities specified records.

4.5.2.2.1.2 Query Response Message (*RSP^K22^RSP_K21*)

4.5.2.2.1.2.1 *RSP^K22^RSP_K21* Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	O	[0..1]
QAK	Query Acknowledgement	R	[1..1]
QPD	Query Parameter Definition	R	[1..1]
[	--- PATIENT RESULT begin	O	[0..1]
{	--- PATIENT begin	R	[1..*]
PID	Patient Identification	R	[1..1]
[PID1]	Additional Patient Demographics	X	[0..0]
PV1	Patient Visit	O	[0..1]
[PV2]	Patient Visit – Additional Information	X	[0..0]
[QRI]	Query Response Instance	X	[0..*]
}	--- PATIENT end		
]	--- PATIENT RESULT end		

4.5.2.2.1.2.2 *MSH Segment*

The ADT Query Response message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.5.2.2.1.2.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.5.2.2.1.2.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.5.2.2.1.2.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the replying application.

4.5.2.2.1.2.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the replying application.

4.5.2.2.1.2.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the ADT Query message.

4.5.2.2.1.2.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the ADT Query message.

4.5.2.2.1.2.2.7 MSH-7 Date/Time of Message (DTM)

MSH-7 shall contain the time the acknowledgement message was sent.

4.5.2.2.1.2.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "RSP^K22^RSP_K21" in an ADT Query Response message.

4.5.2.2.1.2.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.5.2.2.1.2.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.5.2.2.1.2.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.5.2.2.1.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.5.2.2.1.2.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.5.2.2.1.2.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.5.2.2.1.2.3 *SFT Segment*

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. The eGateway ignores this segment.

4.5.2.2.1.2.4 *ERR Segment*

This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. The eGateway ignores this segment. If the acknowledger return an error code in the MSA segment, this segment should be included to aid debugging.

4.5.2.2.1.2.5 *QAK Segment*

The QAK segment uses the following format.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	32	SI	R	[1..1]		Query Tag
2	2	ID	R+	[1..1]	0208	Query Response Status

4.5.2.2.1.2.5.1 QAK-1 Query Tag (SI)

This field shall be populated with the value sent in the original query's QPD-2 "Query Tag" field.

4.5.2.2.1.2.5.2 QAK-2 Query Response Status (ID)

This field shall be populated with the query's status. The valid values are defined in the table below.

Value	Gender
OK	Data found, no errors
NF	No data found, no errors
AE	Application error
AR	Application reject

4.5.2.2.1.2.6 *QPD Segment*

This segment shall echo the values sent in the original query's QPD segment.

4.5.2.2.1.2.7 *PID Segment*

The PID segment for the Demographics Query Response Message uses the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	250	CX	R	[1..1]		Patient Identification List
5	250	XPN	R	[1..1]		Patient Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
11	250	XAD	RE	[0-2]		Patient Address
18	250	CX	RE	[0-2]		Patient Account Number
35	250	CE	RE	[0..1]		CustomAttr1
36	250	CE	RE	[0..1]		CustomAttr2

4.5.2.2.1.2.7.1 PID-3 Patient Identification List (CX)

PID-3 shall contain information regarding the patient's identifying number.

4.5.2.2.1.2.7.1.1 *PID-3.1 ID Number (ST)*

PID-3.1 shall contain the patient's ID.

4.5.2.2.1.2.7.2 PID-5 Patient Name (XPN)

PID-5 shall contain the patient's name.

4.5.2.2.1.2.7.2.1 *PID-5.1.1 Family Name.Surname (ST)*

PID-5.1.1 shall contain the patient's family name.

4.5.2.2.1.2.7.2.2 *PID-5.2 Given Name (ST)*

PID-5.2 shall contain the patient's given name.

4.5.2.2.1.2.7.2.3 *PID-5.3 Second or Further Given Names (ST)*

PID-5.3 shall contain the patient's middle name.

4.5.2.2.1.2.7.3 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient's date of birth if available.

4.5.2.2.1.2.7.4 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient's gender from 错误!未找到引用源。 if available.

Value	Gender
<Blank>	Not defined
M	Male

F	Female
U	Unknown

4.5.2.2.1.2.7.5 PID-11 Patient Address (XAD)

PID-11 shall contain the patient's address if available.

4.5.2.2.1.2.7.6 PID-18 Patient's Account Number (CX)

PID-18 shall contain the patient's account number if available.

4.5.2.2.1.2.7.7 PID-35 CustomAttr1

The PID-35.1 field shall be populated with the Value of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-35.2 field shall be populated with the Name of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.2.1.2.7.8 PID-36 CustomAttr2

The PID-36.1 field shall be populated with the Value of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-36.2 field shall be populated with the Name of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.2.1.2.8 *PV1 Segment*

The PV1 segment for the Demographics Query Response Message uses the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	RE	[0..1]		Attending Doctor
8	250	XCN	RE	[0..1]		Referring Doctor
9	250	XCN	RE	[0..1]		Consulting Doctor
17	250	XCN	RE	[0..1]		Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
50	250	CE	RE	[0..1]		CustomAttr3
52	250	CE	RE	[0..1]		CustomAttr4

4.5.2.2.1.2.8.1 PV1-3 Assigned Location (PL)

PV1-3 shall be populated with the patient's assigned location.

4.5.2.2.1.2.8.1.1 *PV1-3.1 Point-of-Care (ST)*

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.5.2.2.1.2.8.1.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.5.2.2.1.2.8.1.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.5.2.2.1.2.8.1.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.5.2.2.1.2.8.2 PV1-7 Attending Doctor (XCN)

PV1-7 shall contain Attending Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.2.2.1.2.8.3 PV1-8 Referring Doctor (XCN)

PV1-8 shall contain Referring Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.2.2.1.2.8.4 PV1-9 Consulting Doctor (XCN)

PV1-9 shall be populated with information regarding the consulting doctor if it is available.

4.5.2.2.1.2.8.5 PV1-17 Admitting Doctor (XCN)

PV1-17 shall be populated with information regarding the admitting doctor if it is available.

4.5.2.2.1.2.8.6 PV1-19 Visit Number (CX)

PV1-19 shall be populated with the visit number associated with the patient.

4.5.2.2.1.2.8.7 PV1-50 CustomAttr3

The PV1-50.1 field shall be populated with the Name of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

The PV1-50.2 field shall be populated with the Value of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.2.1.2.8.8 PV1-52 CustomAttr4

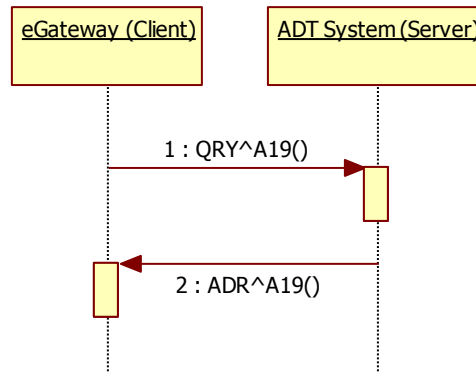
The PV1-52.1 field shall be populated with the Name of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

The PV1-52.2 field shall be populated with the Value of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.3 QRY^A19 Query

The eGateway can be configured to send PDQ Query message by the patient identifier key to EMR. Received PDQ response message from EMR will cause demographics update to monitoring device. In follow diagram, eGateway acts Patient Demographics Consumer (PDC) Actor, EMR acts Patient Demographics Supplier (PDS) Actor.

4.5.2.3.1 Message definitions



4.5.2.3.1.1 Query Message (QRY^A19)

4.5.2.3.1.1.1 QRY^A19 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
QRD	Query Parameter Definition	R	[1..1]

4.5.2.3.1.1.2 MSH Segment

The ADT Query message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.5.2.3.1.1.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator.

4.5.2.3.1.1.2.2 MSH-2 Encoding Characters (ST)

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.5.2.3.1.1.2.3 MSH-3 Sending Application (HD)

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.5.2.3.1.1.2.4 MSH-4 Sending Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.3.1.1.2.5 MSH-5 Receiving Application (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.3.1.1.2.6 MSH-6 Receiving Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.5.2.3.1.1.2.7 MSH-7 Date/Time of Message (DTM)

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.5.2.3.1.1.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "QBP^Q22^QBP_Q21" in a Query message.

4.5.2.3.1.1.2.9 MSH-10 Message Control ID (ST)

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.5.2.3.1.1.2.10 MSH-11 Message Processing ID (PT)

This field shall be populated with "P" for production.

4.5.2.3.1.1.2.11 MSH-12 Version ID (VID)

This field shall be populated with "2.6".

4.5.2.3.1.1.2.12 MSH-15 Accept Acknowledgement Type (ID)

This field shall be populated with "AL".

4.5.2.3.1.1.2.13 MSH-16 Application Acknowledgement Type (ID)

This field shall be populated with "NE".

4.5.2.3.1.1.2.14 MSH-18 Character Set (ID)

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.5.2.3.1.1.3 QRD Segment

The QRD segment is used to define a query. This segment is not IHE compliant.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	26	DTM	R	[1..1]		Query Date/Time
2	1	ID	R	[1..1]	0106	Query Format Code
3	1	ID	R	[1..1]	0091	Query Priority
4	10	ST	R	[1..1]		Query ID
5	1	ID	X		0107	Deferred Response Type
6	26	DTM	X			Deferred Response Date/Time
7	10	CQ	R	[1..1]	0126	Quantity Limited Request
8	60	XCN	C	[0..1]		Who Subject Filter
9	60	CWE	R	[1..*]	0048	What Subject
10	60	CWE	R	[1..*]		What Department Data Code
11	20	VR	X			What Data Code Value Qual.
12	1	ID	X			Query Results Level

4.5.2.3.1.1.3.1 QRD-2 Query Format Code (ID)

The eGateway shall only process queries when QRD-2 is populated with "D".

4.5.2.3.1.1.3.2 QRD-3 Query Priority (ID)

The eGateway shall only process queries when QRD-3 is populated with “D”.

4.5.2.3.1.1.3.3 QRD-4 Query ID (ST)

This field should contain a unique ID for the query.

4.5.2.3.1.1.3.4 QRD-7 Quantity Limits Request (CQ)

4.5.2.3.1.1.3.4.1 QRD-7.1 Quantity

This field should always be populated with 1.000000.

4.5.2.3.1.1.3.4.2 QRD-7.2.1 Units.Identifier

This field should always be populated with “RD”.

4.5.2.3.1.1.3.5 QRD-8 Who Subject Filter (XCN)

The eGateway shall only process queries based on QRD-8 “Who”.

4.5.2.3.1.1.3.5.1 QRD-8.1 Patient ID (ST)

The eGateway shall only utilize the first 20 characters of the QRD-8.1 "Patient ID" field.

4.5.2.3.1.1.3.5.2 QRD-8.2 Family Name (FN)

The eGateway shall only utilize the first 20 characters of the QRD-8.2 "Family Name" field.

4.5.2.3.1.1.3.5.3 QRD-8.3 Given Name (ST)

The eGateway shall only utilize the first 20 characters of the QRD-8.3 "Given Name" field.

4.5.2.3.1.1.3.6 QRD-9 What Subject (CWE)

The eGateway will only process queries when QRD-9.1 "Identifier" is populated with “RES”.

4.5.2.3.1.1.3.7 QRD-10 What Department Data Code (CWE)

4.5.2.3.1.1.3.7.1 QRD-10.2 Text

QRD-10.2 shall be populated to “eGateway” on messages sent by the eGateway; this can be configured via the configuration file.

4.5.2.3.1.2 Query Response Message (ADR^A19)

4.5.2.3.1.2.1 ADR^A19 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
MSA	Message Acknowledgement	R	[1..1]
QRD	Query Parameter Definition	R	[1..1]
[	--- PATIENT RESULT begin	O	[0..1]
{	--- PATIENT begin	R	[1..*]
PID	Patient Identification	R	[1..1]
[PID1]	Additional Patient Demographics	X	[0..0]

PV1	Patient Visit	O	[0..1]
[PV2]	Patient Visit – Additional Information	X	[0..0]
[QRI]	Query Response Instance	X	[0..*]
}	--- PATIENT end		
]	--- PATIENT RESULT end		

4.5.2.3.1.2.2 MSH Segment

The ADT Query Response message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.5.2.3.1.2.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.5.2.3.1.2.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.5.2.3.1.2.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the replying application.

4.5.2.3.1.2.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the replying application.

4.5.2.3.1.2.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the ADT Query message.

4.5.2.3.1.2.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the ADT Query message.

4.5.2.3.1.2.2.7 MSH-7 Date/Time of Message (DTM)

MSH-6 shall contain the time the acknowledgement message was sent.

4.5.2.3.1.2.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "ADR^A19" in an ADT Query Response message.

4.5.2.3.1.2.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.5.2.3.1.2.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.5.2.3.1.2.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.5.2.3.1.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.5.2.3.1.2.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.5.2.3.1.2.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.5.2.3.1.2.3 *QRD Segment*

This segment shall echo the values sent in the original query's QRD segment.

4.5.2.3.1.2.4 *PID Segment*

The PID segment for the Demographics Query Response Message uses the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
-----	-----	----	-------	-------------	--------	--------------

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	250	CX	R	[1..1]		Patient Identification List
5	250	XPN	R	[1..1]		Patient Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
11	250	XAD	RE	[0-2]		Patient Address
18	250	CX	RE	[0-2]		Patient Account Number
35	250	CE	RE	[0..1]		CustomAttr1
36	250	CE	RE	[0..1]		CustomAttr2

4.5.2.3.1.2.4.1 PID-3 Patient Identification List (CX)

PID-3 shall contain information regarding the patient's identifying number.

4.5.2.3.1.2.4.1.1 PID-3.1 ID Number (ST)

PID-3.1 shall contain the patient's ID.

4.5.2.3.1.2.4.2 PID-5 Patient Name (XPN)

PID-5 shall contain the patient's name.

4.5.2.3.1.2.4.2.1 PID-5.1.1 Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name.

4.5.2.3.1.2.4.2.2 PID-5.2 Given Name (ST)

PID-5.2 shall contain the patient's given name.

4.5.2.3.1.2.4.2.3 PID-5.3 Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name.

4.5.2.3.1.2.4.3 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient's date of birth if available.

4.5.2.3.1.2.4.4 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient's gender from 错误!未找到引用源。 if available.

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.5.2.3.1.2.4.5 PID-11 Patient Address (XAD)

PID-11 shall contain the patient's address if available.

4.5.2.3.1.2.4.6 PID-18 Patient's Account Number (CX)

PID-18 shall contain the patient's account number if available.

4.5.2.3.1.2.4.7 PID-35 CustomAttr1

The PID-35.1 field shall be populated with the Value of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-35.2 field shall be populated with the Name of CustomAttr1 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.3.1.2.4.8 PID-36 CustomAttr2

The PID-36.1 field shall be populated with the Value of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

The PID-36.2 field shall be populated with the Name of CustomAttr2 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.3.1.2.5 PV1 Segment

The PV1 segment for the Demographics Query Response Message uses the following definition. Only fields specified are supported. Unsupported fields shall be ignored.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	RE	[0..1]		Attending Doctor
8	250	XCN	RE	[0..1]		Referring Doctor
9	250	XCN	RE	[0..1]		Consulting Doctor
17	250	XCN	RE	[0..1]		Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
50	250	CE	RE	[0..1]		CustomAttr3
52	250	CE	RE	[0..1]		CustomAttr4

4.5.2.3.1.2.5.1 PV1-3 Assigned Location (PL)

PV1-3 shall be populated with the patient's assigned location.

4.5.2.3.1.2.5.1.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.5.2.3.1.2.5.1.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.5.2.3.1.2.5.1.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.5.2.3.1.2.5.1.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.5.2.3.1.2.5.2 PV1-7 Attending Doctor (XCN)

PV1-7 shall contain Attending Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.2.3.1.2.5.3 PV1-8 Referring Doctor (XCN)

PV1-8 shall contain Referring Physician's full name. The eGateway uses this field in a non-standard way and expects the doctor's full name in the 1st component of the field. No other components are used.

4.5.2.3.1.2.5.4 PV1-9 Consulting Doctor (XCN)

PV1-9 shall be populated with information regarding the consulting doctor if it is available.

4.5.2.3.1.2.5.5 PV1-17 Admitting Doctor (XCN)

PV1-17 shall be populated with information regarding the admitting doctor if it is available.

4.5.2.3.1.2.5.6 PV1-19 Visit Number (CX)

PV1-19 shall be populated with the visit number associated with the patient.

4.5.2.3.1.2.5.7 PV1-50 CustomAttr3

The PV1-50.1 field shall be populated with the Name of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

The PV1-50.2 field shall be populated with the Value of CustomAttr3 of the patient on messages sent by the eGateway if config switch is enabled.

4.5.2.3.1.2.5.8 PV1-52 CustomAttr4

The PV1-52.1 field shall be populated with the Name of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

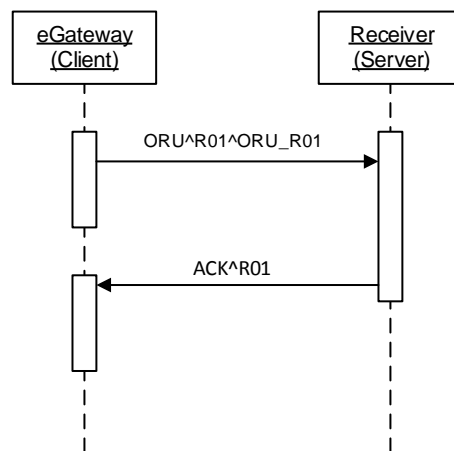
The PV1-52.2 field shall be populated with the Value of CustomAttr4 of the patient on messages sent by the eGateway if config switch is enabled.

4.6 High Resolution Result

The high resolution result interface sends data to the receiving system in an unsolicited mode. The eGateway is responsible to initiating the connection to the receiver's TCP server socket. Once the connection is established it will begin sending parameters at a configured interval and waveforms per second.

4.6.1 Message definitions

The eGateway will send data messages periodically to the receiving system. The receiving system is expected to send a reply to acknowledge the reception of the message.



4.6.1.1 Data Message (ORU^R01^ORU_R01)

4.6.1.1.1 ORU^R01^ORU_R01 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
{	--- PATIENT RESULT begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- VISIT begin		
PV1	Patient Visit	R	[1..1]
]	--- VISIT end		
]	--- PATIENT end		
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[1..1]
{	--- OBSERVATION begin	R	[1..N]

Segment	Meaning	Usage	Cardinality
OBX	Observation Result	R	[1..1]
}	--- OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

4.6.1.1.2 MSH Segment

The high resolution result message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.6.1.1.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator.

4.6.1.1.2.2 MSH-2 Encoding Characters (ST)

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.6.1.1.2.3 MSH-3 Sending Application (HD)

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.6.1.1.2.4 MSH-4 Sending Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.6.1.1.2.5 MSH-5 Receiving Application (HD)

This field shall be based on the installations requirements. By default it is empty.

4.6.1.1.2.6 MSH-6 Receiving Facility (HD)

This field shall be based on the installations requirements. By default it is empty.

4.6.1.1.2.7 MSH-7 Date/Time of Message (DTM)

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.6.1.1.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "ORU^R01^ORU_R01" in a Data Message.

4.6.1.1.2.9 MSH-10 Message Control ID (ST)

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.6.1.1.2.10 MSH-11 Message Processing ID (PT)

This field shall be populated with "P" for production.

4.6.1.1.2.11 MSH-12 Version ID (VID)

This field shall be populated with "2.6".

4.6.1.1.2.12 MSH-15 Accept Acknowledgement Type (ID)

This field shall be populated with "AL".

4.6.1.1.2.13 MSH-16 Application Acknowledgement Type (ID)

This field shall be populated with "NE".

4.6.1.1.2.14 MSH-18 Character Set (ID)

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.6.1.1.2.15 MSH-21 Message Profile Identifier (EI)

This field shall be populated with “IHE_PCD_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO”.

4.6.1.1.3 PID Segment

The PID segment for the Data Message follows the common PID segment definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID
2	20	IS	X	[0..0]		Patient ID
3	250	CX	R	[1..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XPN	R	[1..1]		Patient Name
6	250	XPN	X	[0..0]		Mother's Maiden Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
19	16	ST	O	[0..1]		SSN Number - Patient

4.6.1.1.3.1 PID-1 Set ID – PID (SI)

PID-1 shall be empty.

4.6.1.1.3.2 PID-2 Patient ID (IS)

PID-2 shall be empty.

4.6.1.1.3.3 PID-3 Patient Identification List (CX)

PID-3 shall contain information regarding the patient's identifying number.

4.6.1.1.3.3.1 PID-3.1 ID Number (ST)

PID-3.1 shall contain the patient ID entered into the device.

4.6.1.1.3.3.2 PID-3.4 Assigning Authority (ST)

PID-3.4 shall be configurable in the field, set to the devices Facility, or filled in with “Hospital”, in this order of preference.

4.6.1.1.3.3.3 PID-3.5 Identifier Code Type (ST)

PID-3.5 shall contain “PI”.

4.6.1.1.3.4 PID-4 Alternate Patient ID - PID (CX)

PID-4 shall be empty.

4.6.1.1.3.5 PID-5 Patient Name (XPN)

PID-5 shall contain the patient's name if available.

4.6.1.1.3.6 PID-5.1.1 Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name if available.

4.6.1.1.3.7 PID-5.2 Given Name (ST)

PID-5.2 shall contain the patient's given name if available.

4.6.1.1.3.8 PID-5.3 Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name if available.

4.6.1.1.3.9 PID-5.7 Name Type Code (ID)

PID-5.7 shall contain "L".

4.6.1.1.3.10 PID-6 Mother's Maiden Name (XPN)

PID-6 shall be empty.

4.6.1.1.3.11 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient's date of birth if available.

4.6.1.1.3.12 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient's gender from the following table.

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.6.1.1.3.13 PID-19 SSN Number - Patient (ST)

PID-19 shall contain the SSN of the patient if it is being used by the system.

4.6.1.1.4 PV1 Segment

The PV1 segment for the Data Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table #	ELEMENT NAME
1	4	SI	X			Set ID - PV1
2	1	IS	R	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	O	[0..1]	0010	Attending Doctor
8	250	XCN	O	[0..1]	0010	Referring Doctor
9	250	XCN	X		0010	Consulting Doctor
17	250	XCN	X		0010	Admitting Doctor

19	250	CX	RE	[0..1]		Visit Number
44	24	DTM	RE	[0..1]		Admit Date/Time
51	1	IS	X			Visit Indicator

4.6.1.1.4.1 PV1-1 Set ID – PV1 (SI)

PV1-1 shall be empty.

4.6.1.1.4.2 PV1-2 Patient Class (IS)

PV1-2 shall be populated with “I”.

4.6.1.1.4.3 PV1-3 Assigned Location (PL)

PV1-3 shall be populated with the patient’s assigned location.

4.6.1.1.4.3.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.6.1.1.4.3.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.6.1.1.4.3.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.6.1.1.4.3.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.6.1.1.4.3.5 PV1-7 Attending Doctor (XCN)

PV1-7 shall contain Attending Physician’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.6.1.1.4.3.6 PV1-8 Referring Doctor (XCN)

PV1-8 shall contain Referring Doctor’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.6.1.1.4.4 PV1-19 Visit Number (CX)

PV1-19 shall be populated with the visit number associated with the patient if it is available.

4.6.1.1.4.5 PV1-44 Admit Date/Time (DTM)

PV1-19 shall be populated with the patient’s hospital admit time if it is available.

4.6.1.1.5 Parameter Block

The presence of the Parameter Block is indicated by an OBR segment containing “182777000^monitoring of patient ^SCT” in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.6.1.1.5.1 OBR segment

This segment follows the standard OBR segment definition defined in section 4.2.2.4 *OBR segment* with the exceptions and restrictions defined in this section.

4.6.1.1.5.1.1 OBR-4 Universal Service Identifier (CWE)

OBR-4 shall be populated with “182777000^monitoring of patient^SCT”

4.6.1.1.5.2 OBX segment

This OBX specifies an observation of the patient or state of the device.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	C	[0..1]	<u>0125</u>	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	99999	varies	C	[0..1]		Observation Value
6	250	CWE	C	[0..1]		Units
7	60	ST	CE	[0..1]		Reference Range
8	5	IS	CE	[0..2]	<u>0078</u>	Abnormality Flags
9	5	NM	X			Probability
10	2	ID	X		0080	Nature of Abnormal Test
11	2	ID	R	[1..1]	<u>0085</u>	Observation Result Status
12	24	DTM	X			Effective Date of Reference Range
13	20	ST	X			User Defined Access Check
14	24	DTM	RE	[0..1]		Date/Time of Observation
15	250	CWE	X			Producer's ID
16	250	XCN	RE	[0..1]		Responsible Observer
17	250	CWE	X			Observation Method
18	22	EI	RE	[0..1]		Equipment Instance Identifier
19	24	DTM	CR	[0..1]		Date/Time of Analysis

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
20	705	CWE	RE	[0..*]	<u>0163</u>	Observation Site

4.6.1.1.5.2.1 *OBX-1 Set ID OBX (SI)*

Mindray applications shall set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.6.1.1.5.2.2 *OBX-2 Value Type (ID)*

The OBX-2 field shall be populated using the values found in the table below. It is used to identify the data type of the OBX-5 field.

Value	HL7 Data Type	Observation Type
NM	Numerical Value	Integer Value Decimal Value
ST	String Value	String Value
SN	Structured Numeric	Ratios
CNE	Coded, No Exceptions	Enumerations
NA	Numerical ADC	Integer Value Separated by the component separator “^”
<Blank>	N/A	Any Invalid Value

4.6.1.1.5.2.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall contain the IHE Rosetta Terminology code for observations for the observation. Observation codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 5.1 *Parameters* for parameter values.

4.6.1.1.5.2.4 *OBX-4 Observation Sub-ID (ST)*

OBX-4 shall contain a M.V.C.I. containment tree format for measurement or settings.

4.6.1.1.5.2.5 *OBX-5 Observation Value (variable)*

OBX-5 shall contain the value of the observation or setting. It shall be empty for an invalid value.

4.6.1.1.5.2.6 *OBX-6 Units (CWE)*

OBX-6 shall contain the IHE Rosetta Terminology code for units of measure for the observation. Unit of measure codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 0

Units of Measure for units of measure values.

4.6.1.1.5.2.7 OBX-7 Reference Range (ST)

OBX-7 shall be empty.

4.6.1.1.5.2.8 OBX-8 Abnormal Flags (IS)

This field is used in conjunction with OBX-11 to identify the observation type. It can be repeated.

Value	Observation Type
<Blank>	Valid, Confirmed by user Valid, Unconfirmed
DEMO	Demo data
INV	Invalid

“DEMO” can be a repetition field included with “INV” to support invalid demo data. For example:

| DEMO~INV |

4.6.1.1.5.2.9 OBX-11 Observation Result Status (ID)

This field is used in conjunction with OBX-8 to identify the observation type.

Value	Observation Type
F	Valid, Confirmed by user
R	Valid, Unconfirmed
X	Invalid

4.6.1.1.5.2.10 OBX-14 Date/Time of Observation (DTM)

OBX-14 shall be contain the time the observation was made.

4.6.1.1.5.2.11 OBX-16 Responsible Observer (XCN)

OBX-16 shall be contain the ID of the Clinician responsible for verifying the measurement. This field is filled only if a clinician is associated with the measurement.

4.6.1.1.5.2.12 OBX-17 Observation Method (CWE)

4.6.1.1.5.2.12.1 OBX-17.2 Text

OBX-17.2 shall be contain the “APERIODIC” for observations that are aperiodic. Some examples of aperiodic data are NIBP, CO, PAWP, and a spot check temperature.

4.6.1.1.5.2.13 OBX-18 Equipment Identifier Instance

OBX-18 is populated based on the type of equipment ID. If the device has a universal EUI-64 ID then that should be used in preference to the custom Mindray device ID. Devices that send HL7 direct and not through the eGateway should use the EUI-64 .

Only the first OBX in the block contains the OBX-18 value.

4.6.1.1.5.2.13.1 OBX-18.1

Identifier Type	Value
Custom Mindray Device ID	The custom value

Identifier Type	Value
EUI-64	The EUI-64 value

4.6.1.1.5.2.13.2 OBX-18.2

OBX-18.2 should be left blank for a EUI-64 value. For a Custom Mindray Device ID the following values are used:

Device Type	Value
Passport	Passport
Passport2	Passport_2
Passport2 with WMTS radio	Passport_2_WMTS
Spectrum	Spectrum
Spectrum with WMTS radio	Spectrum_WMTS
Spectrum OR	Spectrum_OR
V Series	V_Series
Telepack with 2.4GHz Radio	Telepack_2Point4_GHz
Telepack with WMTS radio	Telepack_WMTS
DPM	DPM
Passport V	Passport_V
V12	V12
V21	V21
Accutorr CS	Accutorr_CS
Accutorr V	Accutorr_V
NetGuard	NetGuard
Duo	Duo
Trio	Trio
DPM1	DPM1
DPM2	DPM2
DPM3	DPM3
DPM4	DPM4
DPM5	DPM5
DPM6	DPM6
DPM7	DPM7
DPM Central Station	DPM_Central_Station
Panorama Central Station	Panorama_Central_Station
A3	A3

Device Type	Value
A5	A5
A7	A7
ACCUTORR7	ACCUTORR7
A4	A4
HyperVisor VI	HyperVisor_VI
MEC1000	MEC1000
MEC2000	MEC2000
MEC509B	MEC509B
PM5000	PM5000
PM6000	PM6000
PM7000	PM7000
PM8000	PM8000
PM9000 Super	PM9000Super
PM9000 Express	PM9000Express
PM9000 Outport	PM9000Outport
PM9300	PM9300
PM9303	PM9303
102b	102b
TMS6016	TMS6016
VS800	VS800
CMS+ devices	Beneview
AG	AG
IPM9800	IPM9800
INTREPID	INTREPID
Valiant	Valiant
DPM_SZ	DPM_SZ
BeneHeart	BeneHeart
VS900	VS900
T1	T1
T1 Dock	T1_Dock
N Series	BIG_DIPPER
TD60	DUBHE_608M
HyperVisor_VII	HyperVisor_VII
HyperVisor WorkStation	HyperVisor_WorkStation

Device Type	Value
HyperVisor ViewStation	HyperVisor_ViewStation
TM80	DUBHE_WIFI
N Series via CMS	BIG_DIPPER_Translator
TM80 via CMS	DUBHE_WIFI_Translator
SV300	SV300
SV350	SV350
SV600	SV600
SV650	SV650
SV800	SV800
SV850	SV850

4.6.1.1.5.2.13.3 OBX-18.3

Identifier Type	Value
Custom Mindray Device ID	"mindray.com"
EUI-64	The EUI-64 value

4.6.1.1.5.2.13.4 OBX-18.4

Identifier Type	Value
Custom Mindray Device ID	"DNS"
EUI-64	"EUI-64"

4.6.1.1.5.2.13.5 OBX-20 Observation Site

This field is can be used to identify the observation site of a value if the site is not fully specified by the OBX-3 value.

OBX-30 shall use the IHE Rosetta Terminology codes for observation sites. Observation site codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 0

Locations for locations values.

In some cases this field can be repeated.

4.6.1.1.6 Waveform Block

The presence of the Waveform Block is indicated by an OBR segment containing “CONTINUOUS WAVEFORM” in the OBR-4 field. The waveform segment contains the realtime waveform per second.

The following table specifies the structure of the waveform data block

Segment	Meaning	Usage	Cardinality
OBR	Waveform Identification	R	[1..1]
{	--- WAVEFORM START	R	[1..N]
OBX	Waveform Data	R	[1..1]
OBX	Sample Rate	R	[1..1]
OBX	Resolution	R	[1..1]
OBX	Invalid Value Specification	C	[0..1]
}	--- WAVEFORM END		

Notes on OBX-4 Sub-ID:

OBX-4 for the waveform data OBX follows the standard IHE format of M.V.C.I, where M = System, V = Virtual Device, V = Channel, I = Metric. I is set to the OBX-3.1 value for the parameter. The following OBXs that contain specifications for the waveform data follow the format of M.V.C.I.F, where F is an incrementing integer for each new OBX. The M.V.C.I component is identical to the value in the data OBX. This allows the specifications to be associated with the data OBX.

4.6.1.1.6.1 OBR Waveform segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBR
2	427	EI	C	[0..1]		Placer Order Number
3	427	EI	R	[1..1]		Filler Order Number
4	705	CWE	R	[1..1]		Universal Service Identifier
5	2	ID	X	[0..0]		Priority - OBR
6	24	DTM	X	[0..0]		Request Date/Time
7	24	DTM	R	[1..1]		Observation Date/Time of first sample
8	24	DTM	R	[1..1]		Observation Date/Time of the end of the last sample interval

4.6.1.1.6.1.1 *OBR-1 Set ID – OBR (SI)*

OBR-1 shall contain an integer that is incremented by one for each successive OBR segment in the message.

4.6.1.1.6.1.2 *OBR-2 Placer Order Number (EI)*

This field shall be empty

4.6.1.1.6.1.3 *OBR-3 Filler Order Number (EI)*

This field shall be populated in the same manner as the standard OBR segment OBR-3 field.

4.6.1.1.6.1.4 *OBR-4 Universal Service Identifier (CWE)*

This field is filled in with “CONTINUOUS WAVEFORM”

4.6.1.1.6.1.5 *OBR-7 Observation Date/Time Start Time (DTM)*

This field identifies the time of the first waveform sample.

4.6.1.1.6.1.6 *OBR-8 Observation Date/Time End Time (DTM)*

This field identifies the time of the last waveform sample interval. The value should be identical to the OBR-7 of the next waveform message.

4.6.1.1.6.2 *Waveform OBX segment, Waveform Data*

This OBX specifies the data samples for the waveform

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	65536	NA	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units
20	705	CWE	RE	[0..*]	0163	Observation Site

4.6.1.1.6.2.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.6.1.1.6.2.2 *OBX-2 Value Type (ID)*

OBX-2 will be populated with “NA”.

4.6.1.1.6.2.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 will be populated with appropriate Waveform Identifier specified in *Table 103 Waveform codes*.

4.6.1.1.6.2.4 *OBX-4 Observation Sub-ID (ST)*

OBX-4 will contain M.V.C.I.

4.6.1.1.6.2.5 *OBX-5 Observation Value (NA)*

OBX-5 will be populated with an array of integer ADC values representing the waveform samples. The values shall be separated by the component separator “^”.

4.6.1.1.6.2.6 *OBX-6 Units (CWE)*

OBX-6 will be populated with units of the values. Since the values are ADC counts the units should be “262656^MDC_DIM_DIMLESS^MDC”.

4.6.1.1.6.2.7 *OBX-20 Observation Site (CWE)*

OBX-20 will be populated with the observation site of the waveform if necessary.

4.6.1.1.6.3 Waveform OBX segment, Waveform Sample Rate

This OBX specifies the sample rate for the waveform.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	NM	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units

4.6.1.1.6.3.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.6.1.1.6.3.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “NM”.

4.6.1.1.6.3.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “0^MDC_ATTR_SAMP_RATE^MDC”

4.6.1.1.6.3.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain M.V.C.I.1.

4.6.1.1.6.3.5 *OBX-5 Observation Value (NM)*

OBX-5 shall be populated with the sample rate of the waveform.

4.6.1.1.6.3.6 *OBX-6 Units (CWE)*

OBX-5 shall be populated with “264608^MDC_DIM_PER_SEC^MDC”.

4.6.1.1.6.4 Waveform OBX segment, Waveform Resolution

This OBX specifies the resolution for the waveform.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	NM	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units

4.6.1.1.6.4.1 *OBX-1 Set ID – OBX (SI)*

The eGateway will set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.6.1.1.6.4.2 *OBX-2 Value Type (ID)*

OBX-2 will be populated with “NM”.

4.6.1.1.6.4.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 will be populated with “2327^MDC_ATTR_NU_MSMT_RES^MDC”.

4.6.1.1.6.4.4 *OBX-4 Observation Sub-ID (ST)*

OBX-4 will contain M.V.C.I.2.

4.6.1.1.6.4.5 *OBX-5 Observation Value (NM)*

OBX-5.1 shall contain the data resolution in units per sample.

4.6.1.1.6.4.6 *OBX-6 Units (CWE)*

OBX-5 will be populated with MDC code for the units of measure for the waveform data. See section 0

Units of Measure for available units of measure.

4.6.1.1.6.5 Waveform OBX segment, Invalid Value

This OBX specifies the value in the waveform data that indicates an invalid value. This segment is optional if the waveform does not contain an invalid value.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	NM	R	[1..1]		Observation Value

4.6.1.1.6.5.1 OBX-1 Set ID – OBX (SI)

The eGateway shall set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.6.1.1.6.5.2 OBX-2 Value Type (ID)

OBX-2 will be populated with “NM”.

4.6.1.1.6.5.3 OBX-3 Observation Identifier (CWE)

OBX-3 will be populated with “262196^MDC_EVT_INOP^MDC”.

4.6.1.1.6.5.4 OBX-4 Observation Sub-ID (ST)

OBX-4 will contain M.V.C.I.3.

4.6.1.1.6.5.5 OBX-5 Observation Value (NM)

OBX-5.1 will contains the waveform data sample value that flags an invalid value.

4.6.1.2 Data Message Acknowledgement (ACK^R01)

4.6.1.2.1 ACK^R01 Structure

This message is expected as an acknowledgement to the ORU^R01^ORU_R01 message sent by the eGateway.

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	O	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.6.1.2.2 MSH Segment

The Unsolicited Results Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	X			Message Profile Identifier

4.6.1.2.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.6.1.2.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.6.1.2.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the acknowledging application.

4.6.1.2.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the acknowledging application.

4.6.1.2.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the Data Message.

4.6.1.2.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the Data Message.

4.6.1.2.2.7 MSH-7 Date/Time of Message (DTM)

MSH-6 shall contain the time the acknowledgement message was sent.

4.6.1.2.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "ACK^R01^ACK" in a Data Acknowledgement message.

4.6.1.2.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.6.1.2.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.6.1.2.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.6.1.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.6.1.2.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.6.1.2.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.6.1.2.3 SFT Segment

This segment follows the common SFT definition found in section 4.2.2.1 *SFT Segment*. The eGateway ignores this segment.

4.6.1.2.4 MSA Segment

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.6.1.2.5 ERR Segment

This segment follows the common ERR segment definition, see section 4.2.2.2 *ERR Segment*. The eGateway ignores this segment. If the acknowledger return an error code in the MSA segment, this segment should be included to aid debugging.

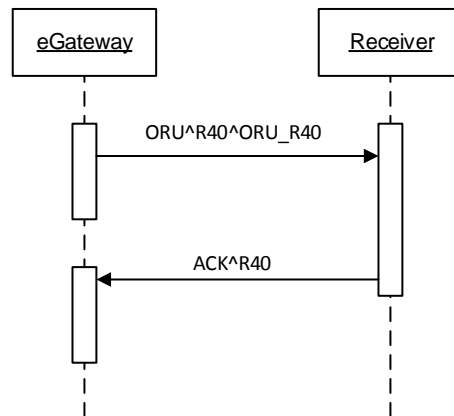
4.7 High Resolution Alert

The Mindray's high resolution alert interface is an aperiodic unsolicited interface.

The high resolution alert message should be encoded in Unicode using UTF-8 compression to support characters required for multiple languages. UTF-8 allows the message when using just ASCII characters to be the same as ASCII encoding

4.7.1 Message definitions

The Mindray devices will send alert messages aperiodically to an alarm receiver when the alerts occur or change state. The receiving system is expected to send a reply to acknowledge the reception of the message.



4.7.1.1 Alert Message (ORU^R40^ORU_R40)

4.7.1.1.1 ORU^R40^ORU_R40 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
{	--- ALERT_begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- LOCATION begin		
PV1	Alert Location	R	[1..1]
]	--- LOCATION end		
]	--- PATIENT end		
{	--- ALERT_IDENTIFICATION begin		[1..1]
[ORC]	Alert Common	X	[0..0]

Segment	Meaning	Usage	Cardinality
OBR	Alert Identification	R	[1..1]
{	--- ALERT_OBSERVATION begin	R	[1..7]
OBX	Alert specification	R	[1..1]
}	--- ALERT OBSERVATION end		
}	--- ALERT_IDENTIFICATION end		
}	--- ALERT end		

4.7.1.1.2 MSH Segment

The Alert message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.7.1.1.2.1.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.7.1.1.2.1.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.7.1.1.2.1.3 *MSH-3 Sending Application (HD)*

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.7.1.1.2.1.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.7.1.1.2.1.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.7.1.1.2.1.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.7.1.1.2.1.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.7.1.1.2.1.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ORU^R40^ORU_R40" in an Alert message.

4.7.1.1.2.1.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.7.1.1.2.1.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.7.1.1.2.1.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.7.1.1.2.1.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.7.1.1.2.1.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.7.1.1.2.1.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.7.1.1.2.1.15 *MSH-21 Message Profile Identifier (EI)*

This field shall be populated with "IHE_PCD_ACM_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.4.1^ISO".

4.7.1.1.3 *PID Segment*

The PID segment for the Alert Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID
2	20	IS	X	[0..0]		Patient ID
3	250	CX	O	[0..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XPN	O	[0..1]		Patient Name
6	250	XPN	X	[0..0]		Mother's Maiden Name
7	26	DTM	O	[0..1]		Date/Time of Birth
8	1	IS	O	[0..1]	0001	Administrative Sex

4.7.1.1.3.1 *PID-1 Set ID – PID (SI)*

PID-1 shall be empty.

4.7.1.1.3.2 *PID-2 Patient ID (IS)*

PID-2 shall be empty.

4.7.1.1.3.3 *PID-3 Patient Identification List (CX)*

PID-3 shall contain information regarding the patient's identifying number.

4.7.1.1.3.4 *PID-3.1 ID Number (ST)*

PID-3.1 shall contain the patient ID entered into the device.

4.7.1.1.3.5 *PID-3.4 Assigning Authority (ST)*

PID-3.4 shall be configurable in the field, set to the device's Facility, or filled in with "Hospital", in this order of preference.

4.7.1.1.3.6 *PID-3.5 Identifier Code Type (ST)*

PID-3.5 shall contain "PI".

4.7.1.1.3.7 PID-4 Alternate Patient ID - PID (CX)

PID-4 shall be empty.

4.7.1.1.3.8 PID-5 Patient Name (XPN)

PID-5 shall contain the patient's name if available.

4.7.1.1.3.9 PID-5.1.1 Patient Name.Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name if available.

4.7.1.1.3.10 PID-5.2 Patient Name.Given Name (ST)

PID-5.2 shall contain the patient's given name if available.

4.7.1.1.3.11 PID-5.3 Patient Name.Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name if available.

4.7.1.1.3.12 PID-5.7 Patient Name.Name Type Code (ST)

PID-5.7 shall contain the "L" for legal name.

4.7.1.1.3.13 PID-6 Mother's Maiden Name (XPN)

PID-6 shall be empty.

4.7.1.1.3.14 PID-7 Date/Time of Birth (DTM)

PID-7 shall contain the patient's date of birth if available.

4.7.1.1.3.15 PID-8 Administrative Sex (IS)

PID-8 shall contain the patient's gender from Table 18.

Table 98 HL7 Table 0001 Administrative Sex

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.7.1.1.4 PV1 Segment

The PV1 segment for the Alert Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PV1
2	1	IS	X	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location

4.7.1.1.4.1 PV1-1 Set ID – PV1 (SI)

PV1-1 shall be empty.

4.7.1.1.4.2 PV1-2 Patient Class (IS)

PV1-2 shall be empty.

4.7.1.1.4.3 PV1-3 Assigned Location (PL)

PV1-3 shall be populated with the patient's assigned location.

4.7.1.1.4.4 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.7.1.1.4.5 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.7.1.1.4.6 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.7.1.1.4.7 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.7.1.1.5 Alert Data Block

The presence of the Alert data block is indicated by an OBR segment containing "196616^MDC_EVT_ALARM^MDC" in the OBR-4 field. The use of the Alert data block shall be always be included in an alert message.

The following table specifies the structure of the alert data block

Segment	Meaning	Usage	Cardinality
OBR	Alert Identification	R	[1..1]
OBX(Facet 1)	Event Identification	R	[1..1]
OBX(Facet 2)	Source Identification	R	[1..1]
OBX(Facet 3)	Event Phase	R	[1..1]
OBX(Facet 4)	Alarm State	R	[1..1]
OBX(Facet 5)	Inactivation State	O	[0..1]
OBX(Facet 6)	Alarm Priority	R	[1..1]
OBX(Facet 7)	Alert Type	R	[1..1]

4.7.1.1.5.1 OBR Alert segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBR
2	427	EI	X	[0..1]		Placer Order Number
3	427	EI	R	[1..1]		Filler Order Number

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
4	705	CWE	R	[1..1]		Universal Service Identifier
5	2	ID	X	[0..0]		Priority - OBR
6	24	DTM	X	[0..0]		Request Date/Time
7	24	DTM	RE	[0..1]		Observation Date/Time
29	855	EIP	R	[1..1]		Parent

4.7.1.1.5.1.1 *OBR-1 Set ID – OBR (SI)*

OBR-1 shall contain an integer that is incremented by one for each successive OBR segment in the message.

4.7.1.1.5.1.2 *OBR-Placer Order Number (EI)*

This field shall be empty.

4.7.1.1.5.1.3 *OBR-3 Filler Order Number (EI)*

This field shall be populated in the same manner as the standard OBR segment OBR-3 field.

OBR-3.1 shall contain the value found in MSH-10

OBR-3.2 shall contain the value found in MSH-3.1

OBR-3.3 shall contain the value found in MSH-3.2

OBR-3.4 shall contain the value found in MSH-3.3

4.7.1.1.5.1.4 *OBR-4 Universal Service Identifier (CWE)*

This field is filled in with “196616^MDC_EVT_ALARM^MDC”

4.7.1.1.5.1.5 *OBR-7 Observation Date/Time (DTM)*

This field identifies the point in time at which the Alert Reporter actor committed itself to packaging up the Report Alert transaction information to be sent to the Alert Manager.

4.7.1.1.5.1.6 *OBR-29 Parent (EIP)*

This shall contain a unique identifier for the alarm. It is used to associate separate alert events to a single alert. All alert messages related to the same alert event shall the same identifier.

OBR-29.1 shall be empty.

OBR-29.2.1 shall contain a unique integer ID for the alert.

OBR-29.2.2 shall contain the value found in MSH-3.1

OBR-29.2.3 shall contain the value found in MSH-3.2

OBR-29.2.4 shall contain the value found in MSH-3.3

4.7.1.1.5.2 *Alert OBX segment, Facet 1 Event Identification*

This OBX specifies the alert event type

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
-----	-----	----	-------	-------------	--------	--------------

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	705	CWE	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status
14	24	DTM	RE	[0..1]		Observation Date/Time

4.7.1.1.5.2.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.2.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “CWE” by default.

4.7.1.1.5.2.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “196616^MDC_EVT_ALARM^MDC”.

4.7.1.1.5.2.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain the containment tree value of the alert source in the M.V.C.I format appended with “.1” to specify the Event Identification facet.

4.7.1.1.5.2.5 *OBX-5 Observation Value (CWE)*

OBX-5 shall be populated with values from values found in section 5.7 Alarms.

OBX-5 shall be populated with “196652^MDC_EVT_HI_VAL_GT_LIM^MDC” for a high threshold alarm.

OBX-5 shall be populated with “196674^MDC_EVT_LO_VAL_LT_LIM^MDC” for a low threshold alarm

OBX-5 shall be populated with “30905^MNDRY_EVT_HI_VAL_GT_EXTREME_LIM^99MNDRY” for extreme high threshold alarms.

OBX-5 shall be populated with “30906^MNDRY_EVT_LO_VAL_LT_EXTREME_LIM^99MNDRY” for extreme low threshold alarms.

4.7.1.1.5.2.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.7.1.1.5.2.7 *OBX-14 Observation Date/Time*

OBX-14 shall be populated with time of the event transition specified in this message.

4.7.1.1.5.3 *Alert OBX segment, Facet 2 Source Identification*

This OBX specifies the source of the alert event. It follows two formats based on the type of alarm specified in Facet 1.

4.7.1.1.5.3.1 *Threshold Alarms*

For alerts based on thresholds this OBX will be populated with the common results OBX message format for the parameter in alarm, reflecting the value of the parameter at the time of the event.

Threshold alarms are any alarm that has OBX-5 populated with one of the following values in the facet 1 OBX segment:

```
196652^MDC_EVT_HI_VAL_GT_LIM^MDC
196674^MDC_EVT_LO_VAL_LT_LIM^MDC
30905^MNDRY_EVT_HI_VAL_GT_EXTREME_LIM^99MNDRY
30906^MNDRY_EVT_LO_VAL_LT_EXTREME_LIM^99MNDRY
```

In addition OBX-7 shall be populated with the alarm's range if available from the device.

4.7.1.1.5.3.2 *Table 99 Facet 2 OBX Segment for Threshold Alerts.*

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	1-9999	variable	R	[1..1]		Observation Value
6	705	CWE	R	[1..1]		Units
7	60	ST	O	[0..1]		Reference Range
8	5	IS	O	[0..1]	0078	Abnormal Flags
11	1	ID	R	[1..1]	0085	Observation Result Status
14	24	DTM	R	[1..1]		Date/Time of Observation
18	427	EI	RE	[0..1]		Equipment Instance Identifier

4.7.1.1.5.3.3 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.3.4 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with data type used by the observation.

4.7.1.1.5.3.5 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated by the observation's ID.

4.7.1.1.5.3.6 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall be populated by the observation's Sub-ID appended with “.2” to specify the Source Identification facet.

4.7.1.1.5.3.7 *OBX-5 Observation Value (variable)*

OBX-5 shall contain the observation's value.

4.7.1.1.5.3.8 *OBX-6 Units (CWE)*

OBX-6 shall be populated with the observation's units.

4.7.1.1.5.3.9 *OBX-7 Reference Range (ST)*

OBX-7 shall be populated with the thresholds of the alarm in the following formats.

For a high and Low threshold the format is "L-H" where "L" is the low threshold and "H" is the high threshold. For example for a low limit of 30 and a high limit of 120 the value would be:

30-120

For only a high limit the format is "<H", where H is the high limit. For example with only a high limit of 120 the value would be:

<120

For only a low limit the format is ">L", where L is the low limit. For example with only a low limit of 30 the value would be:

>30

4.7.1.1.5.3.10 *OBX-8 Abnormal Flags (IS)*

This field is used in conjunction with OBX-11 to identify the observation type.

Table 100 HL7 Table 0078

Value	Observation Type
<Blank>	Valid, Confirmed by user Valid, Unconfirmed
DEMO	Demo data
INV	Invalid

"DEMO" can be a repetition field included with "INV" to support invalid demo data. For example:

| DEMO~INV |

4.7.1.1.5.3.11 *OBX-11 Observation Result Status (ID)*

OBX-11 shall be populated with "F" for valid values.

OBX-11 shall be populated with "X" for invalid values.

4.7.1.1.5.3.12 *OBX-14 Date/Time of Observation (DTM)*

OBX-14 shall be populated with the time of the observation.

4.7.1.1.5.3.13 *OBX-18 Equipment Instance Identifier (EI)*

OBX-18 shall be populated with the source devices identifier. This is either a EUI-64 identifier or 8 character identifier. The use of the EUI-64 identifier is preferred.

Example of EUI-64 format identifier:

00A0370027000001^^00A0370027000001^EUI-64

Example of 8 character format identifier:

S5E4B32X^Spectrum^mindray.com^DNS

4.7.1.1.5.3.14 *Non-Threshold Alerts*

4.7.1.1.5.3.15 *Table 101 Facet 2 OBX Segment for Technical Alerts and non-Threshold Alerts.*

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	705	CWE	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.7.1.1.5.3.16 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.3.17 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “CWE” by default.

4.7.1.1.5.3.18 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated by “68480^MDC_ATTR_ALERT_SOURCE^MDC” by default.

4.7.1.1.5.3.19 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.2” to specify the Source Identification facet.

4.7.1.1.5.3.20 *OBX-5 Observation Value (CWE)*

OBX-5 shall be populated with based on the following table for all non-threshold alarms.

Device	Value
Anesthesia Devices	70041^MDC_DEV_SYS_ANESTH_MDS^MDC
Ventilator Devices	70025^MDC_DEV_REGUL_VOL_VENT_MDS^MDC
Patient Monitors	69953^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM_MDS^MDC

4.7.1.1.5.3.21 *OBX-11 Observation Result Status (ID)*

OBX-11 shall be populated with “F” for final value.

4.7.1.1.5.4 *Alert OBX segment, Facet 3 Event Phase*

This OBX specifies the phase of the alert event

Table 102 Facet 3 OBX Segment

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	16	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.7.1.1.5.4.1 OBX-1 Set ID – OBX (SI)

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.4.2 OBX-2 Value Type (ID)

OBX-2 shall be populated with “ST” by default.

4.7.1.1.5.4.3 OBX-3 Observation Identifier (CWE)

OBX-3 shall be populated with “68481^MDC_ATTR_EVENT_PHASE^MDC” by default.

4.7.1.1.5.4.4 OBX-4 Observation Sub-ID (ST)

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.3” to specify the Event Phase facet.

4.7.1.1.5.4.5 OBX-5 Observation Value (ST)

OBX-5 shall contain the current alarm phase. The following table specified allowed values.

Value	Phase
start	The alert started. Transitioned to active.
end	The alert has ended. Transitioned from active to inactive or latched.
escalate	The alert has escalated in priority.
de-escalate	The alert has de-escalated in priority.
reset	The alert was reset. Transitioned from latched to inactive.
inactivation	The inactivation state has changed (audio pause, alarm pause, etc...).
acknowledged	The acknowledgement state has changed

When the acknowledgement state changes it will typically be included with an “inactivation” state phase change as acknowledgement silences an alarm. Two separate events should not be sent for inactivation and acknowledgement in this case.

4.7.1.1.5.4.6 OBX-11 Observation Result Status

OBX-11 shall be populated with “F” for final value.

4.7.1.1.5.5 Alert OBX segment, Facet 4 Alarm State

This OBX specifies the state of the alert.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	0125	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	8	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.7.1.1.5.5.1 OBX-1 Set ID – OBX (SI)

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.5.2 OBX-2 Value Type (ID)

OBX-2 shall be populated with “ST” by default.

4.7.1.1.5.5.3 OBX-3 Observation Sub-ID (ST)

OBX-3 shall be populated with “68482^MDC_ATTR_ALARM_STATE^MDC” by default.

4.7.1.1.5.5.4 OBX-4 Observation Identifier (CWE)

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.4” to specify the Alarm State facet.

4.7.1.1.5.5.5 OBX-5 Observation Value (ST)

Mindray applications shall populate this field with one of the values in the table below.

Value	State
inactive	The alarm is inactive. The alarm condition does not exist and the alarm system does not have an associated alarm.
active	The alarm is active. The alarm condition exists and the alarm system has an associated active alarm.
latched	The alarm is latched. The alarm condition is gone but the alarm system is keeping the associated alarm active.

4.7.1.1.5.5.6 OBX-11 Observation Result Status

OBX-11 shall be populated with “F” for final value.

4.7.1.1.5.6 Alert OBX segment, Facet 5 Inactivation State

This OBX specifies the inactivation state of the of the alerts signals. This segment is optional if the sender does not have this information, if it does is shall send this segment.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	40	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.7.1.1.5.6.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.6.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.7.1.1.5.6.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68483^MDC_ATTR_ALARM_INACTIVATION_STATE^MDC” by default.

4.7.1.1.5.6.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field will contain the containment tree value of the alert source in the M.V.C.I format appended with “.5” to specify the Inactivation State facet.

4.7.1.1.5.6.5 *OBX-5 Observation Value (ST)*

Mindray applications shall repeat this field with up to one value from each of the Audio Inactivation State, Visual Inactivation State, and Acknowledgement State tables below.

Value	Alarm Audio State
<blank>	The alarm’s audio and visual indicators are enabled.
audio-paused	The alarm’s audio indicator is temporarily off
audio-off	The alarm’s audio indicator permanently off

Audio Inactivation can occur if the monitoring device has the overall audio for alarms paused or off or if the individual alarm has been silenced, or if audio is disabled during the latched state. Other situation can also exist depending on the individual monitor’s software.

If it is unknown whether the audio inactivation is temporarily or permanently inactivated “audio-off” should be sent.

Value	Alarm Visual State
<blank>	The alarm’s audio and visual indicators are enabled.
alarm-paused	The alarm’s visual indicator is temporarily off
alarm-off	The alarm’s visual indicator is permanently off

Visual Inactivation can occur if Alarm Pause or Alarm Off is activated on a device.

If it is unknown whether the alarm inactivation is temporarily or permanently inactivated “alarm-off” should be sent.

Value	Acknowledgement State
<blank>	The alarm has not been acknowledged at the source.
alert-acknowledged	The alarm has been acknowledged at the source.

The acknowledgement state can be configured to be disabled. The acknowledge state for an alarm is latched until the alarm condition ends.

Examples:

| |	Indicates audio and visual indicators are active.
|audio-paused|	Indicates audio indicators are paused and visual indicators are active.
|audio-paused~alarm-paused|	Indicates audio and visual indicators are paused.
|audio-paused~alert-acknowledged|	Indicates audio indicators are paused and visual indicators are active and the local user has acknowledge the alarm.

4.7.1.1.5.6.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.7.1.1.5.7 *Alert OBX segment, Facet 6 Alarm Priority*

This OBX specifies the alarm priority.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	2	ST	R	[1..1]		Observation Value
11	1	ID	R	[1..1]	0085	Observation Result Status

4.7.1.1.5.7.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.7.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.7.1.1.5.7.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68484^MDC_ATTR_ALARM_PRIORITY^MDC” by default.

4.7.1.1.5.7.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain the containment tree value of the alert source in the M.V.C.I format appended with “.6” to specify the Event Identification facet.

4.7.1.1.5.7.5 *OBX-5 Observation Value (ST)*

The OBX-5 field shall contain a value from the following table:

Value	Alarm Priority
PN	No alarm
PL	Low priority
PM	Medium priority
PH	High priority

The following table shows how facet 6 and 7 are combined for different alarm and advisory types:

Alert Type	Facet 6 OBX-5	Facet 7 OBX-5
High Priority Physiological	PH	SP
Medium Priority Physiological	PM	SP
Low Priority Physiological	PL	SP
High Priority Technical	PH	ST
Medium Priority Technical	PM	ST
High Priority Technical	PH	ST
Advisory	PN	SA

4.7.1.1.5.7.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.7.1.1.5.8 *Alert OBX segment, Facet 7 Alert Type*

This OBX specifies the alert type.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	R	[0..1]	<u>0125</u>	Value Type
3	705	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	2	ST	R	[1..1]		Observation Value

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
11	1	ID	R	[1..1]	0085	Observation Result Status

4.7.1.1.5.8.1 *OBX-1 Set ID – OBX (SI)*

OBX-1 shall contain an integer that is incremented by one for each successive OBX segment in an OBR block.

4.7.1.1.5.8.2 *OBX-2 Value Type (ID)*

OBX-2 shall be populated with “ST” by default.

4.7.1.1.5.8.3 *OBX-3 Observation Identifier (CWE)*

OBX-3 shall be populated with “68485^MDC_ATTR_ALERT_TYPE^MDC” by default.

4.7.1.1.5.8.4 *OBX-4 Observation Sub-ID (ST)*

The OBX-4 field shall contain the containment tree value of the alert source in the M.V.C.I format appended with “.7” to specify the Event Identification facet.

4.7.1.1.5.8.5 *OBX-5 Observation Value (ST)*

The OBX-4 field shall contain a value from the following table:

Value	Alarm Type
SP	Physiological
ST	Technical
SA	Advisory

4.7.1.1.5.8.6 *OBX-11 Observation Result Status*

OBX-11 shall be populated with “F” for final value.

4.7.1.2 Alert Message Acknowledgement (ACK^R40)

4.7.1.2.1 ACK^R40 Structure

This message is expected as an acknowledgement to the ORU^R40^ORU_R40 message sent by Mindray's devices.

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
MSA	Message Acknowledgement	R	[1..1]
[ERR]	Error	RE	[0..1]

4.7.1.2.2 MSH Segment

The Alert Acknowledgement message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
21	427	EI	X			Message Profile Identifier

4.7.1.2.2.1 MSH-1 Field Separator (ST)

MSH-1 shall contain the field separator used in the message.

4.7.1.2.2.2 MSH-2 Encoding Characters (ST)

MSH-2 shall contain the component, repetition, and subcomponent separators and escape character used in the message in the format defined in the HL7 standard.

4.7.1.2.2.3 MSH-3 Sending Application (HD)

MSH-3 shall contain the sending application identifier for the acknowledging application.

4.7.1.2.2.4 MSH-4 Sending Facility (HD)

MSH-4 shall contain the sending facility identifier for the acknowledging application.

4.7.1.2.2.5 MSH-5 Receiving Application (HD)

MSH-5 shall contain the MSH-3 value sent in the MSH segment of the Data Message.

4.7.1.2.2.6 MSH-6 Receiving Facility (HD)

MSH-6 shall contain the MSH-4 value sent in the MSH segment of the Data Message.

4.7.1.2.2.7 MSH-7 Date/Time of Message (DTM)

MSH-6 shall contain the time the acknowledgement message was sent.

4.7.1.2.2.8 MSH-9 Message Type (MSG)

MSH-9 shall be populated with "ACK^R40^ACK" in an Alert Acknowledgement message.

4.7.1.2.2.9 MSH-10 Message Control ID (ST)

MSH-10 shall be populated with a unique identifier for this message

4.7.1.2.2.10 MSH-11 Message Processing ID (PT)

MSH-11 shall be populated with "P" for production.

4.7.1.2.2.11 MSH-12 Version ID (VID)

MSH-12 shall be populated with "2.6".

4.7.1.2.2.12 MSH-15 Accept Acknowledgement Type (ID)

MSH-15 should be populated with "NE" or be empty.

4.7.1.2.2.13 MSH-16 Application Acknowledgement Type (ID)

MSH-16 should be populated with "NE" or be empty.

4.7.1.2.2.14 MSH-18 Character Set (ID)

MSH-18 should contain the coding method for the message. The eGateway does not actually use this value for determining the Character Set. By default it uses UTF-8 and may be reconfigured to accept ASCII.

4.7.1.2.3 SFT Segment

This segment is ignored by the eGateway.

4.7.1.2.4 MSA Segment

This segment follows the common MSA segment definition, see section 4.2.2.3 *MSA Segment*.

4.7.1.2.5 ERR Segment

This segment is ignored by the eGateway.

4.8 Document Sharing

The document sharing interface sends document content or path to the receiving system.

4.8.1 MDM with Reference

4.8.1.1 Message definitions

The eGateway will send document path to the receiving system. The receiving system is expected to send a reply to acknowledge the reception of the message.

4.8.1.1.1 Data Message (MDM^T01^MDM_T01)

4.8.1.1.1.1 MDM^T01^MDM_T01 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
EVN	Event Type	R	[1..1]
{	--- PATIENT RESULT begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- VISIT begin		
PV1	Patient Visit	R	[1..1]
]	--- VISIT end		
]	--- PATIENT end		
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[1..1]
{	--- OBSERVATION begin	R	[1..N]
TXA	Document Notification	R	[1..1]
}	--- OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

4.8.1.1.1.2 MSH Segment

The Document Sharing message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.8.1.1.1.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator.

4.8.1.1.1.2.2 MSH-2 Encoding Characters (ST)

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\

Delimiter	Value
Subcomponent Separator	&

4.8.1.1.1.2.3 *MSH-3 Sending Application (HD)*

This field shall contain “eGateway^00A0370027XXXXXX^EUI-64”, where XXXXXX is the serial number of the eGateway.

4.8.1.1.1.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.1.1.1.2.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.1.1.1.2.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.1.1.1.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.8.1.1.1.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with “ORU^R01^ORU_R01” in a Data Message.

4.8.1.1.1.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.8.1.1.1.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.8.1.1.1.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.8.1.1.1.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.8.1.1.1.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.8.1.1.1.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.8.1.1.1.2.15 *MSH-21 Message Profile Identifier (EI)*

This field shall be populated with “IHE_PCD_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO”.

4.8.1.1.1.3 *SFT Segment*

This segment follows the common Software Segment definition found in section 4.2.2.1 *SFT Segment*. By default this segment is not sent in the message.

4.8.1.1.1.4 PID Segment

The PID segment for the Data Message follows the common PID segment definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID
2	20	IS	X	[0..0]		Patient ID
3	250	CX	R	[1..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XP	R	[1..1]		Patient Name
6	250	XP	X	[0..0]		Mother's Maiden Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
19	16	ST	O	[0..1]		SSN Number - Patient

4.8.1.1.1.4.1 PID-1 Set ID – PID (SI)

PID-1 shall be empty.

4.8.1.1.1.4.2 PID-2 Patient ID (IS)

PID-2 shall be empty.

4.8.1.1.1.4.3 PID-3 Patient Identification List (CX)

PID-3 shall contain information regarding the patient's identifying number.

4.8.1.1.1.4.3.1 PID-3.1 ID Number (ST)

PID-3.1 shall contain the patient ID entered into the device.

4.8.1.1.1.4.3.2 PID-3.4 Assigning Authority (ST)

PID-3.4 shall be configurable in the field, set to the devices Facility, or filled in with "Hospital", in this order of preference.

4.8.1.1.1.4.3.3 PID-3.5 Identifier Code Type (ST)

PID-3.5 shall contain "PI".

4.8.1.1.1.4.4 PID-4 Alternate Patient ID - PID (CX)

PID-4 shall be empty.

4.8.1.1.1.4.5 PID-5 Patient Name (XP)

PID-5 shall contain the patient's name if available.

4.8.1.1.1.4.5.1 PID-5.1.1 Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name if available.

4.8.1.1.1.4.5.2 PID-5.2 Given Name (ST)

PID-5.2 shall contain the patient's given name if available.

4.8.1.1.1.4.5.3 PID-5.3 Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name if available.

4.8.1.1.1.4.5.4 PID-5.7 Name Type Code (ID)

PID-5.7 shall contain "L".

4.8.1.1.1.4.6 *PID-6 Mother's Maiden Name (XPN)*

PID-6 shall be empty.

4.8.1.1.1.4.7 *PID-7 Date/Time of Birth (DTM)*

PID-7 shall contain the patient's date of birth if available.

4.8.1.1.1.4.8 *PID-8 Administrative Sex (IS)*

PID-8 shall contain the patient's gender from Table 10.

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.8.1.1.1.4.9 *PID-19 SSN Number - Patient (ST)*

PID-19 shall contain the SSN of the patient if it is being used by the system.

4.8.1.1.1.5 PV1 Segment

The PV1 segment for the Data Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table #	ELEMENT NAME
1	4	SI	X			Set ID - PV1
2	1	IS	R	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	O	[0..1]	0010	Attending Doctor
8	250	XCN	O	[0..1]	0010	Referring Doctor
9	250	XCN	X		0010	Consulting Doctor
17	250	XCN	X		0010	Admitting Doctor

19	250	CX	RE	[0..1]		Visit Number
44	24	DTM	RE	[0..1]		Admit Date/Time
51	1	IS	X			Visit Indicator

4.8.1.1.1.5.1 *PV1-1 Set ID – PV1 (SI)*

PV1-1 shall be empty.

4.8.1.1.1.5.2 *PV1-2 Patient Class (IS)*

PV1-2 shall be populated with “I”.

4.8.1.1.1.5.3 *PV1-3 Assigned Location (PL)*

PV1-3 shall be populated with the patient’s assigned location.

4.8.1.1.1.5.3.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.8.1.1.1.5.3.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.8.1.1.1.5.3.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.8.1.1.1.5.3.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.8.1.1.1.5.4 *PV1-7 Attending Doctor (XCN)*

PV1-7 shall contain Attending Physician’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.8.1.1.1.5.5 *PV1-8 Referring Doctor (XCN)*

PV1-8 shall contain Referring Doctor’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.8.1.1.1.5.6 *PV1-19 Visit Number (CX)*

PV1-19 shall be populated with the visit number associated with the patient if it is available.

4.8.1.1.1.5.7 *PV1-44 Admit Date/Time (DTM)*

PV1-19 shall be populated with the patient’s hospital admit time if it is available.

4.8.1.1.1.6 *Observation Data Block*

The presence of the Observation data block is indicated by an OBR segment containing “182777000^monitoring of patient ^SCT” in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.8.1.1.1.6.1 *OBR segment*

This segment follows the standard OBR segment definition defined in section 4.2.2.4 *OBR segment* with the exceptions and restrictions defined in this section.

4.8.1.1.1.6.1.1 OBR-4 Universal Service Identifier (CWE)

OBR-4 shall be populated with “182777000^monitoring of patient^SCT”

4.8.1.1.1.6.2 *TXA segment*

SEQ	LEN	DT	Usage	RP/#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			00914	Set ID- TXA
2	30	IS	R		0270	00915	Document Type
3	2	ID	C		0191	00916	Document Content Presentation
4	24	DTM	O			00917	Activity Date/Time
5	250	XCN	C	Y		00918	Primary Activity Provider Code/Name
6	24	DTM	O			00919	Origination Date/Time
7	24	DTM	C			00920	Transcription Date/Time
8	24	DTM	O	Y		00921	Edit Date/Time
9	250	XCN	O	Y		00922	Originator Code/Name
10	250	XCN	O	Y		00923	Assigned Document Authenticator
11	250	XCN	C	Y		00924	Transcriptionist Code/Name
12	427	EI	R			00925	Unique Document Number
13	427	EI	C			00926	Parent Document Number
14	427	EI	O	Y		00216	Placer Order Number
15	427	EI	O			00217	Filler Order Number
16	30	ST	O			00927	Unique Document File Name
17	2	ID	R		0271	00928	Document Completion Status
18	2	ID	O		0272	00929	Document Confidentiality Status
19	2	ID	O		0273	00930	Document Availability Status
20	2	ID	O		0275	00932	Document Storage Status
21	30	ST	C			00933	Document Change Reason
22	250	PPN	C	Y		00934	Authentication Person, Time Stamp (set)
23	250	XCN	O	Y		00935	Distributed Copies (Code and Name of Recipient(s))

4.8.1.1.1.6.2.1 TXA-1 Set ID TXA (SI)

This field contains a number that uniquely identifies this transaction for the purpose of adding, changing, or deleting the transaction.

4.8.1.1.1.6.2.2 TXA-2 Document Type (IS)

This field identifies the type of document (as defined in the transcription system). Refer to User-Defined Table Document Type for suggested values. The organization is free to add more entries.

Value	Description	Comment
AR	Autopsy report	
CD	Cardiodiagnostics	
CN	Consultation	
DI	Diagnostic imaging	
DS	Discharge summary	
ED	Emergency department report	
HP	History and physical examination	
OP	Operative report	
PC	Psychiatric consultation	
PH	Psychiatric history and physical examination	
PN	Procedure note	
PR	Progress note	
SP	Surgical pathology	
TS	Transfer summary	

4.8.1.1.1.6.2.3 TXA-3 Document Content Presentation (ID)

This is a conditional field which is required whenever the message contains content as presented in one or more OBX segments. This field identifies the method by which this document was obtained or originated. Refer to HL7 Table for valid values.

Value	Description	Comment
AP	Other application data, typically uninterpreted binary data (HL7 V2.3 and later)	
AU	Audio data (HL7 V2.3 and later)	
FT	Formatted text (HL7 V2.2 only)	
IM	Image data (HL7 V2.3 and later)	
multipart	MIME multipart package (CDA per 2.5.2)	
NS	Non-scanned image (HL7 V2.2 only)	
SD	Scanned document (HL7 V2.2 only)	
SI	Scanned image (HL7 V2.2 only)	
TEXT	Machine readable text document (HL7 V2.3.1 and later)	
TX	Machine readable text document (HL7 V2.2 only)	

4.8.1.1.1.6.2.4 TXA-4 Activity Date/Time (DTM)

This field contains the date/time identified in the document as the date a procedure or activity was performed. This date can identify date of surgery, non-invasive procedure, consultation, examination, etc.

4.8.1.1.1.6.2.5 TXA-6 Origination Date/Time (DTM)

This field contains the date and time the document was created (i.e. dictated, recorded, etc.).

4.8.1.1.1.6.2.6 TXA-12 Unique Document Number (EI)

This field contains the document path or the document name.

4.8.1.1.1.6.2.7 TXA-17 Document Completion Status (ID)

This field identifies the current completion state of the document. This is a required, table-driven field. Refer to HL7 Table 0271 - Document Completion Status for valid values.

Value	Description	Comment
DI	Dictated	
DO	Documented	
IP	In Progress	
IN	Incomplete	
PA	Pre-authenticated	
AU	Authenticated	
LA	Legally authenticated	

4.8.2 MDM with Content

4.8.2.1 Message definitions

The eGateway will send document content to the receiving system. The receiving system is expected to send a reply to acknowledge the reception of the message.

4.8.2.1.1 Data Message (MDM^T02^MDM_T02)

4.8.2.1.1.1 MDM^T02^MDM_T02 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
EVN	Event Type	R	[1...1]
{	--- PATIENT RESULT begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- VISIT begin		
PV1	Patient Visit	R	[1..1]
]	--- VISIT end		
]	--- PATIENT end		
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[1..1]
{	--- OBSERVATION begin	R	[1..N]

Segment	Meaning	Usage	Cardinality
TXA	Document Notification	R	[1..1]
OBX	Observation/Result	R	[1...1]
}	--- OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

4.8.2.1.1.2 MSH Segment

The Document Sharing message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.8.2.1.1.2.1 MSH-1 Field Separator (ST)

Mindray shall use the standard '|' character for the field separator.

4.8.2.1.1.2.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.8.2.1.1.2.3 *MSH-3 Sending Application (HD)*

This field shall contain "eGateway^00A0370027XXXXXX^EUI-64", where XXXXXX is the serial number of the eGateway.

4.8.2.1.1.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.2.1.1.2.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.2.1.1.2.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.2.1.1.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.8.2.1.1.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ORU^R01^ORU_R01" in a Data Message.

4.8.2.1.1.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.8.2.1.1.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.8.2.1.1.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.8.2.1.1.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.8.2.1.1.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.8.2.1.1.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.8.2.1.1.2.15 *MSH-21 Message Profile Identifier (EI)*

This field shall be populated with “IHE_PCD_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO”.

4.8.2.1.1.3 *SFT Segment*

This segment follows the common Software Segment definition found in section 4.2.2.1 *SFT Segment*. By default this segment is not sent in the message.

4.8.2.1.1.4 *PID Segment*

The PID segment for the Data Message follows the common PID segment definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID
2	20	IS	X	[0..0]		Patient ID
3	250	CX	R	[1..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XP	R	[1..1]		Patient Name
6	250	XP	X	[0..0]		Mother's Maiden Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
19	16	ST	O	[0..1]		SSN Number - Patient

4.8.2.1.1.4.1 *PID-1 Set ID – PID (SI)*

PID-1 shall be empty.

4.8.2.1.1.4.2 *PID-2 Patient ID (IS)*

PID-2 shall be empty.

4.8.2.1.1.4.3 *PID-3 Patient Identification List (CX)*

PID-3 shall contain information regarding the patient's identifying number.

4.8.2.1.1.4.3.1 *PID-3.1 ID Number (ST)*

PID-3.1 shall contain the patient ID entered into the device.

4.8.2.1.1.4.3.2 *PID-3.4 Assigning Authority (ST)*

PID-3.4 shall be configurable in the field, set to the devices Facility, or filled in with “Hospital”, in this order of preference.

4.8.2.1.1.4.3.3 *PID-3.5 Identifier Code Type (ST)*

PID-3.5 shall contain “PI”.

4.8.2.1.1.4.4 *PID-4 Alternate Patient ID - PID (CX)*

PID-4 shall be empty.

4.8.2.1.1.4.5 *PID-5 Patient Name (XPN)*

PID-5 shall contain the patient's name if available.

4.8.2.1.1.4.5.1 PID-5.1.1 Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name if available.

4.8.2.1.1.4.5.2 PID-5.2 Given Name (ST)

PID-5.2 shall contain the patient's given name if available.

4.8.2.1.1.4.5.3 PID-5.3 Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name if available.

4.8.2.1.1.4.5.4 PID-5.7 Name Type Code (ID)

PID-5.7 shall contain "L".

4.8.2.1.1.4.6 *PID-6 Mother's Maiden Name (XPN)*

PID-6 shall be empty.

4.8.2.1.1.4.7 *PID-7 Date/Time of Birth (DTM)*

PID-7 shall contain the patient's date of birth if available.

4.8.2.1.1.4.8 *PID-8 Administrative Sex (IS)*

PID-8 shall contain the patient's gender from Table 10.

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.8.2.1.1.4.9 *PID-19 SSN Number - Patient (ST)*

PID-19 shall contain the SSN of the patient if it is being used by the system.

4.8.2.1.1.5 *PV1 Segment*

The PV1 segment for the Data Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table #	ELEMENT NAME
1	4	SI	X			Set ID - PV1
2	1	IS	R	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	O	[0..1]	0010	Attending Doctor

8	250	XCN	O	[0..1]	0010	Referring Doctor
9	250	XCN	X		0010	Consulting Doctor
17	250	XCN	X		0010	Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
44	24	DTM	RE	[0..1]		Admit Date/Time
51	1	IS	X			Visit Indicator

4.8.2.1.1.5.1 *PV1-1 Set ID – PV1 (SI)*

PV1-1 shall be empty.

4.8.2.1.1.5.2 *PV1-2 Patient Class (IS)*

PV1-2 shall be populated with “I”.

4.8.2.1.1.5.3 *PV1-3 Assigned Location (PL)*

PV1-3 shall be populated with the patient’s assigned location.

4.8.2.1.1.5.3.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.8.2.1.1.5.3.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.8.2.1.1.5.3.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.8.2.1.1.5.3.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.8.2.1.1.5.4 *PV1-7 Attending Doctor (XCN)*

PV1-7 shall contain Attending Physician’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.8.2.1.1.5.5 *PV1-8 Referring Doctor (XCN)*

PV1-8 shall contain Referring Doctor’s full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.8.2.1.1.5.6 *PV1-19 Visit Number (CX)*

PV1-19 shall be populated with the visit number associated with the patient if it is available.

4.8.2.1.1.5.7 *PV1-44 Admit Date/Time (DTM)*

PV1-19 shall be populated with the patient’s hospital admit time if it is available.

4.8.2.1.1.6 Observation Data Block

The presence of the Observation data block is indicated by an OBR segment containing “182777000^monitoring of patient ^SCT” in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.8.2.1.1.6.1 OBR segment

This segment follows the standard OBR segment definition defined in section 4.2.2.4 *OBR segment* with the exceptions and restrictions defined in this section.

4.8.2.1.1.6.1.1 OBR-4 Universal Service Identifier (CWE)

OBR-4 shall be populated with “182777000^monitoring of patient^SCT”

4.8.2.1.1.6.2 TXA segment

SEQ	LEN	DT	Usage	RP/#	TBL#	ITEM#	ELEMENT NAME
1	4	SI	R			00914	Set ID- TXA
2	30	IS	R		0270	00915	Document Type
3	2	ID	C		0191	00916	Document Content Presentation
4	24	DTM	O			00917	Activity Date/Time
5	250	XCN	C	Y		00918	Primary Activity Provider Code/Name
6	24	DTM	O			00919	Origination Date/Time
7	24	DTM	C			00920	Transcription Date/Time
8	24	DTM	O	Y		00921	Edit Date/Time
9	250	XCN	O	Y		00922	Originator Code/Name
10	250	XCN	O	Y		00923	Assigned Document Authenticator
11	250	XCN	C	Y		00924	Transcriptionist Code/Name
12	427	EI	R			00925	Unique Document Number
13	427	EI	C			00926	Parent Document Number
14	427	EI	O	Y		00216	Placer Order Number
15	427	EI	O			00217	Filler Order Number
16	30	ST	O			00927	Unique Document File Name
17	2	ID	R		0271	00928	Document Completion Status
18	2	ID	O		0272	00929	Document Confidentiality Status
19	2	ID	O		0273	00930	Document Availability Status
20	2	ID	O		0275	00932	Document Storage Status

SEQ	LEN	DT	Usage	RP/#	TBL#	ITEM#	ELEMENT NAME
21	30	ST	C			00933	Document Change Reason
22	250	PPN	C	Y		00934	Authentication Person, Time Stamp (set)
23	250	XCN	O	Y		00935	Distributed Copies (Code and Name of Recipient(s))

4.8.2.1.1.6.2.1 TXA-1 Set ID TXA (SI)

This field contains a number that uniquely identifies this transaction for the purpose of adding, changing, or deleting the transaction.

4.8.2.1.1.6.2.2 TXA-2 Document Type (IS)

This field identifies the type of document (as defined in the transcription system). Refer to User-Defined Table Document Type for suggested values. The organization is free to add more entries.

Value	Description	Comment
AR	Autopsy report	
CD	Cardiodiagnostics	
CN	Consultation	
DI	Diagnostic imaging	
DS	Discharge summary	
ED	Emergency department report	
HP	History and physical examination	
OP	Operative report	
PC	Psychiatric consultation	
PH	Psychiatric history and physical examination	
PN	Procedure note	
PR	Progress note	
SP	Surgical pathology	
TS	Transfer summary	

4.8.2.1.1.6.2.3 TXA-3 Document Content Presentation (ID)

This is a conditional field which is required whenever the message contains content as presented in one or more OBX segments. This field identifies the method by which this document was obtained or originated. Refer to HL7 Table for valid values.

Value	Description	Comment
AP	Other application data, typically uninterpreted binary data (HL7 V2.3 and later)	
AU	Audio data (HL7 V2.3 and later)	
FT	Formatted text (HL7 V2.2 only)	
IM	Image data (HL7 V2.3 and later)	
multipart	MIME multipart package (CDA per 2.5.2)	
NS	Non-scanned image (HL7 V2.2 only)	
SD	Scanned document (HL7 V2.2 only)	
SI	Scanned image (HL7 V2.2 only)	
TEXT	Machine readable text document (HL7 V2.3.1 and later)	
TX	Machine readable text document (HL7 V2.2 only)	

4.8.2.1.1.6.2.4 TXA-4 Activity Date/Time (DTM)

This field contains the date/time identified in the document as the date a procedure or activity was performed. This date can identify date of surgery, non-invasive procedure, consultation, examination, etc.

4.8.2.1.1.6.2.5 TXA-6 Origination Date/Time (DTM)

This field contains the date and time the document was created (i.e. dictated, recorded, etc.).

4.8.2.1.1.6.2.6 TXA-12 Unique Document Number (EI)

This field contains the document path or the document name.

4.8.2.1.1.6.2.7 TXA-17 Document Completion Status (ID)

This field identifies the current completion state of the document. This is a required, table-driven field. Refer to HL7 Table 0271 - Document Completion Status for valid values.

Value	Description	Comment
DI	Dictated	
DO	Documented	
IP	In Progress	
IN	Incomplete	
PA	Pre-authenticated	
AU	Authenticated	
LA	Legally authenticated	

4.8.2.1.1.6.3 *OBX segment*

This OBX specifies an observation of the patient or state of the device.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	C	[0..1]	<u>0125</u>	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	99999	varies	C	[0..1]		Observation Value

4.8.2.1.1.6.3.1 OBX-1 Set ID OBX (SI)

Mindray applications shall set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.8.2.1.1.6.3.2 OBX-2 Value Type (ID)

The OBX-2 field shall be populated "ED".

4.8.2.1.1.6.3.3 OBX-3 Observation Identifier (CWE)

OBX-3 shall contain the IHE Rosetta Terminology code for observations for the observation. Observation codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 5.1 *Parameters* for parameter values.

4.8.2.1.1.6.3.4 OBX-4 Observation Sub-ID (ST)

OBX-4 shall contain a M.V.C.I. containment tree format for measurement or settings.

4.8.2.1.1.6.3.5 OBX-5 Observation Value (variable)

OBX-5 shall contain the content of the document.

4.8.3 ORU

4.8.3.1 Message definitions

The eGateway will send document path or content to the receiving system. The receiving system is expected to send a reply to acknowledge the reception of the message.

4.8.3.1.1 Data Message (ORU^R01^ORU_R01)

4.8.3.1.1.1 ORU^R01^ORU_R01 Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
[SFT]	Software Segment	RE	[0..1]
{	--- PATIENT RESULT begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- VISIT begin		
PV1	Patient Visit	R	[1..1]
]	--- VISIT end		
]	--- PATIENT end		
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[1..1]
{	--- OBSERVATION begin	R	[1..N]
OBX	Observation/Result	R	[1..1]
}	--- OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

4.8.3.1.1.2 MSH Segment

The Document Sharing message uses the following MSH segment structure.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	1	ST	R	[1..1]		Field Separator
2	4	ST	R	[1..1]		Encoding Characters
3	277	HD	R	[1..1]		Sending Application
4	277	HD	RE	[0..1]	0361	Sending Facility

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
5	277	HD	RE	[0..1]	0362	Receiving Application
6	277	HD	RE	[0..1]	0361	Receiving Facility
7	24	DTM	R	[1..1]	0362	Date/Time of Message
8	40	ST	X			Security
9	15	MSG	R	[1..1]		Message Type
10	199	ST	R	[1..1]		Message Control Id
11	3	PT	R	[1..1]		Processing Id
12	60	VID	R	[1..1]		Version ID
13	15	NM	X			Sequence Number
14	180	ST	X			Continuation Pointer
15	2	ID	R	[1..1]	0155	Accept Acknowledgment Type
16	2	ID	R	[1..1]	0155	Application Acknowledgment Type
17	3	ID	X		0399	Country Code
18	16	ID	RE	[0..1]	0211	Character Set
19	250	CE	X			Principal Language Of Message
20	20	ID	X		0356	Alternate Character Set Handling Scheme
21	427	EI	R	[1..1]		Message Profile Identifier

4.8.3.1.1.2.1 *MSH-1 Field Separator (ST)*

Mindray shall use the standard '|' character for the field separator.

4.8.3.1.1.2.2 *MSH-2 Encoding Characters (ST)*

Mindray shall use the standard HL7 encoding character

Delimiter	Value
Component Separator	^
Repetition Separator	~
Escape Character	\
Subcomponent Separator	&

4.8.3.1.1.2.3 *MSH-3 Sending Application (HD)*

This field shall contain “eGateway^00A0370027XXXXXX^EUI-64”, where XXXXXX is the serial number of the eGateway.

4.8.3.1.1.2.4 *MSH-4 Sending Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.3.1.1.2.5 *MSH-5 Receiving Application (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.3.1.1.2.6 *MSH-6 Receiving Facility (HD)*

This field shall be based on the installations requirements. By default it is empty.

4.8.3.1.1.2.7 *MSH-7 Date/Time of Message (DTM)*

Mindray applications shall populate this field with the date and time the message is sent. The offset to UTC shall be included.

4.8.3.1.1.2.8 *MSH-9 Message Type (MSG)*

MSH-9 shall be populated with "ORU^R01^ORU_R01" in a Data Message.

4.8.3.1.1.2.9 *MSH-10 Message Control ID (ST)*

Mindray applications shall populate this field with an integer that is incremented for each new message that the application sends.

4.8.3.1.1.2.10 *MSH-11 Message Processing ID (PT)*

This field shall be populated with "P" for production.

4.8.3.1.1.2.11 *MSH-12 Version ID (VID)*

This field shall be populated with "2.6".

4.8.3.1.1.2.12 *MSH-15 Accept Acknowledgement Type (ID)*

This field shall be populated with "AL".

4.8.3.1.1.2.13 *MSH-16 Application Acknowledgement Type (ID)*

This field shall be populated with "NE".

4.8.3.1.1.2.14 *MSH-18 Character Set (ID)*

This field shall be populated with "UNICODE UTF-8". By default the eGateway encodes data using UTF-8 encoding.

4.8.3.1.1.2.15 *MSH-21 Message Profile Identifier (EI)*

This field shall be populated with "IHE_PCD_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO".

4.8.3.1.1.3 *SFT Segment*

This segment follows the common Software Segment definition found in section 4.2.2.1 *SFT Segment*. By default this segment is not sent in the message.

4.8.3.1.1.4 *PID Segment*

The PID segment for the Data Message follows the common PID segment definition.

SEQ	LEN	DT	Usage	Cardinality	Table#	ELEMENT NAME
1	4	SI	X	[0..0]		Set ID - PID

2	20	IS	X	[0..0]		Patient ID
3	250	CX	R	[1..1]		Patient Identification List
4	20	CX	X	[0..0]		Alternate Patient ID - PID
5	250	XPN	R	[1..1]		Patient Name
6	250	XPN	X	[0..0]		Mother's Maiden Name
7	26	DTM	RE	[0..1]		Date/Time of Birth
8	1	IS	RE	[0..1]	0001	Administrative Sex
19	16	ST	O	[0..1]		SSN Number - Patient

4.8.3.1.1.4.1 *PID-1 Set ID – PID (SI)*

PID-1 shall be empty.

4.8.3.1.1.4.2 *PID-2 Patient ID (IS)*

PID-2 shall be empty.

4.8.3.1.1.4.3 *PID-3 Patient Identification List (CX)*

PID-3 shall contain information regarding the patient's identifying number.

4.8.3.1.1.4.3.1 PID-3.1 ID Number (ST)

PID-3.1 shall contain the patient ID entered into the device.

4.8.3.1.1.4.3.2 PID-3.4 Assigning Authority (ST)

PID-3.4 shall be configurable in the field, set to the devices Facility, or filled in with "Hospital", in this order of preference.

4.8.3.1.1.4.3.3 PID-3.5 Identifier Code Type (ST)

PID-3.5 shall contain "PI".

4.8.3.1.1.4.4 *PID-4 Alternate Patient ID - PID (CX)*

PID-4 shall be empty.

4.8.3.1.1.4.5 *PID-5 Patient Name (XPN)*

PID-5 shall contain the patient's name if available.

4.8.3.1.1.4.5.1 PID-5.1.1 Family Name.Surname (ST)

PID-5.1.1 shall contain the patient's family name if available.

4.8.3.1.1.4.5.2 PID-5.2 Given Name (ST)

PID-5.2 shall contain the patient's given name if available.

4.8.3.1.1.4.5.3 PID-5.3 Second or Further Given Names (ST)

PID-5.3 shall contain the patient's middle name if available.

4.8.3.1.1.4.5.4 PID-5.7 Name Type Code (ID)

PID-5.7 shall contain "L".

4.8.3.1.1.4.6 *PID-6 Mother's Maiden Name (XPN)*

PID-6 shall be empty.

4.8.3.1.1.4.7 *PID-7 Date/Time of Birth (DTM)*

PID-7 shall contain the patient's date of birth if available.

4.8.3.1.1.4.8 *PID-8 Administrative Sex (IS)*

PID-8 shall contain the patient's gender from Table 10.

Value	Gender
<Blank>	Not defined
M	Male
F	Female
U	Unknown

4.8.3.1.1.4.9 *PID-19 SSN Number - Patient (ST)*

PID-19 shall contain the SSN of the patient if it is being used by the system.

4.8.3.1.1.5 *PV1 Segment*

The PV1 segment for the Data Message uses the following definition.

SEQ	LEN	DT	Usage	Cardinality	Table #	ELEMENT NAME
1	4	SI	X			Set ID - PV1
2	1	IS	R	[0..0]	0004	Patient Class
3	80	PL	RE	[0..1]		Assigned Patient Location
7	250	XCN	O	[0..1]	0010	Attending Doctor
8	250	XCN	O	[0..1]	0010	Referring Doctor
9	250	XCN	X		0010	Consulting Doctor
17	250	XCN	X		0010	Admitting Doctor
19	250	CX	RE	[0..1]		Visit Number
44	24	DTM	RE	[0..1]		Admit Date/Time
51	1	IS	X			Visit Indicator

4.8.3.1.1.5.1 *PV1-1 Set ID – PV1 (SI)*

PV1-1 shall be empty.

4.8.3.1.1.5.2 *PV1-2 Patient Class (IS)*

PV1-2 shall be populated with "I".

4.8.3.1.1.5.3 *PV1-3 Assigned Location (PL)*

PV1-3 shall be populated with the patient's assigned location.

4.8.3.1.1.5.3.1 PV1-3.1 Point-of-Care (ST)

PV1-3.1 shall contain the point-of-care, department, or unit the patient is assigned to.

4.8.3.1.1.5.3.2 PV1-3.2 Room (ST)

PV1-3.2 shall contain room the patient is assigned to.

4.8.3.1.1.5.3.3 PV1-3.3 Bed (ST)

PV1-3.3 shall contain bed the patient is assigned to.

4.8.3.1.1.5.3.4 PV1-3.4.1 Facility.NamespaceID (ST)

PV1-3.4.1 shall contain facility or hospital the patient is assigned to.

4.8.3.1.1.5.4 *PV1-7 Attending Doctor (XCN)*

PV1-7 shall contain Attending Physician's full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.8.3.1.1.5.5 *PV1-8 Referring Doctor (XCN)*

PV1-8 shall contain Referring Doctor's full name. The eGateway uses this field in a non-standard way and sends the doctors full name in the 1st component of the field. No other components are used.

4.8.3.1.1.5.6 *PV1-19 Visit Number (CX)*

PV1-19 shall be populated with the visit number associated with the patient if it is available.

4.8.3.1.1.5.7 *PV1-44 Admit Date/Time (DTM)*

PV1-19 shall be populated with the patient's hospital admit time if it is available.

4.8.3.1.1.6 *Observation Data Block*

The presence of the Observation data block is indicated by an OBR segment containing "182777000^monitoring of patient ^SCT" in the OBR-4 field. The use of the Observation data block is optional to be included in a data message.

The following table specifies the structure of the observation data block

Segment	Meaning	Usage	Cardinality
OBR	Observation	R	[1..1]
{		R	[1..N]
OBX	Observation Data	R	[1..1]
}			

4.8.3.1.1.6.1 *OBR segment*

This segment follows the standard OBR segment definition defined in section 4.2.2.4 *OBR segment* with the exceptions and restrictions defined in this section.

4.8.3.1.1.6.1.1 OBR-4 Universal Service Identifier (CWE)

OBR-4 shall be populated with "182777000^monitoring of patient^SCT"

4.8.3.1.1.6.2 *OBX segment*

This OBX specifies an observation of the patient or state of the device.

SEQ	LEN	DT	Usage	Cardinality	Table#	Element Name
1	4	SI	R	[1..1]		Set ID - OBX
2	2	ID	C	[0..1]	<u>0125</u>	Value Type
3	250	CWE	R	[1..1]		Observation Identifier
4	20	ST	R	[1..1]		Observation Sub-ID
5	99999	varies	C	[0..1]		Observation Value

4.8.3.1.1.6.2.1 OBX-1 Set ID OBX (SI)

Mindray applications shall set the first occurrence this field in an OBR block to 1 and increment the value for each subsequent OBX segment in the same OBR block.

4.8.3.1.1.6.2.2 OBX-2 Value Type (ID)

The OBX-2 field shall be populated "ED".

4.8.3.1.1.6.2.3 OBX-3 Observation Identifier (CWE)

OBX-3 shall contain the IHE Rosetta Terminology code for observations for the observation. Observation codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system. See section 5.1 *Parameters* for parameter values.

4.8.3.1.1.6.2.4 OBX-4 Observation Sub-ID (ST)

OBX-4 shall contain a M.V.C.I. containment tree format for measurement or settings.

4.8.3.1.1.6.2.5 OBX-5 Observation Value (variable)

OBX-5 shall contain the path or content of the document.

5 Data Definitions

5.1 Parameters

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Patient Monitor	1.0.0.0		69965	MDC_DEV_MON_PHYSIO_MULTI_PARAM_MDS	MDC	
Blood Pressure	1.1.0.0		69710	MDC_DEV_ANALY_PRESS_BLD_VMD	MDC	
Invasive BP, 1	1.1.1.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 1 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 1 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 1 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 1 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
ART 1 Systolic		NM	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	MDC_DIM_MMHG
ART 1 Diastolic		NM	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	MDC_DIM_MMHG
ART 1 Mean		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
ART 1 Pulse Rate		NM	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	MDC_DIM_BEAT_PER_MIN
IAP Systolic		NM	101	MNDRY_PRESS_INTRA_ABDOM_SYS	99MNDRY	MDC_DIM_MMHG
IAP Diastolic		NM	102	MNDRY_PRESS_INTRA_ABDOM_DIA	99MNDRY	MDC_DIM_MMHG
IAP Mean		NM	103	MNDRY_PRESS_INTRA_ABDOM_MEAN	99MNDRY	MDC_DIM_MMHG
IAP Pulse Rate		NM	379	MNDRY_BLD_PULS_RATE_INTRA_ABDOM	99MNDRY	MDC_DIM_BEAT_PER_MIN
UVP Systolic		NM	150089	MDC_PRESS_BLD_VEN_UMB_SYS	MDC	MDC_DIM_MMHG
UVP Diastolic		NM	150090	MDC_PRESS_BLD_VEN_UMB_DIA	MDC	MDC_DIM_MMHG
UVP Mean		NM	150091	MDC_PRESS_BLD_VEN_UMB_MEAN	MDC	MDC_DIM_MMHG
UVP Pulse Rate		NM	375	MNDRY_BLD_PULS_RATE_VEN_UMB	99MNDRY	MDC_DIM_BEAT_PER_MIN
ICP Systolic		NM	153609	MDC_PRESS_INTRA_CRAN_SYS	MDC	MDC_DIM_MMHG
ICP Diastolic		NM	153610	MDC_PRESS_INTRA_CRAN_DIA	MDC	MDC_DIM_MMHG
ICP Mean		NM	153611	MDC_PRESS_INTRA_CRAN_MEAN	MDC	MDC_DIM_MMHG
ICP Pulse Rate		NM	376	MNDRY_BLD_PULS_RATE_INTRA_CRAN	99MNDRY	MDC_DIM_BEAT_PER_MIN
LA Systolic		NM	150065	MDC_PRESS_BLD_ATR_LEFT_SYS	MDC	MDC_DIM_MMHG
LA Diastolic		NM	150066	MDC_PRESS_BLD_ATR_LEFT_DIA	MDC	MDC_DIM_MMHG

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
LA Mean		NM	150067	MDC_PRESS_BLD_ATR_LEFT_MEAN	MDC	MDC_DIM_MMHG
LA Pulse Rate		NM	370	MNDRY_BLD_PULS_RATE_ATR_LEFT	99MNDRY	MDC_DIM_BEAT_PER_MIN
RA Systolic		NM	150069	MDC_PRESS_BLD_ATR_RIGHT_SYS	MDC	MDC_DIM_MMHG
RA Diastolic		NM	150070	MDC_PRESS_BLD_ATR_RIGHT_DIA	MDC	MDC_DIM_MMHG
RA Mean		NM	150071	MDC_PRESS_BLD_ATR_RIGHT_MEAN	MDC	MDC_DIM_MMHG
RA Pulse Rate		NM	371	MNDRY_BLD_PULS_RATE_ATR_RIGHT	99MNDRY	MDC_DIM_BEAT_PER_MIN
BAP Systolic		NM	150681	MDC_PRESS_BLD_ART_BRACHIAL_SYS	MDC	MDC_DIM_MMHG
BAP Diastolic		NM	150682	MDC_PRESS_BLD_ART_BRACHIAL_DIA	MDC	MDC_DIM_MMHG
BAP Mean		NM	150683	MDC_PRESS_BLD_ART_BRACHIAL_MEAN	MDC	MDC_DIM_MMHG
BAP Pulse Rate		NM	373	MNDRY_BLD_PULS_RATE_ART_BRACHIAL	99MNDRY	MDC_DIM_BEAT_PER_MIN
CVP Systolic		NM	150085	MDC_PRESS_BLD_VEN_CENT_SYS	MDC	MDC_DIM_MMHG
CVP Diastolic		NM	150086	MDC_PRESS_BLD_VEN_CENT_DIA	MDC	MDC_DIM_MMHG
CVP Mean		NM	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	MDC_DIM_MMHG
CVP Pulse Rate		NM	369	MNDRY_BLD_PULS_RATE_VEN_CENT	99MNDRY	MDC_DIM_BEAT_PER_MIN
UA Systolic		NM	150057	MDC_PRESS_BLD_ART_UMB_SYS	MDC	MDC_DIM_MMHG
UA Diastolic		NM	150058	MDC_PRESS_BLD_ART_UMB_DIA	MDC	MDC_DIM_MMHG
UA Mean		NM	150059	MDC_PRESS_BLD_ART_UMB_MEAN	MDC	MDC_DIM_MMHG
UA Pulse Rate		NM	365	MNDRY_BLD_PULS_RATE_ART_UMB	99MNDRY	MDC_DIM_BEAT_PER_MIN
Ao Systolic		NM	150029	MDC_PRESS_BLD_AORT_SYS	MDC	MDC_DIM_MMHG
Ao Diastolic		NM	150030	MDC_PRESS_BLD_AORT_DIA	MDC	MDC_DIM_MMHG
Ao Mean		NM	150031	MDC_PRESS_BLD_AORT_MEAN	MDC	MDC_DIM_MMHG
Ao Pulse Rate		NM	372	MNDRY_BLD_PULS_RATE_AORT	99MNDRY	MDC_DIM_BEAT_PER_MIN
PA Systolic		NM	150045	MDC_PRESS_BLD_ART_PULM_SYS	MDC	MDC_DIM_MMHG
PA Diastolic		NM	150046	MDC_PRESS_BLD_ART_PULM_DIA	MDC	MDC_DIM_MMHG
PA Mean		NM	150047	MDC_PRESS_BLD_ART_PULM_MEAN	MDC	MDC_DIM_MMHG
PA Pulse Rate		NM	368	MNDRY_BLD_PULS_RATE_ART_PULM	99MNDRY	MDC_DIM_BEAT_PER_MIN
FAP Systolic		NM	150649	MDC_PRESS_BLD_ART_FEMORAL_SYS	MDC	MDC_DIM_MMHG
FAP Diastolic		NM	150650	MDC_PRESS_BLD_ART_FEMORAL_DIA	MDC	MDC_DIM_MMHG

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
FAP Mean		NM	150651	MDC_PRESS_BLD_ART_FEMORAL_MEAN	MDC	MDC_DIM_MMHG
FAP Pulse Rate		NM	374	MNDRY_BLD_PULS_RATE_ART_FEMORIAL	99MNDRY	MDC_DIM_BEAT_PER_MIN
LV Systolic		NM	150101	MDC_PRESS_BLD_VENT_LEFT_SYS	MDC	MDC_DIM_MMHG
LV Diastolic		NM	150102	MDC_PRESS_BLD_VENT_LEFT_DIA	MDC	MDC_DIM_MMHG
LV Mean		NM	150103	MDC_PRESS_BLD_VENT_LEFT_MEAN	MDC	MDC_DIM_MMHG
LV Pulse Rate		NM	366	MNDRY_BLD_PULS_RATE_VENT_LEFT	99MNDRY	MDC_DIM_BEAT_PER_MIN
Invasive BP, 2	1.1.2.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 2 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 2 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 2 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 2 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
ART 2 Systolic		NM	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	MDC_DIM_MMHG
ART 2 Diastolic		NM	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	MDC_DIM_MMHG
ART 2 Mean		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
ART 2 Pulse Rate		NM	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	MDC_DIM_BEAT_PER_MIN
Invasive BP, 3	1.1.3.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 3 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 3 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 3 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 3 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
Invasive BP, 4	1.1.4.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 4 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 4 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 4 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 4 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
Invasive BP, 5	1.1.5.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 5 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 5 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
IBP 5 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 5 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
Invasive BP, 6	1.1.6.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 6 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 6 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 6 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 6 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
Invasive BP, 7	1.1.7.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 7 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 7 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 7 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 7 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
Invasive BP, 8	1.1.8.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
IBP 8 Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
IBP 8 Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
IBP 8 Mean		NM	150019	MDC_PRESS_BLD_MEAN	MDC	MDC_DIM_MMHG
IBP 8 Pulse Rate		NM	149522	MDC_BLD_PULS_RATE_INV	MDC	MDC_DIM_BEAT_PER_MIN
NIBP	1.1.9.0		70687	MDC_DEV_PRESS_BLD_NONINV_CHAN	MDC	
NIBP Systolic		NM	150021	MDC_PRESS_BLD_NONINV_SYS	MDC	MDC_DIM_MMHG
NIBP Diastolic		NM	150022	MDC_PRESS_BLD_NONINV_DIA	MDC	MDC_DIM_MMHG
NIBP Mean		NM	150023	MDC_PRESS_BLD_NONINV_MEAN	MDC	MDC_DIM_MMHG
NIBP Pulse Rate		NM	149546	MDC_PULS_RATE_NON_INV	MDC	MDC_DIM_BEAT_PER_MIN
NIBP SDM		ST	544	MNDRY_PRESS_BLD_NONINV_SDM	99MNDRY	MDC_DIM_MMHG
Calculations	1.1.10.0		69747	MDC_DEV_CALC_HEMO_CHAN	MDC	
Abdominal Prefusion Pressure (APP)		NM	104	MNDRY_PRESS ABDOM_PERF	99MNDRY	MDC_DIM_MMHG
Cerebral Prefusion Pressure (CePP)		NM	153604	MDC_PRESS_CEREB_PERF	MDC	MDC_DIM_MMHG
Arterial, PiCCO	1.1.11.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Stroke Volume (SV)		NM	150404	MDC_VOL_BLD_STROKE	MDC	MDC_DIM_MILLI_L
ART Systolic		NM	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	MDC_DIM_MMHG
ART Diastolic		NM	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	MDC_DIM_MMHG
ART Mean		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
pART Systolic, PiCCO		NM	150033	MDC_PRESS_BLD_ART_SYS	MDC	MDC_DIM_MMHG
pART Diastolic, PiCCO		NM	150034	MDC_PRESS_BLD_ART_DIA	MDC	MDC_DIM_MMHG
pART Mean, PiCCO		NM	150035	MDC_PRESS_BLD_ART_MEAN	MDC	MDC_DIM_MMHG
pART Pulse Rate		NM	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	MDC_DIM_BEAT_PER_MIN
Central Venous, PiCCO	1.1.12.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
pCVP Systolic, PiCCO		NM	150085	MDC_PRESS_BLD_VEN_CENT_SYS	MDC	MDC_DIM_MMHG
pCVP Diastolic, PiCCO		NM	150086	MDC_PRESS_BLD_VEN_CENT_DIA	MDC	MDC_DIM_MMHG
pCVP Mean, PiCCO		NM	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	MDC_DIM_MMHG
pCVP Pulse Rate		NM	369	MNDRY_BLD_PULS_RATE_VEN_CENT	99MNDRY	MDC_DIM_BEAT_PER_MIN
IABP	1.1.13.0		69711	MDC_DEV_ANALY_PRESS_BLD_CHAN	MDC	
ART Pressure, Systolic		NM	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	MDC_DIM_MMHG
ART Pressure, Augmented Systolic		NM	150041	MDC_PRESS_BLD_ART_AUG_SYS	MDC	MDC_DIM_MMHG
ART Pressure, Diastolic		NM	150066	MDC_PRESS_BLD_ART_ABP_DIA	MDC	MDC_DIM_MMHG
ART Pressure, Mean		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
ART Pressure, Pulse Rate		NM	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	MDC_DIM_BEAT_PER_MIN
Temperature	1.2.0.0		69902	MDC_DEV_METER_TEMP_VMD	MDC	
Temperature, 1	1.2.1.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 1, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 1, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 1, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 1, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 1, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 1, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 1, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature 1, Axillary		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 1, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 1, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 1, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 1, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 1, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 1, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 1, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 1, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 1, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 1, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 1, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature, 2	1.2.2.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 2, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature 2, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 2, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 2, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 2, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 2, Axillary		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 2, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 2, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 2, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature 2, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 2, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 2, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 2, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 2, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 2, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 2, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 2, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 2, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 2, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature, 3	1.2.3.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 3, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 3, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 3, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 3, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 3, Axillary		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 3, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 3, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature 3, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 3, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 3, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 3, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 3, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 3, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 3, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 3, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 3, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 3, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 3, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 3, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
△Temperature, 1 and 2	1.2.4.0		70715	MDC_DEV_TEMP_DIFF_CHAN	MDC	
△Temperature, 1 and 2		NM	188440	MDC_TEMP_DIFF	MDC	MDC_DIM_FAHR
Temperature, Spot Check & Infrared	1.2.5.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature, Axillary		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature, 4	1.2.6.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 4, Axillary		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 4, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 4, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 4, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 4, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 4, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 4, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 4, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 4, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 4, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 4, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 4, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 4, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 4, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature 4, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 4, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 4, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 4, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature 4, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature, 5	1.2.7.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 5, Arterial Blood		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 5, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 5, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 5, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 5, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 5, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 5, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 5, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 5, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 5, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 5, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 5, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 5, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 5, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 5, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 5, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 5, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 5, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 5, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature, 6	1.2.8.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 6, Arterial Blood		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 6, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 6, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 6, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 6, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 6, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 6, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 6, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 6, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 6, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 6, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 6, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 6, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 6, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature 6, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 6, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 6, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 6, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 6, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature, 7	1.2.9.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 7, Arterial Blood		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR
Temperature 7, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 7, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 7, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 7, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 7, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 7, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 7, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 7, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 7, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 7, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 7, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 7, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 7, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
Temperature 7, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 7, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 7, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 7, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 7, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature, 8	1.2.10.0		69903	MDC_DEV_METER_TEMP_CHAN	MDC	
Temperature 8, Arterial Blood		NM	188496	MDC_TEMP_AXIL	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Temperature 8, Nasopharynx		NM	150380	MDC_TEMP_NASOPH	MDC	MDC_DIM_FAHR
Temperature 8, Esoph		NM	150372	MDC_TEMP_ESOPH	MDC	MDC_DIM_FAHR
Temperature 8, Rectal		NM	188420	MDC_TEMP_RECT	MDC	MDC_DIM_FAHR
Temperature 8, Room		NM	188508	MDC_TEMP_ROOM	MDC	MDC_DIM_FAHR
Temperature 8, Airway		NM	150356	MDC_TEMP_AWAY	MDC	MDC_DIM_FAHR
Temperature 8, Foley		NM	150348	MDC_TEMP_FOLEY	MDC	MDC_DIM_FAHR
Temperature 8, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Temperature 8, Myocardial		NM	188500	MDC_TEMP_MYO	MDC	MDC_DIM_FAHR
Temperature 8, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 8, Intracranial		NM	112	MNDRY_TEMP_INTRA_CRAN	99MNDRY	MDC_DIM_FAHR
Temperature 8, Oral		NM	188424	MDC_TEMP_ORAL	MDC	MDC_DIM_FAHR
Temperature 8, Temple		NM	471	MNDRY_TEMP_TEMPLE	99MNDRY	MDC_DIM_FAHR
Temperature 8, Ear		NM	188428	MDC_TEMP_EAR	MDC	MDC_DIM_FAHR
Temperature 8, Tympanic		NM	150392	MDC_TEMP_TYMP	MDC	MDC_DIM_FAHR
Temperature 8, Arterial Blood		NM	150352	MDC_TEMP_ART	MDC	MDC_DIM_FAHR
Temperature 8, Venous Blood		NM	150396	MDC_TEMP_VEN	MDC	MDC_DIM_FAHR
Temperature 8, Unlabeled		NM	150344	MDC_TEMP	MDC	MDC_DIM_FAHR
Temperature 8, Skin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_FAHR
Temperature 8, Core		NM	150368	MDC_TEMP_CORE	MDC	MDC_DIM_FAHR
△Temperature 2, 3 and 4	1.2.11.0		70715	MDC_DEV_TEMP_DIFF_CHAN	MDC	
△Temperature 2, 3 and 4		NM	188440	MDC_TEMP_DIFF	MDC	MDC_DIM_FAHR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
△Temperature 3, 5 and 6	1.2.12.0		70715	MDC_DEV_TEMP_DIFF_CHAN	MDC	
△Temperature 3, 5 and 6		NM	188440	MDC_TEMP_DIFF	MDC	MDC_DIM_FAHR
△Temperature 4, 7 and 8	1.2.13.0		70715	MDC_DEV_TEMP_DIFF_CHAN	MDC	
△Temperature 4, 7 and 8		NM	188440	MDC_TEMP_DIFF	MDC	MDC_DIM_FAHR
Pulse Oximetry	1.3.0.0		69642	MDC_DEV_ANALY_SAT_O2_VMD	MDC	
Pulse Oximetry, 1	1.3.1.0		69643	MDC_DEV_ANALY_SAT_O2_CHAN	MDC	
SpO ₂ 1 Saturation		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
SpO ₂ 1 Pulse Rate		NM	149530	MDC_PULS_OXIM_PULS_RATE	MDC	MDC_DIM_BEAT_PER_MIN
SpO ₂ 1 Sat Seconds		NM	247	MNDRY_PULS_OXIM_SAT_SECONDS	99MNDRY	MDC_DIM_SEC
SpO ₂ 1 Perfusion Index		NM	150488	MDC_BLD_PERF_INDEX	MDC	MDC_DIM_PERCENT
△SpO ₂		NM	137	MNDRY_PULS_OXIM_SAT_O2_DIFF	99MNDRY	MDC_DIM_PERCENT
CPR Quality Index		NM	409	MNDRY_CPR_COMP_QUALITY_INDEX	99MNDRY	MDC_DIM_DIMLESS
CPR Intermission Timing		NM	408	MNDRY_CPR_TIME_PD_INTERRUPT	99MNDRY	MDC_DIM_SEC
Percentage of continuous CPR compression		NM	410	MNDRY_CPR_COMP_PERCENT	99MNDRY	MDC_DIM_PERCENT
CPR compression frequency		NM	407	MNDRY_CPR_COMP_RATE	99MNDRY	MNDRY_DIM_COMPRESSIONS_PER_MIN
Pulse Oximetry, 2	1.3.2.0		69643	MDC_DEV_ANALY_SAT_O2_CHAN	MDC	
SpO ₂ 2 Saturation		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
SpO ₂ 2 Pulse Rate		NM	149530	MDC_PULS_OXIM_PULS_RATE	MDC	MDC_DIM_BEAT_PER_MIN
SpO ₂ 2 Sat Seconds		NM	247	MNDRY_PULS_OXIM_SAT_SECONDS	99MNDRY	MDC_DIM_SEC
SpO ₂ 2 Perfusion Index		NM	150488	MDC_BLD_PERF_INDEX	MDC	MDC_DIM_PERCENT
CPR Quality Index		NM	409	MNDRY_CPR_COMP_QUALITY_INDEX	99MNDRY	MDC_DIM_DIMLESS
CPR Intermission Timing		NM	408	MNDRY_CPR_TIME_PD_INTERRUPT	99MNDRY	MDC_DIM_SEC

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Percentage of continuous CPR compression		NM	410	MNDRY_CPR_COMP_PERCENT	99MNDRY	MDC_DIM_PERCENT
CPR compression frequency		NM	407	MNDRY_CPR_COMP_RATE	99MNDRY	MNDRY_DIM_COMPRESSIONS_PER_MIN
Pulse Oximetry, Integrated Device	1.3.4.0		69643	MDC_DEV_ANALY_SAT_O2_CHAN	MDC	
SpO ₂ Saturation		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
SpO ₂ Pulse Rate		NM	149530	MDC_PULS_OXIM_PULS_RATE	MDC	MDC_DIM_BEAT_PER_MIN
SpO ₂ Perfusion Index		NM	150488	MDC_BLD_PERF_INDEX	MDC	MDC_DIM_DIMLESS
SpO ₂ Respiration Rate		NM	151658	MDC_PULS_OXIM_PLETH_RESP_RATE	MDC	MDC_DIM_PER_MIN
SpO ₂ SPMET		NM	160288	MDC_PULS_OXIM_HB_MET_ART	MDC	MDC_DIM_PERCENT
SpO ₂ SPCO		NM	160284	MDC_PULS_OXIM_HB_CO_ART	MDC	MDC_DIM_PERCENT
SpO ₂ SPHB		NM	160292	MDC_PULS_OXIM_HB_TOTAL_ART	MDC	MDC_DIM_G_PER_DL
SpO ₂ SPOC		NM	160280	MDC_PULS_OXIM_CONC_HB_O2_ART_CALC	MDC	MNDRY_DIM_MILLI_L_PER_DECIL
SpO ₂ PVINDEX		NM	478	MNDRY_PULS_OXIM_PLETH_VAR_INDEX	99MNDRY	MDC_DIM_DIMLESS
O ₂ Venous Saturation	1.4.0.0		70730	MDC_DEV_O2_VEN_SAT_VMD	MDC	
O ₂ Venous Saturation	1.4.1.0		70731	MDC_DEV_O2_VEN_SAT_CHAN	MDC	
O ₂ Delivery Index		NM	150668	MDC_SAT_O2_DELIV_INDEX	MDC	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
iSvO ₂		NM	150332	MDC_SAT_O2_VEN	MDC	MDC_DIM_PERCENT
Central Venous Oxygen Saturation		NM	109	MNDRY_SAT_O2_VEN_CENT	99MNDRY	MDC_DIM_PERCENT
Oxygen Delivery		NM	138	MNDRY_SAT_O2_DELIV	99MNDRY	MDC_DIM_MILLI_L_PER_MIN
O ₂ Consumption		NM	150272	MDC_FLOW_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
Hct		NM	160132	MDC_CONC_HCT_GEN	MDC	MDC_DIM_PERCENT
SaO ₂		NM	150324	MDC_SAT_O2_ART	MDC	MDC_DIM_PERCENT
O ₂ Saturation		NM	413	MNDRY_O2_CONSUMP_ESTIMATE_SAT_O2	99MNDRY	MDC_DIM_PERCENT
SvO ₂		NM	150332	MDC_SAT_O2_VEN	MDC	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
ScvO2		NM	109	MNDRY_SAT_O2_VEN_CENT	99MNDRY	MDC_DIM_PERCENT
VO2I		NM	140	MNDRY_SAT_O2_CONSUMP_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
VO2		NM	152420	MDC_FLOW_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
VO2e		NM	411	MNDRY_O2_CONSUMP_ESTIMATE	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
VO2Ie		NM	412	MNDRY_O2_CONSUMP_ESTIMATE_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
O2 Saturation		NM	413	MNDRY_O2_CONSUMP_ESTIMATE_SAT_O2	99MNDRY	MDC_DIM_PERCENT
O2EI		NM	141	MNDRY_SAT_O2_EXTRACTION_INDEX	99MNDRY	MDC_DIM_PERCENT
DO2		NM	138	MNDRY_SAT_O2_DELIV	99MNDRY	MDC_DIM_MILLI_L_PER_MIN
SvO2 SQI		NM	142	MNDRY_SAT_O2_SIGNAL_QUALITY_INDEX	99MNDRY	MDC_DIM_DIMLESS
DO2I		NM	139	MNDRY_SAT_O2_DELIV_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
Hb		NM	159764	MDC_CONC_HB_ART	MDC	MDC_DIM_G_PER_DL
iHb		NM	159764	MDC_CONC_HB_ART	MDC	MDC_DIM_G_PER_DL
iVO2I		NM	140	MNDRY_SAT_O2_CONSUMP_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
iVO2Ie		NM	412	MNDRY_O2_CONSUMP_ESTIMATE_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
iVO2e		NM	411	MNDRY_O2_CONSUMP_ESTIMATE	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
iVO2		NM	152420	MDC_FLOW_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
iDO2I		NM	139	MNDRY_SAT_O2_DELIV_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
iDO2		NM	138	MNDRY_SAT_O2_DELIV	99MNDRY	MDC_DIM_MILLI_L_PER_MIN
iScvO2		NM	109	MNDRY_SAT_O2_VEN_CENT	99MNDRY	MDC_DIM_PERCENT
O2 Consumption Index		NM	150664	MDC_SAT_O2_CONSUMP_INDEX	MDC	MDC_DIM_MILLI_L_PER_MIN_P R_M_SQ
Oxygen Extraction Ratio		NM	490	MNDRY_SAT_O2_EXTRATION_RATIO	99MNDRY	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Wedge	1.5.0.0		70726	MDC_DEV_WEDGE_VMD	MDC	
Wedge	1.5.1.0		70727	MDC_DEV_WEDGE_CHAN	MDC	
PAWP		NM	150052	MDC_PRESS_BLD_ART_PULM_OCCL	MDC	MDC_DIM_MMHG
Cardiac Output	1.6.0.0		69670	MDC_DEV_ANALY_CARD_OUTPUT_VMD	MDC	
Cardiac Output	1.6.1.0		69671	MDC_DEV_ANALY_CARD_OUTPUT_CHAN	MDC	
CI		NM	378	MNDRY_OUTPUT_CARD_INDEX_CTS	99MNDRY	MDC_DIM_L_PER_MIN_PER_M_S Q
CO		NM	150492	MDC_OUTPUT_CARD_CTS	MDC	MDC_DIM_L_PER_MIN
Temperature, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Cardiac Index (Thermodilution)		NM	149772	MDC_OUTPUT_CARD_INDEX	MDC	MDC_DIM_L_PER_MIN_PER_M_S Q
Plasma Disappearance Rate		NM	501	MNDRY_PLASMA_DISAPPEARANCE_RATE	99MNDRY	MNDRY_DIM_PERCENT_PER_MI N
Cardiac Output (Thermodilution)		NM	150276	MDC_OUTPUT_CARD	MDC	MDC_DIM_L_PER_MIN
Temperature, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_DEGC
Average CI		NM	149772	MDC_OUTPUT_CARD_INDEX	MDC	MDC_DIM_L_PER_MIN_PER_M_S Q
Average CO		NM	150276	MDC_OUTPUT_CARD	MDC	MDC_DIM_L_PER_MIN
Average CI		NM	149772	MDC_OUTPUT_CARD_INDEX	MDC	MDC_DIM_L_PER_MIN_PER_M_S Q
Retention Rate		NM	500	MNDRY_INDOCYANINE_GREEN_RETENTION_RATE	99MNDRY	MDC_DIM_PERCENT
△Temperature, Blood (ΔTb)		NM	312	MNDRY_TEMP_BLD_DIFF	99MNDRY	MDC_DIM_FAHR
Temperature, Blood		NM	188436	MDC_TEMP_BLD	MDC	MDC_DIM_FAHR
Average CO		NM	150276	MDC_OUTPUT_CARD	MDC	MDC_DIM_L_PER_MIN
Cardiac Output CTS	1.6.2.0		70819	MDC_DEV_ANALY_CARD_OUTPUT_CTS_CHAN	MDC	
CCI		NM	378	MNDRY_OUTPUT_CARD_INDEX_CTS	99MNDRY	MDC_DIM_L_PER_MIN_PER_M_S Q
CCO		NM	150492	MDC_OUTPUT_CARD_CTS	MDC	MDC_DIM_L_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
CCI STAT		NM	111	MNDRY_OUTPUT_CARD_CTS_INDEX_STAT	99MNDRY	MDC_DIM_L_PER_MIN_PER_M_S Q
CCO STAT		NM	110	MNDRY_OUTPUT_CARD_CTS_STAT	99MNDRY	MDC_DIM_L_PER_MIN
Advanced HEMO	1.6.3.0		70003	MNDRY_DEV_ADVANCED_HEMO_CHAN	99MNDRY	
Average EVLW		NM	319	MNDRY_EXTRA_VASC_LUNG_WATER_AVG	99MNDRY	MDC_DIM_MILLI_L
Average ELWI		NM	320	MNDRY_EXTRA_VASC_LUNG_WATER_INDEX_AVG	99MNDRY	MDC_DIM_MILLI_L_PER_KG
GEDV		NM	313	MNDRY_VOL_GLOBAL_END_DIA_AVG	99MNDRY	MDC_DIM_MILLI_L
GEDI		NM	314	MNDRY_VOL_GLOBAL_L_END_DIA_INDEX_AVG	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
Average GEF		NM	317	MNDRY_EJECTION_FRACTION_GLOBAL_AVG	99MNDRY	MDC_DIM_PERCENT
Average PVPI		NM	321	MNDRY_PULM_VASC_PERM_INDEX_AVG	99MNDRY	MDC_DIM_DIMLESS
Average CFI		NM	318	MNDRY_CARD_FUNCTION_INDEX_AVG	99MNDRY	MDC_DIM_PER_MIN
Average ITBV		NM	315	MNDRY_VOL_BLD_INTRATHORACIC_AVG	99MNDRY	MDC_DIM_MILLI_L
ICG PAWP		NM	150052	MDC_PRESS_BLD_ART_PULM_OCCL	MDC	MDC_DIM_MMHG
ICG LV Diastolic		NM	150102	MDC_PRESS_BLD_VENT_LEFT_DIA	MDC	MDC_DIM_MMHG
ICG CVP Mean		NM	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	MDC_DIM_MMHG
ICG PA Mean		NM	150047	MDC_PRESS_BLD_ART_PULM_MEAN	MDC	MDC_DIM_MMHG
ICG ART Mean		NM	150035	MDC_PRESS_BLD_ART_MEAN	MDC	MDC_DIM_MMHG
SV		NM	150404	MDC_VOL_BLD_STROKE	MDC	MDC_DIM_MILLI_L
SVI		NM	150636	MDC_VOL_BLD_STROKE_INDEX	MDC	MDC_DIM_MILLI_L_PER_M_SQ
SVR		NM	150312	MDC_RES_VASC_SYS	MDC	MDC_DIM_DYNE_SEC_PER_CM_5
SVRI		NM	149760	MDC_RES_VASC_SYS_INDEX	MDC	MDC_DIM_DYNE_SEC_M_SQ_PER_CM_5
PVR		NM	150308	MDC_RES_VASC_PULM	MDC	MDC_DIM_DYNE_SEC_PER_CM_5
PVRI		NM	173	MNDRY_RES_VASC_PULM_INDEX	99MNDRY	MDC_DIM_DYNE_SEC_M_SQ_PER_CM_5
LCW		NM	150416	MDC_WK_CARD_LEFT	MDC	MDC_DIM_KILO_G_M
LCWI		NM	166	MNDRY_WK_CARD_LEFT_INDEX	99MNDRY	MDC_DIM_KILO_G_M_PER_M_S Q

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
LVSW		NM	150428	MDC_WK_LV_STROKE	MDC	MDC_DIM_G_M
LVSWI		NM	149764	MDC_WK_LV_STROKE_INDEX	MDC	MDC_DIM_G_M_PER_M_SQ
RCW		NM	150420	MDC_WK_CARD_RIGHT	MDC	MDC_DIM_KILO_G_M
RCWI		NM	167	MNDRY_WK_CARD_RIGHT_INDEX	99MNDRY	MDC_DIM_KILO_G_M_PER_M_SQ
RVSW		NM	150436	MDC_WK_RV_STROKE	MDC	MDC_DIM_G_M
RVSWI		NM	168	MNDRY_WK_RV_STROKE_INDEX	99MNDRY	MDC_DIM_G_M_PER_M_SQ
ICG_EF		NM	339	MNDRY_EJECTION_FRACTION	99MNDRY	MDC_DIM_PERCENT
ACI		NM	150612	MDC_ACCELERATION_INDEX	MDC	MNDRY_DIM_PER_HECTO_SEC_SQ
VI		NM	150632	MDC_VELOCITY_INDEX	MDC	MDC_DIM_PER_KILO_SEC
TFC		NM	150620	MDC_THORACIC_FLUID_CONTENT	MDC	MNDRY_DIM_PER_KILO_OHM
TFI		NM	163	MNDRY_THORACIC_FLUID_INDEX	99MNDRY	MDC_DIM_OHM
STR		NM	150616	MDC_SYSTOLIC_TIME_RATIO	MDC	MDC_DIM_DIMLESS
PEP		NM	150628	MDC_TIME_PD_VENT_L_AORT_PRE_EJCT	MDC	MDC_DIM_MILLI_SEC
LVET		NM	150624	MDC_TIME_PD_VENT_L_AORT_EJCT	MDC	MDC_DIM_MILLI_SEC
Average ITBI		NM	316	MNDRY_VOL_BLD_INTRATHORACIC_INDEX_AVG	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
HR		NM	147842	MDC_ECG_CARD_BEAT_RATE	MDC	MDC_DIM_BEAT_PER_MIN
VEPT		NM	172	MNDRY_VOL_ELECTRICAL_PARTICIPATING_TISSUE_THORAX	99MNDRY	MDC_DIM_MILLI_L
ICG Stroke Index		NM	340	MNDRY_STROKE_INDEX	99MNDRY	MDC_DIM_MILLI_L
ICG BP Systolic		NM	150017	MDC_PRESS_BLD_SYS	MDC	MDC_DIM_MMHG
ICG BP Diastolic		NM	150018	MDC_PRESS_BLD_DIA	MDC	MDC_DIM_MMHG
MAP		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
ICG SQI		NM	341	MNDRY_ICG_SIGNAL_QUALITY_INDEX	99MNDRY	MDC_DIM_DIMLESS
RVEF		NM	150	MNDRY_EJECTION_FRACTION_VENT_RIGHT	99MNDRY	MDC_DIM_PERCENT
Global Ejection Fraction		NM	154	MNDRY_EJECTION_FRACTION_GLOBAL	99MNDRY	MDC_DIM_PERCENT
Cardiac Function Index		NM	155	MNDRY_CARD_FUNCTION_INDEX	99MNDRY	MDC_DIM_PER_MIN
SV		NM	150404	MDC_VOL_BLD_STROKE	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
SVI		NM	150636	MDC_VOL_BLD_STROKE_INDEX	MDC	MDC_DIM_MILLI_L_PER_M_SQ
EDV		NM	150528	MDC_VOL_VENT_L_END_DIA	MDC	MDC_DIM_MILLI_L
EDVI		NM	214	MNDRY_VOL_VENT_L_END_DIA_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
ESV		NM	150532	MDC_VOL_VENT_L_END_SYS	MDC	MDC_DIM_MILLI_L
ESVI		NM	149	MNDRY_VOL_VENT_L_END_SYS_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
pCVP		NM	150084	MDC_PRESS_BLD_VEN_CENT	MDC	MDC_DIM_MMHG
MAP		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
eART-S		NM	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	MDC_DIM_MMHG
eART_D		NM	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	MDC_DIM_MMHG
HR		NM	147842	MDC_ECG_CARD_BEAT_RATE	MDC	MDC_DIM_BEAT_PER_MIN
PR		NM	149530	MDC_PULS_OXIM_PULS_RATE	MDC	MDC_DIM_BEAT_PER_MIN
SVV		NM	148	MNDRY_VOL_BLD_STROKE_VARIATION	99MNDRY	MDC_DIM_PERCENT
PPV		NM	153	MNDRY_PRESS_PULSE_VARIATION	99MNDRY	MDC_DIM_PERCENT
CPI		NM	161	MNDRY_POWER_CARD_OUTPUT_INDEX	99MNDRY	MNDRY_DIM_WATT_PER_M_SQ
dPmx		NM	156	MNDRY_CONTRACTILITY_LEFT_VENT	99MNDRY	MNDRY_DIM_MMHG_PER_SEC
EDV STAT		NM	242	MNDRY_VOL_VENT_L_END_DIA_STAT	99MNDRY	MDC_DIM_MILLI_L
EDVI STAT		NM	243	MNDRY_VOL_VENT_L_END_DIA_INDEX_STAT	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
SV STAT		NM	244	MNDRY_VOL_BLD_STROKE_STAT	99MNDRY	MDC_DIM_MILLI_L_PER_BEAT
SVI STAT		NM	245	MNDRY_VOL_BLD_STROKE_INDEX_STAT	99MNDRY	MNDRY_DIM_MILLI_L_PER_BEAT_PER_M_SQ
RVEF STAT		NM	246	MNDRY_EJECTION_FRACTION_VENT_RIGHT_STAT	99MNDRY	MDC_DIM_PERCENT
SNR		NM	327	MNDRY_CCO_SNR	99MNDRY	MDC_DIM_DIMLESS
Global End Diastolic Volume		NM	313	MNDRY_VOL_GLOBAL_END_DIA_AVG	99MNDRY	MDC_DIM_MILLI_L
Global End Diastolic Volume Index		NM	314	MNDRY_VOL_GLOBAL_L_END_DIA_INDEX_AVG	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
Extra Vascular Lung Water		NM	319	MNDRY_EXTRA_VASC_LUNG_WATER_AVG	99MNDRY	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Extra Vascular Lung Water Index		NM	320	MNDRY_EXTRA_VASC_LUNG_WATER_INDEX_AVG	99MNDRY	MDC_DIM_MILLI_L_PER_KG
Pulmonary Vascular Permeability Index		NM	321	MNDRY_PULM_VASC_PERM_INDEX_AVG	99MNDRY	MDC_DIM_DIMLESS
CPO		NM	160	MNDRY_POWER_CARD_OUTPUT	99MNDRY	MDC_DIM_WATT
Stroke Volume Index		NM	150636	MDC_VOL_BLD_STROKE_INDEX	MDC	MDC_DIM_MILLI_L_PER_M_SQ
Left Ventricular Contractility		NM	156	MNDRY_CONTRACTILITY_LEFT_VENT	99MNDRY	MNDRY_DIM_MMHG_PER_SEC
Stroke Volume Variatio		NM	148	MNDRY_VOL_BLD_STROKE_VARIATION	99MNDRY	MDC_DIM_PERCENT
Pulse Pressure Variation		NM	153	MNDRY_PRESS_PULSE_VARIATION	99MNDRY	MDC_DIM_PERCENT
Systemic Vascular Resistance		NM	150312	MDC_RES_VASC_SYS	MDC	MDC_DIM_DYNE_SEC_PER_CM_5
Systemic Vascular Resistance Index		NM	149760	MDC_RES_VASC_SYS_INDEX	MDC	MDC_DIM_DYNE_SEC_M_SQ_PER_CM_5
Cardiac Power Output		NM	160	MNDRY_POWER_CARD_OUTPUT	99MNDRY	MDC_DIM_WATT
Cardiac Power Index		NM	161	MNDRY_POWER_CARD_OUTPUT_INDEX	99MNDRY	MNDRY_DIM_WATT_PER_M_SQ
Caculation Hemo	1.6.4.0		69747	MDC_DEV_CALC_HEMO_CHAN	MDC	
calc hemo Body Surface Area		NM	188744	MDC_AREA_BODY_SURF_ACTUAL	MDC	MDC_DIM_SQ_M
calc hemo Ejection Fraction		NM	339	MNDRY_EJECTION_FRACTION	99MNDRY	MDC_DIM_PERCENT
calc hemo Right Cardiac Work Index		NM	475	MNDRY_WK_CARD_RIGHT_INDEX	99MNDRY	MDC_DIM_KILO_G_M_PER_M_SQ
calc hemo Right Cardiac Work		NM	150420	MDC_WK_CARD_RIGHT	MDC	MDC_DIM_KILO_G_M
calc hemo Right Ventricle Stroke Work Index		NM	150644	MDC_WK_RV_STROKE_INDEX	MDC	MDC_DIM_G_M_PER_M_SQ
calc hemo Right Ventricle Stroke Work		NM	150436	MDC_WK_RV_STROKE	MDC	MDC_DIM_G_M
calc hemo Left Cardiac Work Index		NM	474	MNDRY_WK_CARD_LEFT_INDEX	99MNDRY	MDC_DIM_KILO_G_M_PER_M_SQ

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
calc hemo Left Cardiac Work		NM	150416	MDC_WK_CARD_LEFT	MDC	MDC_DIM_KILO_G_M
calc hemo Left Ventricle Stroke Work Index		NM	149764	MDC_WK_LV_STROKE_INDEX	MDC	MDC_DIM_G_M_PER_M_SQ
calc hemo Left Ventricle Stroke Work		NM	150428	MDC_WK_LV_STROKE	MDC	MDC_DIM_G_M
calc hemo Pulmonary Artery Wedge Pressure		NM	150052	MDC_PRESS_BLD_ART_PULM_OCCL	MDC	MDC_DIM_MMHG
calc hemo Stroke Volume Index		NM	149532	MDC_VOL_BLD_STROKE_INDEX	MDC	MDC_DIM_MILLI_L_PER_M_SQ
calc hemo Stroke Volume		NM	150404	MDC_VOL_BLD_STROKE	MDC	MDC_DIM_MILLI_L
calc hemo Cardiac Index		NM	149772	MDC_OUTPUT_CARD_INDEX	MDC	MDC_DIM_L_PER_MIN_PER_M_SQ
calc hemo Cardiac Output		NM	150276	MDC_OUTPUT_CARD	MDC	MDC_DIM_L_PER_MIN
calc hemo Heart Rate		NM	149514	MDC_PULS_RATE	MDC	MDC_DIM_BEAT_PER_MIN
calc hemo Mean Arterial Pressure		NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	MDC_DIM_MMHG
calc hemo Central Venous Pressure		NM	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	MDC_DIM_MMHG
calc hemo Mean Pulmonary Artery Pressure		NM	150047	MDC_PRESS_BLD_ART_PULM_MEAN	MDC	MDC_DIM_MMHG
calc hemo Pulmonary Artery Wedge Pressure		NM	150052	MDC_PRESS_BLD_ART_PULM_OCCL	MDC	MDC_DIM_MMHG
calc hemo End-systolic Volume		NM	150532	MDC_VOL_VENT_L_END_SYS	MDC	MDC_DIM_MILLI_L
calc hemo Pulmonary Artery Wedge Pressure		NM	150046	MDC_PRESS_BLD_ART_PULM_DIA	MDC	MDC_DIM_MMHG
calc hemo End-diastolic Volume		NM	150528	MDC_VOL_VENT_L_END_DIA	MDC	MDC_DIM_MILLI_L
calc hemo End-diastolic Volume Index		NM	476	MNDRY_VOL_VENT_L_END_DIA_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
calc hemo Systemic Vascular Resistance		NM	150312	MDC_RES_VASC_SYS	MDC	MDC_DIM_DYNE_SEC_PER_CM_5
calc hemo Systemic Vascular Resistance Index		NM	149760	MDC_RES_VASC_SYS_INDEX	MDC	MDC_DIM_DYNE_SEC_M_SQ_PER_CM_5
calc hemo Pulmonary Vascular Resistance		NM	150308	MDC_RES_VASC_PULM	MDC	MDC_DIM_DYNE_SEC_PER_CM_5
calc hemo Pulmonary Vascular Resistance Index		NM	152852	MDC_RES_VASC_PULM_INDEX	MDC	MDC_DIM_DYNE_SEC_M_SQ_PER_CM_5
SVRI		NM	149760	MDC_RES_VASC_SYS_INDEX	MDC	MDC_DIM_DYNE_SEC_M_SQ_PER_CM_5
calc hemo height		NM	188740	MDC_LEN_BODY_ACTUAL	MDC	MDC_DIM_CENTI_M
calc hemo weight		NM	188736	MDC_MASS_BODY_ACTUAL	MDC	MDC_DIM_KILO_G
SVR		NM	150312	MDC_RES_VASC_SYS	MDC	MDC_DIM_DYNE_SEC_PER_CM_5
calc hemo End-systolic Volume Index		NM	477	MNDRY_VOL_VENT_L_END_SYS_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_M_SQ
ECG	1.7.0.0		69798	MDC_DEV_ECG_VMD	MDC	
ECG Resp	1.7.1.0		70667	MDC_DEV_ECG_RESP_CHAN	MDC	
Transthoracic Respiration Rate		NM	151578	MDC_TTHOR_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
Arrhythmias	1.7.2.0		70671	MDC_DEV_ARRHY_CHAN	MDC	
Couplets/min		NM	141034	MDC_ECG_RHY_V_P_C_CPLT_RATE	MDC	MDC_DIM_BEAT_PER_MIN
RonTs/min		NM	139450	MDC_ECG_BEAT_V_P_C_RonT_RATE	MDC	MDC_DIM_BEAT_PER_MIN
PVCs/min		NM	148066	MDC_ECG_V_P_C_RATE	MDC	MDC_DIM_BEAT_PER_MIN
Pauses/min		NM	108	MNDRY_ECG_PAUSE_RATE	99MNDRY	MDC_DIM_BEAT_PER_MIN
VPBs/min		NM	352	MNDRY_ECG_VPB_RATE	99MNDRY	MDC_DIM_BEAT_PER_MIN
Missed Beats/min		NM	141402	MDC_ECG_RHY_MISSE_RATE	MDC	MDC_DIM_BEAT_PER_MIN
ST	1.7.3.0		70679	MDC_DEV_ST_CHAN	MDC	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
ST Vb Reference		NM	107	MNDRY_ECG_REF_AMPL_ST_VB	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV1 Reference		NM	504	MNDRY_ECG_REF_AMPL_ST_dV1	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV2 Reference		NM	505	MNDRY_ECG_REF_AMPL_ST_dV2	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV3 Reference		NM	506	MNDRY_ECG_REF_AMPL_ST_dV3	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV4 Reference		NM	507	MNDRY_ECG_REF_AMPL_ST_dV4	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV5 Reference		NM	508	MNDRY_ECG_REF_AMPL_ST_dV5	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV6 Reference		NM	509	MNDRY_ECG_REF_AMPL_ST_dV6	99MNDRY	MDC_DIM_MILLI_VOLT
ST aVF Current		NM	131904	MDC_ECG_AMPL_ST_AVF	MDC	MDC_DIM_MILLI_VOLT
ST V1 Reference		NM	85	MNDRY_ECG_REF_AMPL_ST_V1	99MNDRY	MDC_DIM_MILLI_VOLT
ST I Current		NM	131841	MDC_ECG_AMPL_ST_I	MDC	MDC_DIM_MILLI_VOLT
ST II Current		NM	131842	MDC_ECG_AMPL_ST_II	MDC	MDC_DIM_MILLI_VOLT
ST III Current		NM	131901	MDC_ECG_AMPL_ST_III	MDC	MDC_DIM_MILLI_VOLT
ST aVR Current		NM	131902	MDC_ECG_AMPL_ST_AVR	MDC	MDC_DIM_MILLI_VOLT
ST aVL Current		NM	131903	MDC_ECG_AMPL_ST_AVL	MDC	MDC_DIM_MILLI_VOLT
ST V4 Reference		NM	91	MNDRY_ECG_REF_AMPL_ST_V4	99MNDRY	MDC_DIM_MILLI_VOLT
ST V1 Current		NM	131843	MDC_ECG_AMPL_ST_V1	MDC	MDC_DIM_MILLI_VOLT
ST V2 Current		NM	131844	MDC_ECG_AMPL_ST_V2	MDC	MDC_DIM_MILLI_VOLT
ST V3 Current		NM	131845	MDC_ECG_AMPL_ST_V3	MDC	MDC_DIM_MILLI_VOLT
ST V4 Current		NM	131846	MDC_ECG_AMPL_ST_V4	MDC	MDC_DIM_MILLI_VOLT
ST V5 Reference		NM	93	MNDRY_ECG_REF_AMPL_ST_V5	99MNDRY	MDC_DIM_MILLI_VOLT
ST V6 Current		NM	131848	MDC_ECG_AMPL_ST_V6	MDC	MDC_DIM_MILLI_VOLT
ST V/Va Current		NM	131927	MDC_ECG_AMPL_ST_V	MDC	MDC_DIM_MILLI_VOLT
ST Vb Current		NM	106	MNDRY_ECG_AMPL_ST_VB	99MNDRY	MDC_DIM_MILLI_VOLT
ST dV1 Current		NM	131873	MDC_ECG_AMPL_ST_dV1	MDC	MDC_DIM_MILLI_VOLT
ST dV2 Current		NM	131874	MDC_ECG_AMPL_ST_dV2	MDC	MDC_DIM_MILLI_VOLT
ST dV3 Current		NM	131875	MDC_ECG_AMPL_ST_dV3	MDC	MDC_DIM_MILLI_VOLT
ST dV4 Current		NM	131876	MDC_ECG_AMPL_ST_dV4	MDC	MDC_DIM_MILLI_VOLT
ST dV5 Current		NM	131877	MDC_ECG_AMPL_ST_dV5	MDC	MDC_DIM_MILLI_VOLT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
ST dV6 Current		NM	131878	MDC_ECG_AMPL_ST_dV6	MDC	MDC_DIM_MILLI_VOLT
ST V5 Current		NM	131847	MDC_ECG_AMPL_ST_V5	MDC	MDC_DIM_MILLI_VOLT
ST aVF Reference		NM	83	MNDRY_ECG_REF_AMPL_ST_AVF	99MNDRY	MDC_DIM_MILLI_VOLT
ST aVL Reference		NM	81	MNDRY_ECG_REF_AMPL_ST_AVL	99MNDRY	MDC_DIM_MILLI_VOLT
ST aVR Reference		NM	79	MNDRY_ECG_REF_AMPL_ST_AVR	99MNDRY	MDC_DIM_MILLI_VOLT
ST III Reference		NM	77	MNDRY_ECG_REF_AMPL_ST_III	99MNDRY	MDC_DIM_MILLI_VOLT
ST II Reference		NM	75	MNDRY_ECG_REF_AMPL_ST_II	99MNDRY	MDC_DIM_MILLI_VOLT
ST I Reference		NM	73	MNDRY_ECG_REF_AMPL_ST_I	99MNDRY	MDC_DIM_MILLI_VOLT
ST V6 Reference		NM	95	MNDRY_ECG_REF_AMPL_ST_V6	99MNDRY	MDC_DIM_MILLI_VOLT
ST V/Va Reference		NM	97	MNDRY_ECG_REF_AMPL_ST_V	99MNDRY	MDC_DIM_MILLI_VOLT
ST V3 Reference		NM	89	MNDRY_ECG_REF_AMPL_ST_V3	99MNDRY	MDC_DIM_MILLI_VOLT
ST V2 Reference		NM	87	MNDRY_ECG_REF_AMPL_ST_V2	99MNDRY	MDC_DIM_MILLI_VOLT
Card Rate	1.7.4.0		70739	MDC_DEV_CARD_RATE_CHAN	MDC	
ECG Heart Rate		NM	147842	MDC_ECG_HEART_RATE	MDC	MDC_DIM_BEAT_PER_MIN
Pace	1.7.5.0		70007	MNDRY_DEV_ECG_PACE_CHAN	99MNDRY	
PNCs/min		NM	300	MNDRY_ECG_PACING_NON_CAPT_RATE	99MNDRY	MDC_DIM_BEAT_PER_MIN
PNPs/min		NM	301	MNDRY_ECG_PACER_NOT_PACING_RATE	99MNDRY	MDC_DIM_BEAT_PER_MIN
ECG	1.7.6.0		69799	MDC_DEV_ECG_CHAN	MDC	
QT HR Reference		NM	308	MNDRY_ECG_QTC_HR_REF	99MNDRY	MDC_DIM_BEAT_PER_MIN
Global QTC Formula		CNE	306	MNDRY_ECG_QTC_FORMULA_GL	99MNDRY	MDC_DIM_DIMLESS
R-Wave Amplitude, V5		NM	133127	MDC_ECG_AMPL_R_V5	MDC	MDC_DIM_MILLI_VOLT
T-Axis		NM	147208	MDC_ECG_ANGLE_T_FRONT	MDC	MDC_DIM_ANG_DEG
S-Wave Amplitude, V1		NM	133379	MDC_ECG_AMPL_S_V1	MDC	MDC_DIM_MILLI_VOLT
△QTC		NM	309	MNDRY_ECG_QTC_DIFF	99MNDRY	MDC_DIM_MILLI_SEC
Global QT-Interval Current		NM	147232	MDC_ECG_TIME_PD_QT_GL	MDC	MDC_DIM_MILLI_SEC
Global QTC-Interval Current		NM	147236	MDC_ECG_TIME_PD_QTC	MDC	MDC_DIM_MILLI_SEC
QT HR Current		NM	307	MNDRY_ECG_QTC_HR	99MNDRY	MDC_DIM_BEAT_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
PR interval		NM	147216	MDC_ECG_TIME_PD_PQ	MDC	MDC_DIM_MILLI_SEC
QRS Duration		NM	147228	MDC_ECG_TIME_PD_QRS_GL	MDC	MDC_DIM_MILLI_SEC
P-Axis		NM	147200	MDC_ECG_ANGLE_P_FRONT	MDC	MDC_DIM_ANG_DEG
QRS-Axis		NM	147204	MDC_ECG_ANGLE_QRS_FRONT	MDC	MDC_DIM_ANG_DEG
Global QT-Interval Reference		NM	303	MNDRY_ECG_TIME_PD_QT_GL_REF	99MNDRY	MDC_DIM_MILLI_SEC
Global QTC-Interval Reference		NM	305	MNDRY_ECG_QTC_GL_REF	99MNDRY	MDC_DIM_MILLI_SEC
CO2	1.8.0.0		70682	MDC_DEV_CO2_VMD	MDC	
CO2	1.8.1.0		70683	MDC_DEV_CO2_CHAN	MDC	
End-Tidal CO2		NM	151708	MDC_CONC_AWAY_CO2_ET	MDC	MDC_DIM_MMHG
End-Tidal O2		NM	152440	MDC_CONC_AWAY_O2_ET	MDC	MDC_DIM_PERCENT
Inspired O2		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
CO2 Respiration Rate		NM	151594	MDC_CO2_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
CO2 Respiration Rate		NM	151594	MDC_CO2_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
Inspired CO2		NM	151716	MDC_CONC_AWAY_CO2_INSP	MDC	MDC_DIM_MMHG
End-Tidal CO2		NM	151708	MDC_CONC_AWAY_CO2_ET	MDC	MDC_DIM_MMHG
Inspired CO2		NM	151716	MDC_CONC_AWAY_CO2_INSP	MDC	MDC_DIM_MMHG
Anesthetic Agent	1.9.0.0		69646	MDC_DEV_ANALY_CONC_GAS_IDENT_VMD	MDC	
Anesthetic Agent 1	1.9.1.0		69647	MDC_DEV_ANALY_CONC_GAS_IDENT_CHAN	MDC	
Inspired Isoflurane		NM	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	MDC_DIM_PERCENT
End-Tidal Sevoflurane		NM	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	MDC_DIM_PERCENT
End-Tidal N2O		NM	152108	MDC_CONC_AWAY_N2O_ET	MDC	MDC_DIM_PERCENT
End-Tidal Desflorane		NM	152084	MDC_CONC_AWAY_DESFL_ET	MDC	MDC_DIM_PERCENT
Inspired N2O		NM	152192	MDC_CONC_AWAY_N2O_INSP	MDC	MDC_DIM_PERCENT
Inspired Desflorane		NM	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	MDC_DIM_PERCENT
Agent, End Tidal (EtAA), Primary		NM	152460	MDC_CONC_AWAY_AGENT_ET	MDC	MDC_DIM_PERCENT
MAC		NM	152872	MDC_CONC_MAC	MDC	MDC_DIM_DIMLESS

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
End-Tidal O2		NM	152440	MDC_CONC_AWAY_O2_ET	MDC	MDC_DIM_PERCENT
Agent, Inspired (FiAA), Primary		NM	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	MDC_DIM_PERCENT
Halothane, End Tidal (EtHal)		NM	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	MDC_DIM_PERCENT
Halothane, Inspired (FiHal)		NM	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	MDC_DIM_PERCENT
End-Tidal Isoflurane		NM	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	MDC_DIM_PERCENT
Inspired Sevoflurane		NM	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	MDC_DIM_PERCENT
Inspired O2		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
Inspired Enflurane		NM	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	MDC_DIM_PERCENT
End Tidal Enflurane		NM	152088	MDC_CONC_AWAY_ENFL_ET	MDC	MDC_DIM_PERCENT
Anesthetic Agent 2	1.9.2.0		69647	MDC_DEV_ANALY_CONC_GAS_IDENT_CHAN	MDC	
Inspired Isoflurane		NM	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	MDC_DIM_PERCENT
End-Tidal Sevoflurane		NM	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	MDC_DIM_PERCENT
Inspired Sevoflurane		NM	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	MDC_DIM_PERCENT
End-Tidal Desflurane		NM	152084	MDC_CONC_AWAY_DESFL_ET	MDC	MDC_DIM_PERCENT
Inspired Desflurane		NM	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	MDC_DIM_PERCENT
Agent, Inspired (FiAA), Secondary		NM	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	MDC_DIM_PERCENT
Agent, End Tidal (EtAA), Secondary		NM	152460	MDC_CONC_AWAY_AGENT_ET	MDC	MDC_DIM_PERCENT
Inspired Enflurane		NM	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	MDC_DIM_PERCENT
Halothane, End Tidal (EtHal)		NM	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	MDC_DIM_PERCENT
End Tidal Enflurane		NM	152088	MDC_CONC_AWAY_ENFL_ET	MDC	MDC_DIM_PERCENT
End-Tidal Isoflurane		NM	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	MDC_DIM_PERCENT
Halothane, Inspired (FiHal)		NM	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	MDC_DIM_PERCENT
Body Measurement	1.10.0.0		70010	MNDRY_VMD_BODY_MEASUREMENT	99MNDRY	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Body Measurement	1.10.1.0		70011	MNDRY_DEV_BODY_MEASUREMENT_CHAN	99MNDRY	
IBW		NM	311	MNDRY_MASS_BODY_IDEAL	99MNDRY	MDC_DIM_KILO_G
IBW		NM	311	MNDRY_MASS_BODY_IDEAL	99MNDRY	MDC_DIM_KILO_G
Height		NM	188740	MDC_LEN_BODY_ACTUAL	MDC	MDC_DIM_CENTI_M
Weight		NM	188736	MDC_MASS_BODY_ACTUAL	MDC	MDC_DIM_KILO_G
BSA		NM	188744	MDC_AREA_BODY_SURF_ACTUAL	MDC	MDC_DIM_SQ_M
Height		NM	188740	MDC_LEN_BODY_ACTUAL	MDC	MDC_DIM_CENTI_M
Weight		NM	188736	MDC_MASS_BODY_ACTUAL	MDC	MDC_DIM_KILO_G
Airway Multi-Parameter	1.11.0.0		70014	MNDRY_DEV_RM_VMD	99MNDRY	
RM, 1	1.11.1.0		70015	MNDRY_DEV_RM_CHAN	99MNDRY	
NIP		NM	193	MNDRY_PRESSURE_NEGATIVE_INSPIRATORY	99MNDRY	MDC_DIM_CM_H2O
Pmean		NM	151819	MDC_PRESS_AWAY_INSP_MEAN	MDC	MDC_DIM_CM_H2O
Pplat		NM	151784	MDC_PRESS_RESP_PLAT	MDC	MDC_DIM_CM_H2O
PIP		NM	151817	MDC_PRESS_AWAY_INSP_PEAK	MDC	MDC_DIM_CM_H2O
PEEP		NM	151804	MDC_PRESS_AWAY_END_EXP_POS	MDC	MDC_DIM_CM_H2O
RM, 2	1.11.2.0		70015	MNDRY_DEV_RM_CHAN	99MNDRY	
PEF		NM	151769	MDC_FLOW_AWAY_EXP_MAX	MDC	MDC_DIM_L_PER_MIN
PIF		NM	151773	MDC_FLOW_AWAY_INSP_MAX	MDC	MDC_DIM_L_PER_MIN
RM, 3	1.11.3.0		70015	MNDRY_DEV_RM_CHAN	99MNDRY	
MVe		NM	151884	MDC_VOL_MINUTE_AWAY_EXP	MDC	MDC_DIM_L_PER_MIN
MVi		NM	151888	MDC_VOL_MINUTE_AWAY_INSP	MDC	MDC_DIM_L_PER_MIN
VT _e		NM	152664	MDC_VOL_AWAY_TIDAL_EXP	MDC	MDC_DIM_MILLI_L
VT _i		NM	152660	MDC_VOL_AWAY_TIDAL_INSP	MDC	MDC_DIM_MILLI_L
RM, 4	1.11.4.0		70015	MNDRY_DEV_RM_CHAN	99MNDRY	
WOB		NM	183	MNDRY_WK_OF_BREATHING_VENT	99MNDRY	MNDRY_DIM_JOULES_PER_L
FEV		NM	152586	MDC_VOL_AWAY_EXP_FORCED_1S	MDC	MDC_DIM_PERCENT
RR		NM	151570	MDC_AWAY_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
RAW		NM	151840	MDC_RES_AWAY	MDC	MDC_DIM_CM_H2O_PER_L_PER_SEC
RSBI		NM	152860	MDC_RESP_RAPID_SHALLOW_BREATHING_INDEX	MDC	MDC_DIM_BREATHS_PER_MIN_PER_L
Compl		NM	151688	MDC_COMPL_LUNG	MDC	MDC_DIM_MILLI_L_PER_CM_H2O
I:E		NM	151832	MDC_RATIO_IE	MDC	MDC_DIM_DIMLESS
BIS	1.12.0.0		70802	MDC_DEV_EEG_BIS_VMD	MDC	
BIS	1.12.1.0		70803	MDC_DEV_EEG_BIS_CHAN	MDC	
BIS SQI		NM	153636	MDC_EEG_SIGNAL_QUALITY_INDEX	MDC	MDC_DIM_PERCENT
BIS SR		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
sBIS R		NM	121	MNDRY_EEG_BISPECTRAL_VARI_INDEX	99MNDRY	MDC_DIM_DIMLESS
BC R		NM	154028	MDC_EEG_NUM_SPK	MDC	MDC_DIM_PER_MIN
sBIS L		NM	121	MNDRY_EEG_BISPECTRAL_VARI_INDEX	99MNDRY	MDC_DIM_DIMLESS
TP L		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
BC L		NM	154028	MDC_EEG_NUM_SPK	MDC	MDC_DIM_PER_MIN
sEMG L		NM	123	MNDRY_EMG_ELEC_POTL_MUSCL_VARI_INDEX	99MNDRY	MDC_DIM_DIMLESS
sEMG R		NM	123	MNDRY_EMG_ELEC_POTL_MUSCL_VARI_INDEX	99MNDRY	MDC_DIM_DIMLESS
EMG R		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
EMG L		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
SEF R		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
ASYM		NM	124	MNDRY_EEG_ASYMMERTRY	99MNDRY	MDC_DIM_PERCENT
BIS		NM	153644	MDC_EEG_BISPECTRAL_INDEX	MDC	MDC_DIM_DIMLESS
SR R		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
SR L		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
SQI R		NM	153636	MDC_EEG_SIGNAL_QUALITY_INDEX	MDC	MDC_DIM_PERCENT
SQI L		NM	153636	MDC_EEG_SIGNAL_QUALITY_INDEX	MDC	MDC_DIM_PERCENT
BIS R		NM	153644	MDC_EEG_BISPECTRAL_INDEX	MDC	MDC_DIM_DIMLESS

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
SEF L		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
BIS BC		NM	154028	MDC_EEG_NUM_SPK	MDC	MDC_DIM_PER_MIN
BIS TP		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
BIS EMG		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
TP R		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
BIS SEF		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
BIS L		NM	153644	MDC_EEG_BISPECTRAL_INDEX	MDC	MDC_DIM_DIMLESS
Ventilator	1.13.0.0		70002	MDC_DEV_SYS_PT_VENT_VMD	MDC	
Ventilator, 1	1.13.1.0		70003	MDC_DEV_SYS_PT_VENT_CHAN	MDC	
VENT_WOBpat		NM	153276	MDC_WORK_OF_BREATHING_PATIENT	MDC	MNDRY_DIM_JOULES_PER_MIN
VENT_WOBtot		NM	510	MNDRY_WORK_OF_BREATHING_TOTAL	99MNDRY	MNDRY_DIM_JOULES_PER_MIN
VENT_Tinsp_M		NM	152416	MDC_VENT_TIME_PD_INSP	MDC	MDC_DIM_SEC
VENT_ATRC_Compensate		NM	16930516	MDC_VENT_TUBE_COMPENSATION_LEVEL_SETTING	MDC	MDC_DIM_PERCENT
VENT_O2_Therapy_O2_C		NM	20095	MNDRY_VENT_O2_THERAPY_CONC_GASDLV_O2_SETTING	99MNDRY	MDC_DIM_PERCENT
VENT_O2_Therapy_Flow_C		NM	20094	MNDRY_VENT_O2_THERAPY_FLOW_AIR_SETTING	99MNDRY	MDC_DIM_L_PER_MIN
VENT_Sigh_Interval		NM	20032	MNDRY_VENT_SIGH_INTERVAL_SETTING	99MNDRY	MDC_DIM_SEC
VENT_Delta_int_PEEP		NM	20034	MNDRY_VENT_INT_PEEP_DELTA_SETTING	99MNDRY	MDC_DIM_CM_H2O
VENT_TmanInsp		NM	20093	MNDRY_VENT_TIME_PD_INSP_MANUAL_SETTING	99MNDRY	MDC_DIM_SEC
VENT_Delta_PmanInsp		NM	20092	MNDRY_VENT_PRESS_AWAY_DELTA_MANUAL_SETTING	99MNDRY	MDC_DIM_CM_H2O
VENT_Apnea_Tinsp		NM	16929632	MDC_VENT_TIME_PD_INSP_SETTING	MDC	MDC_DIM_SEC
VENT_Delta_Papnea		NM	16929944	MDC_VENT_PRESS_AWAY_DELTA_BACKUP_SETTING	MDC	MDC_DIM_CM_H2O
VENT_Delta_Psupp		NM	16929952	MDC_VENT_PRESS_AWAY_DELTA_SUPP_SETTING	MDC	MDC_DIM_CM_H2O
VENT_Delta_Pinsp		NM	16929936	MDC_VENT_PRESS_AWAY_DELTA_SETTING	MDC	MDC_DIM_CM_H2O

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
VENT_O2_C		NM	16930360	MDC_CONC_GASDLV_O2_INSP_SETTING	MDC	MDC_DIM_PERCENT
VENT_Flow_C		NM	16929164	MDC_VENT_FLOW_INSP_SETTING	MDC	MDC_DIM_L_PER_MIN
VENT_C20_C		NM	513	MNDRY_VENT_COMP20_COMP_RATIO	99MNDRY	MDC_DIM_DIMLESS
VENT_O2_Therapy_Flow		NM	514	MNDRY_VENT_O2_THERAPY_FLOW_AIR	99MNDRY	MDC_DIM_L_PER_MIN
VENT_O2_Therapy_O2		NM	515	MNDRY_VENT_O2_THERAPY_CONC_GASDLV_O2	99MNDRY	MDC_DIM_PERCENT
VENT_SlopeCO2		NM	153320	MDC_CONC_AWAY_CO2_EXP_PLATEAU_ALV_SLOP E	MDC	MDC_DIM_MM_HG_PER_L
VENT_Vtalv		NM	152420	MDC_VENT_VOL_LUNG_ALV	MDC	MDC_DIM_MILLI_L
VENT_Mvalv		NM	153240	MDC_VENT_VOL_MINUTE_LUNG_ALV	MDC	MDC_DIM_L_PER_MIN
VENT_VDaw		NM	151872	MDC_VOL_AWAY_DEADSP	MDC	MDC_DIM_MILLI_L
VENT_VDaw_Div_Tve		NM	151988	MDC_VENT_VOL_AWAY_DEADSP_REL	MDC	MDC_DIM_PERCENT
VENT_VeCO2		NM	153324	MDC_VOL_AWAY_TIDAL_CO2_EXP	MDC	MDC_DIM_MILLI_L
VENT_ViCO2		NM	153328	MDC_VOL_AWAY_TIDAL_CO2_INSP	MDC	MDC_DIM_MILLI_L
VENT_MVCO2		NM	151776	MDC_FLOW_CO2_PROD_RESP	MDC	MDC_DIM_MILLI_L_PER_MIN
VENT_Pi		NM	151816	MDC_PRESS_AWAY_INSP	MDC	MDC_DIM_PERCENT
VENT_PtpI		NM	517	MNDRY_PRESS_TRANS_PULM_INSP	99MNDRY	MDC_DIM_CM_H2O
VENT_PtpE		NM	518	MNDRY_PRESS_TRANS_PULM_EXP	99MNDRY	MDC_DIM_CM_H2O
VENT_DeltaPtp		NM	519	MNDRY_PRESS_TRANS_PULM_DIFF	99MNDRY	MDC_DIM_CM_H2O
VENT_PesI		NM	520	MNDRY_PRESS_OESPH_INSP	99MNDRY	MDC_DIM_CM_H2O
MNDRY_PRESS_OESPH_E XP		NM	521	MNDRY_PRESS_OESPH_EXP	99MNDRY	MDC_DIM_CM_H2O
VENT_DeltaPes		NM	522	MNDRY_PRESS_OESPH_DIFF	99MNDRY	MDC_DIM_CM_H2O
VENT_Paux2I		NM	531	MNDRY_PRESS_AUX_INSP	99MNDRY	MDC_DIM_CM_H2O
VENT_Paux2E		NM	532	MNDRY_PRESS_AUX_EXP	99MNDRY	MDC_DIM_CM_H2O
VENT_PTPes		NM	523	MNDRY_PRESS_OESPH_TIME_PROD_PER_BREATH	99MNDRY	MNDRY_DIM_CM_H2O_SEC
VENT_PTPes_Pre_Min		NM	524	MNDRY_PRESS_OESPH_TIME_PROD_PER_MIN	99MNDRY	MNDRY_DIM_CM_H2O_SEC_PER _MIN
VENT_MV_PERCENT_C		NM	20096	MNDRY_VENT_VOL_MINUTE_PERCENT_SETTING	99MNDRY	MDC_DIM_PERCENT
VENT_WOBvent		NM	153288	MDC_WORK_OF_BREATHING_VENTILATOR	MDC	MNDRY_DIM_JOULES_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Ventilator Vdel		NM	549	MNDRY_VENT_VOL_DELIVERED	99MNDRY	MDC_DIM_MILLI_L
Ventilator C/C20		NM	513	MNDRY_VENT_COMP20_COMP_RATIO	99MNDRY	MDC_DIM_DIMLESS
Ventilator Vte Mand		NM	152680	MDC_VOL_AWAY_TIDAL_EXP_BTSD_AZC	MDC	MDC_DIM_MILLI_L
Ventilator Tinsp_M		NM	152416	MDC_VENT_TIME_PD_INSP	MDC	MDC_DIM_SEC
O2%		NM	151908	MDC_CONC_AWAY_O2	MDC	MDC_DIM_PERCENT
PEEP_M		NM	151976	MDC_VENT_PRESS_AWAY_END_EXP_POS	MDC	MDC_DIM_CM_H2O
PEEP_C		NM	16929192	MDC_VENT_PRESS_AWAY_END_EXP_POS_SETTING	MDC	MDC_DIM_CM_H2O
Ppeak		NM	151817	MDC_PRESS_AWAY_INSP_PEAK	MDC	MDC_DIM_CM_H2O
Pplat		NM	151784	MDC_PRESS_RESP_PLAT	MDC	MDC_DIM_CM_H2O
Pmean		NM	151819	MDC_PRESS_AWAY_INSP_MEAN	MDC	MDC_DIM_CM_H2O
PAW		NM	151972	MDC_VENT_PRESS_AWAY	MDC	MDC_DIM_CM_H2O
VT		NM	16929196	MDC_VENT_VOL_TIDAL_SETTING	MDC	MDC_DIM_MILLI_L
VTe		NM	152664	MDC_VOL_AWAY_TIDAL_EXP	MDC	MDC_DIM_MILLI_L
VTi		NM	152660	MDC_VOL_AWAY_TIDAL_INSP	MDC	MDC_DIM_MILLI_L
VT/kg		NM	153208	MDC_VOL_AWAY_TIDAL_PER_IBW	MDC	MDC_DIM_MILLI_L_PER_KG
VTe spn		NM	152676	MDC_VOL_AWAY_TIDAL_EXP_BTSD_PS	MDC	MDC_DIM_MILLI_L
VTapnea		NM	20062	MNDRY_VOL_AWAY_TIDAL_APNEA_SETTING	99MNDRY	MDC_DIM_MILLI_L
MV		NM	152008	MDC_VENT_VOL_MINUTE_AWAY	MDC	MDC_DIM_L_PER_MIN
MVspn		NM	151880	MDC_VOL_MINUTE_AWAY	MDC	MDC_DIM_L_PER_MIN
MVe		NM	152000	MDC_VENT_VOL_MINUTE_EXP	MDC	MDC_DIM_L_PER_MIN
MVi		NM	152004	MDC_VENT_VOL_MINUTE_INSP	MDC	MDC_DIM_L_PER_MIN
ftot		NM	152490	MDC_VENT_RESP_BTSD_PSAZC_RATE	MDC	MDC_DIM_RESP_PER_MIN
fmand		NM	179	MNDRY_BREATH_RATE_MAND	99MNDRY	MDC_DIM_RESP_PER_MIN
fspn		NM	152538	MDC_VENT_RESP_BTSD_PS_RATE	MDC	MDC_DIM_RESP_PER_MIN
fapnea		NM	20028	MNDRY_VENT_APNEA_RATE_SETTING	99MNDRY	MDC_DIM_RESP_PER_MIN
fCMV		NM	16929762	MDC_VENT_RESP_BTSD_AZC_RATE_SETTING	MDC	MDC_DIM_RESP_PER_MIN
fSIMV		NM	20020	MNDRY_VENT_SIMV_RATE_SETTING	99MNDRY	MDC_DIM_RESP_PER_MIN
f_C		NM	16928802	MDC_VENT_RESP_RATE_SETTING	MDC	MDC_DIM_RESP_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
I:E_M		NM	151832	MDC_RATIO_IE	MDC	MDC_DIM_DIMLESS
I:E_C		NM	16929048	MDC_RATIO_IE_SETTING	MDC	MDC_DIM_DIMLESS
fsigh		NM	16928850	MDC_VENT_SIGH_RATE_SETTING	MDC	MDC_DIM_RESP_PER_MIN
VTsigh		NM	20055	MNDRY_VENT_SIGH_BREATH_TIDAL_VOL_SETTING	99MNDRY	MDC_DIM_MILLI_L
Delta int. PEEP		NM	20034	MNDRY_VENT_INT_PEEP_DELTA_SETTING	99MNDRY	MDC_DIM_CM_H2O
MVLeak		NM	152432	MDC_VENT_VOL_LEAK	MDC	MDC_DIM_L_PER_MIN
Leak Compensation		NM	345	MNDRY_VENT_LEAK_COMPENSATION	99MNDRY	MDC_DIM_PERCENT
FiO2%		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
FiO2		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_MMHG
EtO2%		NM	152440	MDC_CONC_AWAY_O2_ET	MDC	MDC_DIM_PERCENT
EtO2		NM	152440	MDC_CONC_AWAY_O2_ET	MDC	MDC_DIM_MMHG
ΔO2%		NM	151912	MDC_VENT_CONC_AWAY_O2_DELTA	MDC	MDC_DIM_PERCENT
ΔO2		NM	151912	MDC_VENT_CONC_AWAY_O2_DELTA	MDC	MDC_DIM_MMHG
Rstat		NM	181	MNDRY_RESISTANCE_LUNG_STATIC	99MNDRY	MDC_DIM_CM_H2O_PER_L_PER_SEC
Rdyn		NM	182	MNDRY_RESISTANCE_LUNG_DYNAMIC	99MNDRY	MDC_DIM_CM_H2O_PER_L_PER_SEC
Cstat		NM	151696	MDC_COMPL_LUNG_STATIC	MDC	MDC_DIM_MILLI_L_PER_CM_H2O
Cdyn		NM	151692	MDC_COMPL_LUNG_DYN	MDC	MDC_DIM_MILLI_L_PER_CM_H2O
RSBI		NM	152860	MDC_RESP_RAPID_SHALLOW_BREATHING_INDEX	MDC	MDC_DIM_PER_L_PER_MIN
WOB		NM	183	MNDRY_WK_OF_BREATHING_VENT	99MNDRY	MNDRY_DIM_JOULES_PER_L
WOBimp		NM	184	MNDRY_WK_OF_BREATHING_SPON_VENT	99MNDRY	MNDRY_DIM_JOULES_PER_MIN
O2 Flow		NM	232	MNDRY_FLOW_O2	99MNDRY	MDC_DIM_L_PER_MIN
Air Flow		NM	233	MNDRY_FLOW_AIR	99MNDRY	MDC_DIM_L_PER_MIN
Insp. Flow		NM	151948	MDC_VENT_FLOW_INSP	MDC	MDC_DIM_L_PER_MIN
Exp. Flow		NM	151944	MDC_VENT_FLOW_EXP	MDC	MDC_DIM_L_PER_MIN
Base Flow		NM	20078	MNDRY_VENT_FLOW_BASE_SETTING	99MNDRY	MDC_DIM_L_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Tsupp		NM	16929633	MDC_VENT_TIME_PD_INSP_MAX_SETTING	MDC	MDC_DIM_SEC
F_Triger		NM	16930020	MDC_VENT_FLOW_TRIG_SENS_SETTING	MDC	MDC_DIM_L_PER_MIN
Triger(Insp%)		NM	20083	MNDRY_VENT_INSP_TRIGGER_SETTING	99MNDRY	MDC_DIM_PERCENT
P_Triger		NM	16929644	MDC_VENT_PRESS_TRIG_SENS_SETTING	MDC	MDC_DIM_CM_H2O
Psupp		NM	16929952	MDC_VENT_PRESS_AWAY_DELTA_SUPP_SETTING	MDC	MDC_DIM_CM_H2O
Plimit		NM	16929964	MDC_VENT_PRESS_AWAY_LIMIT_SETTING	MDC	MDC_DIM_CM_H2O
Tplat		NM	16929840	MDC_VENT_TIME_PD_INSP_PAUSE_SETTING	MDC	MDC_DIM_SEC
Tinsp		NM	16929824	MDC_TIME_PD_INSP_SETTING	MDC	MDC_DIM_SEC
Texp		NM	229	MNDRY_TIME_PD_EXP	99MNDRY	MDC_DIM_SEC
Pinsp		NM	16929188	MDC_VENT_PRESS_AWAY_SETTING	MDC	MDC_DIM_CM_H2O
△Papnea		NM	16929944	MDC_VENT_PRESS_AWAY_DELTA_BACKUP_SETTING	MDC	MDC_DIM_CM_H2O
Pause		NM	16929840	MDC_VENT_TIME_PD_INSP_PAUSE_SETTING	MDC	MDC_DIM_SEC
TPause%		NM	16929844	MDC_VENT_TIME_PD_INSP_PAUSE_PERCENT_SETTING	MDC	MDC_DIM_PERCENT
Trise		NM	16929984	MDC_VENT_PRESS_AWAY_RISETIME_CTLD_SETTING	MDC	MDC_DIM_SEC
Trise%		NM	20049	MNDRY_VENT_SLOPE_TIME_PERCENT_SETTING	99MNDRY	MDC_DIM_PERCENT
Phigh		NM	16929956	MDC_VENT_PRESS_AWAY_INSP_PHIGH_SETTING	MDC	MDC_DIM_CM_H2O
Plow		NM	16929960	MDC_VENT_PRESS_AWAY_EXP_PLOW_SETTING	MDC	MDC_DIM_CM_H2O
Thigh		NM	16929860	MDC_VENT_TIME_PD_INSP_THIGH_SETTING	MDC	MDC_DIM_SEC
Tlow		NM	16929864	MDC_VENT_TIME_PD_EXP_TLOW_SETTING	MDC	MDC_DIM_SEC
Exp_PERCENT		NM	20026	MNDRY_VENT_EXP_TRIGGER_SETTING	99MNDRY	MDC_DIM_PERCENT
Pmax		NM	20040	MNDRY_PV_TOOL_PMAX_SETTING	99MNDRY	MDC_DIM_CM_H2O
PC above PEEP		NM	16929936	MDC_VENT_PRESS_AWAY_DELTA_SETTING	MDC	MDC_DIM_CM_H2O
PS above PEEP		NM	16929952	MDC_VENT_PRESS_AWAY_DELTA_SUPP_SETTING	MDC	MDC_DIM_CM_H2O
PEEP_CPAP		NM	16929012	MDC_PRESS_AWAY_CTS_POS_SETTING	MDC	MDC_DIM_CM_H2O
Paux Peak		NM	185	MNDRY_PRESS_AUX_POSITIVE_MAX	99MNDRY	MDC_DIM_CM_H2O
Paux Mean		NM	186	MNDRY_PRESS_AUX_MEAN	99MNDRY	MDC_DIM_CM_H2O

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Paux Min		NM	187	MNDRY_PRESS_AUX_MIN	99MNDRY	MDC_DIM_CM_H2O
Base Press		NM	188	MNDRY_PRESS_BASE	99MNDRY	MDC_DIM_CM_H2O
Rinsp		NM	151848	MDC_RES_AWAY_INSP	MDC	MDC_DIM_CM_H2O_PER_L_PER_SEC
Rexp		NM	151844	MDC_RES_AWAY_EXP	MDC	MDC_DIM_CM_H2O_PER_L_PER_SEC
Rcexp		NM	189	MNDRY_TIME_CONSTANT_EXP	99MNDRY	MDC_DIM_SEC
Rcinsp		NM	190	MNDRY_TIME_CONSTANT_INSP	99MNDRY	MDC_DIM_SEC
PTP		NM	191	MNDRY_PRESS_TIME_PRODUCT	99MNDRY	MNDRY_DIM_CM_H2O_SEC
Pmin		NM	151794	MDC_PRESS_AWAY_MIN	MDC	MDC_DIM_CM_H2O
Vtrap		NM	226	MNDRY_VOL_TRAP	99MNDRY	MDC_DIM_MILLI_L
PO2		NM	153160	MDC_PRESS_O2_SUPPLY	MDC	MDC_DIM_KILO_PASCAL
Pair		NM	152888	MDC_PRESS_AIR_SUPPLY	MDC	MDC_DIM_KILO_PASCAL
O2 cyl.		NM	153164	MDC_PRESS_O2_CYL	MDC	MDC_DIM_KILO_PASCAL
O2 cyl.2nd		NM	153168	MDC_PRESS_O2_CYL_2	MDC	MDC_DIM_KILO_PASCAL
air cyl.(air cylinder pressure)		NM	152892	MDC_PRESS_AIR_CYL	MDC	MDC_DIM_KILO_PASCAL
FRC		NM	192	MNDRY_CAPACITY_FRACTIONAL_RESIDUAL	99MNDRY	MDC_DIM_MILLI_L
T (Temp)		NM	150344	MDC_TEMP	MDC	MDC_DIM_DEGC
NIP		NM	193	MNDRY_PRESSURE_NEGATIVE_INSPIRATORY	99MNDRY	MDC_DIM_CM_H2O
P0.1		NM	152780	MDC_VENT_PRESS_OCCL_P100MS	MDC	MDC_DIM_CM_H2O
PEEPi		NM	151808	MDC_PRESS_AWAY_END_EXP_POS_INTRINSIC	MDC	MDC_DIM_CM_H2O
PEEPe		NM	151804	MDC_PRESS_AWAY_END_EXP_POS_EXTRINSIC	MDC	MDC_DIM_CM_H2O
PEEPtot		NM	152788	MDC_PRESS_AWAY_END_EXP_POS_TOTAL	MDC	MDC_DIM_CM_H2O
EtCO2%		NM	151928	MDC_VENT_AWAY_CO2_ET	MDC	MDC_DIM_PERCENT
EtCO2		NM	151928	MDC_VENT_AWAY_CO2_ET	MDC	MDC_DIM_MMHG
FiCO2%		NM	151936	MDC_VENT_AWAY_CO2_INSP	MDC	MDC_DIM_PERCENT
FiCO2		NM	151936	MDC_VENT_AWAY_CO2_INSP	MDC	MDC_DIM_MMHG
RRCO2		NM	151610	MDC_VENT_CO2_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Flow		NM	16929164	MDC_VENT_FLOW_INSP_SETTING	MDC	MDC_DIM_L_PER_MIN
Peak Flow		NM	20059	MNDRY_VENT_FLOW_PEAK_SETTING	99MNDRY	MDC_DIM_L_PER_MIN
External Flow		NM	234	MNDRY_FLOW_EXTERNAL	99MNDRY	MDC_DIM_L_PER_MIN
Tapnea		NM	16929072	MDC_TIME_PD_APNEA_SETTING	MDC	MDC_DIM_SEC
TiMax		NM	16929633	MDC_VENT_TIME_PD_INSP_MAX_SETTING	MDC	MDC_DIM_SEC
Tip		NM	16929840	MDC_VENT_TIME_PD_INSP_PAUSE_SETTING	MDC	MDC_DIM_SEC
TRC		NM	197	MNDRY_RESISTANCE_TUBE_COMP	99MNDRY	MDC_DIM_DIMLESS
ASB_Ramp		NM	20061	MNDRY_VENT_PRESS_RAMP_PD_PS_SETTING	99MNDRY	MDC_DIM_SEC
P-Ramp		NM	16929984	MDC_VENT_PRESS_AWAY_RISETIME_CTLD_SETTING	MDC	MDC_DIM_MILLI_SEC
PASB(Assisted Spontaneous Breathing)		NM	16929948	MDC_VENT_PRESS_AWAY_SUPP_SETTING	MDC	MDC_DIM_CM_H2O
FlowAssist		NM	20086	MNDRY_FLOW_ASSIST_SETTING	99MNDRY	MNDRY_DIM_CM_H2O_SEC_PER_L
Vol.Assist		NM	20087	MNDRY_VOLUME_ASSIST_SETTING	99MNDRY	MDC_DIM_CM_H2O_PER_L
Tdisconnect		NM	20088	MNDRY_TIME_PD_DISCONNECT_SETTING	99MNDRY	MDC_DIM_SEC
FlowAcc		NM	20066	MNDRY_VENT_FLOW_ACC_SETTING	99MNDRY	MNDRY_DIM_CM_H2O_PER_SEC
MinVol%		NM	20067	MNDRY_VENT_MIN_VOLUME_PERCENT_SETTING	99MNDRY	MDC_DIM_PERCENT
Vds		NM	151984	MDC_VENT_VOL_AWAY_DEADSP	MDC	MDC_DIM_MILLI_L
EE		NM	228	MNDRY_RESP_EXPENDED_ENERGY	99MNDRY	MNDRY_DIM_KILO_CAL_PER_DAY
RQ		NM	151828	MDC_QUO_RESP	MDC	MDC_DIM_DIMLESS
VO2		NM	152420	MDC_FLOW_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
VCO2		NM	151776	MDC_FLOW_CO2_PROD_RESP	MDC	MDC_DIM_MILLI_L_PER_MIN
VO2/m2		NM	207	MNDRY_FLOW_O2_CONSUMP_PER_M_SQ	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
VCO2/m2		NM	208	MNDRY_FLOW_CO2_PROD_RESP_PER_M_SQ	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
VO2/kg		NM	209	MNDRY_FLOW_O2_CONSUMP_PER_KG	99MNDRY	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
VCO2/kg		NM	210	MNDRY_FLOW_CO2_PROD_RESP_PER_KG	99MNDRY	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG
ATRC Compensate		NM	16930516	MDC_VENT_TUBE_COMPENSATION_LEVEL_SETTING	MDC	MDC_DIM_PERCENT
Tube ID		NM	16930524	MDC_VENT_TUBE_SIZE_SETTING	MDC	MDC_DIM_MILLI_M
SpO2 Pulse Rate		NM	149546	MDC_PULS_RATE_NON_INV	MDC	MDC_DIM_BEAT_PER_MIN
SpO2		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
O2%_C		NM	16930360	MDC_CONC_GASDLV_O2_INSP_SETTING	MDC	MDC_DIM_PERCENT
MV_C		NM	16929096	MDC_VOL_MINUTE_AWAY_SETTING	MDC	MDC_DIM_L_PER_MIN
Tpause_S		NM	16929840	MDC_VENT_TIME_PD_INSP_PAUSE_SETTING	MDC	MDC_DIM_SEC
Tpeep		NM	20068	MNDRY_VENT_TIME_PEEP_SETTING	99MNDRY	MDC_DIM_SEC
VTCO2		NM	346	MNDRY_VOL_AWAY_TIDAL_CO2	99MNDRY	MDC_DIM_MILLI_L
F_Trigger_Maquet		NM	16930020	MDC_VENT_FLOW_TRIG_SENS_SETTING	MDC	MDC_DIM_L_PER_MIN
TI_TTOT		NM	343	MNDRY_RATIO_TI_TTOT	99MNDRY	MDC_DIM_DIMLESS
VENT_Stress_Index		NM	512	MNDRY_VENT_STRESS_INDEX	99MNDRY	MDC_DIM_DIMLESS
VENT_EEF		NM	511	MNDRY_VENT_FLOW_EXP_END	99MNDRY	MDC_DIM_L_PER_MIN
VENT_PEF		NM	151945	MDC_VENT_FLOW_EXP_MAX	MDC	MDC_DIM_L_PER_MIN
VENT_PIF		NM	151949	MDC_VENT_FLOW_INSP_MAX	MDC	MDC_DIM_L_PER_MIN
VENT_TV _e _Dev_IBW		NM	153208	MDC_VOL_AWAY_TIDAL_PER_IBW	MDC	MDC_DIM_MILLI_L_PER_KG
Ventilator, 2	1.13.2.0		70003	MDC_DEV_SYS_PT_VENT_CHAN	MDC	
Partial pressure of carbon dioxide in the arteries		NM	159752	MDC_CONC_PCO2_ART	MDC	MDC_DIM_MMHG
Partial pressure of mixed expiratory CO2		NM	151712	MDC_CONC_AWAY_CO2_EXP	MDC	MDC_DIM_MMHG
Atmospheric pressure		NM	152836	MDC_PRESS_AIR_AMBIENT	MDC	MDC_DIM_MMHG
Alveolar volume		NM	153240	MDC_VENT_VOL_MINUTE_LUNG_ALV	MDC	MDC_DIM_L_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Ventilation Relative Deadspace (physiologic dead space in percent of tidal volume)		NM	151836	MDC_RATIO_AWAY_DEADSP_TIDAL	MDC	MDC_DIM_PERCENT [HL7OutgoingConfig.cpp:34]
Volume of physiological		NM	151872	MDC_VOL_AWAY_DEADSP	MDC	MDC_DIM_MILLI_L
Minute Volume		NM	151880	MDC_VOL_MINUTE_AWAY	MDC	MDC_DIM_L_PER_MIN
Percentage fraction of inspired oxygen		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
Alveolar-arterial oxygen difference		NM	492	MNDRY_ALV_ART_GRADIENT	99MNDRY	MDC_DIM_MMHG
Respiration quotient		NM	151828	MDC_QUO_RESP	MDC	MDC_DIM_DIMLESS
Tidal Volume		NM	151868	MDC_VOL_AWAY_TIDAL	MDC	MDC_DIM_MILLI_L
Arterial to alveolar oxygen ratio		NM	493	MNDRY_ART_TO_ALV_O2_RATIO	99MNDRY	MDC_DIM_PERCENT
Oxygenation ratio		NM	150656	MDC_O2_OXYGENATION_RATIO	MDC	MDC_DIM_MMHG
Respiration Rate		NM	151562	MDC_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
Partial pressure of oxygen in the alveoli		NM	491	MNDRY_CONC_O2_ALV	99MNDRY	MDC_DIM_MMHG
Partial pressure of oxygen in the arteries		NM	159756	MDC_CONC_PO2_ART	MDC	MDC_DIM_MMHG
Ventilator, 3	1.13.3.0		70003	MDC_DEV_SYS_PT_VENT_CHAN	MDC	
Ventilator Work Mode		ST	184352	MDC_VENT_MODE	MDC	MDC_DIM_DIMLESS
Ventilator Ventilation Mode(SV)		CNE	184352	MDC_VENT_MODE	MDC	MDC_DIM_DIMLESS
Anesthesia	1.14.0.0		70042	MDC_DEV_SYS_ANESTH_VMD	MDC	
Anesthesia, 1	1.14.1.0		70043	MDC_DEV_SYS_ANESTH_CHAN	MDC	
Breaths		NM	20046	MNDRY_RM_AUTO_MODE_BREATHS_SETTING	99MNDRY	MDC_DIM_DIMLESS
PO2		NM	153160	MDC_PRESS_O2_SUPPLY	MDC	MDC_DIM_KILO_PASCAL
PN2O		NM	152968	MDC_PRESS_N2O_SUPPLY	MDC	MDC_DIM_KILO_PASCAL
Air Supply Pressure		NM	152888	MDC_PRESS_AIR_SUPPLY	MDC	MDC_DIM_KILO_PASCAL

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
O2 cyl.2nd		NM	153168	MDC_PRESS_O2_CYL_2	MDC	MDC_DIM_KILO_PASCAL
N2O cyl		NM	152972	MDC_PRESS_N2O_CYL	MDC	MDC_DIM_KILO_PASCAL
PEEPtot		NM	152788	MDC_PRESS_AWAY_END_EXP_POS_TOTAL	MDC	MDC_DIM_CM_H2O
PEEPe		NM	151804	MDC_PRESS_AWAY_END_EXP_POS_EXTRINSIC	MDC	MDC_DIM_CM_H2O
PEEPi		NM	151808	MDC_PRESS_AWAY_END_EXP_POS_INTRINSIC	MDC	MDC_DIM_CM_H2O
FRC(fractional residual capacity)		NM	192	MNDRY_CAPACITY_FRACTIONAL_RESIDUAL	99MNDRY	MDC_DIM_MILLI_L
Paux Mean		NM	186	MNDRY_PRESS_AUX_MEAN	99MNDRY	MDC_DIM_CM_H2O
Paux Peak(max positive auxiliary pressure)		NM	185	MNDRY_PRESS_AUX_POSITIVE_MAX	99MNDRY	MDC_DIM_CM_H2O
Paux Min(minimum auxiliary pressure)		NM	187	MNDRY_PRESS_AUX_MIN	99MNDRY	MDC_DIM_CM_H2O
VTe		NM	151868	MDC_VOL_AWAY_TIDAL	MDC	MDC_DIM_MILLI_L
RAW		NM	151840	MDC_RES_AWAY	MDC	MDC_DIM_CM_H2O_PER_L_PER_SEC
Compl		NM	151688	MDC_COMPL_LUNG	MDC	MDC_DIM_MILLI_L_PER_CM_H2O
Exp_PERCENT		NM	20026	MNDRY_VENT_EXP_TRIGGER_SETTING	99MNDRY	MDC_DIM_PERCENT
Exp. Flow		NM	151944	MDC_VENT_FLOW_EXP	MDC	MDC_DIM_L_PER_MIN
O2%_C		NM	16930360	MDC_CONC_GASDLV_O2_INSP_SETTING	MDC	MDC_DIM_PERCENT
F_Trigger_Maquet		NM	16930020	MDC_VENT_FLOW_TRIG_SENS_SETTING	MDC	MDC_DIM_L_PER_MIN
TI_TTOT		NM	343	MNDRY_RATIO_TI_TTOT	99MNDRY	MDC_DIM_DIMLESS
PS above PEEP		NM	16929952	MDC_VENT_PRESS_AWAY_DELTA_SUPP_SETTING	MDC	MDC_DIM_CM_H2O
PC above PEEP		NM	16929936	MDC_VENT_PRESS_AWAY_DELTA_SETTING	MDC	MDC_DIM_CM_H2O
TPause		NM	16929840	MDC_VENT_TIME_PD_INSP_PAUSE_SETTING	MDC	MDC_DIM_SEC
TPause%		NM	16929844	MDC_VENT_TIME_PD_INSP_PAUSE_PERCENT_SETTING	MDC	MDC_DIM_PERCENT
Tinsp%		NM	16929820	MDC_VENT_TIME_PD_INSP_PERCENT_SETTING	MDC	MDC_DIM_PERCENT
Trise%		NM	20049	MNDRY_VENT_SLOPE_TIME_PERCENT_SETTING	99MNDRY	MDC_DIM_PERCENT
MV_C		NM	16929224	MDC_VENT_VOL_MINUTE_AWAY_SETTING	MDC	MDC_DIM_L_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
SpO2 External,Pulse Rate		NM	149546	MDC_PULS_RATE_NON_INV	MDC	MDC_DIM_BEAT_PER_MIN
SpO2 External,Saturation		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
BC		NM	154028	MDC_EEG_NUM_SPK	MDC	MDC_DIM_PER_MIN
TP		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
SEF		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
EMG		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
SR		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
SQI		NM	153636	MDC_EEG_SIGNAL_QUALITY_INDEX	MDC	MDC_DIM_PERCENT
BIS		NM	153644	MDC_EEG_BISPECTRAL_INDEX	MDC	MDC_DIM_DIMLESS
BSA		NM	188744	MDC_AREA_BODY_SURF_ACTUAL	MDC	MDC_DIM_SQ_M
Sev Flow		NM	296	MNDRY_FLOW_DELIV_SEVOFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
Hal Flow		NM	293	MNDRY_FLOW_DELIV_HALOTH_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
Iso Flow		NM	295	MNDRY_FLOW_DELIV_ISOFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
O2 cyl.		NM	153164	MDC_PRESS_O2_CYL	MDC	MDC_DIM_KILO_PASCAL
Insp. Flow		NM	16929164	MDC_VENT_FLOW_INSP_SETTING	MDC	MDC_DIM_L_PER_MIN
F_Trigger		NM	16930020	MDC_VENT_FLOW_TRIG_SENS_SETTING	MDC	MDC_DIM_L_PER_MIN
FiHal		NM	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	MDC_DIM_PERCENT
step		NM	499	MNDRY_RM_AUTO_MODE_STEP	99MNDRY	MDC_DIM_DIMLESS
Tlow		NM	16929864	MDC_VENT_TIME_PD_EXP_TLOW_SETTING	MDC	MDC_DIM_SEC
Thigh		NM	16929860	MDC_VENT_TIME_PD_INSP_THIGH_SETTING	MDC	MDC_DIM_SEC
Plow		NM	16929960	MDC_VENT_PRESS_AWAY_EXP_PLOW_SETTING	MDC	MDC_DIM_CM_H2O
Phigh		NM	16929956	MDC_VENT_PRESS_AWAY_INSP_PHIGH_SETTING	MDC	MDC_DIM_CM_H2O
△Papnea		NM	16929944	MDC_VENT_PRESS_AWAY_DELTA_BACKUP_SETTING	MDC	MDC_DIM_CM_H2O
P_Trigger		NM	16929644	MDC_VENT_PRESS_TRIG_SENS_SETTING	MDC	MDC_DIM_CM_H2O
air cyl.		NM	152892	MDC_PRESS_AIR_CYL	MDC	MDC_DIM_KILO_PASCAL
Freshgas Flow		NM	20084	MNDRY_FLOW_TOTAL_FG_SETTING	99MNDRY	MDC_DIM_MILLI_L_PER_MIN
N2O Flow		NM	153092	MDC_FLOW_N2O_FG	MDC	MDC_DIM_L_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Air Flow		NM	152876	MDC_FLOW_AIR_FG	MDC	MDC_DIM_L_PER_MIN
O2 Flow		NM	153156	MDC_FLOW_O2_FG	MDC	MDC_DIM_L_PER_MIN
Des Flow		NM	297	MNDRY_FLOW_DELIV_DESFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
Enf Flow		NM	294	MNDRY_FLOW_DELIV_ENFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
Pmax		NM	20040	MNDRY_PV_TOOL_PMAX_SETTING	99MNDRY	MDC_DIM_CM_H2O
Psupp		NM	16929952	MDC_VENT_PRESS_AWAY_DELTA_SUPP_SETTING	MDC	MDC_DIM_CM_H2O
Pinsp		NM	16929188	MDC_VENT_PRESS_AWAY_SETTING	MDC	MDC_DIM_CM_H2O
Plimit		NM	16929964	MDC_VENT_PRESS_AWAY_LIMIT_SETTING	MDC	MDC_DIM_CM_H2O
Trigger_Window		NM	20044	MNDRY_VENT_TRIGGER_WINDOW_SETTING	99MNDRY	MDC_DIM_PERCENT
Texp		NM	16929828	MDC_TIME_PD_EXP_SETTING	MDC	MDC_DIM_SEC
Tinsp		NM	16929824	MDC_TIME_PD_INSP_SETTING	MDC	MDC_DIM_SEC
Trise		NM	16929984	MDC_VENT_PRESS_AWAY_RISETIME_CTLD_SETTING	MDC	MDC_DIM_SEC
TIP_TI		NM	16929844	MDC_VENT_TIME_PD_INSP_PAUSE_PERCENT_SETTING	MDC	MDC_DIM_PERCENT
I:E_C		NM	16929048	MDC_RATIO_IE_SETTING	MDC	MDC_DIM_DIMLESS
I:E_M		NM	151832	MDC_RATIO_IE	MDC	MDC_DIM_DIMLESS
FreqMIN		NM	16929698	MDC_VENT_RESP_BACKUP_RATE_SETTING	MDC	MDC_DIM_RESP_PER_MIN
fSIMV		NM	20020	MNDRY_VENT_SIMV_RATE_SETTING	99MNDRY	MDC_DIM_RESP_PER_MIN
fspn		NM	151674	MDC_RESP_BTSD_PS_RATE	MDC	MDC_DIM_RESP_PER_MIN
ftot		NM	152490	MDC_VENT_RESP_BTSD_PSAZC_RATE	MDC	MDC_DIM_RESP_PER_MIN
fmand		NM	16929762	MDC_VENT_RESP_BTSD_AZC_RATE_SETTING	MDC	MDC_DIM_RESP_PER_MIN
Rate		NM	16928802	MDC_VENT_RESP_RATE_SETTING	MDC	MDC_DIM_RESP_PER_MIN
RR		NM	151562	MDC_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
MVLeak		NM	152432	MDC_VENT_VOL_LEAK	MDC	MDC_DIM_L_PER_MIN
FiEnf		NM	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	MDC_DIM_PERCENT
MVi		NM	152004	MDC_VENT_VOL_MINUTE_INSP	MDC	MDC_DIM_L_PER_MIN
EtEnf		NM	152088	MDC_CONC_AWAY_ENFL_ET	MDC	MDC_DIM_PERCENT
MVe		NM	152000	MDC_VENT_VOL_MINUTE_EXP	MDC	MDC_DIM_L_PER_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Filso		NM	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	MDC_DIM_PERCENT
MVspn		NM	151880	MDC_VOL_MINUTE_AWAY	MDC	MDC_DIM_L_PER_MIN
EtIso		NM	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	MDC_DIM_PERCENT
VO2/KG		NM	209	MNDRY_FLOW_O2_CONSUMP_PER_KG	99MNDRY	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG
VO2/m2		NM	207	MNDRY_FLOW_O2_CONSUMP_PER_M_SQ	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
MV		NM	151880	MDC_VOL_MINUTE_AWAY	MDC	MDC_DIM_L_PER_MIN
VTi		NM	16930436	MDC_VENT_VOL_TIDAL_INSP_SETTING	MDC	MDC_DIM_MILLI_L
VTi		NM	152660	MDC_VOL_AWAY_TIDAL_INSP	MDC	MDC_DIM_MILLI_L
VO2		NM	152420	MDC_FLOW_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
SEVLev		NM	152900	MDC_VOL_DELIV_DESFL_LIQUID_CASE	MDC	MDC_DIM_MILLI_L
DESLev		NM	152980	MDC_VOL_DELIV_SEVOFL_LIQUID_CASE	MDC	MDC_DIM_MILLI_L
ISOLev		NM	152948	MDC_VOL_DELIV_ISOFL_LIQUID_CASE	MDC	MDC_DIM_MILLI_L
ENFLev		NM	152916	MDC_VOL_DELIV_ENFL_LIQUID_CASE	MDC	MDC_DIM_MILLI_L
HALLev		NM	152932	MDC_VOL_DELIV_HALOTH_LIQUID_CASE	MDC	MDC_DIM_MILLI_L
EtHal		NM	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	MDC_DIM_PERCENT
VT		NM	16929196	MDC_VENT_VOL_TIDAL_SETTING	MDC	MDC_DIM_MILLI_L
Paw		NM	151972	MDC_VENT_PRESS_AWAY	MDC	MDC_DIM_CM_H2O
Pmean		NM	151819	MDC_PRESS_AWAY_INSP_MEAN	MDC	MDC_DIM_CM_H2O
MAC		NM	152872	MDC_CONC_MAC	MDC	MDC_DIM_DIMLESS
Exp. MAC		NM	175	MNDRY_CONC_MAC_EXP	99MNDRY	MDC_DIM_DIMLESS
ATMP		NM	152836	MDC_PRESS_AIR_AMBIENT	MDC	MDC_DIM_MMHG
Insp. MAC		NM	174	MNDRY_CONC_MAC_INSP	99MNDRY	MDC_DIM_DIMLESS
Pplat		NM	151784	MDC_PRESS_RESP_PLAT	MDC	MDC_DIM_CM_H2O
Ppeak		NM	151793	MDC_PRESS_AWAY_MAX	MDC	MDC_DIM_CM_H2O
EtAA		NM	152460	MDC_CONC_AWAY_AGENT_ET	MDC	MDC_DIM_PERCENT
FiAA		NM	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	MDC_DIM_PERCENT
PEEP		NM	16929192	MDC_VENT_PRESS_AWAY_END_EXP_POS_SETTING	MDC	MDC_DIM_CM_H2O

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
PEEP		NM	151976	MDC_VENT_PRESS_AWAY_END_EXP_POS	MDC	MDC_DIM_CM_H2O
O2%		NM	151908	MDC_CONC_AWAY_O2	MDC	MDC_DIM_PERCENT
ANES_TODO		NM	296	MNDRY_FLOW_DELIV_SEVOFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
ANES_TODO		NM	293	MNDRY_FLOW_DELIV_HALOTH_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
ANES_TODO		NM	295	MNDRY_FLOW_DELIV_ISOFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
ANES_TODO		NM	294	MNDRY_FLOW_DELIV_ENFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
ANES_TODO		NM	297	MNDRY_FLOW_DELIV_DESFL_LIQUID	99MNDRY	MDC_DIM_MILLI_L_PER_HR
FiSev		NM	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	MDC_DIM_PERCENT
EtSev		NM	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	MDC_DIM_PERCENT
PEEP On Exit/ Plow On Exit		NM	20091	MNDRY_RM_EXIT_PRESS_SETTING	99MNDRY	MDC_DIM_CM_H2O
Hold Time		NM	20090	MNDRY_RM_MANUAL_PD_HOLD_SETTING	99MNDRY	MDC_DIM_SEC
Pressure Hold		NM	20089	MNDRY_RM_MANUAL_HOLD_PRESS_SETTING	99MNDRY	MDC_DIM_CM_H2O
O2 Flow		NM	16930372	MDC_FLOW_O2_FG_SETTING	MDC	MDC_DIM_L_PER_MIN
Air Flow		NM	16930092	MDC_FLOW_AIR_FG_SETTING	MDC	MDC_DIM_L_PER_MIN
Pmin		NM	151794	MDC_PRESS_AWAY_MIN	MDC	MDC_DIM_CM_H2O
N2O Flow		NM	16930308	MDC_FLOW_N2O_FG_SETTING	MDC	MDC_DIM_L_PER_MIN
EtDes		NM	152084	MDC_CONC_AWAY_DESFL_ET	MDC	MDC_DIM_PERCENT
PlimVG		NM	16929964	MDC_VENT_PRESS_AWAY_LIMIT_SETTING	MDC	MDC_DIM_CM_H2O
VtG		NM	16929196	MDC_VENT_VOL_TIDAL_SETTING	MDC	MDC_DIM_MILLI_L
FiDes		NM	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	MDC_DIM_PERCENT
EtN2O		NM	152108	MDC_CONC_AWAY_N2O_ET	MDC	MDC_DIM_PERCENT
FiN2O		NM	152192	MDC_CONC_AWAY_N2O_INSP	MDC	MDC_DIM_PERCENT
Tapnea		NM	151856	MDC_TIME_PD_APNEA	MDC	MDC_DIM_SEC
ΔO2		NM	151912	MDC_VENT_CONC_AWAY_O2_DELTA	MDC	MDC_DIM_MMHG
ΔO2%		NM	151912	MDC_VENT_CONC_AWAY_O2_DELTA	MDC	MDC_DIM_PERCENT
EtO2		NM	152440	MDC_CONC_AWAY_O2_ET	MDC	MDC_DIM_MMHG
EtO2%		NM	152440	MDC_CONC_AWAY_O2_ET	MDC	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
FiO2		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_MMHG
FiO2%		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
FICO2		NM	151716	MDC_CONC_AWAY_CO2_INSP	MDC	MDC_DIM_MMHG
FICO2%		NM	151716	MDC_CONC_AWAY_CO2_INSP	MDC	MDC_DIM_PERCENT
EtCO2		NM	151708	MDC_CONC_AWAY_CO2_ET	MDC	MDC_DIM_MMHG
EtCO2%		NM	151708	MDC_CONC_AWAY_CO2_ET	MDC	MDC_DIM_PERCENT
RRCO2		NM	151610	MDC_VENT_CO2_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
P0.1 time		NM	225	MNDRY_TIME_PRESS_100_MS_OCCLUSION	99MNDRY	MDC_DIM_MIN
P0.1		NM	152780	MDC_VENT_PRESS_OCCL_P100MS	MDC	MDC_DIM_CM_H2O
PEEPi Time		NM	224	MNDRY_TIME_PRESS_AWAY_END_EXP_POS_INTRINSIC	99MNDRY	MDC_DIM_MIN
VCO2		NM	151776	MDC_FLOW_CO2_PROD_RESP	MDC	MDC_DIM_MILLI_L_PER_MIN
Energy Expenditure		NM	228	MNDRY_RESP_EXPENDED_ENERGY	99MNDRY	MNDRY_DIM_KILO_CAL_PER_DAY
RQ		NM	151828	MDC_QUO_RESP	MDC	MDC_DIM_DIMLESS
Anesthesia, 2	1.14.2.0		70043	MDC_DEV_SYS_ANESTH_CHAN	MDC	
EtHal		NM	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	MDC_DIM_PERCENT
FiHal		NM	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	MDC_DIM_PERCENT
EtSev		NM	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	MDC_DIM_PERCENT
EtDes		NM	152084	MDC_CONC_AWAY_DESFL_ET	MDC	MDC_DIM_PERCENT
FiSev		NM	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	MDC_DIM_PERCENT
EtAA 2nd		NM	152460	MDC_CONC_AWAY_AGENT_ET	MDC	MDC_DIM_PERCENT
FiAA 2nd		NM	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	MDC_DIM_PERCENT
FiDes		NM	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	MDC_DIM_PERCENT
EtEnf		NM	152088	MDC_CONC_AWAY_ENFL_ET	MDC	MDC_DIM_PERCENT
FiEnf		NM	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	MDC_DIM_PERCENT
EtIso		NM	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	MDC_DIM_PERCENT
Filso		NM	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	MDC_DIM_PERCENT
Anesthesia, 3	1.14.3.0		70043	MDC_DEV_SYS_ANESTH_CHAN	MDC	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Anesthesia Ventilation Mode(A7)		CNE	184352	MDC_VENT_MODE	MDC	MDC_DIM_DIMLESS
Anesthesia Work Mode		ST	184352	MDC_VENT_MODE	MDC	MDC_DIM_DIMLESS
Anesthesia Device Status(A7)		CNE	202886	MDC_EVT_STAT_DEV	MDC	MDC_DIM_DIMLESS
Anesthesia Patient Type(A7)		CNE	30005	MNDRY_EVT_PATIENT_TYPE	99MNDRY	MDC_DIM_DIMLESS
Anesthesia Warm On(A7)		CNE	30007	MNDRY_EVT_STAT_WARMER_ON_BOOL	99MNDRY	MDC_DIM_DIMLESS
Anesthesia Device Mode(A7)		CNE	30002	MNDRY_EVT_STAT_MODE_DEV	99MNDRY	MDC_DIM_DIMLESS
Transcutaneous Gas	1.15.0.0		70018	MNDRY_DEV_GAS_VMD	99MNDRY	
Transcutaneous Gas	1.15.1.0		70019	MNDRY_DEV_GAS_CHAN	99MNDRY	
Temp		NM	150344	MDC_TEMP	MDC	MDC_DIM_DEGC
tcpCO2		NM	151756	MDC_CO2_T CUT	MDC	MDC_DIM_MMHG
tcpO2		NM	151760	MDC_O2_T CUT	MDC	MDC_DIM_MMHG
Oxygen Saturation		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
Power		NM	215	MNDRY_POWER_T CUT	99MNDRY	MDC_DIM_MILLI_WATT
Pulse Rate		NM	149530	MDC_PULS_OXIM_PULS_RATE	MDC	MDC_DIM_BEAT_PER_MIN
NMT	1.16.0.0		70022	MNDRY_DEV_NMT_VMD	99MNDRY	
NMT	1.16.1.0		70023	MNDRY_DEV_NMT_CHAN	99MNDRY	
T2%		NM	333	MNDRY_NMT_SECOND_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
Single		NM	201	MNDRY_NMT_ST_RATIO	99MNDRY	MDC_DIM_PERCENT
PTC		NM	206	MNDRY_NMT_POST_TETANIC_COUNT	99MNDRY	MDC_DIM_DIMLESS
TOF-Count		NM	200	MNDRY_NMT_TOF_COUNT	99MNDRY	MDC_DIM_DIMLESS
TOF-Ratio		NM	199	MNDRY_NMT_TOF_RATIO	99MNDRY	MDC_DIM_PERCENT
T1%		NM	205	MNDRY_NMT_FIRST_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
Tskin		NM	150388	MDC_TEMP_SKIN	MDC	MDC_DIM_DEGC
T4%		NM	335	MNDRY_NMT_FORTH_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
T3%		NM	334	MNDRY_NMT_THIRD_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Electroencephalogram	1.17.0.0		69810	MDC_DEV_EEG_VMD	MDC	
Electroencephalogram, 1	1.17.1.0		69811	MDC_DEV_EEG_CHAN	MDC	
MF1, Channel 1		NM	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	MDC_DIM_HZ
SEF1, Channel 1		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
EEG_Median1		NM	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	MDC_DIM_HZ
EEG_STI1		NM	154896	MDC_EEG_PAROX_CRTX_TRANS_SHARP	MDC	MDC_DIM_PERCENT
SR1, Channel 1		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
EEG_ThetaRel1		NM	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	MDC_DIM_PERCENT
EEG_BetaRel1		NM	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	MDC_DIM_PERCENT
EEG_Power1		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
EEG_EdgeFreq1		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
EEG_DeltaRel1		NM	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	MDC_DIM_PERCENT
EEG_EMGIndex		NM	153640	MDC_EMG_ELEC_POTL_MUSC	MDC	MDC_DIM_DECIBEL
EEG_NI		NM	530	MNDRY_EEG_NARCOTREND_INDEX	99MNDRY	MDC_DIM_DIMLESS
EEG_BSRShort1		NM	533	MNDRY_EEG_PAROX_CRTX_BURST_SUPPRN_RATIO_SHORT	99MNDRY	MDC_DIM_PERCENT
EEG_BSRMedium1		NM	534	MNDRY_EEG_PAROX_CRTX_BURST_SUPPRN_RATIO_MEDIUM	99MNDRY	MDC_DIM_PERCENT
EEG_AlphaRel1		NM	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	MDC_DIM_PERCENT
EEG_Imp1a		NM	525	MNDRY_EEG_IMPED_A	99MNDRY	MDC_DIM_KILLO_OHM
EEG_Imp1b		NM	526	MNDRY_EEG_IMPED_B	99MNDRY	MDC_DIM_KILLO_OHM
Delta1, Channel 1		NM	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	MDC_DIM_PERCENT
EEG_ImpRef		NM	527	MNDRY_EEG_IMPED_REF	99MNDRY	MDC_DIM_KILLO_OHM
Beta1, Channel 1		NM	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	MDC_DIM_PERCENT
Alpha1, Channel 1		NM	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	MDC_DIM_PERCENT
Theta1, Channel 1		NM	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	MDC_DIM_PERCENT
EMG1, Channel 1		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
TP1, Channel 1		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
PPF1, Channel 1		NM	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	MDC_DIM_HZ
Electroencephalogram, 2	1.17.2.0		69811	MDC_DEV_EEG_CHAN	MDC	
EEG_Imp2b		NM	526	MNDRY_EEG_IMPED_B	99MNDRY	MDC_DIM_KILLO_OHM
EEG_Imp2a		NM	525	MNDRY_EEG_IMPED_A	99MNDRY	MDC_DIM_KILLO_OHM
EEG_STI2		NM	154896	MDC_EEG_PAROX_CRTX_TRANS_SHARP	MDC	MDC_DIM_PERCENT
EEG_BSRShort2		NM	533	MNDRY_EEG_PAROX_CRTX_BURST_SUPPRN_RATIO_SHORT	99MNDRY	MDC_DIM_PERCENT
EEG_EdgeFreq2		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
EEG_Median2		NM	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	MDC_DIM_HZ
EEG_BSRMedium2		NM	534	MNDRY_EEG_PAROX_CRTX_BURST_SUPPRN_RATIO_MEDIUM	99MNDRY	MDC_DIM_PERCENT
Delta2, Channel 2		NM	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	MDC_DIM_PERCENT
EMG2, Channel 2		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
TP2, Channel 2		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
PPF2, Channel 2		NM	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	MDC_DIM_HZ
MF2, Channel 2		NM	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	MDC_DIM_HZ
SEF2, Channel 2		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
EEG_BetaRel2		NM	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	MDC_DIM_PERCENT
SR2, Channel 2		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
EEG_AlphaRel2		NM	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	MDC_DIM_PERCENT
EEG_ThetaRel2		NM	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	MDC_DIM_PERCENT
EEG_DeltaRel2		NM	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	MDC_DIM_PERCENT
Theta2, Channel 2		NM	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	MDC_DIM_PERCENT
EEG_Power2		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
Alpha2, Channel 2		NM	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	MDC_DIM_PERCENT
Beta2, Channel 2		NM	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Electroencephalogram, 3	1.17.3.0		69811	MDC_DEV_EEG_CHAN	MDC	
Theta3, Channel 3		NM	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	MDC_DIM_PERCENT
Delta3, Channel 3		NM	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	MDC_DIM_PERCENT
EMG3, Channel 3		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
TP3, Channel 3		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
PPF3, Channel 3		NM	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	MDC_DIM_HZ
MF3, Channel 3		NM	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	MDC_DIM_HZ
SEF3, Channel 3		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
SR3, Channel 3		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
Beta3, Channel 3		NM	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	MDC_DIM_PERCENT
Alpha3, Channel 3		NM	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	MDC_DIM_PERCENT
Electroencephalogram, 4	1.17.4.0		69811	MDC_DEV_EEG_CHAN	MDC	
SR4, Channel 4		NM	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	MDC_DIM_PERCENT
Beta4, Channel 4		NM	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	MDC_DIM_PERCENT
Alpha4, Channel 4		NM	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	MDC_DIM_PERCENT
Theta4, Channel 4		NM	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	MDC_DIM_PERCENT
Delta4, Channel 4		NM	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	MDC_DIM_PERCENT
EMG4, Channel 4		NM	153640	MDC_EMG_ELEC_POTL_MUSCL	MDC	MDC_DIM_DECIBEL
TP4, Channel 4		NM	154040	MDC_EEG_PWR_SPEC_TOT	MDC	MDC_DIM_DECIBEL
PPF4, Channel 4		NM	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	MDC_DIM_HZ
MF4, Channel 4		NM	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	MDC_DIM_HZ
SEF4, Channel 4		NM	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	MDC_DIM_HZ
PPV	1.18.0.0		70026	MNDRY_DEV_PPV_VMD	99MNDRY	
PPV	1.18.1.0		70025	MNDRY_DEV_PPV_CHAN	99MNDRY	
PPV		NM	153	MNDRY_PRESS_PULSE_VARIATION	99MNDRY	MDC_DIM_PERCENT
PPV Source		CNE	241	MNDRY_PRESS_PULSE_VARIATION_SOURCE	99MNDRY	MDC_DIM_DIMLESS
Environmental	1.23.0.0		70046	MNDRY_DEV_ENVIRONMENTAL_VMD	99MNDRY	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Environmental	1.23.1.0		70047	MNDRY_DEV_ENVIRONMENTAL_CHAN	99MNDRY	
ST-Ratio		NM	201	MNDRY_NMT_ST_RATIO	99MNDRY	MDC_DIM_PERCENT
ST-Count		NM	202	MNDRY_NMT_ST_COUNT	99MNDRY	MDC_DIM_DIMLESS
DBS-Ratio		NM	203	MNDRY_NMT_DBS_RATIO	99MNDRY	MDC_DIM_PERCENT
DBS-Count		NM	204	MNDRY_NMT_DBS_COUNT	99MNDRY	MDC_DIM_DIMLESS
PTC		NM	206	MNDRY_NMT_POST_TETANIC_COUNT	99MNDRY	MDC_DIM_DIMLESS
TOF-Ratio		NM	199	MNDRY_NMT_TOF_RATIO	99MNDRY	MDC_DIM_PERCENT
T1%		NM	205	MNDRY_NMT_FIRST_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
TOF-Count		NM	200	MNDRY_NMT_TOF_COUNT	99MNDRY	MDC_DIM_DIMLESS
T2%		NM	333	MNDRY_NMT_SECOND_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
T4%		NM	335	MNDRY_NMT_FORTH_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
T3%		NM	334	MNDRY_NMT_THIRD_TWITCH_RATIO	99MNDRY	MDC_DIM_PERCENT
Regional Oximetry	1.24.0.0		70050	MNDRY_DEV_REGIONAL_OXIMETRY_VMD	99MNDRY	
Regional Oximetry, 1	1.24.1.0		70051	MNDRY_DEV_REGIONAL_OXIMETRY_CHAN	99MNDRY	
rSO2 SSI 1		NM	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	MDC_DIM_PERCENT
rSO2 AUC 1		NM	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	MNDRY_DIM_MIN_PERCENT
rSO2 Change % 1		NM	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	MDC_DIM_PERCENT
rSO2 1		NM	116	MNDRY_SAT_O2_REG	99MNDRY	MDC_DIM_PERCENT
rSO2 AVG 1		NM	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	MDC_DIM_PERCENT
rSO2 Baseline 1		NM	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	MDC_DIM_PERCENT
Regional Oximetry, 2	1.24.2.0		70051	MNDRY_DEV_REGIONAL_OXIMETRY_CHAN	99MNDRY	
rSO2 SSI 2		NM	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	MDC_DIM_PERCENT
rSO2 AVG 2		NM	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	MDC_DIM_PERCENT
rSO2 AUC 2		NM	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	MNDRY_DIM_MIN_PERCENT
rSO2 Change % 2		NM	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	MDC_DIM_PERCENT
rSO2 Baseline 2		NM	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	MDC_DIM_PERCENT
rSO2 2		NM	116	MNDRY_SAT_O2_REG	99MNDRY	MDC_DIM_PERCENT
Regional Oximetry, 3	1.24.3.0		70051	MNDRY_DEV_REGIONAL_OXIMETRY_CHAN	99MNDRY	

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
rSO2 Baseline 3		NM	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	MDC_DIM_PERCENT
rSO2 3		NM	116	MNDRY_SAT_O2_REG	99MNDRY	MDC_DIM_PERCENT
rSO2 SSI 3		NM	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	MDC_DIM_PERCENT
rSO2 AVG 3		NM	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	MDC_DIM_PERCENT
rSO2 AUC 3		NM	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	MNDRY_DIM_MIN_PERCENT
rSO2 Change % 3		NM	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	MDC_DIM_PERCENT
Regional Oximetry, 4	1.24.4.0		70051	MNDRY_DEV_REGIONAL_OXIMETRY_CHAN	99MNDRY	
rSO2 SSI 4		NM	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	MDC_DIM_PERCENT
rSO2 AVG 4		NM	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	MDC_DIM_PERCENT
rSO2 AUC 4		NM	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	MNDRY_DIM_MIN_PERCENT
rSO2 Change % 4		NM	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	MDC_DIM_PERCENT
rSO2 Baseline 4		NM	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	MDC_DIM_PERCENT
rSO2 4		NM	116	MNDRY_SAT_O2_REG	99MNDRY	MDC_DIM_PERCENT
Manual	1.26.0.0		70058	MNDRY_DEV_MANUAL_VMD	99MNDRY	
Manual	1.26.1.0		70059	MNDRY_DEV_MANUAL_CHAN	99MNDRY	
Spot Temperature		NM	283	99MNDRY_TEMP_MANUAL	99MNDRY	MDC_DIM_FAHR
BeneLink Module	1.27.0.0		70062	MNDRY_DEV_BENELINK_VMD	99MNDRY	
BeneLink Module	1.27.1.0		70063	MNDRY_DEV_BENELINK_CHAN	99MNDRY	
Continuous Cardiac Index		NM	378	MNDRY_OUTPUT_CARD_INDEX_CTS	99MNDRY	MDC_DIM_L_PER_MIN_PER_M_S Q
Continuous Cardiac Output		NM	150492	MDC_OUTPUT_CARD_CTS	MDC	MDC_DIM_L_PER_MIN
Capnography	1.32.0.0		70682	MDC_DEV_CO2_VMD	MDC	
Capnography	1.32.1.0		70683	MDC_DEV_CO2_CHAN	MDC	
VO2		NM	389	MNDRY_VOL_O2_CONSUMP_BREATH	99MNDRY	MDC_DIM_MILLI_L
Vdphy/Vt		NM	151836	MDC_RATIO_AWAY_DEADSP_TIDAL	MDC	MDC_DIM_PERCENT
Vdphy		NM	151872	MDC_VOL_AWAY_DEADSP	MDC	MDC_DIM_MILLI_L
Vdalv/Vt		NM	384	MNDRY_RATIO_ALV_DEADSP_TIDAL	99MNDRY	MDC_DIM_PERCENT
Vdalv		NM	383	MNDRY_VOL_ALV_DEADSP	99MNDRY	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Vdaw/Vt		NM	386	MNDRY_RATIO_ANATOM_DEADSP_TIDAL	99MNDRY	MDC_DIM_PERCENT
Vdaw		NM	385	MNDRY_VOL_ANATOM_DEADSP	99MNDRY	MDC_DIM_MILLI_L
MValv		NM	153240	MDC_VENT_VOL_MINUTE_LUNG_ALV	MDC	MDC_DIM_L_PER_MIN
Vtalv		NM	390	MNDRY_VOL_ALV_TIDAL	99MNDRY	MDC_DIM_MILLI_L
SlopeCO2, S(III)		NM	153320	MDC_CONC_AWAY_CO2_EXP_PLATEAU_ALV_SLOPE	MDC	MDC_DIM_VOL_PERCENT_PER_L
FeCO2		NM	391	MNDRY_CONC_AWAY_MIXED_CO2_EXP	99MNDRY	MDC_DIM_PERCENT
MVCO2		NM	151776	MDC_FLOW_CO2_PROD_RESP	MDC	MDC_DIM_MILLI_L_PER_MIN
VCO2		NM	382	MNDRY_VOL_CO2_PROD_RESP_BREATH	99MNDRY	MDC_DIM_MILLI_L
EE		NM	152812	MDC_RESP_EXPENDED_ENERGY	MDC	MDC_DIM_KILO_CAL_PER_DAY
RQ		NM	151828	MDC_QUO_RESP	MDC	MDC_DIM_DIMLESS
MVO2		NM	152420	MDC_FLOW_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
Scoring Systems	1.33.0.0		70078	MNDRY_DEV_SCORE_VMD	99MNDRY	
EWS	1.33.1.0		70079	MNDRY_DEV_SCORE_CHAN	99MNDRY	
EWS_TOTAL_SCORE		NM	439	MNDRY_EWS_SCORE_TOTAL	99MNDRY	MDC_DIM_DIMLESS
EWS_PATIENT_RESP_FAILURE		CNE	539	MNDRY_RESP_FAILURE_HYPERCAPNIC	99MNDRY	MDC_DIM_DIMLESS
EWS_CURRENT_SYSTEM_NAME		ST	545	MNDRY_EWS_SYSTEM_NAME	99MNDRY	MDC_DIM_DIMLESS
EWS_WARNING_ACTION		ST	546	MNDRY_EWS_WARNING_ACTION	99MNDRY	MDC_DIM_DIMLESS
EWS_RR		NM	151562	MDC_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
EWS_SCORE_RR		NM	282	MNDRY_EWS_SCORE_RR	99MNDRY	MDC_DIM_DIMLESS
EWS_SPO2		NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	MDC_DIM_PERCENT
EWS_SCORE_SPO2		NM	272	MNDRY_EWS_SCORE_SPO2	99MNDRY	MDC_DIM_DIMLESS
EWS_TEMP		NM	283	MNDRY_EWS_TEMP	99MNDRY	MDC_DIM_FAHR
EWS_SCORE_TEMP		NM	273	MNDRY_EWS_SCORE_TEMP	99MNDRY	MDC_DIM_DIMLESS
EWS_BP_SYS		NM	150021	MDC_PRESS_BLD_NONINV_SYS	MDC	MDC_DIM_MMHG
EWS_BP_SCORE_SYS		NM	274	MNDRY_EWS_SCORE_BP_SYS	99MNDRY	MDC_DIM_DIMLESS
EWS_BP_DIA		NM	150022	MDC_PRESS_BLD_NONINV_DIA	MDC	MDC_DIM_MMHG

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
EWS_BP_SCORE_DIA		NM	275	MNDRY_EWS_SCORE_BP_DIA	99MNDRY	MDC_DIM_DIMLESS
EWS_BP_MEAN		NM	150023	MDC_PRESS_BLD_NONINV_MEAN	MDC	MDC_DIM_MMHG
EWS_BP_SCORE_MEAN		NM	276	MNDRY_EWS_SCORE_BP_MEAN	99MNDRY	MDC_DIM_DIMLESS
EWS_HR		NM	147842	MDC_ECG_HEART_RATE	MDC	MDC_DIM_BEAT_PER_MIN
EWS_SCORE_HR		NM	277	MNDRY_EWS_SCORE_HR	99MNDRY	MDC_DIM_DIMLESS
EWS_LOC_AVPU		CNE	248	MNDRY_EWS_LOC_AVPU	99MNDRY	MDC_DIM_DIMLESS
EWS_SCORE_LOC_AVPU		NM	431	MNDRY_EWS_SCORE_LOC_AVPU	99MNDRY	MDC_DIM_DIMLESS
EWS_LOC_GCS		NM	153728	MDC_SCORE_GLAS_COMA	MDC	MDC_DIM_DIMLESS
EWS_SCORE_LOC_GCS		NM	432	MNDRY_EWS_SCORE_LOC_GCS	99MNDRY	MDC_DIM_DIMLESS
EWS_O2_SUPPLY		CNE	249	MNDRY_O2_SUPPLY	99MNDRY	MDC_DIM_DIMLESS
EWS_SCORE_O2_SUPPLY		NM	261	MNDRY_EWS_SCORE_O2_SUPPLY	99MNDRY	MDC_DIM_DIMLESS
EWS_BLOOD_SUGER		NM	250	MNDRY_EWS_BLOOD_SUGER	99MNDRY	MDC_DIM_MILLI_G_PER_DL
EWS_SCORE_BLOOD_SUGER		NM	262	MNDRY_EWS_SCORE_BLOOD_SUGER	99MNDRY	MDC_DIM_DIMLESS
EWS_URINE_VOL		NM	251	MNDRY_EWS_URINE_VOL	99MNDRY	MDC_DIM_MILLI_L_PER_HR
EWS_SCORE_URINE_VOL		NM	263	MNDRY_EWS_SCORE_URINE_VOL	99MNDRY	MDC_DIM_DIMLESS
EWS_CATHETER		NM	252	MNDRY_EWS_CATHETER	99MNDRY	MDC_DIM_DIMLESS
EWS_SCORE_CATHETER		CNE	264	MNDRY_EWS_SCORE_CATHETER	99MNDRY	MDC_DIM_DIMLESS
EWS_PAIN_INDEX		NM	253	MNDRY_EWS_PAIN_INDEX	99MNDRY	MDC_DIM_DIMLESS
EWS_SCORE_PAIN_SCORE		NM	265	MNDRY_EWS_SCORE_PAIN_SCORE	99MNDRY	MDC_DIM_DIMLESS
EWS_PAIN_CLASS		NM	254	MNDRY_EWS_PAIN_CLASS	99MNDRY	MDC_DIM_DIMLESS
EWS_SCORE_PAIN_CLASSES		CNE	266	MNDRY_EWS_SCORE_PAIN_CLASS	99MNDRY	MDC_DIM_DIMLESS
EWS_ETCO2		NM	151708	MDC_CONC_AWAY_CO2_ET	MDC	MDC_DIM_MMHG
EWS_SCORE_ETCO2		NM	436	MNDRY_EWS_SCORE_ETCO2	99MNDRY	MDC_DIM_DIMLESS
EWS_FIO2		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
EWS_SCORE_FIO2		NM	267	MNDRY_EWS_SCORE_FIO2	99MNDRY	MDC_DIM_DIMLESS
EWS_AIRWAY_STATUS		CNE	256	MNDRY_EWS_AIRWAY_STATUS	99MNDRY	MDC_DIM_DIMLESS

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
EWS_SCORE_AIRWAY_ST ATUS		NM	268	MNDRY_EWS_SCORE_AIRWAY_STATUS	99MNDRY	MDC_DIM_DIMLESS
EWS_CUSTIOM1_NAME		NM	257	MNDRY_CUSTOM_PARAM1_	99MNDRY	MNDRY_DIM_CUSTOM_UNIT1
EWS_CUSTIOM2_NAME		NM	258	MNDRY_CUSTOM_PARAM2_	99MNDRY	MNDRY_DIM_CUSTOM_UNIT2
EWS_CUSTIOM3_NAME		NM	259	MNDRY_CUSTOM_PARAM3_	99MNDRY	MNDRY_DIM_CUSTOM_UNIT3
EWS_CUSTOM1_SCORE		NM	269	MNDRY_CUSTOMPARAM1_	99MNDRY	MDC_DIM_DIMLESS
EWS_CUSTOM2_SCORE		NM	270	MNDRY_CUSTOMPARAM2_	99MNDRY	MDC_DIM_DIMLESS
EWS_CUSTOM3_SCORE		NM	271	MNDRY_CUSTOMPARAM3_	99MNDRY	MDC_DIM_DIMLESS
BoA	1.33.4.0		70079	MNDRY_DEV_SCORE_CHAN	99MNDRY	
Total score of BoA		NM	466	MNDRY_BOA_SCORE_TOTAL	99MNDRY	MDC_DIM_DIMLESS
GCS	1.33.5.0		70079	MNDRY_DEV_SCORE_CHAN	99MNDRY	
GCS_SCORE_VERBAL_RE SPOND		NM	153732	MDC_SCORE_SUBSC_VERBAL_GLAS_COMA	MDC	MDC_DIM_DIMLESS
GCS_SCORE_MOTION_R ESPOND		NM	153731	MDC_SCORE_MOTOR_SUBSC_GLAS_COMA	MDC	MDC_DIM_DIMLESS
GCS_TOTAL_SCORE		NM	153728	MDC_SCORE_GLAS_COMA	MDC	MDC_DIM_DIMLESS
GCS_SCORE_EYE_RESPO ND		NM	153730	MDC_SCORE_EYE_SUBSC_GLAS_COMA	MDC	MDC_DIM_DIMLESS
CCHD	1.33.6.0		70079	MNDRY_DEV_SCORE_CHAN	99MNDRY	
CCHD_Screening_3_Puls _Oxim_Sat_O2_Diff		NM	488	MNDRY_CCHD_SCREENING_3_PULS_OXIM_SAT_O2 _DIFF	99MNDRY	MDC_DIM_PERCENT
CCHD_Test_Result		CNE	489	MNDRY_CCHD_TEST_RESULT	99MNDRY	MDC_DIM_DIMLESS
CCHD_Screening_1_Puls _Oxim_Sat_O2_Hand		NM	480	MNDRY_CCHD_SCREENING_1_PULS_OXIM_SAT_O2 _HAND	99MNDRY	MDC_DIM_PERCENT
CCHD_Screening_1_Puls _Oxim_Sat_O2_Foot		NM	481	MNDRY_CCHD_SCREENING_1_PULS_OXIM_SAT_O2 _FOOT	99MNDRY	MDC_DIM_PERCENT
CCHD_Screening_1_Puls _Oxim_Sat_O2_Diff		NM	482	MNDRY_CCHD_SCREENING_1_PULS_OXIM_SAT_O2 _DIFF	99MNDRY	MDC_DIM_PERCENT
CCHD_Screening_2_Puls _Oxim_Sat_O2_Hand		NM	483	MNDRY_CCHD_SCREENING_2_PULS_OXIM_SAT_O2 _HAND	99MNDRY	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
CCHD_Screening_2_Puls_Oxim_Sat_O2_Foot		NM	484	MNDRY_CCHD_SCREENING_2_PULS_OXIM_SAT_O2_FOOT	99MNDRY	MDC_DIM_PERCENT
CCHD_Screening_2_Puls_Oxim_Sat_O2_Diff		NM	485	MNDRY_CCHD_SCREENING_2_PULS_OXIM_SAT_O2_DIFF	99MNDRY	MDC_DIM_PERCENT
CCHD_Screening_3_Puls_Oxim_Sat_O2_Hand		NM	486	MNDRY_CCHD_SCREENING_3_PULS_OXIM_SAT_O2_HAND	99MNDRY	MDC_DIM_PERCENT
CCHD_Screening_3_Puls_Oxim_Sat_O2_Foot		NM	487	MNDRY_CCHD_SCREENING_3_PULS_OXIM_SAT_O2_FOOT	99MNDRY	MDC_DIM_PERCENT
O2 Calculations	1.35.0.0		70086	MNDRY_DEV_O2_CALCULATIONS_VMD	99MNDRY	
O2 Calculations	1.35.1.0		70087	MNDRY_DEV_O2_CALCULATIONS_CHAN	99MNDRY	
Arteriovenous Oxygen Content Difference		NM	152844	MDC_CONC_PO2_ART_VEN_DIFF	MDC	MDC_DIM_MILLI_L_PER_L
Oxygen Extraction Ratio		NM	490	MNDRY_SAT_O2_EXTRATION_RATIO	99MNDRY	MDC_DIM_PERCENT
Cardiac Output, Calculated		NM	497	MNDRY_OUTPUT_CARD_CALC	99MNDRY	MDC_DIM_L_PER_MIN
Oxygen Consumption, Calculated		NM	498	MNDRY_SAT_O2_CONSUMP_CALC	99MNDRY	MDC_DIM_MILLI_L_PER_MIN
Arterial oxygen content		NM	494	MNDRY_CONT_O2_ART	99MNDRY	MDC_DIM_MILLI_L_PER_L
Height		NM	188740	MDC_LEN_BODY_ACTUAL	MDC	MDC_DIM_CENTI_M
Weight		NM	188736	MDC_MASS_BODY_ACTUAL	MDC	MDC_DIM_KILO_G
Body Surface Area		NM	188744	MDC_AREA_BODY_SURF_ACTUAL	MDC	MDC_DIM_SQ_M
Oxygen Delivery (Oxygen Transport)		NM	138	MNDRY_SAT_O2_DELIV	99MNDRY	MDC_DIM_MILLI_L_PER_MIN
Oxygen Delivery Index (Oxygen Transport Index)		NM	150668	MDC_SAT_O2_DELIV_INDEX	MDC	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
Cardiac output		NM	150276	MDC_OUTPUT_CARD	MDC	MDC_DIM_L_PER_MIN
Venous oxygen content		NM	495	MNDRY_CONT_O2_VEN	99MNDRY	MDC_DIM_MILLI_L_PER_L
Arterial oxygen saturation		NM	150324	MDC_SAT_O2_ART	MDC	MDC_DIM_PERCENT
Venous oxygen saturation		NM	150332	MDC_SAT_O2_VEN	MDC	MDC_DIM_PERCENT

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Hemoglobin		NM	160120	MDC_CONC_HB_GEN	MDC	MDC_DIM_G_PER_DL
Partial pressure of oxygen in the arteries		NM	159756	MDC_CONC_PO2_ART	MDC	MDC_DIM_MMHG
Partial pressure of oxygen in the alveoli		NM	491	MNDRY_CONC_O2_ALV	99MNDRY	MDC_DIM_MMHG
Partial pressure of oxygen in venous blood		NM	159804	MDC_CONC_PO2_VEN	MDC	MDC_DIM_MMHG
Partial pressure of carbon dioxide in the arteries		NM	159752	MDC_CONC_PCO2_ART	MDC	MDC_DIM_MMHG
Alveolar-arterial oxygen difference		NM	492	MNDRY_ALV_ART_GRADIENT	99MNDRY	MDC_DIM_MMHG
Percentage fraction of inspired oxygen		NM	152196	MDC_CONC_AWAY_O2_INSP	MDC	MDC_DIM_PERCENT
Capillary oxygen content		NM	496	MNDRY_CONT_O2_CAP	99MNDRY	MDC_DIM_MILLI_L_PER_L
Venous admixture (Blood Shunt Fraction)		NM	152840	MDC_BLD_SHUNT_FRACTION	MDC	MDC_DIM_PERCENT
Respiration quotient		NM	151828	MDC_QUO_RESP	MDC	MDC_DIM_DIMLESS
Atmospheric pressure		NM	152836	MDC_PRESS_AIR_AMBIENT	MDC	MDC_DIM_MMHG
Oxygen Consumption		NM	150272	MDC_SAT_O2_CONSUMP	MDC	MDC_DIM_MILLI_L_PER_MIN
Oxygen Consumption Index		NM	140	MNDRY_SAT_O2_CONSUMP_INDEX	99MNDRY	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
Pump	1.37.0.0		69970	MDC_DEV_PUMP_VMD	MDC	
Pump, 1	1.37.1.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump0_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump0_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump0_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump0_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump0_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump0_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump0_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump0_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump0_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump, 2	1.37.2.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump1_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump1_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump1_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump1_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump1_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump1_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump1_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump1_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump1_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump, 3	1.37.3.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump2_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump2_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump2_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump2_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump2_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump2_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump2_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump2_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump2_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump, 4	1.37.4.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump3_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump3_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump3_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump3_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump3_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump3_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump3_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump3_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump3_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump, 5	1.37.5.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump4_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump4_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump4_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump4_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump4_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump4_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump4_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump4_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump4_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump, 6	1.37.6.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump5_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump5_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump5_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump5_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump5_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump5_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump5_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump5_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump5_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump, 7	1.37.7.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump6_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump6_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump6_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump6_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump6_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump6_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump6_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump6_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump6_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump, 8	1.37.8.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump7_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump7_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump7_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump7_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump7_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump7_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump7_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump7_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump7_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump, 9	1.37.9.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump8_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump8_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump8_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump8_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump8_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump8_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump8_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump8_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump8_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 10	1.37.10.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump9_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump9_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump9_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump9_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump9_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump9_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump9_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump9_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump9_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 11	1.37.11.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump10_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump10_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump10_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump10_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump10_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump10_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump10_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump10_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump10_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 12	1.37.12.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump11_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump11_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump11_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump11_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump11_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump11_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump11_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump11_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump11_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 13	1.37.13.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump12_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump12_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump12_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump12_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump12_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump12_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump12_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump12_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump12_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump, 14	1.37.14.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump13_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump13_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump13_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump13_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump13_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump13_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump13_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump13_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump13_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump, 15	1.37.15.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump14_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump14_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump14_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump14_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump14_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump14_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump14_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump14_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump14_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump, 16	1.37.16.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump15_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump15_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump15_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump15_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump15_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump15_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump15_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump15_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump15_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump, 17	1.37.17.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump16_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump16_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump16_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump16_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump16_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump16_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump16_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump16_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump16_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 18	1.37.18.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump17_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump17_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump17_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump17_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump17_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump17_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump17_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump17_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump17_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump, 19	1.37.19.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump18_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump18_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump18_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump18_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump18_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump18_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump18_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump18_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump18_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump, 20	1.37.20.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump19_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump19_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump19_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump19_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump19_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump19_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump19_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump19_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump19_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 21	1.37.21.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump20_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump20_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump20_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump20_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump20_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump20_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump20_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump20_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump20_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump, 22	1.37.22.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump21_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump21_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump21_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump21_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump21_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump21_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump21_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump21_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump21_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump, 23	1.37.23.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump22_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump22_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump22_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump22_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump22_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump22_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN

Observation Type	Containment	OBX-2	OBX-3			Units(OBX-6.2)
			OBX-3.1	OBX-3.2	OBX-3.3	
Pump22_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump22_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump22_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump, 24	1.37.24.0		69971	MDC_DEV_PUMP_CHAN	99MNDRY	
Pump23_Fluid delivery time		NM	157772	MDC_TIME_PD_FLUID_DELIV_SINCE_START	MDC	MDC_DIM_MIN
Pump23_Fluid pressure		NM	157836	MDC_PRESS_FLUID_MEAS	MDC	MDC_DIM_MMHG
Pump23_Drug Name		ST	184468	MDC_DRUG_NAME_POINTER	MDC	MDC_DIM_DIMLESS
Pump23_Total delivered fluid volume		NM	157888	MDC_VOL_FLUID_DELIV_TOTAL_SET	MDC	MDC_DIM_MILLI_L
Pump23_Fluid delivery rate		NM	157784	MDC_FLOW_FLUID_PUMP	MDC	MDC_DIM_MILLI_L_PER_HR
Pump23_Bolus Volume		NM	157860	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Pump23_Infusion time remaining		NM	157916	MDC_TIME_PD_REMAIN	MDC	MDC_DIM_MIN
Pump23_Volume remaining to be infused		NM	157872	MDC_VOL_FLUID_TBI_REMAIN	MDC	MDC_DIM_MILLI_L
Pump23_Infused volume		NM	157864	MDC_VOL_FLUID_BOLUS	MDC	MDC_DIM_MILLI_L
Acoustic Respiration	1.38.0.0		70094	MNDRY_DEV_ACOUSTIC_RESPIRATION_VMD	99MNDRY	
Acoustic Respiration	1.38.1.0		70095	MNDRY_DEV_ACOUSTIC_RESPIRATION_CHAN	99MNDRY	
Acoustic Respiration Rate		NM	151650	MDC_ACOUSTIC_RESP_RATE	MDC	MDC_DIM_RESP_PER_MIN
Document Sharing	1.39.0.0		70098	MNDRY_DEV_DOC_SHARING_VMD	99MNDRY	
Document Sharing	1.39.1.0		70099	MNDRY_DEV_DOC_SHARING_CHAN	99MNDRY	
12Lead_ECG		ST	535	MNDRY_DOCUMENT_12LEAD_ECG_INTERP	99MNDRY	MDC_DIM_DIMLESS
Waveform		ST	536	MNDRY_DOCUMENT_WAVEFORM	99MNDRY	MDC_DIM_DIMLESS
Historical		ST	537	MNDRY_DOCUMENT_HISTORICAL	99MNDRY	MDC_DIM_DIMLESS
Report		ST	538	MNDRY_DOCUMENT_REPORT	99MNDRY	MDC_DIM_DIMLESS

OBX-4 contains the containment tree for the value. For the observation data, OBX-4 follows the standard IHE format of M.V.C.I, where M = System, V = Virtual Device, V = Channel, I = Metric. The values are defined in the device's containment tree for its parameters. See section 5.8 Containment Tree for details and the eGateway's defined containment tree.

5.2 Waveforms

Mindray devices shall use the IHE Rosetta Terminology for waveform codes. Waveform codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system.

The following table contains the standard IHE Rosetta Terminology waveform codes currently in use by Mindray systems.

Table 103 Waveform codes

Waveform	Data Type			Units of Measure	Location
	Code	Text	Coding System		
CO ₂ , Airway	151700	MDC_CONC_AWAY_CO2	MDC	mmHg, kPa, %	
O ₂ , Airway	151908	MDC_CONC_AWAY_O2	MDC	mmHg, kPa, %	
N ₂ O, Airway	152048	MDC_CONC_AWAY_N2O	MDC	mmHg, kPa, %	
Agent, Airway	152456	MDC_CONC_AWAY_AGENT	MDC	mmHg, kPa, %	
Desflurane, Airway	152024	MDC_CONC_AWAY_DESFL	MDC	mmHg, kPa, %	
Enflurane, Airway	152028	MDC_CONC_AWAY_ENFL	MDC	mmHg, kPa, %	
Halothane, Airway	152032	MDC_CONC_AWAY_HALOTH	MDC	mmHg, kPa, %	
Sevoflurane, Airway	152036	MDC_CONC_AWAY_SEVOFL	MDC	mmHg, kPa, %	
Isoflurane, Airway	152040	MDC_CONC_AWAY_ISOFL	MDC	mmHg, kPa, %	
Pressure, Airway	151792	MDC_PRESS_AWAY	MDC	mmHg, kPa, %	
Flow, Airway	151764	MDC_FLOW_AWAY	MDC	mmHg, kPa, %	
Volume, Airway	152708	MDC_VOL_AWAY	MDC	mmHg, kPa, %	
ECG Lead I	131329	MDC_ECG_ELEC_POTL_I	MDC	mV	
ECG Lead II	131330	MDC_ECG_ELEC_POTL_II	MDC	mV	
ECG Lead III	131389	MDC_ECG_ELEC_POTL_III	MDC	mV	
ECG Lead aVL	131391	MDC_ECG_ELEC_POTL_AVL	MDC	mV	

Waveform	Data Type			Units of Measure	Location
	Code	Text	Coding System		
ECG Lead aVR	131390	MDC_ECG_ELEC_POTL_AVR	MDC	mV	
ECG Lead aVF	131392	MDC_ECG_ELEC_POTL_AVF	MDC	mV	
ECG Lead V	131395	MDC_ECG_ELEC_POTL_V	MDC	mV	
ECG Lead V1	131331	MDC_ECG_ELEC_POTL_V1	MDC	mV	
ECG Lead V2	131332	MDC_ECG_ELEC_POTL_V2	MDC	mV	
ECG Lead V3	131333	MDC_ECG_ELEC_POTL_V3	MDC	mV	
ECG Lead V4	131334	MDC_ECG_ELEC_POTL_V4	MDC	mV	
ECG Lead V5	131335	MDC_ECG_ELEC_POTL_V5	MDC	mV	
ECG Lead V6	131336	MDC_ECG_ELEC_POTL_V6	MDC	mV	
Transthoracic Impedance	151780	MDC_IMPED_TTHOR	MDC	mΩ	
Invasive Blood Pressure	150016	MDC_PRESS_BLD	MDC	mmHg	
Arterial Blood Pressure	150032	MDC_PRESS_BLD_ART	MDC	mmHg	
Umbilical Arterial Blood Pressure	150056	MDC_PRESS_BLD_ART_UMB	MDC	mmHg	
Left Ventricle Blood Pressure	150100	MDC_PRESS_BLD_VENT_LEFT	MDC	mmHg	
Pulmonary Arterial Blood Pressure	150044	MDC_PRESS_BLD_ART_PULM	MDC	mmHg	
Central Venous Blood Pressure	150084	MDC_PRESS_BLD_VEN_CENT	MDC	mmHg	
Intra Cranial Pressure	153608	MDC_PRESS_INTRA_CRAN	MDC	mmHg	
Left Atria Blood	150064	MDC_PRESS_BLD_ATR_LEFT	MDC	mmHg	

Waveform	Data Type			Units of Measure	Location
	Code	Text	Coding System		
Pressure					
Right Atria Blood Pressure	150068	MDC_PRESS_BLD_ATR_RIGHT	MDC	mmHg	
Aortic Blood Pressure	150028	MDC_PRESS_BLD_AORT	MDC	mmHg	
Brachial Arterial Blood Pressure	150680	MDC_PRESS_BLD_ART_BRACHIAL	MDC	mmHg	
Femoral Arterial Blood Pressure	150648	MDC_PRESS_BLD_ART_FEMORAL	MDC	mmHg	
Umbilical Venous Blood Pressure	150088	MDC_PRESS_BLD_VEN_UMB	MDC	mmHg	
EEG	153900	MDC_EEG_ELEC_POTL_CRTX	MDC	mV	†
Pleth	150452	MDC_PULS_OXIM_PLETH	MDC		
SpO ₂ Signal Quality Index	160324	MDC_SPO2_SIGNAL_QUALITY_INDEX	MDC		

† Use a repeated OBX-20 to specify the two EEG leads that form the vector, for example for an EEG vector between F7 and F8:

|459825^MDC_HEAD_FRONT_L_7^MDC~459830 ^MDC_HEAD_FRONT_R_8^MDC|

The following table has the currently defined 99MNDRY locations

Table 104 Mindray Custom Waveform Codes

Waveform	Data Type			Units of Measure	Location
	Code	Text	Coding System		
Intra-abdominal	284	MNDRY_PRESS_INTRA_ABDOM	MNDRY99	mmHg	

Waveform	Data Type			Units of Measure	Location
	Code	Text	Coding System		
Pressure					
Impedance Cardiography Impedance	290	MNDRY_ICG_IMP	MNDRY99	mΩ	
BIS EEG	286	MNDRY_EEG_ELEC_POTL_BIS	MNDRY99	mV	
BIS EEG, Left Temporal	287	MNDRY_EEG_ELEC_POTL_BIS_TEMPR	MNDRY99	mV	Fore Head, Left
BIS EEG, Left Eye	288	MNDRY_EEG_ELEC_POTL_BIS_EYE	MNDRY99	mV	Fore Head, Left
BIS EEG, Right Temporal	287	MNDRY_EEG_ELEC_POTL_BIS_TEMPR	MNDRY99	mV	Fore Head, Right
BIS EEG, Right Eye	288	MNDRY_EEG_ELEC_POTL_BIS_EYE	MNDRY99	mV	Fore Head, Right

5.3 Snippet Waveforms

These waveform definitions are only used by the Waveform Snippet HL7 interface.

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
ECG Lead I	10000	ECG_I	ECG Lead I
ECG Lead II	10010	ECG_II	ECG Lead II
ECG Lead III	10020	ECG_III	ECG Lead III
ECG Lead aVR	10030	ECG_AVR	ECG Lead aVR
ECG Lead aVL	10040	ECG_AVL	ECG Lead aVL
ECG Lead aVF	10050	ECG_AVF	ECG Lead aVF
ECG Lead V1	10060	ECG_V1	ECG Lead V1
ECG Lead V2	10070	ECG_V2	ECG Lead V2
ECG Lead V3	10080	ECG_V3	ECG Lead V3

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
ECG Lead V4	10090	ECG_V4	ECG Lead V4
ECG Lead V5	10100	ECG_V5	ECG Lead V5
ECG Lead V6	10110	ECG_V6	ECG Lead V6
ECG Lead V/Vx	10120	ECG_V	1st Unspecified V lead from 5/6 lead cables.
ECG Lead V/Vy	11140	ECG_VB	2nd Unspecified V lead from a 6 lead cable.
Impedance Respiration	10130	IMP_RESP	Transthoracic Impedance Respiration from ECG cables
Pleth, Channel 1	10140	PLETH_CHAN_1	Pleth
Pleth, Channel 2	10141	PLETH_CHAN_2	Pleth B
CO ₂	10150	AIRWAY_CO2	CO ₂
O ₂	10160	AIRWAY_O2	O ₂
N ₂ O	10170	AIRWAY_N2O	N ₂ O
Anesthetic Agent	10180	AIRWAY_AGENT	Anesthetic Agent: Unidentified
Desflurane	10190	AIRWAY_AGENT_DES	Anesthetic Agent: Desflurane
Enflurane	10200	AIRWAY_AGENT_ENF	Anesthetic Agent: Enflurane
Halothane	10210	AIRWAY_AGENT_HAL	Anesthetic Agent: Halothane
Sevoflurane	10220	AIRWAY_AGENT_SEV	Anesthetic Agent: Sevoflurane
Isoflurane	10230	AIRWAY_AGENT_ISO	Anesthetic Agent: Isoflurane
IBP, Channel 1	11000	HEM_IBP_CHAN_1	Invasive Blood Pressure
ART, Channel 1	11010	HEM_IBP_ART_CHAN_1	Arterial Blood Pressure
UAP, Channel 1	11020	HEM_IBP_UA_CHAN_1	Umbilical Arterial Blood Pressure
LV, Channel 1	11030	HEM_IBP_LV_CHAN_1	Left Ventricle Blood Pressure
PA, Channel 1	11040	HEM_IBP_PA_CHAN_1	Pulmonary Arterial Blood Pressure
CVP, Channel 1	11050	HEM_IBP_CVP_CHAN_1	Central Venous Blood Pressure
ICP, Channel 1	11060	PRESS_ICP_CHAN_1	Intra Cranial Pressure
LA, Channel 1	11070	HEM_IBP_LA_CHAN_1	Left Atria Blood Pressure
RA, Channel 1	11080	HEM_IBP_RA_CHAN_1	Right Atria Blood Pressure
Ao, Channel 1	11090	HEM_IBP_AO_CHAN_1	Aortic Blood Pressure
BAP, Channel 1	11100	HEM_IBP_BAP_CHAN_1	Brachial Arterial Blood Pressure
FAP, Channel 1	11110	HEM_IBP_FAP_CHAN_1	Femoral Arterial Blood Pressure

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
UVP, Channel 1	11120	HEM_IBP_UVP_CHAN_1	Umbilical Venous Blood Pressure
IAP, Channel 1	11130	PRESS_IAP_CHAN_1	Intra-Abdominal Pressure
IBP, Channel 2	11001	HEM_IBP_CHAN_2	Invasive Blood Pressure
ART, Channel 2	11011	HEM_IBP_ART_CHAN_2	Arterial Blood Pressure
UA, Channel 2	11021	HEM_IBP_UA_CHAN_2	Umbilical Arterial Blood Pressure
LV, Channel 2	11031	HEM_IBP_LV_CHAN_2	Left Ventricle Blood Pressure
PA, Channel 2	11041	HEM_IBP_PA_CHAN_2	Pulmonary Arterial Blood Pressure
CVP, Channel 2	11051	HEM_IBP_CVP_CHAN_2	Central Venous Blood Pressure
ICP, Channel 2	11061	PRESS_ICP_CHAN_2	Intra Cranial Pressure
LA, Channel 2	11071	HEM_IBP_LA_CHAN_2	Left Atria Blood Pressure
RA, Channel 2	11081	HEM_IBP_RA_CHAN_2	Right Atria Blood Pressure
Ao, Channel 2	11091	HEM_IBP_AO_CHAN_2	Aortic Blood Pressure
BAP, Channel 2	11101	HEM_IBP_BAP_CHAN_2	Brachial Arterial Blood Pressure
FAP, Channel 2	11111	HEM_IBP_FAP_CHAN_2	Femoral Arterial Blood Pressure
UVP, Channel 2	11121	HEM_IBP_UVP_CHAN_2	Umbilical Venous Blood Pressure
IAP, Channel 2	11131	PRESS_IAP_CHAN_2	Intra-Abdominal Pressure
IBP, Channel 3	11002	HEM_IBP_CHAN_3	Invasive Blood Pressure
ART, Channel 3	11012	HEM_IBP_ART_CHAN_3	Arterial Blood Pressure
UA, Channel 3	11022	HEM_IBP_UA_CHAN_3	Umbilical Arterial Blood Pressure
LV, Channel 3	11032	HEM_IBP_LV_CHAN_3	Left Ventricle Blood Pressure
PA, Channel 3	11042	HEM_IBP_PA_CHAN_3	Pulmonary Arterial Blood Pressure
CVP, Channel 3	11052	HEM_IBP_CVP_CHAN_3	Central Venous Blood Pressure
ICP, Channel 3	11062	PRESS_ICP_CHAN_3	Intra Cranial Pressure
LA, Channel 3	11072	HEM_IBP_LA_CHAN_3	Left Atria Blood Pressure
RA, Channel 3	11082	HEM_IBP_RA_CHAN_3	Right Atria Blood Pressure
Ao, Channel 3	11092	HEM_IBP_AO_CHAN_3	Aortic Blood Pressure
BAP, Channel 3	11102	HEM_IBP_BAP_CHAN_3	Brachial Arterial Blood Pressure
FAP, Channel 3	11112	HEM_IBP_FAP_CHAN_3	Femoral Arterial Blood Pressure
UVP, Channel 3	11122	HEM_IBP_UVP_CHAN_3	Umbilical Venous Blood Pressure

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
IAP, Channel 3	11132	PRESS_IAP_CHAN_3	Intra-Abdominal Pressure
IBP, Channel 4	11003	HEM_IBP_CHAN_4	Invasive Blood Pressure
ART, Channel 4	11013	HEM_IBP_ART_CHAN_4	Arterial Blood Pressure
UA, Channel 4	11023	HEM_IBP_UA_CHAN_4	Umbilical Arterial Blood Pressure
LV, Channel 4	11033	HEM_IBP_LV_CHAN_4	Left Ventricle Blood Pressure
PA, Channel 4	11043	HEM_IBP_PA_CHAN_4	Pulmonary Arterial Blood Pressure
CVP, Channel 4	11053	HEM_IBP_CVP_CHAN_4	Central Venous Blood Pressure
ICP, Channel 4	11063	PRESS_ICP_CHAN_4	Intra Cranial Pressure
LA, Channel 4	11073	HEM_IBP_LA_CHAN_4	Left Atria Blood Pressure
RA, Channel 4	11083	HEM_IBP_RA_CHAN_4	Right Atria Blood Pressure
Ao, Channel 4	11093	HEM_IBP_AO_CHAN_4	Aortic Blood Pressure
BAP, Channel 4	11103	HEM_IBP_BAP_CHAN_4	Brachial Arterial Blood Pressure
FAP, Channel 4	11113	HEM_IBP_FAP_CHAN_4	Femoral Arterial Blood Pressure
UVP, Channel 4	11123	HEM_IBP_UVP_CHAN_4	Umbilical Venous Blood Pressure
IAP, Channel 4	11133	PRESS_IAP_CHAN_4	Intra-Abdominal Pressure
IBP, Channel 5	11004	HEM_IBP_CHAN_5	Invasive Blood Pressure
ART, Channel 5	11014	HEM_IBP_ART_CHAN_5	Arterial Blood Pressure
UA, Channel 5	11024	HEM_IBP_UA_CHAN_5	Umbilical Arterial Blood Pressure
LV, Channel 5	11034	HEM_IBP_LV_CHAN_5	Left Ventricle Blood Pressure
PA, Channel 5	11044	HEM_IBP_PA_CHAN_5	Pulmonary Arterial Blood Pressure
CVP, Channel 5	11054	HEM_IBP_CVP_CHAN_5	Central Venous Blood Pressure
ICP, Channel 5	11064	PRESS_ICP_CHAN_5	Intra Cranial Pressure
LA, Channel 5	11074	HEM_IBP_LA_CHAN_5	Left Atria Blood Pressure
RA, Channel 5	11084	HEM_IBP_RA_CHAN_5	Right Atria Blood Pressure
Ao, Channel 5	11094	HEM_IBP_AO_CHAN_5	Aortic Blood Pressure
BAP, Channel 5	11104	HEM_IBP_BAP_CHAN_5	Brachial Arterial Blood Pressure
FAP, Channel 5	11114	HEM_IBP_FAP_CHAN_5	Femoral Arterial Blood Pressure
UVP, Channel 5	11124	HEM_IBP_UVP_CHAN_5	Umbilical Venous Blood Pressure
IAP, Channel 5	11134	PRESS_IAP_CHAN_5	Intra-Abdominal Pressure

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
IBP, Channel 6	11005	HEM_IBP_CHAN_6	Invasive Blood Pressure
ART, Channel 6	11015	HEM_IBP_ART_CHAN_6	Arterial Blood Pressure
UA, Channel 6	11025	HEM_IBP_UA_CHAN_6	Umbilical Arterial Blood Pressure
LV, Channel 6	11035	HEM_IBP_LV_CHAN_6	Left Ventricle Blood Pressure
PA, Channel 6	11045	HEM_IBP_PA_CHAN_6	Pulmonary Arterial Blood Pressure
CVP, Channel 6	11055	HEM_IBP_CVP_CHAN_6	Central Venous Blood Pressure
ICP, Channel 6	11065	PRESS_ICP_CHAN_6	Intra Cranial Pressure
LA, Channel 6	11075	HEM_IBP_LA_CHAN_6	Left Atria Blood Pressure
RA, Channel 6	11085	HEM_IBP_RA_CHAN_6	Right Atria Blood Pressure
Ao, Channel 6	11095	HEM_IBP_AO_CHAN_6	Aortic Blood Pressure
BAP, Channel 6	11105	HEM_IBP_BAP_CHAN_6	Brachial Arterial Blood Pressure
FAP, Channel 6	11115	HEM_IBP_FAP_CHAN_6	Femoral Arterial Blood Pressure
UVP, Channel 6	11125	HEM_IBP_UVP_CHAN_6	Umbilical Venous Blood Pressure
IAP, Channel 6	11135	PRESS_IAP_CHAN_6	Intra-Abdominal Pressure
IBP, Channel 7	11006	HEM_IBP_CHAN_7	Invasive Blood Pressure
ART, Channel 7	11016	HEM_IBP_ART_CHAN_7	Arterial Blood Pressure
UA, Channel 7	11026	HEM_IBP_UA_CHAN_7	Umbilical Arterial Blood Pressure
LV, Channel 7	11036	HEM_IBP_LV_CHAN_7	Left Ventricle Blood Pressure
PA, Channel 7	11046	HEM_IBP_PA_CHAN_7	Pulmonary Arterial Blood Pressure
CVP, Channel 7	11056	HEM_IBP_CVP_CHAN_7	Central Venous Blood Pressure
ICP, Channel 7	11066	PRESS_ICP_CHAN_7	Intra Cranial Pressure
LA, Channel 7	11076	HEM_IBP_LA_CHAN_7	Left Atria Blood Pressure
RA, Channel 7	11086	HEM_IBP_RA_CHAN_7	Right Atria Blood Pressure
Ao, Channel 7	11096	HEM_IBP_AO_CHAN_7	Aortic Blood Pressure
BAP, Channel 7	11106	HEM_IBP_BAP_CHAN_7	Brachial Arterial Blood Pressure
FAP, Channel 7	11116	HEM_IBP_FAP_CHAN_7	Femoral Arterial Blood Pressure
UVP, Channel 7	11126	HEM_IBP_UVP_CHAN_7	Umbilical Venous Blood Pressure
IAP, Channel 7	11136	PRESS_IAP_CHAN_7	Intra-Abdominal Pressure
IBP, Channel 8	11007	HEM_IBP_CHAN_8	Invasive Blood Pressure

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
ART, Channel 8	11017	HEM_IBP_ART_CHAN_8	Arterial Blood Pressure
UA, Channel 8	11027	HEM_IBP_UA_CHAN_8	Umbilical Arterial Blood Pressure
LV, Channel 8	11037	HEM_IBP_LV_CHAN_8	Left Ventricle Blood Pressure
PA, Channel 8	11047	HEM_IBP_PA_CHAN_8	Pulmonary Arterial Blood Pressure
CVP, Channel 8	11057	HEM_IBP_CVP_CHAN_8	Central Venous Blood Pressure
ICP, Channel 8	11067	PRESS_ICP_CHAN_8	Intra Cranial Pressure
LA, Channel 8	11077	HEM_IBP_LA_CHAN_8	Left Atria Blood Pressure
RA, Channel 8	11087	HEM_IBP_RA_CHAN_8	Right Atria Blood Pressure
Ao, Channel 8	11097	HEM_IBP_AO_CHAN_8	Aortic Blood Pressure
BAP, Channel 8	11107	HEM_IBP_BAP_CHAN_8	Brachial Arterial Blood Pressure
FAP, Channel 8	11117	HEM_IBP_FAP_CHAN_8	Femoral Arterial Blood Pressure
UVP, Channel 8	11127	HEM_IBP_UVP_CHAN_8	Umbilical Venous Blood Pressure
IAP, Channel 8	11137	PRESS_IAP_CHAN_8	Intra-Abdominal Pressure
ECG_CAL	11150	ECG_CAL	
ECG_PADDLES	11160	ECG_PADDLES	
ECG_PADS	11170	ECG_PADS	
FLOW	11180	AIRWAY_FLOW	Airway flow
PAW	11190	AIRWAY_PAW	Airway pressure
VOL	11200	AIRWAY_VOL	Airway volume
ICG	11210	ICG	
BIS_EEG	11230	BIS_EEG	
BIS_EEG_LT	11240	BIS_EEG_LT	
BIS_EEG_LE	11250	BIS_EEG_LE	
BIS_EEG_RT	11260	BIS_EEG_RT	
BIS_EEG_RE	11270	BIS_EEG_RE	
IBP_PART	11280	HEM_IBP_PART	Arterial pressure from PiCCO system
IBP_PCVP	11290	HEM_IBP_PCVP	Central Venous pressure from PiCCO system
EEG1	11300	EEG_CHAN_1	
EEG2	11310	EEG_CHAN_2	

Waveform Type	OBX(CHN)-5.1.1	OBX (CHN)-5.2.1	Comment
EEG3	11320	EEG_CHAN_3	
EEG4	11330	EEG_CHAN_4	

5.4 Units of Measure

Mindray devices shall use the IHE Rosetta Terminology for Unit codes. Unit codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system.

The following table contains the standard IHE Rosetta Terminology units currently in use by the eGateway.

Table 105 Mindray Standard Units of Measure

Units	Value		
	Code	Text	Coding System
Rates			
Beats*min ⁻¹	264864	MDC_DIM_BEAT_PER_MIN	MDC
Respirations*min ⁻¹	264928	MDC_DIM_RESP_PER_MIN	MDC
ks ⁻¹	264311	MDC_DIM_PER_KILO_SEC	MDC
min ⁻¹	264672	MDC_DIM_PER_MIN	MDC
Hz	264640	MDC_DIM_HZ	MDC
Breath	263264	MDC_DIM_BREATH	MDC
Weight			
kilograms (kg)	263875	MDC_DIM_KILO_G	MDC
pounds (lb)	263904	MDC_DIM_LB	MDC
ounces (oz)	263936	MDC_DIM_OZ	MDC
Length			
meters (m)	263424	MDC_DIM_M	MDC
centimeters (cm)	263441	MDC_DIM_CENTI_M	MDC
millimeters (mm)	263442	MDC_DIM_MILLI_M	MDC
feet (ft)	263488	MDC_DIM_FOOT	MDC

Units	Value		
	Code	Text	Coding System
inches (in)	263520	MDC_DIM_INCH	MDC
Area			
meters ² (m ²)	263616	MDC_DIM_SQ_M	MDC
Liquid Volume			
liters (l)	263744	MDC_DIM_L	MDC
milliliters (ml)	263762	MDC_DIM_MILLI_L	MDC
Temperature			
degrees Celsius (°C)	268192	MDC_DIM_DEGC	MDC
degrees Fahrenheit (°F)	266560	MDC_DIM_FAHR	MDC
Electrical Resistance			
ohms (Ω)	266432	MDC_DIM_OHM	MDC
milliohms (m Ω)	266450	MDC_DIM_MILLI_OHM	MDC
killiohms (k Ω)	266435	MDC_DIM_KILLO_OHM	MDC
Electrical Potential			
volts (V)	266400	MDC_DIM_VOLT	MDC
millivolts (mV)	266418	MDC_DIM_MILLI_VOLT	MDC
microvolts (μ V)	266419	MDC_DIM_MICRO_VOLT	MDC
Flow			
l*min ⁻¹	265216	MDC_DIM_L_PER_MIN	MDC
ml*min ⁻¹	265234	MDC_DIM_MILLI_L_PER_MIN	MDC
ml*hr ⁻¹	265266	MDC_DIM_MILLI_L_PER_HR	MDC

Units	Value		
	Code	Text	Coding System
Time			
minutes (min)	264352	MDC_DIM_MIN	MDC
seconds (s)	264320	MDC_DIM_SEC	MDC
milliseconds (ms)	264338	MDC_DIM_MILLI_SEC	MDC
Pressure			
mmHg	266016	MDC_DIM_MMHG	MDC
cmH ₂ O	266048	MDC_DIM_CM_H2O	MDC
kilopascal (kPa)	265987	MDC_DIM_KILO_PASCAL	MDC
hectopascal (hPa)	265986	MDC_DIM_HECTO_PASCAL	MDC
millibar	266098	MDC_DIM_MILLI_BAR	MDC
Power			
Watts (W)	266176	MDC_DIM_WATT	MDC
milliwatts (mW)	266194	MDC_DIM_MILLI_WATT	MDC
Electrical Charge			
ampere hour (Ah)	268224	MDC_DIM_AMP_HR	MDC
milliampere hour (mAh)	268242	MDC_DIM_MILLI_AMP_HR	MDC
Work			
g*m	264000	MDC_DIM_G_M	MDC
Miscellaneous			
l*min ⁻¹ *m ⁻²	264992	MDC_DIM_L_PER_MIN_PER_M_SQ	MDC
ml*min ⁻¹ *m ⁻²	265010	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ	MDC

Units	Value		
	Code	Text	Coding System
dyne*s*m ⁻² *cm ⁻⁵	268160	MDC_DIM_DYNE_SEC_PER_M_SQ_PER_CM_5	MDC
cmH ₂ O*l ⁻¹ *s ⁻¹	268064	MDC_DIM_CM_H2O_PER_L_PER_SEC	MDC
cmH ₂ O*l ⁻¹	268288	MDC_DIM_CM_H2O_PER_L	MDC
%	262688	MDC_DIM_PERCENT	MDC
dB	268576	MDC_DIM_DECIBEL	MDC
ml*m ⁻²	263570	MDC_DIM_MILLI_L_PER_M_SQ	MDC
g*m*m ⁻²	264032	MDC_DIM_G_M_PER_M_SQ	MDC
kg*m*m ⁻²	264035	MDC_DIM_KILO_G_M_PER_M_SQ	MDC
g*dl ⁻¹	264256	MDC_DIM_G_PER_DL	MDC
mmol*l ⁻¹	266866	MDC_DIM_MILLI_MOLE_PER_L	MDC
m ⁻¹	263584	MDC_DIM_PER_M	MDC
mm ⁻¹	263602	MDC_DIM_PER_MILLI_M	MDC
l ⁻¹ *min ⁻¹	268672	MDC_PER_L_PER_MIN	MDC
l*kg ⁻¹	265312	MDC_DIM_L_PER_KG	MDC
ml*kg ⁻¹	265330	MDC_DIM_MILLI_L_PER_KG	MDC
dyne*sec*cm ⁻⁵	270656	MDC_DIM_DYNE_SEC_PER_CM_5	MDC
kcal*day ⁻¹	270563	MDC_DIM_KILO_CAL_PER_DAY	MDC
ml*min ⁻¹ *kg ⁻¹	270930	MDC_DIM_MILLI_L_PER_MIN_PER_KG	MDC
J*l ⁻¹	270624	MDC_DIM_JOULES_PER_L	MDC
kΩ ⁻¹	270435	MDC_DIM_PER_KILO_OHM	MDC
Respirations*min ⁻¹ *l ⁻¹	270848	MDC_DIM_BREATHS_PER_MIN_PER_L	MDC

Units	Value		
	Code	Text	Coding System
%*sec	270944	MDC_DIM_O2_SAT_PERCENT_SEC	MDC
mmHg*I ⁻¹	268480	MDC_DIM_MM_HG_PER_L	MDC
kPa*I ⁻¹	272739	MDC_DIM_KILO_PASCAL_PER_L	MDC

The following table has the currently defined 99MNDRY units

Table 106 Mindray Custom Units of Measure

Units	Value		
	Code	Text	Coding System
minutes*%	10001	MNDRY_DIM_MIN_PERCENT	99MNDRY
ml*mbar ⁻¹	10002	MNDRY_DIM_MILLI_L_PER_MILLI_BAR	99MNDRY
mbar*I ⁻¹ *s ⁻¹	10003	MNDRY_DIM_MILLI_BAR_PER_L_PER_SEC	99MNDRY
cmH ₂ O*s	10005	MNDRY_DIM_CM_H2O_SEC	99MNDRY
ml*hPa ⁻¹	10007	MNDRY_DIM_MILLI_L_PER_HECTO_PASCAL	99MNDRY
hPa*I ⁻¹ *s ⁻¹	10008	MNDRY_DIM_HECTO_PASCAL_PER_L_PER_SEC	99MNDRY
J*min ⁻¹	10010	MNDRY_DIM_JOULES_PER_MIN	99MNDRY
100 ⁻¹ s ⁻²	10012	MNDRY_DIM_PER_HUNDRED_PER_SEC_SQ	99MNDRY
W*min ⁻²	10013	MNDRY_DIM_WATT_PER_MIN_SQ	99MNDRY
mmHg*s ⁻¹	10014	MNDRY_DIM_MMHG_PER_SEC	99MNDRY
kPa*s*I ⁻¹	10016	MNDRY_DIM_KILO_PASCAL_SEC_PER_L	99MNDRY
kPa*s*m ² *I ⁻¹	10017	MNDRY_DIM_KILO_PASCAL_SEC_M_SQ_PER_L	99MNDRY
mbar*s ⁻¹	10018	MNDRY_DIM_MILLI_BAR_PER_SEC	99MNDRY
hPa*s	10019	MNDRY_DIM_HECTO_PASCAL_SEC	99MNDRY

Units	Value		
	Code	Text	Coding System
ml*lb ⁻¹	10020	MNDRY_DIM_MILLI_L_PER_LB	99MNDRY
cmH ₂ O*s ⁻¹	10021	MNDRY_DIM_CM_H2O_PER_SEC	99MNDRY
Mbar*s/min	10035	MNDRY_DIM_MILLI_BAR_SEC_PER_MIN	99MNDRY
hPa*s/min	10036	MNDRY_DIM_HECTO_PASCAL_SEC_PER_MIN	99MNDRY
cmH ₂ O*s/min	10037	MNDRY_DIM_CM_H2O_SEC_PER_MIN	99MNDRY

5.5 Locations

Mindray devices shall use the IHE Rosetta Terminology for Location codes. Location codes not defined by the IHE Rosetta Terminology shall use the "99MNDRY" coding system.

The following table contains the standard IHE Rosetta Terminology locations currently in use by the eGateway.

Table 107 Location codes

Location	Value		
	Code	Text	Coding System
Upper Arm	460532	MDC_UPEXT_ARM_UPPER	MDC
Upper Arm, Left	460533	MDC_UPEXT_ARM_UPPER_L	MDC
Upper Arm, Right	460534	MDC_UPEXT_ARM_UPPER_R	MDC
Forearm	460520	MDC_UPEXT_FOREARM	MDC
Forearm, Left	460521	MDC_UPEXT_FOREARM_L	MDC
Forearm, Right	460522	MDC_UPEXT_FOREARM_R	MDC
Hand	460524	MDC_UPEXT_HAND	MDC
Hand, Left	460525	MDC_UPEXT_HAND_L	MDC
Hand, Right	460526	MDC_UPEXT_HAND_R	MDC
Leg	460356	MDC_LOEXT_LEG	MDC
Leg, Left	460357	MDC_LOEXT_LEG_L	MDC
Leg, Right	460358	MDC_LOEXT_LEG_R	MDC
Foot	460340	MDC_LOEXT_FOOT	MDC
Foot, Left	460341	MDC_LOEXT_FOOT_L	MDC
Foot, Right	460342	MDC_LOEXT_FOOT_R	MDC
Ear	460272	MDC_HEAD_EAR	MDC

Location	Value		
	Code	Text	Coding System
Ear, Left	460041	MDC_HEAD_EAR_L	MDC
Ear, Right	460042	MDC_HEAD_EAR_R	MDC
Fore Head	460280	MDC_HEAD_FORE	MDC
Fore Head, Left	460281	MDC_HEAD_FORE_L	MDC
Fore Head, Right	460282	MDC_HEAD_FORE_R	MDC
Artery, Femoral	460212	MDC_ART_FEMORAL	MDC
Artery, Brachial	460204	MDC_ART_BRACHIAL	MDC
Fore Head	460280	MDC_HEAD_FORE	MDC
Fore Head, Left	460281	MDC_HEAD_FORE_L	MDC
Fore Head, Right	460282	MDC_HEAD_FORE_R	MDC
EEG, Fp1	459793	MDC_HEAD_FRONT_POLAR_L	MDC
EEG, Fpz	459752	MDC_HEAD_FRONT_POLAR_MID	MDC
EEG, Fp2	459794	MDC_HEAD_FRONT_POLAR_R	MDC
EEG, F7	459825	MDC_HEAD_FRONT_L_7	MDC
EEG, F3	459809	MDC_HEAD_FRONT_L_3	MDC
EEG, Fz	459760	MDC_HEAD_FRONT_MID	MDC
EEG, F4	459814	MDC_HEAD_FRONT_R_3	MDC
EEG, F8	459830	MDC_HEAD_FRONT_R_8	MDC
EEG, A1	460041	MDC_HEAD_EAR_L	MDC
EEG, T3	460001	MDC_HEAD_TEMPOR_L_3	MDC
EEG, C3	459889	MDC_HEAD_CENT_L_3	MDC

Location	Value		
	Code	Text	Coding System
EEG, Cz	459768	MDC_HEAD_CENT_MID	MDC
EEG, C4	459894	MDC_HEAD_CENT_R_4	MDC
EEG, T4	460006	MDC_HEAD_TEMPOR_R_4	MDC
EEG, A2	460042	MDC_HEAD_EAR_R	MDC
EEG, T5	460009	MDC_HEAD_TEMPOR_L_5	MDC
EEG, P3	459937	MDC_HEAD_PARIET_L_3	MDC
EEG, Pz	459776	MDC_HEAD_PARIET_MID	MDC
EEG, P4	459942	MDC_HEAD_PARIET_R_4	MDC
EEG, T6	460014	MDC_HEAD_TEMPOR_R_6	MDC
EEG, O1	459961	MDC_HEAD_OCCIP_L	MDC
EEG, O2	459966	MDC_HEAD_OCCIP_R	MDC
EEG, Oz	459784	MDC_HEAD_OCCIP_MID	MDC
ECG, LL	458775	MDC_ECG_LEAD_LL	MDC
ECG, RL	458867	MDC_ECG_LEAD_RL	MDC
ECG, LA	458773	MDC_ECG_LEAD_LA	MDC
ECG, RA	458774	MDC_ECG_LEAD_RA	MDC
ECG, V1	458755	MDC_ECG_LEAD_V1	MDC
ECG, V2	458756	MDC_ECG_LEAD_V2	MDC
ECG, V3	458757	MDC_ECG_LEAD_V3	MDC
ECG, V4	458758	MDC_ECG_LEAD_V4	MDC
ECG, V5	458759	MDC_ECG_LEAD_V5	MDC

Location	Value		
	Code	Text	Coding System
ECG, V6	458760	MDC_ECG_LEAD_V6	MDC
ECG, V (Va)	458819	MDC_ECG_LEAD_V	MDC
ECG, LL	458775	MDC_ECG_LEAD_LL	MDC
ECG, RL	458867	MDC_ECG_LEAD_RL	MDC

The following table has the currently defined 99MNDRY locations

Table 108 Mindray Custom Locations

Location	Value		
	Code	Text	Coding System
ECG Lead, Vb	40000	MNDRY_ECG_LEAD_VB	99MNDRY

5.6 Enumerations

5.6.1 Level of Consciousness

This enumeration represents a patient's level of consciousness.

Level of Consciousness	Value			Comment
	Code	Text	Coding System	
Conscious	60017	MNDRY_LOC_CONSCIOUS	99MNDRY	The patient is conscious.
Confused	60018	MNDRY_LOC_CONFUSED	99MNDRY	The patient is confused.
Delirious	60019	MNDRY_LOC_DELIRIOUS	99MNDRY	The patient is delirious.
Somnolent	60020	MNDRY_LOC_SOMNOLENT	99MNDRY	The patient is somnolent.
Obtunded	60021	MNDRY_LOC_OBTUNDED	99MNDRY	The patient is obtunded.
Stuporous	60022	MNDRY_LOC_STUPOROUS	99MNDRY	The patient is stuporous.
Comatose	60023	MNDRY_LOC_COMATOSE	99MNDRY	The patient is comatose.
Unknown	60044	MNDRY_LOC_UNKNOWN	99MNDRY	The patient's level of conscious is not known.

5.6.2 Body Position

This is an enumeration defining the position of a patient's body.

Body Position	Value			Comment
	Code	Text	Coding System	
Standing	60000	MNDRY_POS_STANDING	99MNDRY	The patient is in a standing position
Sitting	60001	MNDRY_POS_SITTING	99MNDRY	The patient is in a sitting position
Supine	60002	MNDRY_POS_SUPINE	99MNDRY	The patient is laying on their back

5.6.3 Oxygen Source

This is an enumeration defining the source of oxygen for a patient.

Oxygen Source	Value			Comment
	Code	Text	Coding System	
Room	60003	MNDRY_O2_SRC_ROOM	99MNDRY	The oxygen source is the room air.
Generic Mask	60004	MNDRY_O2_SRC_MSK	99MNDRY	The oxygen source is mask of undefined type.
Aerosol mask	60005	MNDRY_O2_SRC_MSK_AERO	99MNDRY	The oxygen source is an aerosol mask.
Non-rebreather mask	60006	MNDRY_O2_SRC_MSK_NONREBR	99MNDRY	The oxygen source is a non-rebreather mask.
Partial rebreather mask	60007	MNDRY_O2_SRC_MSK_PART_REBR	99MNDRY	The oxygen source is a partial rebreather mask.
Venturi mask	60008	MNDRY_O2_SRC_MSK_VENTURI	99MNDRY	The oxygen source is a venturi mask.
Face tent mask	60009	MNDRY_O2_SRC_MSK_FACE_TENT	99MNDRY	The oxygen source is a face tent mask
BiPAP	60010	MNDRY_O2_SRC_MSK_BIPAP	99MNDRY	The oxygen source is a bilevel positive airway pressure mask.
CPAP	60011	MNDRY_O2_SRC_MSK_CPAP	99MNDRY	The oxygen source is a continuous positive airway pressure mask.
Nasal Cannula	60012	MNDRY_O2_SRC_NAS_CAN	99MNDRY	The oxygen source is a nasal cannula.
T-piece	60013	MNDRY_O2_SRC_T_PIECE	99MNDRY	The oxygen source is a T-piece.
Tracheostomy collar	60014	MNDRY_O2_SRC_TRACH_COL	99MNDRY	The oxygen source is a tracheostomy collar.
Ventilator	60015	MNDRY_O2_SRC_VENT	99MNDRY	The oxygen source is a ventilator.
Oxymizer	60016	MNDRY_O2_SRC_OXY	99MNDRY	The oxygen source is an oxymizer.
Unknown	60047	MNDRY_O2_SRC_UNKNOWN	99MNDRY	The oxygen source is unknown.

5.6.4 Source

This is an enumeration defining the input that is the source of a parameter.

Source	Value			Comment
	Code	Text	Coding System	
IBP	60024	MNDRY_SRC_PRESS_BLD	99MNDRY	Unlabeled invasive blood pressure (IBP1-IBP8)
ART	60025	MNDRY_SRC_PRESS_BLD_ART	99MNDRY	Arterial pressure
FAP	60026	MNDRY_SRC_PRESS_BLD_ART_FEMORAL	99MNDRY	Femoral arterial pressure
BAP	60027	MNDRY_SRC_PRESS_BLD_ART_BRACHIAL	99MNDRY	Brachial arterial pressure
AoP	60028	MNDRY_SRC_PRESS_BLD_AORT	99MNDRY	Aorta pressure
LVP	60029	MNDRY_SRC_PRESS_BLD_VENT_LEFT	99MNDRY	Left ventricle pressure
UAP	60030	MNDRY_SRC_PRESS_BLD_ART_UMB	99MNDRY	Umbilical arterial pressure
PA	60039	MNDRY_SRC_PRESS_BLD_ART_PULM	99MNDRY	Pulmonary arterial pressure
CVP	60040	MNDRY_SRC_PRESS_BLD_VEN_CENT	99MNDRY	Central venous pressure
ICP	60041	MNDRY_SRC_PRESS_INTRA_CRAN	99MNDRY	Intra-cranial pressure
RA	60042	MNDRY_SRC_PRESS_BLD_ATR_RIGHT	99MNDRY	Right arterial pressure
LA	60043	MNDRY_SRC_PRESS_BLD_ATR_LEFT	99MNDRY	Left arterial pressure

5.6.5 Boolean

This enumeration represents a Boolean value.

Boolean	Value			Comment
	Code	Text	Coding System	
True	30000	MNDRY_TRUE	99MNDRY	The value is true
False	30001	MNDRY_FALSE	99MNDRY	The value is false

5.6.6 QTC Formula Type

This enumeration represents the formula for correcting a QTC measurement.

QTC Formula	Value			Comment
	Code	Text	Coding System	
Bazett	60050	MNDRY_ECG_QTC_FORMULA_BAZETT	99MNDRY	The QTc formula used is Bazett.
Hodges	60051	MNDRY_ECG_QTC_FORMULA_HODGES	99MNDRY	The QTc formula used is Hodges.
Fridericia	60052	MNDRY_ECG_QTC_FORMULA_FRIDERICIA	99MNDRY	The QTc formula used is Fridericia.
Fraingham	60053	MNDRY_ECG_QTC_FORMULA_FRAINGHAM	99MNDRY	The QTc formula used is Fraingham.

5.6.7 Pain

This enumeration represents a patient's level of pain.

Pain	Value			Comment
	Code	Text	Coding System	
None	60031	MNDRY_PAIN_NONE	99MNDRY	The patient has no pain.
Mild	60032	MNDRY_PAIN_MILD	99MNDRY	The patient has mild pain.
Moderate	60033	MNDRY_PAIN_MODERATE	99MNDRY	The patient has moderate pain.
Severe	60034	MNDRY_PAIN_SEVERE	99MNDRY	The patient has severe pain.
Unknown	60046	MNDRY_PAIN_UNKNOWN	99MNDRY	The patient's pain level is not known.

5.6.8 AVPU Score

This enumeration represents an AVPU level of consciousness score value.

AVPU Score	Value			Comment
	Code	Text	Coding System	
Alert	60035	MNRDY_SCORE_LOC_AVPU_ALERT	99MNDRY	The patient is alert.
Voice	60036	MNRDY_SCORE_LOC_AVPU_VOICE	99MNDRY	The patient responds to voices.
Pain	60037	MNRDY_SCORE_LOC_AVPU_PAIN	99MNDRY	The patient responds to pain.

AVPU Score	Value			Comment
	Code	Text	Coding System	
Unresponsive	60038	MNRDY_SCORE_LOC_AVPU_UNRESPONSIVE	99MNDRY	The patient is unresponsive.
Confused	60039	MNDRY_SCORE_LOC_AVPU_CONFUSED	99MNDRY	The patient is confused.
Unknown	60045	MNRDY_SCORE_LOC_AVPU_UNKNOWN	99MNDRY	The patient's response level is not known.

5.6.9 Ventilation Mode

This enumeration represents the mode of ventilation used by a ventilator or anesthesia machine.

Ventilation Mode	Value			Comment
	Code	Text	Coding System	
Manual	50000	MNDRY_VENT_MODE_MANUAL	99MNDRY	
ACGO	50001	MNDRY_VENT_MODE_ACGO	99MNDRY	
Manual, Alarms Off	50002	MNDRY_VENT_MODE_MANUAL_PLUS_ALM_OFF	99MNDRY	
Manual, Bypass	50003	MNDRY_VENT_MODE_MANUAL_PLUS_BYPASS	99MNDRY	
Manual, Monitor	50004	MNDRY_VENT_MODE_MANUAL_PLUS_MONITOR	99MNDRY	
Volume Control Ventilation	50005	MNDRY_VENT_MODE_VCV	99MNDRY	
Pressure Support Ventilation	50006	MNDRY_VENT_MODE_PS	99MNDRY	
SIMV with Volume Control	50007	MNDRY_VENT_MODE_SIMVVC	99MNDRY	
SIMV with Volume Control and Pressure Support	50008	MNDRY_VENT_MODE_SIMVVC_PLUS_PS	99MNDRY	
SIMV with Pressure Control	50009	MNDRY_VENT_MODE_SIMVPC	99MNDRY	
SIMV with Pressure Control and Pressure Support	50010	MNDRY_VENT_MODE_SIMVPC_PLUS_PS	99MNDRY	
Pressure Control Ventilation	50011	MNDRY_VENT_MODE_PCV	99MNDRY	
Pressure Control Ventilation with Volume Guarantee	50012	MNDRY_VENT_MODE_PCV_PLUS_VG	99MNDRY	
AVNF	50013	MNDRY_MODE_AVNF	99MNDRY	
Duolevel	50015	MNDRY_VENT_MODE_DUOLEVEL	99MNDRY	
APRV	50017	MNDRY_VENT_MODE_APRV	99MNDRY	

Ventilation Mode	Value			Comment
	Code	Text	Coding System	
CPAP with Pressure Support	50021	MNDRY_VENT_MODE_CPAP_PLUS_PS	99MNDRY	
SIMV with Pressure Control with PRVC	50022	MNDRY_VENT_MODE_SIMVPC_PLUS_PRVC	99MNDRY	
Recruitment Maneuver	50023	MNDRY_VENT_MODE_RM	99MNDRY	
SIMV with Volume Guarantee and Pressure Support	50035	MNDRY_VENT_MODE_SIMVVG_PLUS_PS	99MNDRY	
CPAP	50014	MNDRY_VENT_MODE_CPAP	99MNDRY	
Pressure Assist and Control Ventilation	50054	MNDRY_VENT_MODE_PACV	99MNDRY	
PRVC	50055	MNDRY_VENT_MODE_PRVC	99MNDRY	
Volume Support Ventilation	50056	MNDRY_VENT_MODE_VSV	99MNDRY	
Cardiopulmonary Resuscitation Ventilation	50057	MNDRY_VENT_MODE_CPRV	99MNDRY	
Nasal CPAP	50058	MNDRY_VENT_MODE_NCPAP	99MNDRY	
AMV	50059	MNDRY_VENT_MODE_AMV	99MNDRY	
Pressure Support Ventilation with STV	50060	MNDRY_VENT_MODE_PSV_PLUS_STV	99MNDRY	
O2 Therapy	50061	MNDRY_VENT_MODE_O2_THERAPY	99MNDRY	
Volume Assist and Control Ventilation	50062	MNDRY_VENT_MODE_VACV	99MNDRY	

5.6.10 Anesthesia Info

This enumeration represents the information of anesthesia machine .

Anesthesia Info	Value			Comment
	Code	Text	Coding System	
Device Status:Running	202902	MDC_EVT_STAT_RUNNING	MDC	
Device Status:Standby/Discharge	202836	MDC_EVT_STAT_STANDBY	MDC	
Device Mode:Normal	30003	MNDRY_EVT_STAT_MODE_NORMAL	99MNDRY	
Device Mode:Service	202840	MDC_EVT_STAT_MODE_TEST	MDC	
Device Mode:Demo	30004	MNDRY_EVT_STAT_MODE_DEMO	99MNDRY	

Anesthesia Info	Value			Comment
	Code	Text	Coding System	
Patient Type: Adult	202890	MDC_EVT_STAT_DEV_MODE_ADULT	MDC	
Patient Type: Pediatric	202888	MDC_EVT_STAT_DEV_MODE_PEDIATRIC	MDC	
Patient Type: Infant	30006	MNDRY_EVT_STAT_DEV_MODE_INFANT	99MNDRY	

5.6.11 Test

This enumeration represents the state of a test.

Test Results	Value			Comment
	Code	Text	Coding System	
TEST_PASS	60054	MNDRY_TEST_PASS	99MNDRY	The test passed
TEST_FAIL	60055	MNDRY_TEST_FAIL	99MNDRY	The test failed

5.7 Alarms

Alarm Name	Value		
	Code	Text	Coding System
Unknown Phys Alarm, ECG	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High HR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low HR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST1	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST1	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST I	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST I	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST II	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low ST II	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST III	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST III	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST AVR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST AVR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST AVL	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST AVL	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST AVF	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST AVF	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST V1	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V1	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST V2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST V3	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V3	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST V4	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V4	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST V5	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V5	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST V6	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V6	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST VA	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST VA	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST VB	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST VB	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST DV1	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST DV1	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST DV2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST DV2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST DV3	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low ST DV3	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST DV4	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST DV4	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST DV5	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST DV5	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ST DV6	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST DV6	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PVCS	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PVCS	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PAUSES	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PAUSES	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High QTC	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low QTC	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High DELTA QTC	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low DELTA QTC	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, SpO2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High SPO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low SPO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, NIBP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High NIBP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low NIBP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High NIBP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low NIBP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High NIBP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low NIBP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Extremely High NIBP-Sys	30905	MNDRY_EVT_HI_VAL_GT_EXTREME_LIM	99MNDRY
Extremely Low NIBP-Sys	30906	MNDRY_EVT_LO_VAL_LT_EXTREME_LIM	99MNDRY
Extremely High NIBP-Mean	30905	MNDRY_EVT_HI_VAL_GT_EXTREME_LIM	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Extremely Low NIBP-Mean	30906	MNDRY_EVT_LO_VAL_LT_EXTREME_LIM	99MNDRY
Extremely High NIBP-Dia	30905	MNDRY_EVT_HI_VAL_GT_EXTREME_LIM	99MNDRY
Extremely Low NIBP-Dia	30906	MNDRY_EVT_LO_VAL_LT_EXTREME_LIM	99MNDRY
Unknown Phys Alarm, Impedance Respiration	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Apnea, Impedance Respiration	199680	MDC_EVT_APNEA	MDC
High RR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FICO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FICO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, CO2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High ETCO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETCO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High AWRR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low AWRR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ETO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FIO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
FiO2 Shortage	30104	MNDRY_EVT_FIO2_SHORTAGE	99MNDRY
Unknown Phys Alarm, Temperature	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High T1	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T1	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High T2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High T3	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T3	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High T4	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T4	196674	MDC_EVT_LO_VAL_LT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
High T5	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T5	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High T6	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T6	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High T7	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T7	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High T8	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low T8	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TEMP	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low TEMP	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
TempIF High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
TempIF Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TD	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low TD	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TD2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low TD2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TD3	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low TD3	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TD4	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low TD4	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TB	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low TB	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
O2ET Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
O2FI Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
N2OET Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High N2OET	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETN2O	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
N2OFI Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FIN2O	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIN2O	196674	MDC_EVT_LO_VAL_LT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
AAET Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High ETAA	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETAA	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
AAFI Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FIAA	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIAA	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ETHAL Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High ETHAL	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETHAL	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
FIHAL Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FIHAL	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIHAL	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ETENF Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High ETENF	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETENF	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
FIENF Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FIENF	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIENF	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ETISO Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High ETISO	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETISO	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
FIISO Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FIISO	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIISO	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ETSEV Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High ETSEV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETSEV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
FISEV Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FISEV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FISEV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
ETDES Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High ETDES	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ETDES	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
FIDES Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
High FIDES	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FIDES	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High AGAWRR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low AGAWRR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Apnea, Gas(CO2)	199680	MDC_EVT_APNEA	MDC
MAC >= 3	30103	MNDRY_EVT_MAXMAC_MORE_3	99MNDRY
ECG Lost	30126	MNDRY_EVT_ECG_LOST	99MNDRY
No Pulse	30023	MNDRY_EVT_NO_PLUSE	99MNDRY
Respiration CVA Present	199904	MDC_EVT_ERR_EQU_HR_AND_RR	MDC
No chest movement	30929	MNDRY_EVT_NO_CHEST_MOVEMENT	99MNDRY
Apnea, CO2	199680	MDC_EVT_APNEA	MDC
No CO2 Changed Detected	31016	MNDRY_EVT_CO2_NO_RESP_DETECTED	99MNDRY
Asystole	199684	MDC_EVT_ECG_ASYSTOLE	MDC
V-Fib/V-Tach	30010	MNDRY_EVT_ECG_VFIB_VTAC	99MNDRY
R on T	199814	MDC_EVT_ECG_V_P_C_RonT	MDC
Run (VT > 2)	199820	MDC_EVT_ECG_V_P_C_RUN	MDC
Couplet	199880	MDC_EVT_ECG_RHY_CPLT	MDC
Single PVC	199812	MDC_EVT_ECG_V_P_C	MDC
Bigeminy	199690	MDC_EVT_ECG_BIGEM	MDC
Trigeminy	199844	MDC_EVT_ECG_V_TRIGEM	MDC
Tachycardia	199870	MDC_EVT_ECG_SINUS_TACHY	MDC
Bradycardia	199692	MDC_EVT_ECG_SINUS_BRADY	MDC
Pacer Not Captured	199710	MDC_EVT_ECG_PACING_NON_CAPT	MDC
Pacer Not Paced	199790	MDC_EVT_ECG_PACER_NOT_PACING	MDC
Miss Beat	199686	MDC_EVT_ECG_BEAT_MISSED	MDC
V-Rhythm	199828	MDC_EVT_ECG_V_RHY	MDC

Alarm Name	Value		
	Code	Text	Coding System
V-Tach	199832	MDC_EVT_ECG_V_TACHY	MDC
V-Fib	199806	MDC_EVT_ECG_V_FIB	MDC
Multifocal PVCs	199816	MDC_EVT_ECG_V_P_C_MULTIFORM	MDC
Irregular Heart Rate	199766	MDC_EVT_ECG_CARD_BEAT_RATE_IRREG	MDC
Vent. Brady	30011	MNDRY_EVT_ECG_VENT_BRADY	99MNDRY
Extreme Tachycardia	199730	MDC_EVT_ECG_TACHY_EXTREME	MDC
Extreme Bradycardia	199694	MDC_EVT_ECG_BRADY_EXTREME	MDC
Non-sustained V-Tach	30012	MNDRY_EVT_ECG_NONSUS_VTAC	99MNDRY
Pause	199716	MDC_EVT_ECG_PAUSE	MDC
Atrial Fibrillation	30107	MNDRY_EVT_ECG_AFIB	99MNDRY
FiO2 Too Low	30108	MNDRY_EVT_FIO2_TOO_LOW	99MNDRY
High RM RR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RM RR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High RM PEEP	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RM PEEP	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High RM PIP	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RM PIP	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High RM MVE	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RM MVE	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Apnea, RM	199680	MDC_EVT_APNEA	MDC
High BIS	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BIS	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ICG CI	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ICG CI	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ICG TFC	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ICG TFC	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
SpO2 Desat	199854	MDC_EVT_DESAT	MDC
High ST V	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ST V	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Nurse Call	30179	MNDRY_EVT_NURSE_CALL	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ST Single	30008	MNDRY_EVT_ECG_ST_SINGLE	99MNDRY
ST Dual	30009	MNDRY_EVT_ECG_ST_DUAL	99MNDRY
NO Heart Rate	30106	MNDRY_EVT_NO_HEART_RATE	99MNDRY
Mixed Gas/Agent	30128	MNDRY_EVT_MIX_GAS	99MNDRY
Unknown Phys Alarm, CCO	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High CCO	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCI	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCI	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO STAT	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO STAT	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCI STAT	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCI STAT	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO EDV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO EDV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO EDVI	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO EDVI	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO SVR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO SVR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO SVRI	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO SVRI	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO SV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO SV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO SVI	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO SVI	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CCO RVEF	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CCO RVEF	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High SVO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low SVO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High SCVO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low SCVO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High SVV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low SVV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High BT	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BT	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High BIS L	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BIS L	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High BIS R	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BIS R	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, ART	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High ART-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ART-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ART-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ART-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ART-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ART-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, PA	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High PA-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PA-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PA-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PA-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PA-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PA-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, AO	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High AO-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low AO-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High AO-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low AO-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High AO-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low AO-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Unknown Phys Alarm, UAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High UAP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low UAP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High UAP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low UAP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High UAP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low UAP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, BAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High BAP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BAP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High BAP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BAP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High BAP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low BAP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, FAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High FAP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FAP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FAP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FAP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FAP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FAP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, IBP1	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP3	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP4	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP5	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP6	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP7	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, IBP8	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High IBP1-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low IBP1-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP1-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP1-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP1-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP1-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP2-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP2-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP2-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP2-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP2-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP2-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP3-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP3-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP3-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP3-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP3-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP3-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP4-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP4-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP4-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP4-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP4-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP4-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP5-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP5-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP5-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP5-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP5-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP5-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP6-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low IBP6-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP6-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP6-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP6-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP6-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP7-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP7-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP7-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP7-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP7-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP7-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP8-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP8-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP8-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP8-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IBP8-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IBP8-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, CVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High CVP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CVP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, RAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High RAP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RAP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, LAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High LAP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low LAP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, ICP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High ICP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ICP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, UVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
High UVP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low UVP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CVP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CVP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High RAP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RAP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High LAP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low LAP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ICP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ICP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High UVP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low UVP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, LVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High LVP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low LVP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CVP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low CVP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High RAP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RAP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High LAP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low LAP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ICP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ICP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High UVP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low UVP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High LVP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low LVP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High LVP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low LVP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CePP	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low CePP	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, pART	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High PART-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PART-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PART-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PART-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PART-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PART-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, pCVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High PCVP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PCVP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PCVP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PCVP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PCVP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PCVP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, ART2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High ART2-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ART2-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ART2-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ART2-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High ART2-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ART2-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Phys Alarm, IAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
High IAP-Sys	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IAP-Sys	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IAP-Mean	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IAP-Mean	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High IAP-Dia	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low IAP-Dia	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CPP	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low CPP	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Extremely High ART-Sys	30905	MNDRY_EVT_HI_VAL_GT_EXTREME_LIM	99MNDRY
Extremely Low ART-Sys	30906	MNDRY_EVT_LO_VAL_LT_EXTREME_LIM	99MNDRY
Extremely High ART-Mean	30905	MNDRY_EVT_HI_VAL_GT_EXTREME_LIM	99MNDRY
Extremely Low ART-Mean	30906	MNDRY_EVT_LO_VAL_LT_EXTREME_LIM	99MNDRY
Extremely High ART-Dia	30905	MNDRY_EVT_HI_VAL_GT_EXTREME_LIM	99MNDRY
Extremely Low ART-Dia	30906	MNDRY_EVT_LO_VAL_LT_EXTREME_LIM	99MNDRY
High SPO2B SPO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low SPO2B SPO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High DELTA SPO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
SpO2B Desat	199854	MDC_EVT_DESAT	MDC
High RSO2 CH1 RSO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RSO2 CH1 RSO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
RSO2 CH1 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY
High RSO2 CH2 RSO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RSO2 CH2 RSO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
RSO2-2 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY
High RSO2-2 CH1 RSO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RSO2-2 CH1 RSO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
RSO2-2 CH1 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY
High RSO2-2 CH2 RSO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low RSO2-2 CH2 RSO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
RSO2-2 CH2 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY
TCGAS PCO2 Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
TCGAS PO2 Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
TCGAS SPO2 Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
TCGAS PR Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC

Alarm Name	Value		
	Code	Text	Coding System
NMT Block Recovery	30756	MNDRY_EVT_NMT_BLOCK_RECOVERY	99MNDRY
Unknown Phys Alarm Violation 0	30044	MNDRY_EVT_PHYS_ALM_VIOLATION_UNKNOWN	99MNDRY
Unknown Phys Alarm Violation 1	30044	MNDRY_EVT_PHYS_ALM_VIOLATION_UNKNOWN	99MNDRY
Unknown Phys Alarm Violation 2	30044	MNDRY_EVT_PHYS_ALM_VIOLATION_UNKNOWN	99MNDRY
Unknown Phys Alarm Violation 3	30044	MNDRY_EVT_PHYS_ALM_VIOLATION_UNKNOWN	99MNDRY
Unknown Phys Alarm, Arrhythmia 0	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, Arrhythmia 1	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, Arrhythmia 2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm, Arrhythmia 3	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY
Unknown Phys Alarm 1	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 2	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 3	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 4	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 5	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 6	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 7	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 8	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 9	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 10	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 11	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 12	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 13	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 14	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Unknown Phys Alarm 15	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 16	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 17	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 18	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 19	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Unknown Phys Alarm 20	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY
Apnea, Anesthesia	199680	MDC_EVT_APNEA	MDC
ANES Apnea > 2min	30018	MNDRY_EVT_VENT_RESP_APNEA_2_MIN	99MNDRY
ANES Pressure Apnea	199680	MDC_EVT_APNEA	MDC
High Paw	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low Paw	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ANES High Paw Sustained	30019	MNDRY_EVT_PRESS_AWAY_SUSTAINED_HI	99MNDRY
ANES Pressure Limiting	30111	MNDRY_EVT_PRESSURE_LIMITING	99MNDRY
ANES Sub-Atmospheric Paw, Negative Pressure	30020	MNDRY_EVT_PRESS_AWAY_PSA	99MNDRY
High FiO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High VTe	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low VTe	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High MV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low MV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PEEP	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
ANES Pressure Limit	30021	MNDRY_EVT_PRESS_AWAY_PLIMIT	99MNDRY
ANES Continuous Airway Pressure	30022	MNDRY_EVT_CONT_PRES_15_SEC	99MNDRY
ANES Volume Apnea	199680	MDC_EVT_APNEA	MDC
ANES Apnea, CO2	199680	MDC_EVT_APNEA	MDC
Low CO2 RR	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High CO2 RR	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
High EtCO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
Low EtCO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiCO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiCO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtN2O	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtN2O	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiN2O	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiN2O	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtHAL	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtHAL	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiHAL	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiHAL	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtENF	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtENF	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiENF	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiENF	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtISO	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtISO	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiISO	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiISO	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtSEV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtSEV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiSEV	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiSEV	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtDES	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtDES	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High FiDES	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiDES	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Low EtAA	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High EtAA	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low FiAA	196674	MDC_EVT_LO_VAL_LT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
High FiAA	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
High EtO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low EtO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ANES No Pulse, SpO2	30023	MNDRY_EVT_NO_PLUSE	99MNDRY
Low SPO2 Pulse	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High SPO2 Pulse	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PEEP	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High TVe	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
VENT Apnea	199680	MDC_EVT_APNEA	MDC
VENT Apnea Ventilation	30035	MNDRY_EVT_VENT_APNEA_VENT	99MNDRY
VENT PLimit Reached	30036	MNDRY_EVT_VENT_PLIMIT_REACHED	99MNDRY
VENT Volume inconsistent	199864	MDC_EVT_RESP_VOL_BREATHING_IRREG	MDC
VENT AW Temp High	197112	MDC_EVT_VENT_TEMP_AWAY_HI	MDC
ASB > 4s	199886	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	MDC
ASB > 1.5s	199886	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	MDC
PPS-TI > 1.5s	30015	MNDRY_EVT_PPS_TI_DIFF	99MNDRY
ASB > Tinsp	30016	MNDRY_EVT_RESP_BREATHING_SPONT_ASSIST_TINSP	99MNDRY
VENT No Pulse, SpO2	30023	MNDRY_EVT_NO_PLUSE	99MNDRY
Low SpO2	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High SpO2	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
VENT High Paw Sustained	30019	MNDRY_EVT_PRESS_AWAY_SUSTAINED_HI	99MNDRY
VENT Pressure Sustained	30111	MNDRY_EVT_PRESSURE_LIMITING	99MNDRY
VENT Sub-Atmospheric Paw, Negative Pressure	30020	MNDRY_EVT_PRESS_AWAY_PSA	99MNDRY
VENT Pmax Reached	30038	MNDRY_EVT_VENT_PMAX_REACHED	99MNDRY
VENT Pinsp Not Achieved	30039	MNDRY_EVT_VENT_PINSPIRED_NOT_ACHIEVED	99MNDRY
VENT PEEP Not Achieved	30037	MNDRY_EVT_VENT_PEEP_NOT_ACHIEVED	99MNDRY
VENT No Pressure PEEP/CPAP	30040	MNDRY_EVT_VENT_NO_PRESSURE_PEEP_CPAP	99MNDRY
VENT VT Not Achieved	30041	MNDRY_EVT_VENT_VT_NOT_ACHIEVED	99MNDRY
VENT Volume Apnea	199680	MDC_EVT_APNEA	MDC

Alarm Name	Value		
	Code	Text	Coding System
VENT Volume Apnea > 2min	30018	MNDRY_EVT_VENT_RESP_APNEA_2_MIN	99MNDRY
VENT Circuit O2 High	30049	MNDRY_EVT_VENT_CIRCUIT_O2_HI	99MNDRY
VENT Circuit O2 Low	30050	MNDRY_EVT_VENT_CIRCUIT_O2_LO	99MNDRY
VENT CO2 Apnea	199680	MDC_EVT_APNEA	MDC
High Ppeak	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low Ppeak	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PEEPe	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low PEEPe	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
High PEEPi	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
VENT Paux too High	30051	MNDRY_EVT_VENT_PAUX_TOO_HI	99MNDRY
VENT Base Flow too High	30052	MNDRY_EVT_VENT_BASEFLOW_TOO_HI	99MNDRY
VENT Lose of PEEP	30014	MNDRY_EVT_PEEP_LOSS	99MNDRY
VENT Low Baseline	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
VENT High Baseline	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
VENT Sustained Hbline	30017	MNDRY_EVT_BLINE_SUSTAINED_HI	99MNDRY
VENT_FIO2 Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
NMT Battery Low	196802	MDC_EVT_BATT_LO	MDC
NMT Battery Critical Low	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY
NMT No Transducer Sensor	30112	MNDRY_EVT_NMT_NO_SENSOR	99MNDRY
NMT No Temp Sensor	30112	MNDRY_EVT_NMT_NO_SENSOR	99MNDRY
NMT No Stimulation Cable	30742	MNDRY_EVT_NMT_NO_STIMULATION_CABLE	99MNDRY
NMT Calibrate Error	30659	MNDRY_EVT_NMT_CALIBRATE_ERROR	99MNDRY
NMT Pads Bad Contact	30660	MNDRY_EVT_NMT_PADS_BAD_CONTACT	99MNDRY
NMT Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
+TWSX TOF Out Of Limit	30043	MNDRY_EVT_TWSX_TOF_OUTOF_LIMIT	99MNDRY
TCGAS CO2 Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
TCGAS O2 Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC
TCGAS Low Battery	196802	MDC_EVT_BATT_LO	MDC
TCGAS Critically Low Battery	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY
TCGAS Temp High	30578	MNDRY_EVT_TCGAS_TEMP_HIGH	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
TCGAS Unknown Tech Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
No Cable Connected 0	30955	MNDRY_EVT_CABLE_DISCONN	99MNDRY
Cable Life Expired 0	30956	MNDRY_EVT_CABLE_EXPIRED	99MNDRY
Incompatible Cable 0	30957	MNDRY_EVT_CABLE_INCOMPAT	99MNDRY
Unrecognized Cable 0	30959	MNDRY_EVT_CABLE_UNRECOGNIZED	99MNDRY
Defective Cable 0	30954	MNDRY_EVT_CABLE_DEFECT	99MNDRY
Cable Life Near Expiration 0	30958	MNDRY_EVT_CABLE_NEAR_EXPIRATION	99MNDRY
No Sensor Connected 0	196916	MDC_EVT_SENSOR_DISCONN	MDC
Sensor Life Expired 0	30991	MNDRY_EVT_SENSOR_EXPIRED	99MNDRY
Incompatible Sensor 0	30219	MNDRY_EVT_SPO2_INCOMP_SENSOR	99MNDRY
Unrecognized Sensor 0	30994	MNDRY_EVT_SENSOR_UNRECOGNIZED	99MNDRY
Defective Sensor 0	30990	MNDRY_EVT_SENSOR_DEFECT	99MNDRY
Emitter Temp Out of Range 0	30963	MNDRY_EVT_EMITTER_TEMP_OUT_OF_RANGE	99MNDRY
Sensor Current Limit Exceeded 0	30989	MNDRY_EVT_SENSOR_CUR_LIM_EXCEEDED	99MNDRY
Sensor Life Near Expiration 0	30992	MNDRY_EVT_SENSOR_NEAR_EXPIRATION	99MNDRY
No Tape 0	30996	MNDRY_EVT_TAPE_DISCONN	99MNDRY
Tape Life Expired 0	30997	MNDRY_EVT_TAPE_EXPIRED	99MNDRY
Incompatible Tape 0	30998	MNDRY_EVT_TAPE_INCOMPAT	99MNDRY
Unrecognized Tape 0	31000	MNDRY_EVT_TAPE_UNRECOGNIZED	99MNDRY
Defective Tape 0	30995	MNDRY_EVT_TAPE_DEFECT	99MNDRY
Sensor Calibrating 0	31007	MNDRY_EVT_STAT_SENSOR_CALIBRATING	99MNDRY
Sensor Off Patient 0	30993	MNDRY_EVT_SENSOR_OFF_PATIENT	99MNDRY
Pulse Search 0	30211	MNDRY_EVT_SEARCHING_PULSE	99MNDRY
Interference Detected 0	196662	MDC_EVT_INTERF	MDC
Low Perfusion Index 0	30965	MNDRY_EVT_PERF_INDEX_LO	99MNDRY
Demo Mode 0	30004	MNDRY_EVT_STAT_MODE_DEMO	99MNDRY
Tape Life Near Expiration 0	30999	MNDRY_EVT_TAPE_NEAR_EXPIRATION	99MNDRY
Long Calibration 0	30960	MNDRY_EVT_CALIB_LONG	99MNDRY
Check Sensor Connection 0	30988	MNDRY_EVT_SENSOR_CONN_CHK	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
SpO2 Only Mode 0	31009	MNDRY_EVT_STAT_SPO2_ONLY	99MNDRY
No Cable Connected 2	30955	MNDRY_EVT_CABLE_DISCONN	99MNDRY
Incompatible Cable 2	30957	MNDRY_EVT_CABLE_INCOMPAT	99MNDRY
Unrecognized Cable 2	30959	MNDRY_EVT_CABLE_UNRECOGNIZED	99MNDRY
Defective Cable 2	30954	MNDRY_EVT_CABLE_DEFECT	99MNDRY
No Sensor Connected 2	196916	MDC_EVT_SENSOR_DISCONN	MDC
Incompatible Sensor 2	30219	MNDRY_EVT_SPO2_INCOMP_SENSOR	99MNDRY
Unrecognized Sensor 2	30994	MNDRY_EVT_SENSOR_UNRECOGNIZED	99MNDRY
Defective Sensor 2	30990	MNDRY_EVT_SENSOR_DEFECT	99MNDRY
Sensor Off Patient 2	30993	MNDRY_EVT_SENSOR_OFF_PATIENT	99MNDRY
Patient Interference Detected 2	30964	MNDRY_EVT_PATIENT_INTERF	99MNDRY
Background Interference Detected 2	30951	MNDRY_EVT_BACKGROUND_INTERF	99MNDRY
No Tape Connected 2	30996	MNDRY_EVT_TAPE_DISCONN	99MNDRY
Incompatible Tape 2	30998	MNDRY_EVT_TAPE_INCOMPAT	99MNDRY
Defective Tape 2	30995	MNDRY_EVT_TAPE_DEFECT	99MNDRY
Cable Life Expired 2	30956	MNDRY_EVT_CABLE_EXPIRED	99MNDRY
Sensor Life Expired 2	30991	MNDRY_EVT_SENSOR_EXPIRED	99MNDRY
Tape Life Expired 2	30997	MNDRY_EVT_TAPE_EXPIRED	99MNDRY
Cable Life Near Expiration 2	30958	MNDRY_EVT_CABLE_NEAR_EXPIRATION	99MNDRY
Sensor Life Near Expiration 2	30992	MNDRY_EVT_SENSOR_NEAR_EXPIRATION	99MNDRY
Tape Life Near Expiration 2	30999	MNDRY_EVT_TAPE_NEAR_EXPIRATION	99MNDRY
Sensor initializing 2	31008	MNDRY_EVT_STAT_SENSOR_INITIALIZING	99MNDRY
Check sensor connection 2	30988	MNDRY_EVT_SENSOR_CONN_CHK	99MNDRY
Low Signal IQ	30975	MNDRY_EVT_PULS_OXIM_IQ_SIG_LO	99MNDRY
Low PR Confidence	30983	MNDRY_EVT_PULS_OXIM_PULSE_RATE_CONF_LO	99MNDRY
Low PI Confidence	30982	MNDRY_EVT_PULS_OXIM_PULSE_PERF_INDEX_CONF_LO	99MNDRY
Low SpCO Confidence	30969	MNDRY_EVT_PULS_OXIM_HB_CO_CONF_LO	99MNDRY
Low SpCO Perfusion Index	30970	MNDRY_EVT_PULS_OXIM_HB_CO_PERF_INDEX_LO	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Low SpMet Confidence	30971	MNDRY_EVT_PULS_OXIM_HB_MET_CONF_LO	99MNDRY
Low SpMet Perfusion Index	30972	MNDRY_EVT_PULS_OXIM_HB_MET_PERF_INDEX_LO	99MNDRY
Low SpHb Confidence	30973	MNDRY_EVT_PULS_OXIM_HB_TOTAL_CONF_LO	99MNDRY
Low SpHb Perfusion Index	30974	MNDRY_EVT_PULS_OXIM_HB_TOTAL_PERF_INDEX_LO	99MNDRY
Low Desat Index Confidence	30968	MNDRY_EVT_PULS_OXIM_DI_CONF_LO	99MNDRY
Low PI Delta Confidence	30979	MNDRY_EVT_PULS_OXIM_PERF_INDEX_DELTA_CONF_LO	99MNDRY
Low SpOC Confidence	30966	MNDRY_EVT_PULS_OXIM_CONC_HB_O2_ART_CALC_CONF_LO	99MNDRY
Low SpOC Perfusion Index	30967	MNDRY_EVT_PULS_OXIM_CONC_HB_O2_ART_CALC_PERF_INDEX_LO	99MNDRY
Low PVI Confidence	30974	MNDRY_EVT_PULS_OXIM_PLETH_VAR_INDEX_CONF_LO	99MNDRY
Low RR Confidence RRp	30984	MNDRY_EVT_PULS_OXIM_RESP_RATE_CONF_LO	99MNDRY
Low RR Signal Strength RRp	30986	MNDRY_EVT_PULS_OXIM_RESP_RATE_SIG_LO	99MNDRY
Bad Sensor Placement RRp	30987	MNDRY_EVT_PULS_OXIM_SENSOR_POSN_PROB	99MNDRY
Respiratory Pause RRp	30985	MNDRY_EVT_PULS_OXIM_RESP_RATE_PAUSE	99MNDRY
Low RR Confidence RRa	30947	MNDRY_EVT_ACOUSTIC_RESP_RATE_CONF_LO	99MNDRY
Low RR Signal Strength RRa	30949	MNDRY_EVT_ACOUSTIC_RESP_RATE_SIG_LO	99MNDRY
Bad Sensor Placement RRa	30950	MNDRY_EVT_ACOUSTIC_RESP_SENSOR_POSN_PROB	99MNDRY
Respiratory Pause RRa	30948	MNDRY_EVT_ACOUSTIC_RESP_RATE_PAUSE	99MNDRY
Low ORI Confidence	30976	MNDRY_EVT_PULS_OXIM_O2_RES_INDEX_CONF_LO	99MNDRY
Low Perfusion Index	31011	MNDRY_EVT_PULS_OXIM_GLOBAL_PERF_INDEX_LO	99MNDRY
SpO2 High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
SpO2 Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
PR High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
PR Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
PI_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
PI_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
SpCO_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
SpCO_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
SpMet_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
SpMet_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
SpHb_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
SpHb_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
DI_High	30961	MNDRY_EVT_DESAT_INDEX_HI	99MNDRY
DI_Low	30962	MNDRY_EVT_DESAT_INDEX_LO	99MNDRY
PIDelta_High	30952	MNDRY_EVT_BLD_PERF_INDEX_DELTA_HI	99MNDRY
PIDelta_Low	30953	MNDRY_EVT_BLD_PERF_INDEX_DELTA_LO	99MNDRY
SpOC_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
SpOC_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
PVI_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
PVI_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
RRp_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
RRp_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
RRa_High	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
RRa_Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
ORI_High	30977	MNDRY_EVT_PULS_OXIM_O2_RES_INDEX_HI	99MNDRY
ORI_Low	30978	MNDRY_EVT_PULS_OXIM_O2_RES_INDEX_LO	99MNDRY
Spot_check	30183	MNDRY_EVT_STAT_SPOTCHECK	99MNDRY
Alarm_Silence	30183	MNDRY_EVT_Alarm_SPO2_ALARM_Alarm_Silence	99MNDRY
Alarm_All_Mute	31010	MNDRY_EVT_STAT_AUDIO_PAUSED	99MNDRY
Low_Battery	196802	MDC_EVT_BATT_LO	MDC
CCO:ApSys Low limit	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
CCO:ApSys High limit	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
CCO:ApMap low limit	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
CCO:ApMap high limit	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
CCO:CO low limit	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
CCO:CO High Limit	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
CCO:CI low limit	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
CCO:CI High limit	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
CCO:ScvO2 low limit	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
IABP: Heart Rate Low	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
IABP: Augmentation below	196674	MDC_EVT_LO_VAL_LT_LIM	MDC

Alarm Name	Value		
	Code	Text	Coding System
limit set			
High ftotal	196652	MDC_EVT_HI_VAL_GT_LIM	MDC
Low ftotal	196674	MDC_EVT_LO_VAL_LT_LIM	MDC
Unknown Tech Alarm	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
Device Error	30176	MNDRY_EVT_DEVICE_TELEM_ERROR	99MNDRY
Screen Error	30177	MNDRY_EVT_SCREEN_ERROR	99MNDRY
ECG Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
Resp Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
ECG Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
ECG Leads Off	196882	MDC_EVT_LEADS_OFF	MDC
V Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
LL Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
LA Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
RA Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
ECG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
ECG Init Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
ECG1 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG2 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
ECG Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ECG Noise	196682	MDC_EVT_NOISY	MDC
HR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PVC Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST1 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST3 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST4 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ST5 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST6 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST7 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RR Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
RR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
Resp Disturbed	30193	MNDRY_EVT_RESP_DISTURBED	99MNDRY
ECG Signal Saturation 1	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG Signal Saturation 2	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG Signal Saturation 3	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG1 Overload	30196	MNDRY_EVT_ECG_OVERLOAD	99MNDRY
ECG2 Overload	30196	MNDRY_EVT_ECG_OVERLOAD	99MNDRY
ECG3 Overload	30196	MNDRY_EVT_ECG_OVERLOAD	99MNDRY
V1 Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
V2 Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
V3 Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
V4 Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
V5 Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
V6 Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
VA Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
VB Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
ECG3 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG4 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG5 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG6 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG7 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG8 Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ST I Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST II Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST III Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST AVR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ST AVF Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST AVL Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST V1 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST V2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST V3 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST V4 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST V5 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST V6 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST VA Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST VB Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ECG4 Signal Saturation	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG5 Signal Saturation	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG6 Signal Saturation	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG7 Signal Saturation	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG8 Signal Saturation	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY
ECG1 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG2 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG3 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG4 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG5 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG6 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG7 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ECG8 INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY
ST V Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PVCs Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST I Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST II Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST III Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST AVR Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST AVL Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ST AVF Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V1Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V2 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V3 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V4 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V5 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ST V6 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
ECG HF Noise	196682	MDC_EVT_NOISY	MDC
ECG LF Noise	196682	MDC_EVT_NOISY	MDC
ECG Artifact	30202	MNDRY_EVT_ARTIFACT	99MNDRY
ECG Weak Signal	196736	MDC_EVT_WEAK	MDC
ECG Configuration Error	30199	MNDRY_EVT_COFIG_ERROR	99MNDRY
Resp Electrode Poor Contact	30200	MNDRY_EVT_POOR_CONTACT	99MNDRY
Resp LA-RA Electrode Poor Contact	30200	MNDRY_EVT_POOR_CONTACT	99MNDRY
Resp LL-RA Electrode Poor Contact	30200	MNDRY_EVT_POOR_CONTACT	99MNDRY
Resp Electrode Poor Contact	30200	MNDRY_EVT_POOR_CONTACT	99MNDRY
ECG Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
Impedance Respiration Artifact	30127	MNDRY_EVT_RESP_ARTIFACT	99MNDRY
RL Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
PADS Off	30222	MNDRY_EVT_CABLE_OFF	99MNDRY
ECG Cable Off	30222	MNDRY_EVT_CABLE_OFF	99MNDRY
Pacer Stopped Abnormally	30210	MNDRY_EVT_PACER_STOPPED_ABNORM	99MNDRY
PADDLES Lead Off	196880	MDC_EVT_LEAD_OFF	MDC
ECG Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
ECG ESU	30204	MNDRY_EVT_ECG_ESU	99MNDRY
ECG I Noise	196682	MDC_EVT_NOISY	MDC
ECG II Noise	196682	MDC_EVT_NOISY	MDC

Alarm Name	Value		
	Code	Text	Coding System
ECG III Noise	196682	MDC_EVT_NOISY	MDC
ECG AVR Noise	196682	MDC_EVT_NOISY	MDC
ECG AVL Noise	196682	MDC_EVT_NOISY	MDC
ECG AVF Noise	196682	MDC_EVT_NOISY	MDC
ECG V1 Noise	196682	MDC_EVT_NOISY	MDC
ECG V2 Noise	196682	MDC_EVT_NOISY	MDC
ECG V3 Noise	196682	MDC_EVT_NOISY	MDC
ECG V4 Noise	196682	MDC_EVT_NOISY	MDC
ECG V5 Noise	196682	MDC_EVT_NOISY	MDC
ECG V6 Noise	196682	MDC_EVT_NOISY	MDC
ECG Leads Noise	30205	MNDRY_EVT_LEADS_NOISE	99MNDRY
ECG Leads Offset Error	30206	MNDRY_EVT_LEADS_OFFSET_ERROR	99MNDRY
ECG Cable Type Error	30207	MNDRY_EVT_CABLE_TYPE_ERROR	99MNDRY
Check Lead Connections	203298	MDC_EVT_ADVIS_LEAD_CHK	MDC
Unable Analysis QT	30669	MNDRY_EVT_UNABLE_ANALYSIS_QT	99MNDRY
Pauses Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
QT Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
QTC Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
QTHR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
VPBS Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
COUPLETS Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
Missed Beats Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PNCS Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PNPS Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RONTs Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ECG Pace Set Error	30209	MNDRY_EVT_PACE_SET_ERROR	99MNDRY
SpO2 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
SpO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
SpO2 Searching for Pulse	30211	MNDRY_EVT_SEARCHING_PULSE	99MNDRY
SpO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
SpO2 Unplugged	30212	MNDRY_EVT_UNPLUGGED	99MNDRY
SpO2 Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
SpO2 Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
SpO2 Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
SPO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
SpO2 Weak Pulse	196736	MDC_EVT_WEAK	MDC
SpO2 Weak Signal	196736	MDC_EVT_WEAK	MDC
SpO2 Check Sensor	30213	MNDRY_EVT_SPO2_CHECK_ERROR	99MNDRY
SpO2 Motion	30214	MNDRY_EVT_SPO2_MOTION	99MNDRY
SpO2 Interference	196886	MDC_EVT_LIGHT_INTERF	MDC
SpO2 Low Perfusion	30013	MNDRY_EVT_SPO2_LOW_PERFUSION	99MNDRY
SpO2 Too Much Light	196886	MDC_EVT_LIGHT_INTERF	MDC
SpO2 Unrecognized Sensor	30215	MNDRY_EVT_SPO2_UNRECOGNIZED_SENSOR	99MNDRY
SpO2 Board Fault	30216	MNDRY_EVT_SPO2_BOARD_FAULT	99MNDRY
SpO2 Sensor Error	30217	MNDRY_EVT_SPO2_SENSOR_ERROR	99MNDRY
SpO2 No Sensor	30218	MNDRY_EVT_SPO2_NO_SENSOR	99MNDRY
SpO2 Low Signal	196736	MDC_EVT_WEAK	MDC
SpO2 Incompatible Sensor	30219	MNDRY_EVT_SPO2_INCOMP_SENSOR	99MNDRY
SpO2 Out of Track	196676	MDC_EVT_LOST	MDC
SpO2 Pulse Error	30220	MNDRY_EVT_SPO2_PULSE_ERROR	99MNDRY
SpO2 Marginal Perfusion	30221	MNDRY_EVT_SPO2_MARGINAL_PERFUSION	99MNDRY
SpO2 No Pulse	30048	MNDRY_EVT_SPO2_NO_PLUSE	99MNDRY
SpO2 Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
SpO2 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
NIBP-Sys Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
NIBP-Mean Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
NIBP-Dia Alarm Limit Save	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Error			
NIBP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
NIBP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
NIBP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
NIBP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
NIBP Init Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
NIBP Self test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
NIBP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
NIBP Lose Cuff	30223	MNDRY_EVT_NIBP_LOSE_CUFF	99MNDRY
NIBP Air Leak	30224	MNDRY_EVT_NIBP_AIR_LEAK	99MNDRY
NIBP Air Error	30225	MNDRY_EVT_NIBP_AIR_ERROR	99MNDRY
NIBP Weak Signal	196736	MDC_EVT_WEAK	MDC
NIBP Out of Range	196774	MDC_EVT_RANGE_OVER	MDC
NIBP Excessive Motion	30226	MNDRY_EVT_NIBP_EXCESSIVE_MOTION	99MNDRY
NIBP Over Pressure	30227	MNDRY_EVT_NIBP_OVER_PRESSURE	99MNDRY
NIBP Signal Saturated	30228	MNDRY_EVT_NIBP_SIGNAL_SATURATED	99MNDRY
NIBP Pneumatic Leak	30229	MNDRY_EVT_NIBP_PNEUMATIC_LEAK	99MNDRY
NIBP System Failure	30230	MNDRY_EVT_NIBP_SYSTEM_FAILURE	99MNDRY
NIBP Timed Out	30231	MNDRY_EVT_NIBP_TIEMOUT	99MNDRY
NIBP Wrong Cuff Type	30232	MNDRY_EVT_NIBP_WRONG_CUFF_TYPE	99MNDRY
NIBP Measurement Fail	196964	MDC_EVT_MSMT_FAIL	MDC
NIBP Reset Error	30233	MNDRY_EVT_NIBP_RESET_ERROR	99MNDRY
NIBP Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
NIBP Reset due to Error	30234	MNDRY_EVT_NIBP_RESET_DUETO_ERROR	99MNDRY
NIBP VeniPuncture Overtime	30235	MNDRY_EVT_VENIPUNCTURE_OVERTIME	99MNDRY
NIBP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
Temp Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
T1 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
T2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
T3 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC

Alarm Name	Value		
	Code	Text	Coding System
T4 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
T5 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
T6 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
T7 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
T8 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
TEMP Board Failure	30237	MNDRY_EVT_TEMP_BOARD_ERROR	99MNDRY
TEMP Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
T1 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
T2 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
T3 Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
TD Alarm Limit Save Error	30131	MNDRY_EVT_ALARM_LIMIT_SAVE_ERROR	99MNDRY
T1 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T3 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T4 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T5 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T6 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T7 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
T8 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
TD Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
TEMP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
TEMP2 Module Error	31001	MNDRY_EVT_TEMP_MODULE_2_ERR	99MNDRY
TEMP3 Module Error	31002	MNDRY_EVT_TEMP_MODULE_3_ERR	99MNDRY
TEMP4 Module Error	31003	MNDRY_EVT_TEMP_MODULE_4_ERR	99MNDRY
TEMP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
TEMP Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
TEMP Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
TEMP Calibration Error	30238	MNDRY_EVT_TEMP_CALIB_ERROR	99MNDRY
TEMP Warmup Timed-Out	30239	MNDRY_EVT_TEMP_WARMUP_TIMEOUT	99MNDRY
TEMP Error Warming Resistor	30240	MNDRY_EVT_TEMP_WARM_RESISTOR_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
TEMP Ambient Temp High	30241	MNDRY_EVT_AMBIENT_TEMP_HIGH	99MNDRY
TEMP Ambient Temp Low	30242	MNDRY_EVT_AMBIENT_TEMP_LOW	99MNDRY
Thermometer over range	31004	MNRDY_EVT_THERM_TEMP_AMBIENT_TEMP_OUT_OF_RANGE	99MNDRY
TEMP Voltage High	30243	MNDRY_EVT_TEMP_VOLTAGE_HIGH	99MNDRY
TEMP Voltage Low	30244	MNDRY_EVT_TEMP_VOLTAGE_LOW	99MNDRY
TEMP Prediction Error	30245	MNDRY_EVT_TEMP_PREDICTION_ERROR	99MNDRY
TEMP Probe Off	30246	MNDRY_EVT_TEMP_PROBE_OFF	99MNDRY
TEMP Wrong Probe	30247	MNDRY_EVT_TEMP_WRONG_PROBE	99MNDRY
TEMP No Probe	30248	MNDRY_EVT_TEMP_NO_PROBE	99MNDRY
TEMP High Limit Out of Range	196774	MDC_EVT_RANGE_OVER	MDC
TEMP Low Limit Out of Range	196774	MDC_EVT_RANGE_OVER	MDC
TEMP Probe Misplaced	30249	MNDRY_EVT_TEMP_PROBE_MISPLACED	99MNDRY
TEMP Warming Up	30250	MNDRY_EVT_TEMP_WARMING_UP	99MNDRY
TEMP Warming Stop	30251	MNDRY_EVT_TEMP_WARMING_STOP	99MNDRY
TEMP Predicting	30252	MNDRY_EVT_TEMP_PREDICTING	99MNDRY
TEMP Prediction Over	30253	MNDRY_EVT_TEMP_PREDICTION_OVER	99MNDRY
TEMP Deviceing	30254	MNDRY_EVT_DEVCEING	99MNDRY
TEMP Device Over	30255	MNDRY_EVT_DEVCE_OVER	99MNDRY
TEMP Channel Selftest Fault	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
TEMP Comm. Abnormal	30236	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
Temp Measuring Timeout	30256	MNDRY_EVT_TEMP_MEASURE_TIMEOUT	99MNDRY
Cannot Measure Neo Rectal Temp	30257	MNDRY_EVT_CANNOT_MEASURE_NEO_RECTAL_TEMP	99MNDRY
Thermometer erro	31005	MNRDY_EVT_THERM_TEMP_ERR	99MNDRY
Infrared temperature input is out of measurement range	196774	MDC_EVT_RANGE_OVER	MDC
IBP1 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
IBP2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
IBP3 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
IBP4 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC

Alarm Name	Value		
	Code	Text	Coding System
IBP Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP1-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP1-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP1-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP2-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP2-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP2-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP3-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP3-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP3-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP4-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP4-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP4-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP1 Need Calc. Zero	30258	MNDRY_EVT_BIP_NEED_CALC_ZERO	99MNDRY
IBP2 Need Calc. Zero	30258	MNDRY_EVT_BIP_NEED_CALC_ZERO	99MNDRY
IBP3 Need Calc. Zero	30258	MNDRY_EVT_BIP_NEED_CALC_ZERO	99MNDRY
IBP4 Need Calc. Zero	30258	MNDRY_EVT_BIP_NEED_CALC_ZERO	99MNDRY
IBP Sensor Fault	30259	MNDRY_EVT_IBP_SENSOR_FAULT	99MNDRY
ART Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
AO Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
UAP Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
FAP Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
BAP Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
LVP Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
pART Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
IBP1 Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
IBP2 Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
IBP3 Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
IBP4 Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY
TB Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
TI Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
TB Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
C.O. Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
C.O. Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
C.O. Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
CO TB Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
CO TI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
CO Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
C.O. Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
C.O. Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
C.O. No Sensor	30261	MNDRY_EVT_CO_NO_SENSOR	99MNDRY
C.O. Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
TB Calibration Error	30262	MNDRY_EVT_TB_CALIBRATION_ERROR	99MNDRY
TI Calibration Error	30263	MNDRY_EVT_TI_CALIBRATION_ERROR	99MNDRY
CO2 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
CO2 Standby	30265	MNDRY_EVT_CO2_STANDBY	99MNDRY
CO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
CO2 Warm Up	30266	MNDRY_EVT_CO2_WARM_UP	99MNDRY
CO2 Sensor Warm Up	30267	MNDRY_EVT_CO2_SENSOR_WARM_UP	99MNDRY
CO2 No Watertrap	30268	MNDRY_EVT_CO2_NO_WATERTRAP	99MNDRY
CO2 Watertrap Occlude	30269	MNDRY_EVT_CO2_WATERTRAP_OCCLUDE	99MNDRY
CO2 Signal Low	30270	MNDRY_EVT_CO2_SIGNAL_LOW	99MNDRY
CO2 Signal Too Low	30271	MNDRY_EVT_CO2_SIGNAL_TOO_LOW	99MNDRY
CO2 Barometric Too Large	30272	MNDRY_EVT_CO2_BAROMETRIC_TOO_LARGE	99MNDRY
CO2 Pneumatic Leak	30273	MNDRY_EVT_CO2_PNEUMATIC_LEAK	99MNDRY
CO2 Signal Noisy	30274	MNDRY_EVT_CO2_SIGNAL_NOISY	99MNDRY
CO2 Signal Saturated	30275	MNDRY_EVT_CO2_SIGNAL_SATURATED	99MNDRY
CO2 Calculation Error	30276	MNDRY_EVT_CO2_CALCUL_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
CO2 Sensor Fault	30277	MNDRY_EVT_CO2_SENSOR_FAULT	99MNDRY
CO2 Sensor Temp High	30278	MNDRY_EVT_CO2_SENSOR_TEMP_HIGH	99MNDRY
CO2 Sensor Temp Low	30279	MNDRY_EVT_CO2_SENSOR_TEMP_LOW	99MNDRY
CO2 Watchdog Timeout	30280	MNDRY_EVT_CO2_WATCHDOG_TIMEOUT	99MNDRY
CO2 System Error ROM	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY
CO2 System Error FLASH	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY
CO2 Internal Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
CO2 System Error EXTRAM	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY
CO2 System Error INTRAM	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY
CO2 System Error STACK	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY
CO2 Pump Fault	30282	MNDRY_EVT_CO2_PUMP_FAULT	99MNDRY
CO2 Reverse Flow	30283	MNDRY_EVT_CO2_REVERSE_FLOW	99MNDRY
CO2 Forward Flow	30284	MNDRY_EVT_CO2_FORWARD_FLOW	99MNDRY
CO2 Malfunction	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY
CO2 Barometric High	30286	MNDRY_EVT_CO2_BAROMETRIC_HIGH	99MNDRY
CO2 Barometric Low	30287	MNDRY_EVT_CO2_BAROMETRIC_LOW	99MNDRY
CO2 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
CO2 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
CO2 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
CO2 Limit Changed	30287	MNDRY_EVT_CO2_LIMIT_CHANGED	99MNDRY
INSCO2 Limit Changed	30288	MNDRY_EVT_INSCO2_LIMIT_CHANGED	99MNDRY
CO2 AWRR Limit Changed	30289	MNDRY_EVT_AWRR_LIMIT_CHANGED	99MNDRY
CO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
InsCO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
awRR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
INSO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ETO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
CO2 Maintain	30290	MNDRY_EVT_CO2_MAINTAIN	99MNDRY
CO2 Start Up	30291	MNDRY_EVT_CO2_START_UP	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
CO2 Calibrate Zero	30292	MNDRY_EVT_CO2_CALIB_ZERO	99MNDRY
CO2 Calibrate	30293	MNDRY_EVT_CO2_CALIBRATE	99MNDRY
CO2 Airway Press High	30294	MNDRY_EVT_CO2_AIRWAY_PRESS_HIGH	99MNDRY
CO2 Airway Press Low	30295	MNDRY_EVT_CO2_AIRWAY_PRESS_LOW	99MNDRY
CO2 Hardware Error	30296	MNDRY_EVT_CO2_HARDWARE_ERROR	99MNDRY
CO2 Filter Line Abnormal	30297	MNDRY_EVT_CO2_FITER_LINE_ABNORMAL	99MNDRY
CO2 Zeroing Failed	30298	MNDRY_EVT_CO2_ZEROING_FAILED	99MNDRY
CO2 User Calibrate Fail	30299	MNDRY_EVT_CO2_USER_CALIB_FAILED	99MNDRY
CO2 Factory Calibrate Fail	30300	MNDRY_EVT_CO2_FACTORY_CALIB_FAILED	99MNDRY
CO2 System Error	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY
CO2 EX-A/D 2.5V Power Error	30301	MNDRY_EVT_EX_A/D_2_5V_POWER_ERROR	99MNDRY
CO2 12V Power Error	30302	MNDRY_EVT_CO2_12V_POWER_ERROR	99MNDRY
CO2 IN-A/D 2.5V Power Error	30303	MNDRY_EVT_IN_A/D_2_5V_POWER_ERROR	99MNDRY
CO2 Pump Abnormal	30304	MNDRY_EVT_CO2_PUMP_ABNORMAL	99MNDRY
CO2 Valve Abnormal	30305	MNDRY_EVT_CO2_VALVE_ABNORMAL	99MNDRY
CO2 Motor Abnormal	30306	MNDRY_EVT_CO2_MOTOR_ABMORMAL	99MNDRY
CO2 Flow CTR Error	30307	MNDRY_EVT_CO2_FLOW_CTR_ERROR	99MNDRY
CO2 Factory Calibrate Invalid	30308	MNDRY_EVT_CO2_FACTORY_CALIB_INVALID	99MNDRY
CO2 EEPROM R/W Addr. Error	30309	MNDRY_EVT_EEPROM_R/M_ADDR_ERROR	99MNDRY
CO2 EEPROM R/W Length Error	30310	MNDRY_EVT_EEPROM_R/M_LEN_ERROR	99MNDRY
CO2 EEPROM Response Error	30311	MNDRY_EVT_EEPROM_RESPONSE_ERROR	99MNDRY
CO2 EEPROM Checksum Error	30312	MNDRY_EVT_EEPROM_CHECKSUM_ERROR	99MNDRY
CO2 EX-AD Sample Channel Error	30313	MNDRY_EVT_EXAD_SAMPLE_CHANNEL_ERROR	99MNDRY
CO2 IN-AD Sample Channel Error	30314	MNDRY_EVT_INAD_SAMPLE_CHANNEL_ERROR	99MNDRY
CO2 Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
CO2 COMM TXD Buffer Full	30315	MNDRY_EVT_COMM_TXD_BUFFER_FULL	99MNDRY
CO2 COMM RXD Register Error	30316	MNDRY_EVT_COMM_RXD_REGISTER_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
CO2 COMM RXD Buffer Full	30317	MNDRY_EVT_COMM_RXD_BUFFER_FULL	99MNDRY
CO2 COMM RXD Overtime	30318	MNDRY_EVT_COMM_RXD_OVERTIME	99MNDRY
CO2 COMM RXD Illegal ASCII	30319	MNDRY_EVT_COMM_RXD_ILLEGAL_ASCII	99MNDRY
CO2 COMM RXD Frame Error	30320	MNDRY_EVT_COMM_RXD_FRAME_ERROR	99MNDRY
CO2 COMM RXD Length Error	30321	MNDRY_EVT_COMM_RXD_LENGTH_ERROR	99MNDRY
CO2 Power Up	30322	MNDRY_EVT_CO2_POWER_UP	99MNDRY
CO2 SFM	30323	MNDRY_EVT_CO2_SFM	99MNDRY
CO2 Initializing	30324	MNDRY_EVT_CO2_INITIALIZING	99MNDRY
CO2 Calibrating	30293	MNDRY_EVT_CO2_CALIBRATE	99MNDRY
CO2 Overrange	196774	MDC_EVT_RANGE_OVER	MDC
CO2 Check Calibration	30325	MNDRY_EVT_CO2_CHECK_CALIBRATION	99MNDRY
CO2 Check Airway	30326	MNDRY_EVT_CO2_CHECK_AIRWAY	99MNDRY
CO2 FilterLine Occluded	30327	MNDRY_EVT_CO2_FILTERLINE_OCCLUDED	99MNDRY
CO2 Malfunction 1	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY
CO2 Malfunction 2	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY
CO2 Malfunction 3	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY
CO2 Malfunction 4	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY
CO2 Malfunction 5	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY
CO2 No Filterline	30328	MNDRY_EVT_CO2_NO_FILTERLINE	99MNDRY
CO2 Purging	30329	MNDRY_EVT_CO2_PURGING	99MNDRY
CO2 Calibrate Error	30330	MNDRY_EVT_CO2_CALIB_ERROR	99MNDRY
CO2 Barometric Too High	30331	MNDRY_EVT_CO2_BAROMETRIC_TOO_HIGH	99MNDRY
CO2 Barometric Too Low	30332	MNDRY_EVT_CO2_BAROMETRIC_TOO_LOW	99MNDRY
CO2 Require Zero	30333	MNDRY_EVT_CO2_REQUIRE_ZERO	99MNDRY
CO2 Check Adapter	30334	MNDRY_EVT_CO2_CHECK_ADAPTER	99MNDRY
CO2 Main Board Err	30335	MNDRY_EVT_CO2_MAIN_BOARD_ERROR	99MNDRY
CO2 Need Replace Scrubber and Pump	30336	MNDRY_EVT_CO2_REPLACE_PUMP	99MNDRY
CO2 Check PCB	30337	MNDRY_EVT_CO2_CHECK_PCB	99MNDRY
CO2 15V Overrange	196774	MDC_EVT_RANGE_OVER	MDC

Alarm Name	Value		
	Code	Text	Coding System
CO2 Temp Overrange	196774	MDC_EVT_RANGE_OVER	MDC
CO2 No Sensor	30338	MNDRY_EVT_CO2_NO_SENSOR	99MNDRY
CO2 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
CO2 Normalization Failed	30339	MNDRY_EVT_CO2_NORMALIZATION_FAIL	99MNDRY
CO2 Need Change Water trap	30672	MNDRY_EVT_CO2_NEED_CHANGE_WATERTRAP	99MNDRY
Water trap Mismatch Patient Size	30673	MNDRY_EVT_WATERTRAP_MISMATCH_PATIENT	99MNDRY
CO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
CO2 Need Change Battery	203286	MDC_EVT_ADVIS_BATT_REPLACE	MDC
CO2 O2 Error	30341	MNDRY_EVT_CO2_O2_ERROR	99MNDRY
AG No Water Trap	30345	MNDRY_EVT_AG_NO_WATERTRAP	99MNDRY
AG Change Water Trap	30346	MNDRY_EVT_AG_CHANGE_WATERTRAP	99MNDRY
AG Wrong Water Trap	30347	MNDRY_EVT_AG_WRONG_WATERTRAP	99MNDRY
AG Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
AG Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
AG Occlusion	30348	MNDRY_EVT_AG_OCCLUSION	99MNDRY
AG Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
AG Hardware Error	30349	MNDRY_EVT_AG_HARDWARE_ERROR	99MNDRY
AG Paramagnetic O2 Error	30350	MNDRY_EVT_AG_PARAMAGNETIC_O2_ERROR	99MNDRY
AG Galvanic O2 Sensor Error	30351	MNDRY_EVT_AG_GALVANIC_O2_SENSOR_ERROR	99MNDRY
AG Oxima Depletion Warn	30352	MNDRY_EVT_AG_OXIMA_DEPLETION_WARN	99MNDRY
AG Oxima Depletion Error	30353	MNDRY_EVT_AG_OXIMA_DEPLETION_ERROR	99MNDRY
AG Data Limit Error	30354	MNDRY_EVT_AG_DATA_LIMIT_ERROR	99MNDRY
AG Accuracy Error	30355	MNDRY_EVT_AG_ACCURACY_ERROR	99MNDRY
AG Zeroing Failed	30356	MNDRY_EVT_AG_ZEROING_FAILED	99MNDRY
AG Calibration Failed	30357	MNDRY_EVT_AG_CALIB_FAILED	99MNDRY
EtCO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiCO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
FiO2 Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtN2O Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiN2O Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtAA Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiAA Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
AG CO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
AG Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
EtHAL Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiHAL Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtENF Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiENF Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtISO Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiISO Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtSEV Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiSEV Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EtDES Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FiDES Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
AG CO2 Accuracy Unspecified	30358	MNDRY_EVT_AG_CO2_ACCURACY_UNSPECIFIED	99MNDRY
AG O2 Accuracy Unspecified	30359	MNDRY_EVT_AG_O2_ACCURACY_UNSPECIFIED	99MNDRY
AG N2O Accuracy Unspecified	30360	MNDRY_EVT_AG_N2O_ACCURACY_UNSPECIFIED	99MNDRY
AG RR Accuracy Unspecified	30264	MNDRY_EVT_AG_RR_ACCURACY_UNSPECIFIED	99MNDRY
AG Hal Accuracy Unspecified	30364	MNDRY_EVT_AG_HAL_ACCURACY_UNSPECIFIED	99MNDRY
AG Enf Accuracy Unspecified	30361	MNDRY_EVT_AG_ENF_ACCURACY_UNSPECIFIED	99MNDRY
AG Iso Accuracy Unspecified	30362	MNDRY_EVT_AG_ISO_ACCURACY_UNSPECIFIED	99MNDRY
AG Sev Accuracy Unspecified	30363	MNDRY_EVT_AG_SEV_ACCURACY_UNSPECIFIED	99MNDRY
AG Des Accuracy Unspecified	30365	MNDRY_EVT_AG_DES_ACCURACY_UNSPECIFIED	99MNDRY
Anesthetic Mixture	30128	MNDRY_EVT_MIX_GAS	99MNDRY
AG Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
AG Not Connected	30368	MNDRY_EVT_AG_NOT_CONNECTED	99MNDRY
AG Zeroing	30369	MNDRY_EVT_AG_ZEROING	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
AG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
NMT No Main Cable	30370	MNDRY_EVT_NMT_NO_MAIN_CABLE	99MNDRY
NMT No Sensor	30112	MNDRY_EVT_NMT_NO_SENSOR	99MNDRY
NMT Stimulation Electrode Off	30113	MNDRY_EVT_NMT_ELECTRODE_OFF	99MNDRY
NMT Sensor Comm Err	30114	MNDRY_EVT_NMT_SENSOR_COMM_ERROR	99MNDRY
Stimulation Current Over Limit	30115	MNDRY_EVT_NMT_SMLT_OVER_LIMIT	99MNDRY
NMT Comm Abnormal	30116	MNDRY_EVT_NMT_COMM_ABNORM	99MNDRY
NMT Comm Stop	30117	MNDRY_EVT_NMT_COMM_STOP	99MNDRY
NMT Comm Err	30118	MNDRY_EVT_NMT_COMM_ERR	99MNDRY
NMT Init Err	30120	MNDRY_EVT_NMT_INIT_ERR	99MNDRY
NMT SelfTest Err	30121	MNDRY_EVT_NMT_SELFTEST_ERR	99MNDRY
NMT Power Err	30122	MNDRY_EVT_NMT_POWER_ERR	99MNDRY
NMT Abnormal Reset	30123	MNDRY_EVT_NMT_RESET_ABNORM	99MNDRY
TOF-Ratio Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ST-Ratio Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
DBS-Ratio Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
NMT Sensor Failure	30371	MNDRY_EVT_NMT_SENSOR_FAILURE	99MNDRY
NMT Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
System WD Failure	30372	MNDRY_EVT_SYSTEM_WD_FAILURE	99MNDRY
System Software Error	30373	MNDRY_EVT_SYSTEM_SOFTWARE_ERROR	99MNDRY
System CMOS Full	30374	MNDRY_EVT_SYSTEM_CMOS_FULL	99MNDRY
System CMOS Error	30375	MNDRY_EVT_SYSTEM_CMOS_ERROR	99MNDRY
System FPGA Failure	30376	MNDRY_EVT_SYSTEM_FPGA_FAILURE	99MNDRY
RT Clock Need Reset	30377	MNDRY_EVT_RT_CLOCK_NEED_RESET	99MNDRY
RT Clock Not Exist	30378	MNDRY_EVT_RT_CLOCK_NOT_EXIST	99MNDRY
System Failure 2	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 3	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 4	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
System Failure 5	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 6	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 7	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 8	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 9	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 10	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 11	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
System Failure 12	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY
CF Storage Card Error	30380	MNDRY_EVT_CF_STORAGE_CARD_ERROR	99MNDRY
IP Address Conflict	30381	MNDRY_EVT_IP_CONFLICT	99MNDRY
Parameter Accuracy Error	30382	MNDRY_EVT_PARA_ACCURACY_ERROR	99MNDRY
Loading User Config. Failed	30383	MNDRY_EVT_LOAD_USER_CFG_FAIL	99MNDRY
Loading Factory Config. Failed	30384	MNDRY_EVT_LOAD_FACTORY_CFG_FAIL	99MNDRY
Loading Recent Config. Failed	30385	MNDRY_EVT_LOAD_RECENT_CFG_FAIL	99MNDRY
Loading Default Config. Failed	30386	MNDRY_EVT_LOAD_DEFAULT_CFG_FAIL	99MNDRY
Storage Card Space Low	30387	MNDRY_EVT_STORAGE_CARD_SPACE_LOW	99MNDRY
Cooling Fan Failure	197148	MDC_EVT_VENT_TEMP_HI	MDC
No Fan	30388	MNDRY_EVT_NO_FAN	99MNDRY
No Speaker	30389	MNDRY_EVT_NO_SPEAKER	99MNDRY
No Data Card	30390	MNDRY_EVT_NO_DATA_CARD	99MNDRY
Power Board Comm Err	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Therapy Module Comm Err	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Main Control Selftest Err	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Data Card Err	30391	MNDRY_EVT_DATA_CARD_ERROR	99MNDRY
ECG algorithm mismatched	30392	MNDRY_EVT_ECG_ALG_MISMATCH	99MNDRY
Keyboard Communications Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Last User Test Failed	30393	MNDRY_EVT_LAST_USER_TEST_FAILED	99MNDRY
Last Auto Test Failed	30394	MNDRY_EVT_LAST_AUTO_TEST_FAILED	99MNDRY
Load Configuration Error	30395	MNDRY_EVT_LOAD_CFG_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Therapy Equip Selftest Err	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Defib Malfunction	30396	MNDRY_EVT_DEFIB_MALFUNCTION	99MNDRY
Pacer Malfunction	30397	MNDRY_EVT_PACER_MALFUNCTION	99MNDRY
Disarming Failed	30398	MNDRY_EVT_DISARMING_FAILED	99MNDRY
Monitor Module Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Monitor Module Reset Error	30399	MNDRY_EVT_MONITOR_MODULE_RESET_ERROR	99MNDRY
Monitor Module Voltage Error	30400	MNDRY_EVT_MONITOR_MODULE_VOLTAGE_ERROR	99MNDRY
Not Charge/Discharge Frequently	30401	MNDRY_EVT_NOT_CHARGE/DISCHARGE_FREQUENTLY	99MNDRY
Machine Type Error	30402	MNDRY_EVT_MACHINE_TYPE_ERROR	99MNDRY
USB Drive Error	30403	MNDRY_EVT_USB_DRIVE_ERROR	99MNDRY
USB Drive Space Low	30404	MNDRY_EVT_USB_DRIVE_SPACE_LOW	99MNDRY
Battery Charging Err	30405	MNDRY_EVT_BATTERY_CHARGING_ERROR	99MNDRY
Keyboard Init. Error	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Init. Error CPU	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Init. Error WD	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Init. Error RAM	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Init. Error ROM	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Init. Error UD1	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Init. Error UD2	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY
Keyboard Not Available	30407	MNDRY_EVT_KEYBOARD_NOT_AVAILABLE	99MNDRY
Keyboard Error	30408	MNDRY_EVT_KEYBOARD_ERROR	99MNDRY
Keyboard Failure	30409	MNDRY_EVT_KEYBOARD_FAILURE	99MNDRY
Network Init. Error	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Network Init. Error RAM	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Network Init. Error ROM	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Network Init. Error RUN	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Network Init. Error RUN1	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Network Init. Error RUN2	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Network Init. Error RUN3	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Network Init. Error RUN4	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY
Power Voltage Too High	30411	MNDRY_EVT_POWER_VOL_TOO_HIGH	99MNDRY
Power Voltage Too Low	30412	MNDRY_EVT_POWER_VOL_TOO_LOW	99MNDRY
Over Voltage Protection	30413	MNDRY_EVT_OVER_VOL_PROTECTION	99MNDRY
DC Temp Too High	30414	MNDRY_EVT_DC_TEMP_TOO_HIGH	99MNDRY
DC Temp Too Low	30415	MNDRY_EVT_DC_TEMP_TOO_LOW	99MNDRY
Low Battery	196802	MDC_EVT_BATT_LO	MDC
20m Battery Power Left	30416	MNDRY_EVT_20M_BATTERY_LEFT	99MNDRY
10m Battery Power Left	30417	MNDRY_EVT_10M_BATTERY_LEFT	99MNDRY
Battery Temp Too High	30418	MNDRY_EVT_BATTERY_TEMP_TOO_HIGH	99MNDRY
Battery Temp Too Low	30419	MNDRY_EVT_BATTERY_TEMP_TOO_LOW	99MNDRY
Battery Over Charged	30420	MNDRY_EVT_BATTERY_OVER_CHARGE	99MNDRY
Battery Voltage Too High	30421	MNDRY_EVT_BATTERY_VOL_TOO_HIGH	99MNDRY
Battery Voltage Too Low	30422	MNDRY_EVT_BATTERY_VOL_TOO_LOW	99MNDRY
Battery Difference	30423	MNDRY_EVT_BATTERY_DIFF	99MNDRY
Battery Removed	30424	MNDRY_EVT_BATTERY_REMOVED	99MNDRY
Only One Battery	30425	MNDRY_EVT_ONLY_ONE_BATTERY	99MNDRY
Power Board Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Critically Low Battery	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY
Battery Overload	30427	MNDRY_EVT_BATTERY_OVERLOAD	99MNDRY
Power Board Volt Error	30428	MNDRY_EVT_POWER_BOARD_VOL_ERROR	99MNDRY
No Battery	30130	MNDRY_EVT_BATTERY_MISSING	99MNDRY
Battery Error	30430	MNDRY_EVT_BATTERY_ERROR	99MNDRY
Battery Aged	30431	MNDRY_EVT_BATTERY_AGED	99MNDRY
Battery Failed Charging	30432	MNDRY_EVT_BATTERY_CHARGING_FAIL	99MNDRY
RT Clock Error	30433	MNDRY_EVT_RT_CLOCK_ERROR	99MNDRY
Battery Charging Error	30434	MNDRY_EVT_CHARGING_ERROR	99MNDRY
Powerboard Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Power Interrupted	30435	MNDRY_EVT_POWER_INTERRUPTED	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Recorder Init. Error	30436	MNDRY_EVT_RECORDER_INIT_ERROR	99MNDRY
Recorder Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Recorder Initializing	30437	MNDRY_EVT_RECORDER_INITIALIZING	99MNDRY
Recorder Busy	30438	MNDRY_EVT_RECORDER_BUSY	99MNDRY
Recorder Voltage High	30439	MNDRY_EVT_RECORDER_VOL_HIGH	99MNDRY
Recorder Voltage Low	30440	MNDRY_EVT_RECORDER_VOL_LOW	99MNDRY
Recorder Too Hot	30441	MNDRY_EVT_RECORDER_TOO_HOT	99MNDRY
Recorder Out of Alignment	30442	MNDRY_EVT_RECORDER_OUTOF_ALIGN	99MNDRY
Recorder Out of Paper	203302	MDC_EVT_ADVIS_REC_PAPER_REPLACE	MDC
Recorder Paper Jam	30444	MNDRY_EVT_RECORDER_PAPER_JAM	99MNDRY
Recorder Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Recorder Queue Full	30445	MNDRY_EVT_RECORDER_QUEUE_FULL	99MNDRY
Recorder Paper Wrong Pos.	30446	MNDRY_EVT_RECORDER_PAPER_WP	99MNDRY
Recorder Serial Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
Recorder Not Available	30447	MNDRY_EVT_RECORDER_NOT_AVAILABLE	99MNDRY
Recorder Over Current	30448	MNDRY_EVT_RECORDER_OVERCURRENT	99MNDRY
Patient Info Conflict	30449	MNDRY_EVT_PATINFO_CONFLICT	99MNDRY
Not Wave Saved	30451	MNDRY_EVT_NOT_WAVE_SAVED	99MNDRY
Net Disconnected	30452	MNDRY_EVT_NET_DISCONNECTED	99MNDRY
Patient Info Conflict With ADT	30454	MNDRY_EVT_PATINFO_CONFLICT_WITH_ADT	99MNDRY
T1 Battery Temp Too High	30467	MNDRY_EVT_T1_BATTERY_TEMP_TOO_HIGH	99MNDRY
Read dock E2PROM error	30468	MNDRY_EVT_READ_DOCK_E2PROM_ERROR	99MNDRY
Tele Interference	30469	MNDRY_EVT_TELE_INTERFERNECE	99MNDRY
Tele No Signal	30470	MNDRY_EVT_TELE_NO_SIGNAL	99MNDRY
Tele Receiver Fault	30471	MNDRY_EVT_TELE_RECEIVER_FAULT	99MNDRY
Wrong ID	30473	MNDRY_EVT_WRONG_ID	99MNDRY
Wrong Channel	30474	MNDRY_EVT_WRONG_CHANNEL	99MNDRY
NIBP Pod Master CPU Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
NIBP Pod Slave CPU Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
NIBP Pod Battery Low	30475	MNDRY_EVT_NIBP_POD_BATTERY_LOW	99MNDRY
NIBP Pod Battery Depleted	30674	MNDRY_EVT_NIBP_POD_BATTERY_DEPLETED	99MNDRY
NIBP Pod Voltage Abnormal	30675	MNDRY_EVT_NIBP_POD_VOLTAGE_ABNORMAL	99MNDRY
NIBP Pod Battery Abnormal	30676	MNDRY_EVT_NIBP_POD_BATTERY_ABNORMAL	99MNDRY
NIBP Pod Battery Maintenance Required	30677	MNDRY_EVT_NIBP_POD_BATTERY_MAINTENANCE_REQUIRED	99MNDRY
NIBP Pod Clock Needs To Be Set	30678	MNDRY_EVT_NIBP_POD_CLOCK_NEEDS_TO_BE_SET	99MNDRY
NIBP All Seq Not Set	30679	MNDRY_EVT_NIBP_ALL_SEQ_NOT_SET	99MNDRY
SPO2 POD Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Transmitter Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY
Battery Type Error	30476	MNDRY_EVT_BATTERY_TYPE_ERROR	99MNDRY
RF Protocol Incompatible	30477	MNDRY_EVT_RF_PROTOCOL_INCOMP	99MNDRY
Vent Hardware Error	30478	MNDRY_EVT_VENT_HARDWARE_ERROR	99MNDRY
Vent INAD Convert Failure	30479	MNDRY_EVT_VENT_INAD_CONVERT_FAIL	99MNDRY
Vent EXAD Convert Failure	30480	MNDRY_EVT_VENT_EXAD_CONVERT_FAIL	99MNDRY
Vent 12V Error	30481	MNDRY_EVT_VENT_12V_ERROR	99MNDRY
Vent 5V Error	30482	MNDRY_EVT_VENT5V_ERROR	99MNDRY
Vent Supply Pressure High	30483	MNDRY_EVT_VENT_SUPPLY_PRESSURE_HIGH	99MNDRY
Vent O2 Supply Failure	30484	MNDRY_EVT_VENT_O2_SUPPLY_FAILURE	99MNDRY
Vent Device Falut	30485	MNDRY_EVT_VENT_DEVICE_FAULT	99MNDRY
Vent Sustained PAW	30486	MNDRY_EVT_VENT_SUSTAINED_PAW	99MNDRY
Vent Negative Airway	30487	MNDRY_EVT_VENT_NEGATIVE_AIRWAY	99MNDRY
Vent Volm Apnea Long	30488	MNDRY_EVT_VENT_VOLM_APNEA_LONG	99MNDRY
Vent Bellow Open	30489	MNDRY_EVT_VENT_BELLOW_OPEN	99MNDRY
Vent AUX Outlet Open	30490	MNDRY_EVT_VENT_AUX_OUTLET_OPEN	99MNDRY
Vent PEEP Valve Fault	30491	MNDRY_EVT_VENT_PEEP_VALVE_FAULT	99MNDRY
Vent INSP Valve Fault	30492	MNDRY_EVT_VENT_INSP_VALVE_FAULT	99MNDRY
Vent PEEP Drive Fault	30493	MNDRY_EVT_VENT_PEEP_DRIVE_FAULT	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Vent Device Only	30494	MNDRY_EVT_VENT_DEVICE_ONLY	99MNDRY
Vent O2 Flush Fault	30495	MNDRY_EVT_VENT_O2_FLUSH_FAULT	99MNDRY
Vent O2 Mon Fault	30496	MNDRY_EVT_VENT_O2_MON_FAULT	99MNDRY
Vent Circuit Leak	30497	MNDRY_EVT_VENT_CIRCUIT_LEAK	99MNDRY
Vent Pressure Channel Fault	30498	MNDRY_EVT_VENT_PERSSURE_CHANNEL_FAULT	99MNDRY
Vent Volm Mon Disable	30499	MNDRY_EVT_VENT_VOLM_MON_DISABLE	99MNDRY
Vent Cal Flow Sensor	30500	MNDRY_EVT_VENT_CAL_FLOW_SENSOR	99MNDRY
Vent Cal PEEP Valve	30501	MNDRY_EVT_VENT_CAL_PEEP_VALVE	99MNDRY
Vent Cal O2 Sensor	30502	MNDRY_EVT_VENT_O2_SENSOR_REQ_CAL	99MNDRY
Vent Canister Open	30503	MNDRY_EVT_VENT_CANISTER_OPEN	99MNDRY
Vent O2 Sensor Unconnected	30504	MNDRY_EVT_VENT_O2_SENSOR_UNCONNECTED	99MNDRY
Vent Flow Sensor Fault	30505	MNDRY_EVT_VENT_FLOW_SENSOR_FAULT	99MNDRY
Vent VT Comp Disabled	30506	MNDRY_EVT_VENT_VT_COMP_DISABLED	99MNDRY
Vent Pinsp Not Achieved	30507	MNDRY_EVT_VENT_PINSPP_NOT_ACHIEVED	99MNDRY
Vent VTE Exceed VTi	30508	MNDRY_EVT_VENT_VTE_EXCEED_VTI	99MNDRY
Vent VT High	30509	MNDRY_EVT_VENT_VT_HIGH	99MNDRY
Vent VT Low	30510	MNDRY_EVT_VENT_VT_LOW	99MNDRY
Vent Flow Sensor Zeroing Fail	30511	MNDRY_EVT_VENT_FLOW_SENSOR_ZEROING_FAIL	99MNDRY
Vent TRI Port Valve Error	30512	MNDRY_EVT_VENT_TRI_PORT_VALVE_ERROR	99MNDRY
RM Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
RM Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
RM Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
RM Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
RM Sensor Reserved	30513	MNDRY_EVT_RM_SENSOR_RESERVED	99MNDRY
RM Calib. Zero Failure	30552	MNDRY_EVT_RM_ZERO_FAILURE	99MNDRY
RM User Calibration Fail	30514	MNDRY_EVT_RM_USER_CALIB_FAIL	99MNDRY
RM Factory Calibration Fail	30515	MNDRY_EVT_RM_FACTORY_CALIB_FAIL	99MNDRY
RM Zeroing	30516	MNDRY_EVT_RM_ZEROING	99MNDRY
RM Calibrating	30517	MNDRY_EVT_RM_CALIBRATING	99MNDRY
rmRR Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
PEEP Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
MVE Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PIP Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PPlat Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PMean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
TVI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
TVE Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
MVI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PIF Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PEF Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
I:E Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
COMPL Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RAW Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FEV Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RSBI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
WOB Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
NIP Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RM Power Error	30518	MNDRY_EVT_RM_POWER_ERROR	99MNDRY
RM Checking	30519	MNDRY_EVT_RM_CHECKING	99MNDRY
RM Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
RM Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
RM Inner Sensor Fault	30520	MNDRY_EVT_RM_INNER_SENSRO_FAULT	99MNDRY
RM Artema Not Calibrate	30521	MNDRY_EVT_RM_ARTEMA_NOT_CALIB	99MNDRY
BIS Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
BIS Communication Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
BIS Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
BIS Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
SQI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
SI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
EMG Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
BIS Interference	30522	MNDRY_EVT_BIS_INTERFERENCE	99MNDRY
BIS High Impedance	30523	MNDRY_EVT_BIS_HIGH_IMPEDANCE	99MNDRY
BIS Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
BIS DSC Error	30524	MNDRY_EVT_BIS_DSC_ERROR	99MNDRY
BIS DSC Malfunction	30525	MNDRY_EVT_BIS_DSC_MALFUNCTION	99MNDRY
BIS No Cable	30526	MNDRY_EVT_BIS_NO_CABLE	99MNDRY
BIS No Sensor	30527	MNDRY_EVT_BIS_NO_SENSOR	99MNDRY
BIS Sensor Error	30528	MNDRY_EVT_BIS_SENSOR_ERROR	99MNDRY
BIS SQI < 50%	30529	MNDRY_EVT_BIS_SQI_LESS_THAN_50	99MNDRY
BIS SQI < 15%	30530	MNDRY_EVT_BIS_SQI_LESS_THAN_15	99MNDRY
BIS Sensor Expired	30531	MNDRY_EVT_BIS_SENSOR_EXPIRED	99MNDRY
BIS Cyclic Checking	30532	MNDRY_EVT_BIS_CYCLIC_CHECKING	99MNDRY
BIS Ground Checking	30533	MNDRY_EVT_BIS_GROUND_CHECKING	99MNDRY
BIS Sensor Check Failed	30534	MNDRY_EVT_BIS_SNESOR_CHECK_FAIL	99MNDRY
BIS Sensor Exceed Usage	30535	MNDRY_EVT_BIS_SENSOR_EXCEED_USAGE	99MNDRY
BIS Sensor Fault	30536	MNDRY_EVT_BIS_SENSOR_FAULT	99MNDRY
BIS Need Replug	30537	MNDRY_EVT_BIS_NEED_REPLUG	99MNDRY
BIS In Demo	30538	MNDRY_EVT_BIS_IN_DEMO	99MNDRY
BISX Not Connected	30539	MNDRY_EVT_BISX_NOT_CONNECTED	99MNDRY
BIS Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
BIS Left SQI < 15%	30530	MNDRY_EVT_BIS_SQI_LESS_THAN_15	99MNDRY
BIS Right SQI < 15%	30530	MNDRY_EVT_BIS_SQI_LESS_THAN_15	99MNDRY
BIS Left SQI < 50%	30529	MNDRY_EVT_BIS_SQI_LESS_THAN_50	99MNDRY
BIS Right SQI < 50%	30529	MNDRY_EVT_BIS_SQI_LESS_THAN_50	99MNDRY
BIS Left Over Range	196774	MDC_EVT_RANGE_OVER	MDC
BIS Right Over Range	196774	MDC_EVT_RANGE_OVER	MDC
BIS Electrode Unconnected	30540	MNDRY_EVT_BIS_ELECTRODE_UNCONNECTED	99MNDRY
BIS Sensor Type Error	30541	MNDRY_EVT_BIS_SENSOR_TYPE_ERROR	99MNDRY
BIS Electrode1 High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode1 Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
BIS Electrode2 High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode2 Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode3 High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode3 Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode4 High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode4 Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode G High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode G Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode C High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode C Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode LE High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode LE Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode LT High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode LT Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode RE High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode RE Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Electrode RT High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY
BIS Electrode RT Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY
BIS Sensor Checking	30544	MNDRY_EVT_BIS_SENSOR_CHECKING	99MNDRY
Replace SRS Cable	30545	MNDRY_EVT_REPLACE_SRS_CABLE	99MNDRY
ICG Low Quality Signal	30546	MNDRY_EVT_ICG_LOW_QUALITY_SIGNAL	99MNDRY
ICG L.Neck Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
ICG R.Neck Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
ICG L.Thorax Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
ICG R.Thorax Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
ICG Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
ICG Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ICG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
ICG Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
ICG Communications Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ICG Communications Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
CI Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
TFC Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ICG Sensor Check	30548	MNDRY_EVT_ICG_SENSOR_CHECK	99MNDRY
ICG Communications Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
ICG Cable Off	30549	MNDRY_EVT_ICG_CABLE_OFF	99MNDRY
ICG Low Voltage	30550	MNDRY_EVT_LOW_VOLTAGE	99MNDRY
ICG Cable Error	30551	MNDRY_EVT_CABLE_ERROR	99MNDRY
ICG L4 Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ICG R4 Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ICG L1 Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ICG R1 Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ICG L2_3 Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ICG R2_3 Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY
ART Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
ART-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ART-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ART-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ART Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
ART Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
ART Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
ART Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
ART Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
ART Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
ART Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
ART No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
ART Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
ART Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
PA-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PA-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PA-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
PA Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
PA Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
PA Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
PA Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
PA Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
PA Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
PA Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
PA No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
PA Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
PA Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
CVP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
CVP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
CVP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
CVP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
CVP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
CVP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
CVP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
CVP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
CVP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
CVP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
CVP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
CVP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
CVP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
CVP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
ICP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ICP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ICP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ICP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ICP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
ICP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
ICP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
ICP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
ICP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
ICP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
ICP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
ICP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
ICP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
ICP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
LAP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
LAP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
LAP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
LAP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
LAP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
LAP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
LAP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
LAP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
LAP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
LAP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
LAP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
LAP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
LAP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
LAP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
RAP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
RAP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
RAP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RAP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
RAP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
RAP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
RAP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
RAP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
RAP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
RAP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
RAP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
RAP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
RAP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
RAP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
UAP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
UAP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
UAP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
UAP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
UAP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
UAP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
UAP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
UAP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
UAP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
UAP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
UAP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
UAP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
UAP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
UAP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
UVP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
UVP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
UVP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
UVP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
UVP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
UVP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
UVP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
UVP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
UVP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
UVP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
UVP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
UVP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
UVP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
UVP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
A0 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
A0-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
A0-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
A0-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
A0 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
A0 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
A0 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
A0 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
A0 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
A0 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
A0 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
A0 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
A0 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
A0 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
FAP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
FAP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FAP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
FAP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
FAP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
FAP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
FAP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
FAP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
FAP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
FAP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
FAP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
FAP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
FAP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
FAP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
BAP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
BAP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
BAP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
BAP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
BAP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
BAP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
BAP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
BAP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
BAP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
BAP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
BAP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
BAP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
BAP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
BAP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP1 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP1Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP1 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
IBP1 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP1 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP1 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP1 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP1 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP1 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IBP1 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP1 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP1 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP2 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP2Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP2 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP2 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP2 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP2 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP2 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP2 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP2 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IBP2 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP2 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP3 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP3Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP3 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP3 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP3 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP3 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP3 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
IBP3 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP3 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IBP3 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP3 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP3 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP4 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP4Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP4 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP4 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP4 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP4 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP4 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP4 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP4 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IBP4 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP4 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP4 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP5 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP5-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP5-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP5Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP5 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP5 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP5 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP5 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP5 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP5 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP5 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
IBP5 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP5 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP5 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP6 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP6-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP6-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP6Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP6 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP6 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP6 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP6 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP6 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP6 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP6 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IBP6 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP6 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP6 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP7 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP7-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP7-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP7Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP7 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP7 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP7 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP7 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP7 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP7 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP7 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
IBP7 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP7 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP7 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IBP8 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IBP8-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP8-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP8Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IBP8 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IBP8 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IBP8 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IBP8 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IBP8 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IBP8 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
IBP8 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IBP8 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IBP8 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IBP8 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
LVP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
LVP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
LVP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
LVP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
LVP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
LVP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
LVP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
LVP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
LVP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
LVP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
LVP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
LVP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
LVP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
LVP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
pART Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
pART-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
pART-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
pART-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
pART Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
pART Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
pART Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
pART Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
pART Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
pART Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
pART Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
pART No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
pART Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
pART Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
pCVP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
pCVP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
pCVP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
pCVP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
pCVP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
pCVP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
pCVP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
pCVP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
pCVP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
pCVP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
pCVP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
pCVP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
pCVP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
pCVP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
ART2 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
ART2-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ART2-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ART2-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
ART2 Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
ART2 Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
ART2 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
ART2 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
ART2 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
ART2 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
ART2 Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
ART2 No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
ART2 Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
ART2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
IAP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
IAP-Sys Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IAP-Mean Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IAP-Dia Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
IAP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY
IAP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY
IAP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
IAP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
IAP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
IAP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
IAP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY
IAP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY
IAP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY
IAP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
CCO Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY
CCO Checking Vigilance	30559	MNDRY_EVT_CCO_CHECKING_VAGILANCE	99MNDRY
Disconnect With Vigilance	30560	MNDRY_EVT_DISCONNECT_WITH_VIGILANCE	99MNDRY
Disconnect With EV1000	31013	MNDRY_EVT_DISCONNECT_WITH_EV1000	99MNDRY
Disconnect With Vigileo	30561	MNDRY_EVT_DISCONNECT_WITH_VIGILEO	99MNDRY
CCO Invalid Catheter	30562	MNDRY_EVT_CCO_INVALID_CATHETER	99MNDRY
CCO TB Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
PICCO Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
PICCO Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
PICCO Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
PICCO Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
PICCO Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
CCO Inject Temp Sensor Error	30759	MNDRY_EVT_CCO_TI_SENSOR_ERROR	99MNDRY
SCVO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
SCVO2 Optical Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
SCVO2 Signal Too High	30563	MNDRY_EVT_SCVO2_SIGNAL_TOO_HIGH	99MNDRY
SCVO2 Signal Too Low	30564	MNDRY_EVT_SCVO2_SIGNAL_TOO_LOW	99MNDRY
SCVO2 Too Much Light	30565	MNDRY_EVT_SCVO2_TOO_MUCH_LIGHT	99MNDRY
SCVO2 Disconnected	30566	MNDRY_EVT_SCVO2_DISCONNECTED	99MNDRY
SCVO2 Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
SCVO2 Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
SCVO2 Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY
SCVO2 Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
Unsupported CeVOX version	30567	MNDRY_EVT_UNSUPPORTED_CEVOX_VER	99MNDRY
TI Out of Range	196774	MDC_EVT_RANGE_OVER	MDC
Invalid CCO Calibration	30568	MNDRY_EVT_INVALID_CCO_CALIB	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
CCO TI Error	30571	MNDRY_EVT_CCO_TI_ERRO	99MNDRY
Benelink Conflict	30572	MNDRY_EVT_BANELINK_CONFLICT	99MNDRY
Benelink Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
Benelink Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
Benelink Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
Benelink Searching Signal	30573	MNDRY_EVT_SEARCHING_SIGNAL	99MNDRY
IPMT No Battery	30130	MNDRY_EVT_BATTERY_MISSING	99MNDRY
T1 No Battery	30130	MNDRY_EVT_BATTERY_MISSING	99MNDRY
SpO2B Board Fault	30216	MNDRY_EVT_SPO2_BOARD_FAULT	99MNDRY
SpO2B Incompatible Sensor	30219	MNDRY_EVT_SPO2_INCOMP_SENSOR	99MNDRY
SpO2B Low Signal	196736	MDC_EVT_WEAK	MDC
SpO2B Interference	196886	MDC_EVT_LIGHT_INTERF	MDC
SpO2B Low Perfusion	30013	MNDRY_EVT_SPO2_LOW_PERFUSION	99MNDRY
SpO2B Too Much Light	196886	MDC_EVT_LIGHT_INTERF	MDC
SpO2B No Sensor	30218	MNDRY_EVT_SPO2_NO_SENSOR	99MNDRY
SpO2B Sensor Error	30217	MNDRY_EVT_SPO2_SENSOR_ERROR	99MNDRY
SpO2B Unrecognized Sensor	30215	MNDRY_EVT_SPO2_UNRECOGNIZED_SENSOR	99MNDRY
SpO2B Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY
SpO2B Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY
SpO2B Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY
SpO2B Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY
SpO2B Sensor Off	202834	MDC_EVT_STAT_OFF	MDC
Delta SpO2 Limit Error	196772	MDC_EVT_RANGE_ERR	MDC
SpO2B No Pulse	30048	MNDRY_EVT_SPO2_NO_PLUSE	99MNDRY
SpO2B Searching for Pulse	30211	MNDRY_EVT_SEARCHING_PULSE	99MNDRY
SpO2B Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY
SpO2B Shut Down	30653	MNDRY_EVT_SHUT_DOWN	99MNDRY
SpO2B Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
EEG Sensor Off	30024	MNDRY_EVT_EEG_SENSOR_OFF	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
EEG Electrode %s Off	30025	MNDRY_EVT_EEG_ELECTRODE_OFF	99MNDRY
EEG Electrode %s High Imped	30026	MNDRY_EVT_EEG_ELECTRODE_HIGH_IMPED	99MNDRY
EEG Electrode %s Noise	30027	MNDRY_EVT_EEG_ELECTRODE_NOISE	99MNDRY
EEG Electrode %s Poor Contact	30110	MNDRY_EVT_EEG_ELECTRODE_POOR_CONTACT	99MNDRY
EEG No Sensor	30028	MNDRY_EVT_EEG_NO_SENSOR	99MNDRY
EEG Init Err	30029	MNDRY_EVT_EEG_INIT_ERROR	99MNDRY
EEG Comm Err	30030	MNDRY_EVT_EEG_COMM_ERROR	99MNDRY
EEG Comm Stop	30031	MNDRY_EVT_EEG_COMM_STOP	99MNDRY
EEG Comm Abnormal	30032	MNDRY_EVT_EEG_COMM_ABNORMAL	99MNDRY
EEG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
EEG Overcurrent	30033	MNDRY_EVT_EEG_OVER_CURRENT	99MNDRY
EEG Calibration	30580	MNDRY_EVT_EEG_CLIAB	99MNDRY
EEG Sensor Checking	30034	MNDRY_EVT_EEG_SENSOR_CHECKING	99MNDRY
RSO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
RSO2 CH1 No Sensor	30581	MNDRY_EVT_RSO2_NO_SENSOR	99MNDRY
RSO2 CH2 No Sensor	30581	MNDRY_EVT_RSO2_NO_SENSOR	99MNDRY
RSO2 CH1 Exceed Light	30582	MNDRY_EVT_RSO2_EXCEED_LIGHT	99MNDRY
RSO2 CH2 Exceed Light	30582	MNDRY_EVT_RSO2_EXCEED_LIGHT	99MNDRY
RSO2 CH1 Poor Signal	30587	MNDRY_EVT_RSO2_POOR_SIGNAL	99MNDRY
RSO2 CH2 Poor Signal	30587	MNDRY_EVT_RSO2_POOR_SIGNAL	99MNDRY
RSO2 No Preamplifier	30583	MNDRY_EVT_RSO2_NO_PREAMPLIFIER	99MNDRY
RSO2 CH1 Replace Sensor	30654	MNDRY_EVT_RSO2_REPLACE_SENSOR	99MNDRY
RSO2 CH2 Replace Sensor	30654	MNDRY_EVT_RSO2_REPLACE_SENSOR	99MNDRY
RSO2 Interference	30584	MNDRY_EVT_RSO2_INTERFERENCE	99MNDRY
RSO2 CH1 Auto Baseline	30585	MNDRY_EVT_RSO2_AUTO_BASELINE	99MNDRY
RSO2 CH2 Auto Baseline	30585	MNDRY_EVT_RSO2_AUTO_BASELINE	99MNDRY
RSO2 Need Replug	30586	MNDRY_EVT_RSO2_NEED_REPLUG	99MNDRY
RSO2 2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
RSO2 2 CH1 No Sensor	30581	MNDRY_EVT_RSO2_NO_SENSOR	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
RSO2 2 CH2 No Sensor	30581	MNDRY_EVT_RSO2_NO_SENSOR	99MNDRY
RSO2 2 CH1 Exceed Light	30582	MNDRY_EVT_RSO2_EXCEED_LIGHT	99MNDRY
RSO2 2 CH2 Exceed Light	30582	MNDRY_EVT_RSO2_EXCEED_LIGHT	99MNDRY
RSO2 2 CH1 Poor Signal	30587	MNDRY_EVT_RSO2_POOR_SIGNAL	99MNDRY
RSO2 2 CH2 Poor Signal	30587	MNDRY_EVT_RSO2_POOR_SIGNAL	99MNDRY
RSO2 2 No Preamplifier	30583	MNDRY_EVT_RSO2_NO_PREAMPLIFIER	99MNDRY
RSO2 2 CH1 Replace Sensor	30654	MNDRY_EVT_RSO2_REPLACE_SENSOR	99MNDRY
RSO2 2 CH2 Replace Sensor	30654	MNDRY_EVT_RSO2_REPLACE_SENSOR	99MNDRY
RSO2 2 Interference	30584	MNDRY_EVT_RSO2_INTERFERENCE	99MNDRY
RSO2 2 CH1 Auto Baseline	30585	MNDRY_EVT_RSO2_AUTO_BASELINE	99MNDRY
RSO2 2 CH2 Auto Baseline	30585	MNDRY_EVT_RSO2_AUTO_BASELINE	99MNDRY
RSO2 2 Need Replug	30586	MNDRY_EVT_RSO2_NEED_REPLUG	99MNDRY
Telemetry Signal Lost	196676	MDC_EVT_LOST	MDC
Telemetry Data Interrupted	30588	MNDRY_EVT_DATA_INTERRUPTED	99MNDRY
DHCP Fetching IP Time Out	30680	MNDRY_EVT_DHCP_FETCHING_IP_TIME_OUT	99MNDRY
TP Disconnect From Paired Device	30681	MNDRY_EVT_TP_DISCONNECT_FROM_PAIRIED_DEVICE	99MNDRY
Device Error For TP	30682	MNDRY_EVT_DEVICE_ERROR_FOR_TP	99MNDRY
TP Battery Low	196802	MDC_EVT_BATT_LO	MDC
BP Battery Error	30430	MNDRY_EVT_BATTERY_ERROR	99MNDRY
BP Battery Type Error	30476	MNDRY_EVT_BATTERY_TYPE_ERROR	99MNDRY
IP Conflict	30683	MNDRY_EVT_IP_CONFLICT	99MNDRY
Standby	202774	MDC_EVT_STAT_STANDBY_MODE	MDC
Communications Lost	196748	MDC_EVT_COMM_LOST	MDC
MPAN Disconnect	30684	MNDRY_EVT_MPAN_DISCONNECT	99MNDRY
Unknown Tech Alarm 1	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 2	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 3	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 4	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 5	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Unknown Tech Alarm 6	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 7	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 8	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 9	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 10	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 11	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 12	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 13	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 14	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 15	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 16	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 17	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 18	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 19	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Unknown Tech Alarm 20	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
MPM Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY
Integrated Device disconnected/No Device Driver	31014	MNDRY_EVT_DISCONNECT_WITH_INTEGRATED_DEVICE	99MNDRY
ANES MAC Low	30045	MNDRY_EVT_ANES_MAC_LOW	99MNDRY
Fresh Gas Flow Too High	30685	MNDRY_EVT_ANES_FRESH_GAS_FLOW_HI	99MNDRY
N2O Flow Too High	30716	MNDRY_EVT_ANES_N2O_FLOW_HI	99MNDRY
O2 Flow Too High	30717	MNDRY_EVT_ANES_O2_FLOW_HI	99MNDRY
Air Flow Too High	30718	MNDRY_EVT_ANES_AIR_FLOW_HI	99MNDRY
Mixed Agent and MAC >= 3	30103	MNDRY_EVT_MAXMAC_MORE_3	99MNDRY
Invalid MAC value and mixed agent	30743	MNDRY_EVT_ANES_INVALID_MAC_VALUE	99MNDRY
ANES Patient Circuit Leak	30589	MNDRY_EVT_ANES_PAT_CIRCUIT_LEAK	99MNDRY
ANES No O2 Sensor	30590	MNDRY_EVT_ANES_NO_O2_SENSOR	99MNDRY
ANES Drive Gas Pressure Low	30591	MNDRY_EVT_ANES_DRIVE_GAS_PRESSURE_LOW	99MNDRY
ANES O2 Supply Failure	30592	MNDRY_EVT_ANES_O2_SUPPLY_FAILURE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ANES Battery in Use	202884	MDC_EVT_STAT_DEV_BATT_OPERATED	MDC
ANES Check APL Valve	30594	MNDRY_EVT_ANES_CHECK_APL_VALVE	99MNDRY
ANES Check Expiration-Valve	30595	MNDRY_EVT_ANES_CHECK_EXPIRATION_VALVE	99MNDRY
ANES Check Fresh Gas Supply	30596	MNDRY_EVT_ANES_CHECK_FRESH_GAS_SUPPLY	99MNDRY
ANES No Fresh Gas	30597	MNDRY_EVT_ANES_NO_FRESH_GAS	99MNDRY
ANES Circuit Occluded	30598	MNDRY_EVT_ANES_CIRCUIT_OCCLUDED	99MNDRY
ANES VENT DISC	30599	MNDRY_EVT_ANES_VENT_DISC	99MNDRY
ANES No Air	30600	MNDRY_EVT_ANES_NO_AIR	99MNDRY
ANES No O2 Supply	30601	MNDRY_EVT_ANES_NO_O2_SUPPLY	99MNDRY
ANES Unknown Tech Alarm	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
ANES CO2 Module abnormal	30606	MNDRY_EVT_ANES_CO2_MODULE_ABNORMAL	99MNDRY
ANES AG Module abnormal	30607	MNDRY_EVT_ANES_AG_MODULE_ABNORMAL	99MNDRY
ANES BIS Module abnormal	30608	MNDRY_EVT_ANES_BIS_MODULE_ABNORMAL	99MNDRY
ANES SpO2 Module abnormal	30609	MNDRY_EVT_ANES_SPO2_MODULE_ABNORMAL	99MNDRY
Auto-zero In Process	30655	MNDRY_EVT_ANES_AUTO_ZERO_IN_PROCESS	99MNDRY
Apnea Ventilation	30656	MNDRY_EVT_ANES_APNEA_VENTILATION	99MNDRY
Ventilator Voltage Error	30657	MNDRY_EVT_ANES_VENTILATOR_VOLTAGE_ERR	99MNDRY
PEEP Valve Failure	30658	MNDRY_EVT_ANES_PEEP_VAVLE_FAILURE	99MNDRY
Insp Valve Failure	30661	MNDRY_EVT_ANES_INSP_VALVE_FAILURE	99MNDRY
PEEP Safety Valve Failure	30662	MNDRY_EVT_ANES_PEEP_SAFETY_VALVE_FAILURE	99MNDRY
Flow Sensor Failure	30663	MNDRY_EVT_ANES_FLOW_SENSOR_FAILURE	99MNDRY
Check Flow Sensors	30664	MNDRY_EVT_ANES_CHECK_FLOW_SENSORS	99MNDRY
Pinsp Not Achieved	30665	MNDRY_EVT_ANES_PINSP_NOT_ACHIEVED	99MNDRY
Vt Not Achieved	30666	MNDRY_EVT_ANES_VT_NOT_ACHIEVED	99MNDRY
CO2 Canister Not Mounted	30667	MNDRY_EVT_ANES_CO2_CANISTER_NOT_MOUNTED	99MNDRY
Replace O2 Sensor	30668	MNDRY_EVT_ANES_REPLACE_O2_SENSOR	99MNDRY
Calibrate O2 Sensor	30670	MNDRY_EVT_ANES_CALIBRATE_O2_SENSOR	99MNDRY
Ventilator Comm. Stop	30671	MNDRY_EVT_ANES_VENTILATOR_COMM_STOP	99MNDRY
ACGO with 3-way Valve Failure	30686	MNDRY_EVT_ANES_ACGO_3WAY_VALVE_FAILURE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
ACGO Failure	30687	MNDRY_EVT_ANES_ACGO_FAILURE	99MNDRY
Aux Ctrl Module Comm. Stop	30688	MNDRY_EVT_ANES_AUX_MODULE_COMM_STOP	99MNDRY
Monitor channel paw error	30689	MNDRY_EVT_ANES_MONITOR_CHANNEL_PAW_ERR	99MNDRY
Aux Ctrl Module Monitor channel paw error	30690	MNDRY_EVT_AUX_CTRL_MONITOR_CHANNEL_PAW_ERR	99MNDRY
Aux Ctrl Module voltage error	30691	MNDRY_EVT_ANES_AUX_VOLTAGE_ERR	99MNDRY
Drive Gas Switch vavle failure	30692	MNDRY_EVT_ANES_DRIVE_GAS_SWITCH_VALVE_FAILURE	99MNDRY
Anes. Cooling Fan Failure	197148	MDC_EVT_VENT_TEMP_HI	MDC
Automatic Ventilation Disabled	30694	MNDRY_EVT_ANES_AUTOMATIC_VENT_DISABLED	99MNDRY
Auto Ventilation Disabled-Leak Test Failed	30695	MNDRY_EVT_ANES_AUTO_VENT_DISABLED_LEAK_FAIL	99MNDRY
Auto Ventilation is Non-functional	30696	MNDRY_EVT_ANES_AUTO_VENT_NON_FUNCTIONAL	99MNDRY
Incompatible AG Software Version	30697	MNDRY_EVT_ANES_INCOMPATIBLE_AG_SW	99MNDRY
Electronic ACGO Undetected	30698	MNDRY_EVT_ANES_NO_ELEC_ACGO	99MNDRY
Anes. Key Error	30699	MNDRY_EVT_ANES_KEY_ERR	99MNDRY
Load Configuration Failed	30700	MNDRY_EVT_ANES_LOAD_CFG_FAILED	99MNDRY
Pressure, Volume and Apnea Alarms are OFF	30701	MNDRY_EVT_ANES_MANUAL_ALARM_OFF	99MNDRY
Demo Mode - Not for Clinical Use	30702	MNDRY_EVT_ANES_DEMO_MODE	99MNDRY
Service Mode - Not for Clinical Use	30703	MNDRY_EVT_ANES_SERVICE_MODE	99MNDRY
Could not locate time server	30704	MNDRY_EVT_ANES_NET_TIME_SERVER_DISCONNECT	99MNDRY
Restart to Activate New Flowmeter Standard	30705	MNDRY_EVT_ANES_FLOWMETER_CHANGE_NEED_RESTART	99MNDRY
New functions activated, please restart	30706	MNDRY_EVT_ANES_FUNC_ACTIVATE_NEED_RESTART	99MNDRY
Calibrate O2 sensor for 21%	30707	MNDRY_EVT_ANES_CAL_O2_FOR_21	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Calibrate O2 sensor for 100%	30708	MNDRY_EVT_ANES_CAL_O2_FOR_100	99MNDRY
CO2 and CO2 Apnea Alarms are OFF	30709	MNDRY_EVT_ANES_MANUAL_CO2_ALARM_OFF	99MNDRY
Leak Test Not Performed	30710	MNDRY_EVT_ANES_LEAK_TEST_PREVENTION	99MNDRY
Drive Gas Switched to O2	30711	MNDRY_EVT_ANES_DRIVE_GAS_TO_O2	99MNDRY
Drive Gas Switched to AIR	30712	MNDRY_EVT_ANES_DRIVE_GAS_TO_AIR	99MNDRY
Heating Module Failure	30713	MNDRY_EVT_ANES_HEATING_MODULE_FAILURE	99MNDRY
Power Circuit Not Mounted	30714	MNDRY_EVT_ANES_POWER_CIRCUIT_NO_MOUNT	99MNDRY
Flowmeter Voltage Error	30715	MNDRY_EVT_ANES_FLOWMETER_VOLTAGE_ERR	99MNDRY
O2-N2O Ratio Error	30719	MNDRY_EVT_ANES_O2_N2O_RATIO_ERR	99MNDRY
Flowmeter Comm. Stop	30720	MNDRY_EVT_ANES_FLOWMETER_COMM_STOP	99MNDRY
Internal N2O Sensor Fail	30721	MNDRY_EVT_ANES_INTERNAL_N2O_SENSOR_ERR	99MNDRY
Internal O2 Sensor Fail	30722	MNDRY_EVT_ANES_INTERNAL_O2_SENSOR_ERR	99MNDRY
Internal Air Sensor Fail	30723	MNDRY_EVT_ANES_INTERNAL_AIR_SENSOR_ERR	99MNDRY
Cal Data Error	30724	MNDRY_EVT_ANES_CAL_DATA_ERR	99MNDRY
Flowmeter Zero Failed	30726	MNDRY_EVT_ANES_FLOWMETER_ZERO_FAIL	99MNDRY
Electronic Flow Control Error	30727	MNDRY_EVT_ANES_ELEC_FLOW_CTRL_ERR	99MNDRY
Backup Flow Control Error	30728	MNDRY_EVT_ANES_BACKUP_FLOW_CTRL_ERR	99MNDRY
No Fresh Gas	30729	MNDRY_EVT_ANES_NO_FRESH_GAS	99MNDRY
Backup Flow Control Deployment Failure	30730	MNDRY_EVT_ANES_BACKUP_FLOW_DEP_ERR	99MNDRY
Backup Flow Control Retraction Failure	30731	MNDRY_EVT_ANES_BACKUP_FLOW_RET_ERR	99MNDRY
Air Supply Failure	30732	MNDRY_EVT_ANES_AIR_SUPPLY_FAIL	99MNDRY
N2O Supply Failure	30733	MNDRY_EVT_ANES_N2O_SUPPLY_FAIL	99MNDRY
Backup Flow Control Valves Open	30734	MNDRY_EVT_ANES_BACKUP_FLOW_VALVE_OPEN	99MNDRY
Backup Flow Control is enabled	30735	MNDRY_EVT_ANES_BACKUP_FLOW_ENABLED	99MNDRY
O2 Branch Flow Not Achieved	30736	MNDRY_EVT_ANES_O2_FLOW_UNACHIEVED	99MNDRY
Balance Gas Branch Flow Not	30737	MNDRY_EVT_ANES_GAS_FLOW_UNACHIEVED	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Achieved			
Total Flow Sensor Self Test Time Out	30738	MNDRY_EVT_ANES_FLOW_SENSOR_SELFT_TIMEOUT	99MNDRY
Total Flow Sensor Self Test in Progress	30739	MNDRY_EVT_ANES_FLOW_SENSOR_IN_SELFTEST	99MNDRY
Internal AG Error	30740	MNDRY_EVT_ANES_INTERNAL_AG_ERR	99MNDRY
Internal AG Warm up	30741	MNDRY_EVT_ANES_INTERNAL_AG_WARMUP	99MNDRY
O2 Sensor Error	30744	MNDRY_EVT_ANES_O2_SENSOR_ERR	99MNDRY
AG Hardware Malfunction	30745	MNDRY_EVT_ANES_AG_HARDWARE_MALFUNCION	99MNDRY
Rate Over Range	30746	MNDRY_EVT_ANES_RATE_OVER_RANGE	99MNDRY
External AG Loaded Successfully	30747	MNDRY_EVT_ANES_EXT_AG_LOADED	99MNDRY
External AG Zeroing	30748	MNDRY_EVT_ANES_EXT_AG_ZEROING	99MNDRY
External AG Unloaded Successfully	30749	MNDRY_EVT_ANES_EXT_AG_UNLOADED	99MNDRY
BIS Self Test Error	30750	MNDRY_EVT_ANES_BIS_SELFTEST_ERR	99MNDRY
CO2 Loaded Successfully	30751	MNDRY_EVT_ANES_CO2_LOADED	99MNDRY
CO2 Unloaded Successfully	30752	MNDRY_EVT_ANES_CO2_UNLOADED	99MNDRY
CO2 Self Test Time out	30753	MNDRY_EVT_ANES_CO2_SELTTEST_TIME_OUT	99MNDRY
CO2 Replace Sensor	30754	MNDRY_EVT_ANES_CO2_REPLACE_SENSOR	99MNDRY
Incompatible CO2 Software Version	30755	MNDRY_EVT_ANES_INCOMPATIBLE_CO2_SW	99MNDRY
+NMT Block Recovery	30756	MNDRY_EVT_NMT_BLOCK_RECOVERY	99MNDRY
NMT Loaded Successfully	30757	MNDRY_EVT_NMT_LOADED	99MNDRY
NMT Unloaded Successfully	30758	MNDRY_EVT_NMT_UNLOADED	99MNDRY
VENT Air Supply Pressure Low	30610	MNDRY_EVT_VENT_AIR_SUPPLY_PRESSURE_LOW	99MNDRY
VENT O2 Supply Pressure Low	30611	MNDRY_EVT_VENT_O2_SUPPLY_PRESSURE_LOW	99MNDRY
VENT No Gas Supply Pressure	30612	MNDRY_EVT_VENT_NO_GAS_SUPPLY_PRESSURE	99MNDRY
VENT Airway Obstructed	30613	MNDRY_EVT_VENT_AIRWAY_OBSTRUCTED	99MNDRY
VENT Tube Disconnected	30614	MNDRY_EVT_VENT_TUBE_DISCONNECTED	99MNDRY
VENT Airway Leak	30615	MNDRY_EVT_VENT_AIRWAY_LEAK	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
VENT Battery In Use	30616	MNDRY_EVT_VENT_BATTERY_INUSE	99MNDRY
VENT Check Flow Sensors	30617	MNDRY_EVT_VENT_CHECK_FLOW_SENSOR	99MNDRY
VENT Check Expiration-Valve	30618	MNDRY_EVT_VENT_CHECK_EXPIRATION_VALVE	99MNDRY
VENT Clean CO2	30619	MNDRY_EVT_VENT_CLEAN_CO2	99MNDRY
VENT Drive Gas Pressure Low	30620	MNDRY_EVT_VENT_DRIVE_GAS_PRESSURE_LOW	99MNDRY
VENT Patient Circuit Leak	30621	MNDRY_EVT_VENT_PAT_CIRCUIT_LEAK	99MNDRY
VENT Neo Flow Sensor Error	30622	MNDRY_EVT_VENT_NEO_FLOW_SENSOR_ERROR	99MNDRY
VENT O2 and air supply	30623	MNDRY_EVT_VENT_O2_AIR_SUPPLY	99MNDRY
VENT O2 and heliox supply	30624	MNDRY_EVT_VENT_O2_HELIOX_SUPPLY	99MNDRY
VENT Sustained Airway Pressure	30625	MNDRY_EVT_VENT_SUSTAINED_AIRWAY_PRESSURE	99MNDRY
VENT Insp gas temperature too high	30626	MNDRY_EVT_VENT_INSP_GAS_TEMP_TOO_HIGH	99MNDRY
VENT Tinsp too Long	30627	MNDRY_EVT_VENT_TINSP_TOO_LONG	99MNDRY
VENT CO2 No Watertrap	30628	MNDRY_EVT_VENT_CO2_NO_WATERTRAP	99MNDRY
VENT No VO2, High FiO2	30629	MNDRY_EVT_VENT_NO_VO2_HIGH_FIO2	99MNDRY
VENT No O2 Pressure	30630	MNDRY_EVT_VENT_NO_O2_PRESSURE	99MNDRY
VENT No Fresh Gas Flow	30631	MNDRY_EVT_VENT_NO_FRESH_GAS_FLOW	99MNDRY
VENT No VO2, FiO2 > 85%	30632	MNDRY_EVT_VENT_NO_VO2_FIO2_MORETHAN_85	99MNDRY
VENT MGAS Replace Water Trap	30633	MNDRY_EVT_VENT_MGAS_REPLACE_WATERTRAP	99MNDRY
VENT 12-Hour Test	30634	MNDRY_EVT_VENT_12HOUR_TEST	99MNDRY
VENT Patient Connected	30635	MNDRY_EVT_VENT_PAT_CONNECTED	99MNDRY
VENT Negative Airway Pressure	30636	MNDRY_EVT_VENT_NEGATIVE_AIRWAY_PRESSURE	99MNDRY
VENT Circuit Leak	30637	MNDRY_EVT_VENT_CIRCUIT_LEAK	99MNDRY
VENT Patient Connection Leak	30638	MNDRY_EVT_VENT_PAT_CONNECTION_LEAK	99MNDRY
VENT Patient Disconnected	30639	MNDRY_EVT_VENT_PAT_DISCONNECTED	99MNDRY
VENT O2 Cell Disconnect	30640	MNDRY_EVT_VENT_O2_CELL_DISCONNECT	99MNDRY
VENT Check Tubing	30641	MNDRY_EVT_VENT_CHECK_TUBING	99MNDRY
VENT Disconnect Ventilator	30642	MNDRY_EVT_VENT_DISCONNECT_VENTILATOR_SIDE	99MNDRY

Alarm Name	Value		
	Code	Text	Coding System
Side			
VENT O2 Cell Cal. Needed	30643	MNDRY_EVT_VENT_O2_CELL_CAL_NEEDED	99MNDRY
VENT Circuit Disconnected	30644	MNDRY_EVT_VENT_CIRCUIT_DISCONNECTED	99MNDRY
VENT Power Failure	30645	MNDRY_EVT_VENT_POWER_FAILURE	99MNDRY
VENT Tinsp too Short	30646	MNDRY_EVT_VENT_TINSP_TOO_SHORT	99MNDRY
VENT FiO2 Sensor Disconnected	30647	MNDRY_EVT_VENT_FIO2_SENSOR_DISCONNECTED	99MNDRY
VENT Unknown Tech Alarm	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY
Pumps	31018	MNDRY_EVT_PUMP_1_PRE_OCCLUSION	99MNDRY
CCO:Map drop Alarm	31017	MNDRY_EVT_NO_PRESS_BLD_ART_ABP_MEAN	99MNDRY
CCO:AP/HR Not available Alarm	30023	MNDRY_EVT_NO_PLUSE	99MNDRY
Vent SpO2 Desat	199854	MDC_EVT_DESAT	MDC

5.8 Containment Tree

This table defines the value used in OBX-4 Observation Sub-ID to help define the source of the measurement, setting, or alert. Observations with identical OBX-3 Observation ID can be distinguished from each other by looking at the OBX-4 value of the observation. The Sub-ID uses the following format: M.V.C.I, where M = System (MDS), V = Virtual Device (VMD), C = Channel, I = Metric. This system is based on the IEEE 11073 standard.

M is set to 1 on the eGateway.

V is set to a number value defined in the containment tree representing the sub-system (ECG, Arrhythmia, ST, IBP, CO2, Battery, etc.) to which the observation belongs.

C is the channel can be used to distinguish between identical observations types taken by different sensors. For example a device may support 2 temperature probes, even though the OBR-3 value may be the same, the C value would be 1 for the first probe and 2 for the second probe. C can also be used to create sub-categories for V. For example the sub-system Ventilator may have an Airway Pressure channel, an Airway Flow Channel, and an Airway Volume channel.

I is the value of OBX-3.1 in the OBX segment of the observation.

eGateway Containment Tree					
Level				Value	M.V.C
MDS	Patient Monitor			1	1
	VMD	Blood Pressure		1	1.1
		Channel	Invasive BP, 1	1	1.1.1
		Channel	Invasive BP, 2	2	1.1.2
		Channel	Invasive BP, 3	3	1.1.3
		Channel	Invasive BP, 4	4	1.1.4
		Channel	Invasive BP, 5	5	1.1.5
		Channel	Invasive BP, 6	6	1.1.6
		Channel	Invasive BP, 7	7	1.1.7
		Channel	Invasive BP, 8	8	1.1.8
		Channel	NIBP	9	1.1.9
		Channel	Calculations	10	1.1.10
		Channel	Arterial, PiCCO	11	1.1.11
		Channel	Central Venous, PiCCO	12	1.1.12
		Channel	IABP	13	1.1.13
	VMD	Temperature		2	1.2
		Channel	Temperature, 1	1	1.2.1
		Channel	Temperature, 2	2	1.2.2
		Channel	Temperature, 3	3	1.2.3
		Channel	Temperature Calculations, 1	4	1.2.4
		Channel	Temperature, Spot	5	1.2.5

eGateway Containment Tree					
Level				Value	M.V.C
		Channel	Temperature, 4	6	1.2.6
		Channel	Temperature, 5	7	1.2.7
		Channel	Temperature, 6	8	1.2.8
		Channel	Temperature, 7	9	1.2.9
		Channel	Temperature, 8	10	1.2.10
		Channel	Temperature Calculations, 2	11	1.2.11
		Channel	Temperature Calculations, 3	12	1.2.12
		Channel	Temperature Calculations, 4	13	1.2.13
	VMD	Pulse Oximetry		3	1.3
		Channel	Pulse Oximetry, 1	1	1.3.1
		Channel	Pulse Oximetry, 2	2	1.3.2
		Channel	Masimo w/Rainbow	4	1.3.4
	VMD	O ₂ Venous Saturation		4	1.4
		Channel	O ₂ Venous Saturation	1	1.4.1
	VMD	Wedge		5	1.5
		Channel	Wedge Pressure	1	1.5.1
	VMD	Cardiac Output		6	1.6
		Channel	Discrete Cardiac Output	1	1.6.1
		Channel	Continuous Cardiac Output	2	1.6.2
		Channel	Advanced Hemodynamics	3	1.6.3
		Channel	Cardiac Output Calculations	4	1.6.4
	VMD	ECG		7	1.7
		Channel	ECG Respiration	1	1.7.1
		Channel	Arrhythmia	2	1.7.2
		Channel	ST	3	1.7.3
		Channel	ECG Heart Rate	4	1.7.4
		Channel	Pacer Monitoring	5	1.7.5
		Channel	ECG Measurement	6	1.7.6
	VMD	CO ₂		8	1.8
		Channel	CO ₂	1	1.8.1
	VMD	Anesthetic Agent		9	1.9
		Channel	Agents, Primary	1	1.9.1
		Channel	Agents, Secondary	2	1.9.2
	VMD	Body Measurement		10	1.1
		Channel	Body Measurement	1	1.10.1
	VMD	Airway Multi-Parameter		11	1.11
		Channel	Airway Pressure	1	1.11.1
		Channel	Airway Flow	2	1.11.2
		Channel	Airway Volume	3	1.11.3

eGateway Containment Tree					
Level				Value	M.V.C
		Channel	Breath Pattern	4	1.11.4
	VMD	BIS		12	1.12
		Channel	BIS	1	1.12.1
	VMD	Ventilator		13	1.13
		Channel	Airway Pressure	1	1.13.1
		Channel	Calculations	2	1.13.2
		Channel	Status	3	1.13.3
	VMD	Anesthesia Machine		14	1.14
		Channel	Anesthesia Machine	1	1.14.1
		Channel	Secondray Agent	2	1.14.2
		Channel	Status	3	1.13.3
	VMD	Transcutaneous Gas		15	1.15
		Channel	Transcutaneous Gas	1	1.15.1
	VMD	NMT		16	1.16
		Channel	NMT	1	1.16.1
	VMD	Electroencephalogram		17	1.17
		Channel	EEG1	1	1.17.1
		Channel	EEG2	2	1.17.2
		Channel	EEG3	3	1.17.3
		Channel	EEG4	4	1.17.4
	VMD	PPV		18	1.18
		Channel	PPV	1	1.18.1
	VMD	Fluid		19	1.19
		Channel	Fluid IO	1	1.19.1
	VMD	Blood		20	1.2
		Channel	Blood Concentrations	1	1.20.1
	VMD	Mental State		21	1.21
		Channel	Mental State	1	1.21.1
	VMD	Oxygen Source		22	1.22
		Channel	Oxygen Source	1	1.22.1
	VMD	Environmental		23	1.23
		Channel	Environmental	1	1.23.1
	VMD	Regional Oximetry		24	1.24
		Channel	Regional O ₂ Saturation 1	1	1.24.1
		Channel	Regional O ₂ Saturation 2	2	1.24.2
		Channel	Regional O ₂ Saturation 3	3	1.24.3
		Channel	Regional O ₂ Saturation 4	4	1.24.4
	VMD	Printer		25	1.25

eGateway Containment Tree					
Level				Value	M.V.C
		Channel	Printer	1	1.25.1
	VMD	Manual		26	1.26
		Channel	Manual Measurements	1	1.26.1
	VMD	BeneLink Module		27	1.27
		Channel	BeneLink Module	1	1.27.1
	VMD	T1 Module		28	1.28
	VMD	Telemetry Device		29	1.29
	VMD	Battery		30	1.3
		Channel	Battery	1	1.30.1
	VMD	Defibrillator		31	1.31
		Channel	Manual Defibrillation	1	1.31.1
		Channel	AED	2	1.31.2
		Channel	PACE	3	1.31.3
		Channel	Mark A	4	1.31.4
		Channel	Mark B	5	1.31.5
		Channel	Mark C	6	1.31.6
		Channel	Mark D	7	1.31.7
		Channel	Mark E	8	1.31.8
		Channel	Mark F	9	1.31.9
		Channel	Mark G	10	1.31.10
		Channel	Mark H	11	1.31.11
		Channel	Mark I	12	1.31.12
		Channel	Mark J	13	1.31.13
		Channel	Mark K	14	1.31.14
		Channel	Mark L	15	1.31.15
		Channel	System Operate	16	1.31.16
		Channel	CPR	17	1.31.17
	VMD	Capnography		32	1.32
		Channel	Capnography	1	1.32.1
	VMD	Scoring Systems		33	1.33
		Channel	EWS	1	1.33.1
		Channel	qSOFA	2	1.33.2
		Channel	SOFA	3	1.33.3
		Channel	BoA	4	1.33.4
		Channel	GCS	5	1.33.5
		Channel	CCHD	6	1.33.6
	VMD	Overall		34	1.34
		Channel	Respiration	1	1.34.1
		Channel	Heart Rate	2	1.34.2

eGateway Containment Tree					
Level				Value	M.V.C
	VMD	O2 Calculations		35	1.35
		Channel	Calculations	1	1.35.1
	VMD	Liver Function		36	1.36
		Channel	Indocyanine Green (ICG)	1	1.36.1
	VMD	IV Pumps		37	1.37
		Channel	Pump channel	1-24	1.37.1-1.37.24
	VMD	Acoustic Respiration		38	1.38
		Channel	Acoustic Respiration	1	1.38.1
	VMD	Document Sharing		39	1.39
		Channel	Document Sharing	1	1.39.1

6 Sample Messages

6.1 Unsolicited Client and Unsolicited Server Results

6.1.1 Results Message

```
MSH|^~\&|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|||20171030104654-0500||ORU^R01^ORU_R01|88929|P|2.6|||AL|NE||UNICODE UTF-8|||IHE_PCD_001^IHE
PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO
PID|||MRN00100^^^Hospital^PI||Morel^Marguerite^^^^^I||19460305|F
PV1||I|ICU^^1^PP12-00
OBR|1|88929^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|88929^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|182777000^monitoring of patient^SCT|||20171030104559-
0500
OBX|1|NM|147842^MDC_ECG_HEART_RATE^MDC|1.7.4.147842|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030104559-0500|||F046EE9X^Beneview^mindray.com^DNS
OBX|2|NM|148066^MDC_ECG_V_P_C_RATE^MDC|1.7.2.148066|0|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030104559-0500
OBX|3|NM|131841^MDC_ECG_AMPL_ST_I^MDC|1.7.3.131841|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|4|NM|131842^MDC_ECG_AMPL_ST_II^MDC|1.7.3.131842|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|5|NM|131901^MDC_ECG_AMPL_ST_III^MDC|1.7.3.131901|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|6|NM|131902^MDC_ECG_AMPL_ST_AVR^MDC|1.7.3.131902|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|7|NM|131903^MDC_ECG_AMPL_ST_AVL^MDC|1.7.3.131903|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|8|NM|131904^MDC_ECG_AMPL_ST_AVF^MDC|1.7.3.131904|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|9|NM|131843^MDC_ECG_AMPL_ST_V1^MDC|1.7.3.131843|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|10|NM|72^MNDRY_ECG_TEMP_AMPL_ST_I^99MNDRY|1.7.3.72|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|11|NM|74^MNDRY_ECG_TEMP_AMPL_ST_II^99MNDRY|1.7.3.74|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|12|NM|76^MNDRY_ECG_TEMP_AMPL_ST_III^99MNDRY|1.7.3.76|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|13|NM|78^MNDRY_ECG_TEMP_AMPL_ST_AVR^99MNDRY|1.7.3.78|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|14|NM|80^MNDRY_ECG_TEMP_AMPL_ST_AVL^99MNDRY|1.7.3.80|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|15|NM|82^MNDRY_ECG_TEMP_AMPL_ST_AVF^99MNDRY|1.7.3.82|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|16|NM|84^MNDRY_ECG_TEMP_AMPL_ST_V1^99MNDRY|1.7.3.84|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104559-0500
OBX|17|NM|151578^MDC_TTHOR_RESP_RATE^MDC|1.7.1.151578|20|264928^MDC_DIM_RESP_PER_MIN^MDC||||R|||20171030104559-0500
OBX|18|NM|150045^MDC_PRESS_BLD_ART_PULM_SYS^MDC|1.1.1.150045|24|266016^MDC_DIM_MMHG^MDC||||R|||20171030104559-0500
OBX|19|NM|150047^MDC_PRESS_BLD_ART_PULM_MEAN^MDC|1.1.1.150047|14|266016^MDC_DIM_MMHG^MDC||||R|||20171030104559-0500
OBX|20|NM|150046^MDC_PRESS_BLD_ART_PULM_DIA^MDC|1.1.1.150046|9|266016^MDC_DIM_MMHG^MDC||||R|||20171030104559-0500
OBX|21|NM|368^MNDRY_BLD_PULS_RATE_ART_PULM^99MNDRY|1.1.1.368|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030104559-0500
```

6.1.2 Results Acknowledgement

```
MSH|^~\&|ACME_EMR|NORTH_ELM_HOSPITAL|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|20171030104654-0400||ACK^R01^ACK|28004|P|2.3|||UNICODE UTF-8
SFT|ACME|1.0|ACME_EMR
MSA|CA|88929
```

6.2 Solicited Server Results

6.2.1 Query Message based on Patient ID

```
MSH|^~\&|ACME_EMR|NORTH_ELM_HOSPITAL|||20171030104832-0400||QRY^Q02^QRY_Q02|28014|D|2.6|||AL|NE||UNICODE UTF-8
SFT|ACME|1.0|ACME_EMR
QRD|20171030104832-0400|D|D|1|||1.000000^RD|MRN00100|RES
QRF||||
```

6.2.2 Query Reply Message

```
MSH|^~\&|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|ACME_EMR|NORTH_ELM_HOSPITAL|20171030104832-0500||ACK^Q02^ACK|88933|D|2.6|||NE|NE||UNICODE UTF-8
SFT|Mindray DS USA, Inc.||eGateway
```

MSA|AA|28014

6.2.3 Query Results Message

```
MSH|^~\&|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|||20171030104832-0500||ORF^R04^ORF_R04|88934|P|2.6|||AL|NE||UNICODE UTF-8
QRD|20171030104832-0500|D|D|1|||1.000000^RD|MRN00100|RES|^eGateway
PID|||MRN00100^^^Hospital^PI||Morel^Marguerite||19460305|F
PV1||I|ICU^^1^PP12-00
OBR|1|88934^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|88934^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|182777000^monitoring of patient^SCT|||20171030104829-0500
OBX|1|NM|147842^MDC_ECG_HEART_RATE^MDC|1.7.4.147842|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030104829-0500|||F046EE9X^Beneview^mindray.com^DNS
OBX|2|NM|148066^MDC_ECG_V_P_C_RATE^MDC|1.7.2.148066|0|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030104829-0500
OBX|3|NM|131841^MDC_ECG_AMPL_ST_I^MDC|1.7.3.131841|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|4|NM|131842^MDC_ECG_AMPL_ST_II^MDC|1.7.3.131842|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|5|NM|131901^MDC_ECG_AMPL_ST_III^MDC|1.7.3.131901|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|6|NM|131902^MDC_ECG_AMPL_ST_AVR^MDC|1.7.3.131902|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|7|NM|131903^MDC_ECG_AMPL_ST_AVL^MDC|1.7.3.131903|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|8|NM|131904^MDC_ECG_AMPL_ST_AVF^MDC|1.7.3.131904|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|9|NM|131843^MDC_ECG_AMPL_ST_V1^MDC|1.7.3.131843|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|10|NM|72^MNDRY_ECG_TEMP_AMPL_ST_I^99MNDRY|1.7.3.72|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|11|NM|74^MNDRY_ECG_TEMP_AMPL_ST_II^99MNDRY|1.7.3.74|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|12|NM|76^MNDRY_ECG_TEMP_AMPL_ST_III^99MNDRY|1.7.3.76|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|13|NM|78^MNDRY_ECG_TEMP_AMPL_ST_AVR^99MNDRY|1.7.3.78|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|14|NM|80^MNDRY_ECG_TEMP_AMPL_ST_AVL^99MNDRY|1.7.3.80|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|15|NM|82^MNDRY_ECG_TEMP_AMPL_ST_AVF^99MNDRY|1.7.3.82|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|16|NM|84^MNDRY_ECG_TEMP_AMPL_ST_V1^99MNDRY|1.7.3.84|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030104829-0500
OBX|17|NM|151578^MDC_TTHOR_RESP_RATE^MDC|1.7.1.151578|20|264928^MDC_DIM_RESP_PER_MIN^MDC||||R|||20171030104829-0500
OBX|18|NM|150045^MDC_PRESS_BLD_ART_PULM_SYS^MDC|1.1.1.150045|24|266016^MDC_DIM_MMHG^MDC||||R|||20171030104829-0500
OBX|19|NM|150047^MDC_PRESS_BLD_ART_PULM_MEAN^MDC|1.1.1.150047|14|266016^MDC_DIM_MMHG^MDC||||R|||20171030104829-0500
OBX|20|NM|150046^MDC_PRESS_BLD_ART_PULM_DIA^MDC|1.1.1.150046|9|266016^MDC_DIM_MMHG^MDC||||R|||20171030104829-0500
OBX|21|NM|368^MNDRY_BLD_PULS_RATE_ART_PULM^99MNDRY|1.1.1.368|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030104829-0500
```

6.2.4 Query Results Reply Message

```
MSH|^~\&|ACME_EMR|NORTH ELM HOSPITAL|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|20171030104833-0400||ACK^R04^ACK|28015|P|2.3|||NE|NE||UNICODE UTF-8
SFT|ACME|1.0|ACME_EMR
MSA|CA|88934
```

6.2.5 Query Message based on Visit Number

```
MSH|^~\&|ACME_EMR|NORTH ELM HOSPITAL|||20171030104832-0400||QRY^Q02^QRY_Q02|28014|D|2.6|||AL|NE||UNICODE UTF-8
SFT|ACME|1.0|ACME_EMR
QRD|20171030104832-0400|D|D|1|||1.000000^RD|RES
QRF|||VVD00100
```

6.3 File Query

6.3.1 Query Message based on Patient ID

```
MSH|^~\&|ACME_EMR|NORTH ELM HOSPITAL|||20171030105222-0400||QRY^R02^QRY_R02|28037|P|2.6|||AL|NE||UNICODE UTF-8
SFT|ACME|1.0|ACME_EMR
QRD|20171030105222-0400|R|I|3|||1^RD|MRN00100|RES
QRF|20171030105122-0400|20171030105222-0400
```

6.3.2 Query Reply Message

```
MSH|^~\&|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|||20171030105222-0500||ORF^R04^ORF_R04|88946|P|2.6|||AL|NE||UNICODE UTF-8  
MSA|AA|28037  
PID|||MRN00100^^^Hospital^PI  
NTE|1||\192.168.100.206\QueryResults\CID_3RID_12PID_MRN00100TID_1509378742.txt
```

6.3.3 Query Data File Content

```
MSH|^~\&|MINDRAY_EGATEWAY^00A037002700000E^EUI-64|MINDRAY|||20171030105222-0500||ORF^R04^ORF_R04|88945|P|2.6|||AL|NE||UNICODE UTF-8  
PID|||MRN00100^^^Hospital^PI  
PV1||I  
OBR|1|88945^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|88945^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|182777000^monitoring of patient^SCT|||20171030095125-0500  
OBX|1|NM|147842^MDC_ECG_HEART_RATE^MDC|1.7.4.147842|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030095125-0500|||F046EE9X^Beneview^mindray.com^DNS  
OBX|2|NM|148066^MDC_ECG_V_P_C_RATE^MDC|1.7.2.148066|0|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030095125-0500  
OBX|3|NM|131841^MDC_ECG_AMPL_ST_I^MDC|1.7.3.131841|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|4|NM|131842^MDC_ECG_AMPL_ST_II^MDC|1.7.3.131842|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|5|NM|131901^MDC_ECG_AMPL_ST_III^MDC|1.7.3.131901|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|6|NM|131902^MDC_ECG_AMPL_ST_AVR^MDC|1.7.3.131902|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|7|NM|131903^MDC_ECG_AMPL_ST_AVL^MDC|1.7.3.131903|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|8|NM|131904^MDC_ECG_AMPL_ST_AVF^MDC|1.7.3.131904|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|9|NM|131843^MDC_ECG_AMPL_ST_V1^MDC|1.7.3.131843|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095125-0500  
OBX|10|NM|151578^MDC_TTHOR_RESP_RATE^MDC|1.7.1.151578|20|264928^MDC_DIM_RESP_PER_MIN^MDC||||R|||20171030095125-0500  
OBX|11|NM|150045^MDC_PRESS_BLD_ART_PULM_SYS^MDC|1.1.1.150045|24|266016^MDC_DIM_MMHG^MDC||||R|||20171030095125-0500  
OBX|12|NM|150047^MDC_PRESS_BLD_ART_PULM_MEAN^MDC|1.1.1.150047|14|266016^MDC_DIM_MMHG^MDC||||R|||20171030095125-0500  
OBX|13|NM|150046^MDC_PRESS_BLD_ART_PULM_DIA^MDC|1.1.1.150046|9|266016^MDC_DIM_MMHG^MDC||||R|||20171030095125-0500  
OBX|14|NM|368^MNDRY_BLD_PULS_RATE_ART_PULM^99MNDRY|1.1.1.368|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030095125-0500  
OBR|2|88945^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|88945^MINDRAY_EGATEWAY^00A037002700000E^EUI-64|182777000^monitoring of patient^SCT|||20171030095154-0500  
OBX|1|NM|147842^MDC_ECG_HEART_RATE^MDC|1.7.4.147842|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030095154-0500|||F046EE9X^Beneview^mindray.com^DNS  
OBX|2|NM|148066^MDC_ECG_V_P_C_RATE^MDC|1.7.2.148066|0|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030095154-0500  
OBX|3|NM|131841^MDC_ECG_AMPL_ST_I^MDC|1.7.3.131841|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|4|NM|131842^MDC_ECG_AMPL_ST_II^MDC|1.7.3.131842|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|5|NM|131901^MDC_ECG_AMPL_ST_III^MDC|1.7.3.131901|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|6|NM|131902^MDC_ECG_AMPL_ST_AVR^MDC|1.7.3.131902|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|7|NM|131903^MDC_ECG_AMPL_ST_AVL^MDC|1.7.3.131903|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|8|NM|131904^MDC_ECG_AMPL_ST_AVF^MDC|1.7.3.131904|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|9|NM|131843^MDC_ECG_AMPL_ST_V1^MDC|1.7.3.131843|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|10|NM|72^MNDRY_ECG_TEMP_AMPL_ST_I^99MNDRY|1.7.3.72|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|11|NM|74^MNDRY_ECG_TEMP_AMPL_ST_II^99MNDRY|1.7.3.74|0.05|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|12|NM|76^MNDRY_ECG_TEMP_AMPL_ST_III^99MNDRY|1.7.3.76|0.02|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|13|NM|78^MNDRY_ECG_TEMP_AMPL_ST_AVR^99MNDRY|1.7.3.78|-0.04|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|14|NM|80^MNDRY_ECG_TEMP_AMPL_ST_AVL^99MNDRY|1.7.3.80|0.00|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|15|NM|82^MNDRY_ECG_TEMP_AMPL_ST_AVF^99MNDRY|1.7.3.82|0.03|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|16|NM|84^MNDRY_ECG_TEMP_AMPL_ST_V1^99MNDRY|1.7.3.84|0.01|266418^MDC_DIM_MILLI_VOLT^MDC||||R|||20171030095154-0500  
OBX|17|NM|151578^MDC_TTHOR_RESP_RATE^MDC|1.7.1.151578|20|264928^MDC_DIM_RESP_PER_MIN^MDC||||R|||20171030095154-0500  
OBX|18|NM|150045^MDC_PRESS_BLD_ART_PULM_SYS^MDC|1.1.1.150045|24|266016^MDC_DIM_MMHG^MDC||||R|||20171030095154-0500  
OBX|19|NM|150047^MDC_PRESS_BLD_ART_PULM_MEAN^MDC|1.1.1.150047|14|266016^MDC_DIM_MMHG^MDC||||R|||20171030095154-0500  
OBX|20|NM|150046^MDC_PRESS_BLD_ART_PULM_DIA^MDC|1.1.1.150046|9|266016^MDC_DIM_MMHG^MDC||||R|||20171030095154-0500  
OBX|21|NM|368^MNDRY_BLD_PULS_RATE_ART_PULM^99MNDRY|1.1.1.368|60|264864^MDC_DIM_BEAT_PER_MIN^MDC||||R|||20171030095154-0500
```

6.3.4 Query Message based on Visit Number

```
MSH|^~\&|ACME_EMR|NORTH ELM HOSPITAL|||20171030105222-0400||QRY^R02^QRY_R02|28037|P|2.6|||AL|NE|||UNICODE UTF-8
SFT|ACME|1.0|ACME EMR
QRD|20171030105222-0400|R|I|3|||1^RD||RES
QRF||20171030105122-0400|20171030105222-0400|VID00100
```

6.4 Alert

6.4.1 Alert Message

```
MSH|^~\&|MINDRAY_EGATEWAY^00A0370027388842^EUI-64|MINDRAY|||20181129182913.0000+0000||ORU^R40^ORU_R40|34|P|2.6|||AL|NE||UNICODE
8|||IHE_PCD_ACM_001^IHE_PCD^1.3.6.1.4.1.19376.1.6.1.4.1^ISO
```

UTF-

SFT|Mindray|7.0.0|eGateway

PID|||M1126 00012^^Hospital^PI||l^f^m^^^L||20001126|F||2131-1

PV1||I|keshi^fang^bed^yiyuan||||ddd|||||||vvv

OBR|1||34^MINDRAY_EGATEWAY^00A0370027388842^EUI-64|196616^MDC_EVT_ALARM^MDC|||20181129163058.0000+0800

OBX|1||69965^MDC_DEV_MON_PHYSIO_MULTI_PARAM_MDS^MDC|1.0.0.0|||||X|||||00-0B-AB-04-9B-96-AA-94^BIG_DIPPER^mindray.com^DNS

OBX|2||70682^MDC DEV CO2 VMD^MDC|1.8.0.0|||||X

```
OBX|3||70683^MDC DEV CO2 CHAN^MDC|1.8.1.0|||||X
```

OBX|4|CWE|196616^MDC EVT ALARM^MDC|1.8.1.151708.1|196674^MDC EVT LO VAL LT LIM^MDC||L~PM~SP||F|||20181129163058.0000+0800

OBX|5|NM|151708^MDC CONC AWAY CO2 ET^MDC|1.8.1.151708.2|5.0|262688^MDC DIM PERCENT^MDC|5.4-6.6|||R|||20181129163058.0000+0800

OBX|6|ST|68481^MDC ATTR EVENT PHASE^MDC|1.8.1.151708.3|start|||||F

```
OBX|7|ST|68482^MDC ATTR ALARM STATE^MDC|1.8.1.151708.4|active|||||F
```

OBX|8|ST|68483^MDC ATTR ALARM INACTIVATION STATE^MDC|1.8.1.151708.5||||||F

OBX|9|ST|68484^MDC ATTR ALARM PRIORITY^MDC|1.8.1.151708.6|PM|||||F

OBX|10|ST|68485^MDC ATTR ALERT TYPE^MDC|1.8.1.151708.7|SP|||||F

OBR|2||34^MINDRAY EGATEWAY^00A0370027388842^EUI-64|BOUNDED WAVEFORM|||20181129163052.0000+0800|20181129163058.0000+0800

OBX|1||69965^MDC DEV MON PHYSIO MULTI PARAM MDS^MDC|1.0.0.0|||||X

OBX|2||69642^MDC DEV ANALY SAT O2 VMD^MDC|1.3.0.0|||||X

OBX|3||69643^MDC DEV ANALY SAT O2 CHAN^MDC|1.3.2.0|||||X

OBX|4|NA|150452|MDC_PULS_OXIM_PLETH|MDC|1.3.2.150452|17°15'13"11"9°8'6"43'1"0°0'0"2°9'20"46'59"69"78"84"85"82"77"70"62"54"45"38"32"30"30"31"33"34"34"31"29°27'25"23"21"19"17"15"13"11"9°8'6"43'1"0°0'0"2°9'20"33"46'59"69"78"84"85"82"77"70"62"54"45"38"32"30"30"31"34"35"34"31"29°27'25"23"21"19"17"15"13"11"9°8'6"

6.5 ADT

6.5.1 ADT Feed

6.5.1.1 Admit/Visit Notification (ADT^A01^ADT_A01)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A01|3|P|2.6|
EVN|A01|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.2 Transfer a Patient (ADT^A02^ADT_A02)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A02|3|P|2.6|
EVN|A02|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.3 Discharge/End Visit (ADT^A03^ADT_A03)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A03|3|P|2.6|
EVN|A03|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.4 Register a Patient (ADT^A04^ADT_A01)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A04|3|P|2.6|
EVN|A04|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.5 Change an Outpatient to an Inpatient (ADT^A06^ADT_A06)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A06|3|P|2.6|
EVN|A06|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.6 Change an Inpatient to an Outpatient (ADT^A07^ADT_A06)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A07|3|P|2.6|
EVN|A07|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.7 Update Patient Information (ADT^A08^ADT_A01)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A08|3|P|2.6|
EVN|A08|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.8 Patient Departing - Tracking (ADT^A09^ADT_A09)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A09|3|P|2.6|
EVN|A09|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.9 Patient Arriving - Tracking (ADT^A10^ADT_A09)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A10|3|P|2.6|
```



```

EVN|A10|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F

```

6.5.1.10 Cancel Admit/Visit Notification (ADT^A11^ADT_A09)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A11|3|P|2.6|
EVN|A11|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F

```

6.5.1.11 Cancel Transfer (ADT^A12^ADT_A12)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A12|3|P|2.6|
EVN|A12|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F

```

6.5.1.12 Cancel Discharge/End Visit (ADT^A13^ADT_A01)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A13|3|P|2.6|
EVN|A13|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F

```

6.5.1.13 Pending Admit (ADT^A14^ADT_A05)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A14|3|P|2.6|
EVN|A14|
PID|||MRN00100^^^Hospital^PI
PV1||I|

```

```
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.14 Pending Discharge (ADT^A16^ADT_A16)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A16|3|P|2.6|
EVN|A16|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.15 Swap Patients (ADT^A17^ADT_A17)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A17|3|P|2.6|
EVN|A17|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.16 Merge Patient Information (ADT^A18^ADT_A18)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A18|3|P|2.6|
EVN|A18|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.17 Delete a Patient Record (ADT^A23^ADT_A21)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A23|3|P|2.6|
```

```

EVN|A23|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.18 Cancel Pending Discharge (ADT^A25^ADT_A21)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A25|3|P|2.6|
EVN|A25|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.19 Cancel Pending Transfer (ADT^A26^ADT_A21)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A26|3|P|2.6|
EVN|A26|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.20 Cancel Pending Admit (ADT^A27^ADT_A21)

```

MSH|^~\&|Mindray|ADTServerDemo|||ADT^A27|3|P|2.6|
EVN|A27|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.21 Add Person or Patient Information (ADT^A28^ADT_A05)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A28|3|P|2.6|
EVN|A28|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.22 Delete Person Information (ADT^A29^ADT_A21)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A29|3|P|2.6|
EVN|A29|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.23 Merge Person Information (ADT^A30^ADT_A30)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A30|3|P|2.6|
EVN|A30|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.24 Update patient information (ADT^A31^ADT_A05)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A31|3|P|2.6|
EVN|A31|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
```

```

OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.25 Cancel Patient Arriving – Tracking (ADT^A32^ADT_A21)

```

MSH|^~\&|Mindray|ADTServerDemo||||ADT^A32|3|P|2.6|
EVN|A32|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.26 Cancel Patient Departing – Tracking (ADT^A33^ADT_A21)

```

MSH|^~\&|Mindray|ADTServerDemo||||ADT^A33|3|P|2.6|
EVN|A33|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.27 Merge Patient Information – Patient ID Only (ADT^A34^ADT_A30)

```

MSH|^~\&|Mindray|ADTServerDemo||||ADT^A34|3|P|2.6|
EVN|A34|
PID||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|

```

6.5.1.28 Merge Patient Information – Account Number Only (ADT^A35^ADT_A30)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A35|3|P|2.6|
EVN|A35|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.29 Merge Patient Information – Patient ID and Account Number (ADT^A36^ADT_A30)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A36|3|P|2.6|
EVN|A36|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.30 Cancel Pre-Admit (ADT^A38^ADT_A38)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A38|3|P|2.6|
EVN|A38|
PID|||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.31 Merge Person – Patient ID (ADT^A39^ADT_39)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A39|3|P|2.6|
EVN|A39|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
```

```
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.32 Merge Patient – Patient Identifier List (ADT^A40^ADT_A39)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A40|3|P|2.6|
EVN|A40|
PID||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.33 Merge Person – Patient Account Number (ADT^A41^ADT_39)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A41|3|P|2.6|
EVN|A41|
PID||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.34 Merge Visit - Visit Number (ADT^A42^ADT_A39)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A39|3|P|2.6|
EVN|A39|
PID||MRN00100^^^Hospital^PI
MRG|||VisitNumber2
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||00000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.35 Move Patient Information – Patient Account Number (ADT^A44^ADT_A43)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A44|3|P|2.6|
EVN|A44|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.36 Move Visit Information – Visit Number (ADT^A45^ ADT_A45)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A45|3|P|2.6|
EVN|A45|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
PID|||MRN00101^^^Hospital^PI
PV1||I|
```

6.5.1.37 Change Patient ID (ADT^A46^ADT_A30)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A46|3|P|2.6|
EVN|A46|
PID|||MRN00100^^^Hospital^PI
PV1||I|Unit^2^7^ADT Server|&&0|||S\Doctor Info|Physician Info||||||N|VisitNumber2
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
OBX||ST|30459^MNDRY_ATTR_PT_E||ON|||||F
```

6.5.1.38 Change Patient Identifier List (ADT^A47^ADT_A30)

```
MSH|^~\&|Mindray|ADTServerDemo|||ADT^A47|3|P|2.6|
EVN|A47|
PID|||MRN00100^^^Hospital^PI
MRG|M1129_00002|||
PV1||I|Unit^2^7^ADT Server|&&0|||S\Doctor Info|Physician Info||||||N|VisitNumber2
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX||NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX||NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX||ST|2302^MNDRY_ATTR_PT_B||AB|||||F
```


OBX||ST|30459^MNDY_ATTR_PT_E||ON|||||F

6.5.1.39 Change Visit Number (ADT^A50^ADT_A50)

MSH|^~\&|Mindray|ADTServerDemo||||ADT^A50|3|P|2.6|
EVN|A50|
PID||MRN00100^^^Hospital^PI
MRG||||VisitNumber2
PV1||I|Unit^2^7^ADT_Server|&&0|||S\Doctor_Info|Physician_Info||||||N|VisitNumber
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDY_ATTR_PT_E||ON|||||F

6.5.1.40 Change Attending Doctor (ADT^A54^ADT_A54)

MSH|^~\&|Mindray|ADTServerDemo||||ADT^A54|3|P|2.6|
EVN|A54|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|

6.5.1.41 Cancel Change Attending Doctor (ADT^A55^ADT_A54)

MSH|^~\&|Mindray|ADTServerDemo||||ADT^A55|3|P|2.6|
EVN|A55|
PID||MRN00100^^^Hospital^PI
PV1||I|
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||0000000000|
OBX|NM|68060^MDC_ATTR_PT_HEI||169.0|||||F
OBX|NM|68063^MDC_ATTR_PT_WEI||59.0|||||F
OBX|ST|2302^MNDY_ATTR_PT_B||AB|||||F
OBX|ST|30459^MNDY_ATTR_PT_E||ON|||||F
PID||MRN00101^^^Hospital^PI
PV1||I|

6.5.2 ADT Query

6.5.2.1 QBP^ZV1^QBP_Q21 ADT Query Message

MSH|^~\&|MINDRAY_EGATEWAY^00A03700274F4F50^EUI-64|MINDRAY|||20181129161240.0000+0800||QBP^ZV1^QBP_Q21|3|P|2.6|||AL|NE||UNICODE UTF-8
QPD|IHE PDQ Query|QueryTag_11|@PID.3.1^PID001
RCP|I|50^RD

6.5.2.2 QBP^ZV1^QBP_Q21 ADT Query Reply Message

```
MSH|^~\&||MINDRAY_EGATEWAY^00A0370027022612^EUI64|||RSP^ZV2^RSP_ZV2|3|P|2.6|||||  
MSA|AA|3||||  
QAK|QueryTag_11|NF  
QPD|IHE PDQ Query|QueryTag_11|@PID.3.1^PID001||||  
PID|||PID001^^^Hospital^PI  
PV1||I|  
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||000000000000|  
OBX|NM|68060^MDC_ATTR_PT_HEIGHT^MDC|1.10.1.68060|169.0|||||F  
OBX|NM|68063^MDC_ATTR_PT_WEIGHT^MDC|1.10.1.68063|59.0|||||F  
OBX|ST|2302^MNDRY_ATTR_PT_BLOOD_TYPE^99MNDRY|1.10.1.2302|AB|||||F  
OBX|ST|30459^MNDRY_ATTR_PT_EVT_PACER_MODE^99MNDRY|1.10.1.30459|ON|||||F
```

6.5.2.3 QBP^Q22^QBP_Q21 ADT Query Message

```
MSH|^~\&||MINDRAY_EGATEWAY^00A03700274F50^EUI-64|MINDRAY|||20181129161554.0000+0800||QBP^Q22^QBP_Q21|3|P|2.6|||AL|NE||UNICODE UTF-8  
QPD|IHE PDQ Query|QueryTag_11|@PID.3.1^PID001  
RCP|I|50^RD
```

6.5.2.4 QBP^Q22^QBP_Q21 ADT Query Reply Message

```
MSH|^~\&||MINDRAY_EGATEWAY^00A0370027022612^EUI64|||RSP^K22^RSP_K21|3|P|2.6|||||  
MSA|AA|3||||  
QAK|QueryTag_11|NF  
QPD|IHE PDQ Query|QueryTag_11|@PID.3.1^PID001||||  
PID|||PID001^^^Hospital^PI  
PV1||I|  
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||000000000000|  
OBX|NM|68060^MDC_ATTR_PT_HEIGHT^MDC|1.10.1.68060|169.0|||||F  
OBX|NM|68063^MDC_ATTR_PT_WEIGHT^MDC|1.10.1.68063|59.0|||||F  
OBX|ST|2302^MNDRY_ATTR_PT_BLOOD_TYPE^99MNDRY|1.10.1.2302|AB|||||F  
OBX|ST|30459^MNDRY_ATTR_PT_EVT_PACER_MODE^99MNDRY|1.10.1.30459|ON|||||F
```

6.5.2.5 QRY^A19 ADT Query Message

```
MSH|^~\&||MINDRAY_EGATEWAY^00A03700274F50^EUI-64|MINDRAY|||20181129160534.0000+0800||QRY^A19|25|P|2.6|||AL|NE||UNICODE UTF-8  
QRD|20181129160534.0000+0800|D|D|25|||50^RD|pid001|RES|^eGateway  
RCP|I|50^RD
```

6.5.2.6 QRY^A19 ADT Query Reply Message

```
MSH|^~\&||PM|HNE|Sys1|Q230|20100118102433||ADR^A19|25|P|2.3.1|||AL  
MSA|AA|25|Patient data returned successfully  
QRD|20100118102433|R|I|789|||25^RD|^SMITH^ELIZ|APN|  
PID|||pid001^^^Hospital^PI  
PV1||I|  
OBR|||69952^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM^MDC|||000000000000|  
OBX|NM|68060^MDC_ATTR_PT_HEIGHT^MDC|1.10.1.68060|169.0|||||F  
OBX|NM|68063^MDC_ATTR_PT_WEIGHT^MDC|1.10.1.68063|59.0|||||F  
OBX|ST|2302^MNDRY_ATTR_PT_BLOOD_TYPE^99MNDRY|1.10.1.2302|AB|||||F  
OBX|ST|30459^MNDRY_ATTR_PT_EVT_PACER_MODE^99MNDRY|1.10.1.30459|ON|||||F
```


[illegible]

[illegible]

6.6.3 Result Acknowledgement

6.7 High Resolution Alert

6.7.1 Alert Message

399

OBX|5|NM|147842^MDC_ECG_HEART_RATE^MDC|1.7.4.147842.2|60|264864^MDC_DIM_BEAT_PER_MIN^MDC|50-120||||F|||20181129094254.000+0800
OBX|6|ST|68481^MDC_ATTR_EVENT_PHASE^MDC|1.7.4.147842.3|end|||||F
OBX|7|ST|68482^MDC_ATTR_ALARM_STATE^MDC|1.7.4.147842.4|inactive|||||F
OBX|8|ST|68483^MDC_ATTR_ALARM_INACTIVATION_STATE^MDC|1.7.4.147842.5|||||F
OBX|9|ST|68484^MDC_ATTR_ALARM_PRIORITY^MDC|1.7.4.147842.6|PN|||||F
OBX|10|ST|68485^MDC_ATTR_ALERT_TYPE^MDC|1.7.4.147842.7|SP|||||F

6.7.2 Alert Acknowledgement

MSH|^~\&|Mindray|ADTServer||||ACK|3|P|2.6|
MSA|AA|164

6.8 A Series

6.8.1 Message

MSH|^~\&|MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|MINDRAY|||20181221185530.0000+0800||ORU^R01^ORU_R01|421|P|2.6|||AL|NE||UNICODE UTF-8|||IHE_PCD_001^IHE
PCD^1.3.6.1.4.1.19376.1.6.1.1.1^ISO
PID|||WW^^Hospital^PI||^
PV1||I
OBR|1|421^MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|421^MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|182777000^monitoring of patient^SCT|||20181221185423.0000-0500
OBX|1|NM|151976^MDC_VENT_PRESS_AWAY_END_EXP_POS^MDC|1.14.1.151976|7.0|266048^MDC_DIM_CM_H2O^MDC||||R|||20181221185423.0000-0500|||00-E0-4C-04-2A-6B-F4-16^A7^mindray.com^DNS
OBX|2|NM|151793^MDC_PRESS_AWAY_MAX^MDC|1.14.1.151793|12.0|266048^MDC_DIM_CM_H2O^MDC||||R|||20181221185423.0000-0500
OBX|3|NM|151784^MDC_PRESS_RESP_PLAT^MDC|1.14.1.151784|12.0|266048^MDC_DIM_CM_H2O^MDC||||R|||20181221185423.0000-0500
OBX|4|NM|151819^MDC_PRESS_AWAY_INSP_MEAN^MDC|1.14.1.151819|12.0|266048^MDC_DIM_CM_H2O^MDC||||R|||20181221185423.0000-0500
OBX|5|NM|151868^MDC_VOL_AWAY_TIDAL^MDC|1.14.1.151868|30|263762^MDC_DIM_MILLI_L^MDC||||R|||20181221185423.0000-0500
OBX|6|NM|151880^MDC_VOL_MINUTE_AWAY^MDC|1.14.1.151880|1.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|7|NM|151562^MDC_RESP_RATE^MDC|1.14.1.151562|50|264928^MDC_DIM_RESP_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|8|SN|151832^MDC_RATIO_IE^MDC|1.14.1.151832|^1^:~0|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500
OBX|9|NM|151688^MDC_COMPL_LUNG^MDC|1.14.1.151688|0|268050^MDC_DIM_MILLI_L_PER_CM_H2O^MDC||||R|||20181221185423.0000-0500
OBX|10|NM|151840^MDC_RES_AWAY^MDC|1.14.1.151840|250|268064^MDC_DIM_CM_H2O_PER_L_PER_SEC^MDC||||R|||20181221185423.0000-0500
OBX|11|NM|151610^MDC_VENT_CO2_RESP_RATE^MDC|1.14.1.151610|22|264928^MDC_DIM_RESP_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|12|NM|151708^MDC_CONC_AWAY_CO2_ET^MDC|1.14.1.151708|40|266016^MDC_DIM_MMHG^MDC||||R|||20181221185423.0000-0500
OBX|13|NM|151716^MDC_CONC_AWAY_CO2_INSP^MDC|1.14.1.151716|1|266016^MDC_DIM_MMHG^MDC||||R|||20181221185423.0000-0500
OBX|14|NM|152196^MDC_CONC_AWAY_O2_INSP^MDC|1.14.1.152196|50.0|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|15|NM|152440^MDC_CONC_AWAY_O2_ET^MDC|1.14.1.152440|19.0|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|16|NM|152192^MDC_CONC_AWAY_N2O_INSP^MDC|1.14.1.152192|50|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|17|NM|152108^MDC_CONC_AWAY_N2O_ET^MDC|1.14.1.152108|45|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|18|NM|152176^MDC_CONC_AWAY_HALOTH_INSP^MDC|1.14.1.152176|0.60|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|19|NM|152092^MDC_CONC_AWAY_HALOTH_ET^MDC|1.14.1.152092|0.30|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|20|NM|152464^MDC_CONC_AWAY_AGENT_INSP^MDC|1.14.1.152464|0.60|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|21|NM|152460^MDC_CONC_AWAY_AGENT_ET^MDC|1.14.1.152460|0.30|262688^MDC_DIM_PERCENT^MDC||||R|||20181221185423.0000-0500
OBX|22|NM|152872^MDC_CONC_MAC^MDC|1.14.1.152872|0.8|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500
OBX|23|NM|152932^MDC_VOL_DELIV_HALOTH_LIQUID_CASE^MDC|1.14.1.152932|0|263762^MDC_DIM_MILLI_L^MDC||||R|||20181221185423.0000-0500
OBX|24|NM|152916^MDC_VOL_DELIV_ENFL_LIQUID_CASE^MDC|1.14.1.152916|0|263762^MDC_DIM_MILLI_L^MDC||||R|||20181221185423.0000-0500
OBX|25|NM|152948^MDC_VOL_DELIV_ISOFL_LIQUID_CASE^MDC|1.14.1.152948|0|263762^MDC_DIM_MILLI_L^MDC||||R|||20181221185423.0000-0500
OBX|26|NM|152980^MDC_VOL_DELIV_SEVOFL_LIQUID_CASE^MDC|1.14.1.152980|0|263762^MDC_DIM_MILLI_L^MDC||||R|||20181221185423.0000-0500
OBX|27|NM|152900^MDC_VOL_DELIV_DESFL_LIQUID_CASE^MDC|1.14.1.152900|0|263762^MDC_DIM_MILLI_L^MDC||||R|||20181221185423.0000-0500
OBX|28|NM|153092^MDC_FLOW_N2O_FG^MDC|1.14.1.153092|0.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|29|NM|152876^MDC_FLOW_AIR_FG^MDC|1.14.1.152876|0.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|30|NM|153156^MDC_FLOW_O2_FG^MDC|1.14.1.153156|2.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500

```

OBX|31|NM|16930308^MDC_FLOW_N2O_FG_SETTING^MDC|1.14.1.16930308|0.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|32|NM|16930092^MDC_FLOW_AIR_FG_SETTING^MDC|1.14.1.16930092|0.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|33|NM|16930372^MDC_FLOW_O2_FG_SETTING^MDC|1.14.1.16930372|2.00|265216^MDC_DIM_L_PER_MIN^MDC||||R|||20181221185423.0000-0500
OBX|34|NM|293^MNDRY_FLOW_DELIV_HALOTH_LIQUID^99MNDRY|1.14.1.293|3|265266^MDC_DIM_MILLI_L_PER_HR^MDC||||R|||20181221185423.0000-0500
OBX|35|CNE|30007^MNDRY_EVT_STAT_WARMER_ON_BOOL^99MNDRY|1.14.3.30007|30000^MNDRY_TRUE^99MNDRY|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500
OBX|36|CNE|184352^MDC_VENT_MODE^MDC|1.14.3.184352|50000^MNDRY_VENT_MODE_MANUAL^99MNDRY|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500
OBX|37|CNE|202886^MDC_EVT_STAT_DEV^MDC|1.14.3.202886|202902^MDC_EVT_STAT_RUNNING^MDC|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500
OBX|38|CNE|30002^MNDRY_EVT_STAT_MODE_DEV^99MNDRY|1.14.3.30002|30003^MNDRY_EVT_STAT_MODE_NORMAL^99MNDRY|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500
OBX|39|CNE|30005^MNDRY_EVT_PATIENT_TYPE^99MNDRY|1.14.3.30005|202890^MDC_EVT_STAT_DEV_MODE_ADULT^MDC|262656^MDC_DIM_DIMLESS^MDC||||R|||20181221185423.0000-0500

```

6.9 Document Sharing

6.9.1 MDM with Reference Message

```

MSH|^~\&|MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|MINDRAY|||20181226193432.0000+0800||MDM^T01^MDM_T01|49|P|2.6|||AL|NE||UNICODE UTF-8
SFT|Mindray|7.0.0|eGateway
EVN|T01|20181226193415.0000+0800
PID|||M1216_00017^^^Hospital^PI|||姓名^^^^^L|||20181216|F||unknownrace
PV1||I|科室^3^17|||||||||||||访问序列号
TXA|1|HP|AP|20181226193415.0000+0800|||20181226193415.0000+0800|||||File://syn-PC/document/F140291051108_20181226193338006.xml|||||DO

```

6.9.2 MDM with Content Message

```

MSH|^~\&|MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|MINDRAY|||20181226193537.0000+0800||MDM^T02^MDM_T02|50|P|2.6|||AL|NE||UNICODE UTF-8
SFT|Mindray|7.0.0|eGateway
EVN|T02|20181226193520.0000+0800
PID|||M1216_00017^^^Hospital^PI|||姓名^^^^^L|||20181216|F||unknownrace
PV1||I|科室^3^17|||||||||||||访问序列号
TXA|1|HP|AP|20181226193520.0000+0800|||20181226193520.0000+0800|||||F140291051108_20181226193445813.xml|||||DO
OBX|1|ED|536^MNDRY_DOCUMENT_WAVEFORM^99MNDRY|1.39.1.536|^text^xml^Base64^PD94bWwgdmVyc2lvcj0nMS4wJyB1bmNvZGluZz0ndXRmLTgnPz4NCjxEYXRhRXhwb3J0IFZlcnNpb249JzEuMCCgeG1sbnM6eHNpPSdo...

```

6.9.3 ORU with Reference Message

```

MSH|^~\&|MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|MINDRAY|||20181226180502.0000+0800||ORU^R01^ORU_R01|22|P|2.6|||AL|NE||UNICODE UTF-8
SFT|Mindray|7.0.0|eGateway
PID|||M1216_00017^^^Hospital^PI|||姓名^^^^^L|||20181216|F||unknownrace
PV1||I|科室^3^17|||||||||||||访问序列号
OBR|1|22^MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|22^MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|182777000^monitoring of patient^SCT|||20181226180445.0000+0800
OBX|1|RP|536^MNDRY_DOCUMENT_WAVEFORM^99MNDRY|1.39.1.536|File://syn-PC/document/F140291051108_20181226180411758.xml

```

6.9.4 ORU with Content Message

```

MSH|^~\&|MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|MINDRAY|||20181226180602.0000+0800||ORU^R01^ORU_R01|23|P|2.6|||AL|NE||UNICODE UTF-8
SFT|Mindray|7.0.0|eGateway
PID|||M1216_00017^^^Hospital^PI|||姓名^^^^^L|||20181216|F||unknownrace
PV1||I|科室^3^17|||||||||||||访问序列号
OBR|1|23^MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|23^MINDRAY_EGATEWAY^00A03700273B61A9^EUI-64|182777000^monitoring of patient^SCT|||20181226180545.0000+0800
OBX|1|ED|536^MNDRY_DOCUMENT_WAVEFORM^99MNDRY|1.39.1.536|^text^xml^Base64^PD94bWwgdmVyc2lvcj0nMS4wJyB1bmNvZGluZz0ndXRmLTgnPz4NCjxEYXRhRXhwb3J0IFZlcnNpb249JzEuMCCgeG1sbnM6eHNpPSdo...

```