

LATITUDE INTEGRATION
IDCO SPECIFICATION

**LATITUDE™ NXT
Patient Management System**

Outdated version. Do not use.
Version überholt. Nicht verwenden.
Version obsolète. Ne pas utiliser.
Versión obsoleta. No utilizar.
Versione obsoleta. Non utilizzare.
Verouderde versie. Niet gebruiken.
Föråldrad version. Använd ej.
Παλιά έκδοση. Μην την χρησιμοποιείτε.
Versão obsoleta. Não utilize.
Forældet version. Må ikke anvendes.
Zastaralá verze. Nepoužívat.
Utdatert versjon. Skal ikke brukes.
Zastaraná verzia. Nepoužívať.
Elavult verzió. Ne használja!
Wersja nieaktualna. Nie używać.

Outdated version. Do not use.
Version überholt. Nicht verwenden.
Version obsolète. Ne pas utiliser.
Versión obsoleta. No utilizar.
Versione obsoleta. Non utilizzare.
Verouderde versie. Niet gebruiken.
Föråldrad version. Använd ej.
Παλιά έκδοση. Μην την χρησιμοποιείτε.
Versão obsoleta. Não utilize.
Forældet version. Må ikke anvendes.
Zastaralá verze. Nepoužívat.
Utdatert versjon. Skal ikke brukes.
Zastaraná verzia. Nepoužívať.
Elavult verzió. Ne használja!
Wersja nieaktualna. Nie używać.

TABLE OF CONTENTS

Overview	1
LATITUDE IDCO Message Specification	1
Segment Structure	1
MSH segment structure	1
PID segment structure	2
PV1 segment structure	2
PV2 segment structure	2
OBR segment structure	2
OBX segment structure	3
Output Parameters	3
Alert and Warning Definitions	3
Reports	3
Base Terms	4
Conversion of Implanted Device Data into IDCO Messages	9
Battery Status	9
SET_BRADY_SENSOR_TYPE	9
Episode Mapping	10
Counter Mapping	11
Lead Configuration Mapping	12
System Limitations	12
Alert and Warning Definitions	13
Reports	13
Example IDCO File	14

Outdated version. Do not use.
Version überholt. Nicht verwenden.
Version obsolète. Ne pas utiliser.
Versión obsoleta. No utilizar.
Versione obsoleta. Non utilizzate.
Verouderde versie. Niet gebruiken.
Föråldrad version. Använd ej.
Παλιά έκδοση. Μην την χρησιμοποιείτε.
Versão obsoleta. Não utilize.
Forældet version. Må ikke anvendes.
Zastaralá verze. Nepoužívat.
Utdatert versjon. Skal ikke brukes.
Zastaraná verzia. Nepoužívať.
Elavult verzió. Ne használja!
Wersja nieaktualna. Nie używać.

LATITUDE and RYTHMIQ are trademarks of Boston Scientific Corporation or its affiliates.

Overview

The Boston Scientific LATITUDE remote patient monitoring system creates Implantable Device - Cardiac - Observation (IDCO) messages according to the specifications and definitions published in this document. The messages are compliant to the Integrating the Healthcare Enterprise (IHE) Patient Care Device (PCD) Technical Framework IDCO profile. These messages are used to deliver patient data to electronic medical record (EMR) or clinical information system (CIS) systems.

This document is intended for Boston Scientific (BSC) LATITUDE customers who (1) integrate IDCO messages into an EMR and (2) use EMR or CIS systems to track and manage patient data. The first section of this document ("LATITUDE IDCO Message Specification") is intended primarily for technical personnel involved in message integration, while the second section is primarily intended for the clinician as further clarification of the Boston Scientific version of the data included in the message.

NOTE: *It is assumed that readers of this section are familiar with HL7 and IDCO terminology, specification syntax, data types, message structures, and semantics for IDCO messages. For more information see:*

- www.hl7.org for HL7 messaging
- www.ihe.net for IDCO messaging
- http://ihe.net/Technical_Framework/index.cfm#pcd for PCD-09 Technical Framework (consists of Vol. 1, 2, and 3)
- <http://standards.ieee.org/findstds/standard/11073-10103-2012.html> for IEEE IDCO nomenclature

LATITUDE IDCO Message Specification

The LATITUDE IDCO message is a PCD-09 message per IHE PCD Technical Framework Revision 2.0, August 16, 2012. Per the technical framework, the message is a standard HL7 v2.6 unsolicited orders and observations message containing observations taken by the implanted device and coded using the IEEE 11073-10103 IDC nomenclature. This international standard describes a universal model for medical electronic data interoperability.

Values inside quotation marks in the value columns in the tables below indicate hardcoded values that will always appear as shown. Values without quotation marks either indicate an example or a description of the value.

Segment Structure

All data sent are per PCD-09. Information included in this section is intended to define the BSC output for IDCO messages. It is not exhaustive and is not intended to further define the IDCO nomenclature.

MSH segment structure

The MSH segment contains information about the sender and receiver of the message, the type of the message, a time stamp, etc. It is the first segment of the IDCO message.

ELEMENT NAME	SEQ	SUB SEQ	VALUE
Sending application	3		"LATITUDE"
Sending facility	4		"BOSTON SCIENTIFIC"
Receiving facility	6		LATITUDE Clinic Name
Character set	18		"UNICODE UTF-8"

PID segment structure

The PID segment contains patient identifier information such as name, id codes, zip code, etc. This information is used for patient matching.

ELEMENT NAME	SEQ	SUB SEQ	VALUE
Namespace ID	3	4	"BSX"

PV1 segment structure

The PV1 (Patient Visit) segment contains information regarding the patient's attending physician.

ELEMENT NAME	SEQ	SUB SEQ	VALUE
Patient class	2		"R"

PV2 segment structure

The PV2 (Patient Visit 2) segment contains information regarding the patient's LATITUDE group.

ELEMENT NAME	SEQ	SUB SEQ	VALUE
Organization name (group)	23	1	LATITUDE group name Example: Cardiology
ID number (primary or secondary patient group)		3	1 <i>See note 1</i>

PV2 notes

1. This value will be "1" if the HL7 file is associated with the primary LATITUDE group, and it will be "2" if it is associated with the secondary LATITUDE group.

OBR segment structure

OBR segments are the section headers for individual OBX interrogation information segments. They contain data such as timestamps, report identifier, and a unique system-generated identifier.

ELEMENT NAME	SEQ	SUB SEQ	EXAMPLE VALUE
Universal Service Identifier	4		
Identifier		1	754053
Text		2	See note 1
Observation date/time #	7		20060429080005+0000 See note 2
Result Status	25		"F" See note 3

OBR notes

1. The universal service identifier text will be of the form MDC_IDC_ENUM_SESS_TYPE_{session type} (e.g., MDC_IDC_ENUM_SESS_TYPE_RemoteScheduled).
2. Observation date/time will be the timestamp for when the implanted device interrogation occurred. The timestamp will be in the time zone that is set up for the patient.
3. Result status will be “F” (final results).

OBX segment structure

OBX segments contain data gathered during the most recent device interrogation.

ELEMENT NAME	SEQ	SUB SEQ	EXAMPLE VALUE
Observation result status	11		“F” See note 1
Date/Time of the Observation	14		20060317170000+0000 See note 2

OBX notes

1. Result status will be “F” (final results).
2. Date of the measurement will be included if the measurement date differs from the observation date in the OBR.

Output Parameters

- Strings will be sent in the language configured for the clinic in LATITUDE.
- Numerical values will always be sent using the dot “.” as the radix point (i.e., decimal point).

Alert and Warning Definitions

- If there is a warning, a warning NTE will precede one or more alert NTEs. A warning NTE will contain one or more warnings in one NTE.
- If there is an alert, there will be one NTE for each alert.

Reports

Presenting EGM Report

If available in the payload received from the PG, the Presenting EGM Report is attached to the message as a PDF and is associated with the appropriate APMRT episode using the group ID (OBX-4) for the APMRT episode.

Combined Follow-up Report

A Combined Follow-up Report is attached to the message as a PDF in a separate OBX.

Base Terms

The following table lists nomenclature terms that may be included in a BSC IDCO message.

REFERENCE ID PREPEND MDC_IDC_	DISPLAY NAME
DEV	Implantable Cardiac Device
DEV_TYPE	Implantable Cardiac Device Type
DEV_MODEL	Implantable Cardiac Device Model
DEV_SERIAL	Implantable Cardiac Device Serial Number
DEV_MFG	Implantable Cardiac Device Manufacturer
DEV_IMPLANT_DT	Implantable Cardiac Device Implant Date
LEAD	Implantable Lead Attributes
LEAD_MODEL	Implantable Lead Model
LEAD_SERIAL	Implantable Lead Serial Number
LEAD_MFG	Implantable Lead Manufacturer
LEAD_IMPLANT_DT	Implantable Lead Implant Date
LEAD_POLARITY_TYPE	Implantable Lead Polarity Type
LEAD_LOCATION	Implantable Lead Location
LEAD_LOCATION_DETAIL_1	Implantable Lead Location Detail 1
SESS	Interrogation Session
SESS_DTM	Date Time Interrogation Session
SESS_TYPE	Type Interrogation Session
SESS_CLINIC_NAME	Clinic Name
MSMT	Measurements
MSMT_BATTERY	Battery Measurements
MSMT_BATTERY_DTM	Battery Date Time of Measurements
MSMT_BATTERY_STATUS	Battery Status
MSMT_BATTERY_REMAINING_LONGEVITY	Battery Remaining Longevity
MSMT_BATTERY_REMAINING_PERCENTAGE	Battery Remaining Percentage
MSMT_CAP	Capacitor Measurements
MSMT_CAP_CHARGE_DTM	Capacitor Last Charge Date Time
MSMT_CAP_CHARGE_TIME	Capacitor Charge Time
MSMT_CAP_CHARGE_TYPE	Capacitor Charge Type
MSMT_LEADCHNL_[CHAMBER]	Lead Channel Measurements
MSMT_LEADCHNL_[CHAMBER]_DTM_[STRTEND]	Lead Channel Measurements Date and Time
MSMT_LEADCHNL_[CHAMBER]_LEAD_CHANNEL_STATUS	Lead Channel Status

REFERENCE ID PREPEND MDC_IDC_	DISPLAY NAME
MSMT_LEADCHNL_[CHAMBER]_SENSING	Lead Channel Sensing Measurements
MSMT_LEADCHNL_[CHAMBER]_SENSING_INTR_AMPL_[MMM]	Lead Channel Sensing Intrinsic Amplitude
MSMT_LEADCHNL_[CHAMBER]_SENSING_POLARITY	Lead Channel Sensing Polarity
MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD	Lead Channel Pacing Threshold Measurements
MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_AMPLITUDE	Lead Channel Pacing Threshold Amplitude
MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_PULSEWIDTH	Lead Channel Pacing Threshold Pulse Width
MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_MEASUREMENT_METHOD	Lead Channel Pacing Threshold Measurement Method
MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_POLARITY	Lead Channel Pacing Threshold Polarity
MSMT_LEADCHNL_[CHAMBER]_IMPEDANCE	Lead Channel Impedance Measurements
MSMT_LEADCHNL_[CHAMBER]_IMPEDANCE_VALUE	Lead Channel Impedance Value
MSMT_LEADCHNL_[CHAMBER]_IMPEDANCE_POLARITY	Lead Channel Impedance Polarity
MSMT_LEADHVCHNL	Lead High Voltage Channel Measurements
MSMT_LEADHVCHNL_DTM_[STRTEAD]	Lead High Voltage Channel Date Time
MSMT_LEADHVCHNL_IMPEDANCE	Lead High Voltage Channel Impedance
MSMT_LEADHVCHNL_MEASUREMENT_TYPE	Lead High Voltage Channel Measurement Type
MSMT_LEADHVCHNL_STATUS	Lead High Voltage Channel Status
SET	Settings
SET_CRT	CRT Settings
SET_CRT_LVRV_DELAY	CRT LV-RV Delay
SET_CRT_PACED_CHAMBERS	Ventricular chambers paced during CRT pacing

REFERENCE ID PREPEND MDC_IDC_	DISPLAY NAME
SET_LEADCHNL_[CHAMBER]	Lead Channel Settings
SET_LEADCHNL_[CHAMBER]_SENSING	Lead Channel Settings Sensing
SET_LEADCHNL_[CHAMBER]_SENSING_SENSITIVITY	Lead Channel Setting Sensing Sensitivity
SET_LEADCHNL_[CHAMBER]_SENSING_POLARITY	Lead Channel Setting Sensing Polarity
SET_LEADCHNL_[CHAMBER]_SENSING_ANODE_LOCATION_[1..3]	Lead Channel Setting Sensing Anode Location
SET_LEADCHNL_[CHAMBER]_SENSING_ANODE_ELECTRODE_[1..3]	Lead Channel Setting Sensing Anode Terminal
SET_LEADCHNL_[CHAMBER]_SENSING_CATHODE_LOCATION_[1..3]	Lead Channel Setting Sensing Cathode Location
SET_LEADCHNL_[CHAMBER]_SENSING_CATHODE_ELECTRODE_[1..3]	Lead Channel Setting Sensing Cathode Terminal
SET_LEADCHNL_[CHAMBER]_SENSING_ADAPTATION_MODE	Lead Channel Setting Sensing Adaptation Mode
SET_LEADCHNL_[CHAMBER]_PACING	Lead Channel Settings Pacing
SET_LEADCHNL_[CHAMBER]_PACING_AMPLITUDE	Lead Channel Setting Pacing Amplitude
SET_LEADCHNL_[CHAMBER]_PACING_PULSEWIDTH	Lead Channel Setting Pacing Pulse Width
SET_LEADCHNL_[CHAMBER]_PACING_POLARITY	Lead Channel Setting Pacing Polarity
SET_LEADCHNL_[CHAMBER]_PACING_ANODE_LOCATION_[1..3]	Lead Channel Setting Pacing Anode Location
SET_LEADCHNL_[CHAMBER]_PACING_ANODE_ELECTRODE_[1..3]	Lead Channel Setting Pacing Anode Terminal
SET_LEADCHNL_[CHAMBER]_PACING_CATHODE_LOCATION_[1..3]	Lead Channel Setting Pacing Cathode Location
SET_LEADCHNL_[CHAMBER]_PACING_CATHODE_ELECTRODE_[1..3]	Lead Channel Setting Pacing Cathode Terminal
SET_LEADCHNL_[CHAMBER]_PACING_CAPTURE_MODE	Lead Channel Setting Pacing Capture Mode

REFERENCE ID PREPEND MDC_IDC_	DISPLAY NAME
SET_BRADY	Brady Settings
SET_BRADY_MODE	Brady Setting Mode (NBG Code)
SET_BRADY_LOWRATE	Brady Setting Lower Rate Limit
SET_BRADY_SENSOR_TYPE	Brady Setting Sensor Type
SET_BRADY_MAX_TRACKING_RATE	Brady Setting Maximum Tracking Rate
SET_BRADY_MAX_SENSOR_RATE	Brady Setting Maximum Sensor Rate
SET_BRADY_SAV_DELAY_[HIGHLOW]	Brady Setting SAV Delay
SET_BRADY_PAV_DELAY_[HIGHLOW]	Brady Setting PAV Delay
SET_BRADY_AT_MODE_SWITCH_MODE	Brady Setting AT Mode Switch Mode
SET_BRADY_AT_MODE_SWITCH_RATE	Brady Setting AT Mode Switch Rate
SET_TACHYTHERAPY	Tachy Therapy Settings
SET_TACHYTHERAPY_VSTAT	Tachy Therapy Setting Ventricular Status
SET_ZONE	Zone Settings
SET_ZONE_TYPE	Zone Setting Type Category
SET_ZONE_VENDOR_TYPE	Zone Setting Vendor Type Category
SET_ZONE_STATUS	Zone Setting Status
SET_ZONE_DETECTION_INTERVAL	Zone Setting Detection Interval
SET_ZONE_TYPE_ATP_[1..10]	Zone Setting ATP Type
SET_ZONE_NUM_ATP_SEQS_[1..10]	Zone Setting Number of ATP Sequences
SET_ZONE_SHOCK_ENERGY_[1..10]	Zone Setting Shock Energy
SET_ZONE_NUM_SHOCKS_[1..10]	Zone Setting Number of Shocks
STAT	Statistics
STAT_DTM_[STRTEEND]	Statistic Date Time
STAT_BRADY	Brady Statistics
STAT_BRADY_DTM_[STRTEEND]	Brady Statistic Date Time
STAT_BRADY_RA_PERCENT_PACED	Brady Statistic RA Percent Paced
STAT_BRADY_RV_PERCENT_PACED	Brady Statistic RV Percent Paced
STAT_AT	Atrial Tachy Statistics
STAT_AT_DTM_[STRTEEND]	Atrial Tachy Statistic Date Time
STAT_AT_BURDEN_PERCENT	Atrial Tachy Statistic AT/AF Burden Percent
STAT_CRT	CRT Statistics
STAT_CRT_DTM_[STRTEEND]	CRT Statistic Date Time
STAT_CRT_LV_PERCENT_PACED	CRT Statistic LV Percent Paced

REFERENCE ID PREPEND MDC_IDC_	DISPLAY NAME
STAT_EPISODE	Episode Statistics
STAT_EPISODE_TYPE	Episode Statistic Type Category
STAT_EPISODE_TYPE_INDUCED	Episode Statistic Type Induced
STAT_EPISODE_VENDOR_TYPE	Episode Statistic Vendor Type Category
STAT_EPISODE_RECENT_COUNT	Episode Statistic Recent Count
STAT_EPISODE_RECENT_COUNT_DTM_ [STRTEND]	Episode Statistic Recent Date Time
EPISODE	Episode
EPISODE_ID	Episode Identifier
EPISODE_DTM	Episode Date Time
EPISODE_TYPE	Episode Type Category
EPISODE_TYPE_INDUCED	Episode Type Induced Flag
EPISODE_VENDOR_TYPE	Episode Vendor Type Category
EPISODE_ATRIAL_INTERVAL_AT_DETECTION	Episode Detection Interval Atrial
EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION	Episode Detection Interval Ventricular
EPISODE_DETECTION_THERAPY_DETAILS	Episode Detection And Therapy Details
EPISODE_DURATION	Episode Duration

Conversion of Implanted Device Data into IDCO Messages

Battery Status

Enumerations for battery parameters map to BSC battery status as follows:

BSC BATTERY STATUS	IDCO BATTERY STATUS
BOL	BOS
OY	MOS
ERI	RRT
EOL	EOS

When an implanted device enters limited telemetry, its battery status could be either ERI or EOL. Either battery status will result in the same message: ENUM_BATTERY_STATUS_RRT (ERI) in MSMT_BATTERY_STATUS with the ERI timestamp in MSMT_BATTERY_DTM. This condition applies to limited telemetry only.

SET_BRADY_SENSOR_TYPE

The sensor type will be sent as shown in the table below.

VALUE SENT FOR SET_BRADY_SENSOR_TYPE VARIABLE BASED ON IMPLANTED DEVICE SETUP	IMPLANTED DEVICE SETTING
"Accelerometer"	Accelerometer only
"Minute Ventilation"	MV only
"Accelerometer + MV"	Accelerometer and MV

The above values will only be sent if the rate can be driven by the sensor (i.e., not sent if the sensor is in a monitor-only state).

The above values will be sent if the rate can be driven in the normal brady mode or in ATR (i.e., the value is not just reflective of the normal brady mode).

Note that "ATR Only" can be displayed in reports when the ATR mode is a rate-responsive mode, and the normal brady mode is not rate responsive. In that case, the text (e.g., "Accelerometer") will still be sent for the ATR mode. The user can look at the brady mode and ATR mode and determine that the rate response is for ATR only.

Episode Mapping

Episodes, counters, etc., will be sent relative to the information that is contained in the interrogation. The same information will be sent initially and in a subsequent resend even if there are interrogations in between. Note that the EMR output will not always match what is displayed in the Quick Notes report because Quick Notes display episodes, alerts, and counters since the last reset. Episodes are represented by a combination of normative and vendor-specific types. Some Boston Scientific episode types cannot be uniquely represented in the current IDCO nomenclature.

BSC EPISODE ID	BSC EPISODE TYPE	IDCO NORMATIVE EPISODE TYPE	IDCO VENDOR-SPECIFIC EPISODE TYPE
V-x	VF	VF	BSX-Zone_VF
V-x	VT	VT	BSX-Epis_VT
V-x	VT (V>A)	VT	BSX-Epis_VT
V-x	Tachy	For SSI devices, if the lead is in the: <ul style="list-style-type: none"> • V – VT • A – AT/AF • Unspecified – VT 	Blank
V-x	NonSust	For SSI devices, if the lead is in the: <ul style="list-style-type: none"> • V – VT • A – AT/AF • Unspecified – VT 	if A, blank else BSX-Epis_NSVT
V-x	SVT (V ≤ A)	SVT	BSX-Zone_SVT
V-x	VT-1	VT	BSX-Epis_VT-1
RMS-x	RMS	Other	BSX-Epis_RMS
RYTHMIQ-x	RYTHMIQ	Other	BSX-Epis_RMS
ATR-x	ATR	ATAF	BSX-Epis_ATR
PMT-x	PMT	Other	BSX-Epis_PMT
SBR-x	SBR	Other	None
PTM-x	PTM	Patient Activated	BSX-Epis_PTM
V-x	Cmd V	Other	None
V-x	NonSustV	VT	BSX-Epis_NSVT
APMRT-x	APM RT	Periodic EGM	BSX-Epis_APMRT
RVAT-x	RV Auto	Other	None
RAAT-x	RA Auto	Other	None
LVAT-x	LV Auto	Other	None
MRI-x	MRI	Other	None

Counter Mapping

Some counters are summed before sending in the message. This is because all Boston Scientific counters currently cannot be represented in the IDCO nomenclature: The counter values sent will be since the last reset.

BSC EPISODE COUNTER	IDCO STATISTIC NORMATIVE EPISODE TYPE	IDCO STATISTIC VENDOR-SPECIFIC EPISODE TYPE
VT (V>A)	VT	BSX-Epis_VT
Tachy	VT	BSX-Epis_VT
NonSust	VT	BSX-Epis_NSVT
NonSustV	VT	BSX-Epis_NSVT
SVT (V ≤ A)	SVT	BSX-Epis_SVT
ATR	AT/AF	BSX-Epis_ATR
MRI	Other	None
VF	VF	BSX-Epis_VF
VT	VT	BSX-Epis_VT
VT-1	VT	BSX-Epis_VT-1
Cmd	Other	None
No Therapy Programmed	Monitor	None
Other Untreated	Other	None
RMS	Other	BSX-Epis_RMS
RYTHMIQ	Other	BSX-Epis_RMS
PMT	Other	BSX-Epis_PMT
SBR	Other	None
PTM	Patient Activated	BSX-Epis_PTM
APM,RT	Periodic EGM	BSX-Epis_APMRT
RA Auto	Other	None
RV Auto	Other	None
LV Auto	Other	None

Lead Configuration Mapping

The table below shows how IDCO and BSC define multi-electrode leads. This table is not intended as an exhaustive list, but rather includes only enumerations that may not be obvious.

The definitions that BSC use are designed to be consistent with the Programmer Recorder Monitor (PRM) and the LATITUDE website.

BSC ELECTRODE NAME	IDCO ELECTRODE LOCATION	IDCO ELECTRODE NAME
Can	Other	Can
LVTip1	LV	Tip
LVRing2	LV	Ring1
LVRing3	LV	Ring2
LVRing4	LV	Ring3

MDC_IDC_ENUM_ELECTRODE_LOCATION (pace/sense anode/cathode location) currently does not include an enumeration for the pocket (i.e., can). Location will be sent as "other" and electrode as "can."

A "check lead" status indicates a possible issue with the lead; however, the absence of a "check lead" status does not indicate a properly performing lead. A "check lead" status will be sent if any of the following status indicators are present:

- Lead safety switch
- Impedance out of range
- Amplitude out of range
- Low shock impedance
- High Shock Impedance
- High voltage during charge

For MSMT_LEADCHNL_[CHAMBER] (i.e., lead channel measurements such as intrinsic amplitude, lead impedance, pacing threshold), only one timestamp range is possible for all measurements (i.e., not one range per measurement) in the current IDCO nomenclature. If the measurement times are different, a timestamp range (i.e., MIN, MAX) will be sent that is inclusive of the time of all the measurements. Further, the values that will be sent will be an IDCO MEAN value per the IDCO nomenclature. However, the values are single measurements and are not mean values over the timestamp range.

System Limitations

- Tachy-specific and chamber-specific output are as precise as possible. However, in some cases, the importance of sending the data and the fact that IDCO cannot represent certain parameters warrants sending the data anyway. For example, VT-zone information is sent as if brady devices had a VT zone.
- For devices that do not have the automatic pace threshold (Autothreshold feature), the last in-office threshold measurement will be sent.
- Proper reporting of implanted device data and alert notifications by the LATITUDE NXT system depends on the implanted device clock being programmed accurately with a Programmer/Recorder/Monitor (PRM). Proper reporting may continue to be impacted for some period of time after the implanted device clock is programmed correctly, depending on the amount of data received with inaccurate time information and the time difference of the implanted device clock error.
- Strings will be sent in the language configured for the clinic in LATITUDE.

Alert and Warning Definitions

Warning and alert messages are included in the message as notes that may or may not be displayed in an EMR. A warning or alert is included in the message if the data that was uploaded from the PG drove the warning or alert.

Reports

Presenting EGM Report

If available in the payload received from the PG, the Presenting EGM Report is attached to the message as a PDF and is associated with the appropriate APMRT episode using the group ID (OBX-4) for the APMRT episode.

Combined Follow-up Report

A Combined Follow-up Report is attached to the message as a PDF.

Outdated version. Do not use.
Version überholt. Nicht verwenden.
Version obsolète. Ne pas utiliser.
Versión obsoleta. No utilizar.
Versione obsoleta. Non utilizzate.
Verouderde versie. Niet gebruiken.
Föråldrad version. Använd ej.
Παλιά έκδοση. Μην την χρησιμοποιείτε.
Versão obsoleta. Não utilize.
Forældet version. Må ikke anvendes.
Zastaralá verzia. Nepoužívať.
Utdatert versjon. Skal ikke brukes.
Zastaraná verzia. Nepoužívať.
Elavult verzió. Ne használja!
Wersja nieaktualna. Nie używać.

Example IDCO File

The following example IDCO file shows what a LATITUDE IDCO message might look like. This is only one example of the many possible outcomes. Data within the example message is hypothetical, and not all LATITUDE IDCO terms are represented.

```
MSH|^~\&|LATITUDE|BOSTON SCIENTIFIC||TestClinic|201305092136+0000||ORU^R01^ORU_R01
|0|P|2.6|||UNICODE UTF-8|en^English||IHE_PCD_009^IHE_PCD
^1.3.6.1.4.1.19376.1.6.1.9.1^ISO
PID|1||model:N119/serial:900141^^^BSX^U||testLastName^testName^^^^^^I
-testAuxLName^testAuxFName^^^^^^P||19680215|U
PV1|1|R
PV2|||||TestDeviceGroup^^1
OBR|1||1000000916|754054^MDC_IDC_ENUM_SESS_TYPE_RemotePatientInitiated
^MDC||201001151330-0500|||||F
NTE|1||Feb 02, 2012 00:00 - Yellow Alert - Atrial Arrhythmia Burden of at least 3.0 hours
in a 24 hour period.
NTE|2||Feb 02, 2012 00:00 - Yellow Alert - Atrial Arrhythmia Burden of at least 3.0 hours
in a 24 hour period between Jan 11, 2010 23:00 and Jan 12, 2010 00:00.
NTE|3||Feb 02, 2012 00:00 - Yellow Alert - Cardiac Resynchronization Therapy pacing of
< 1%. Pacing was 2% between Jan 11, 2010 23:00 and Jan 12, 2010 00:00.
NTE|4||Feb 02, 2012 00:00 - Yellow Alert - Right ventricular pacing of > 1%. Pacing was
2% between Jan 11, 2010 23:00 and Jan 12, 2010 00:00.
NTE|5||Feb 02, 2012 00:00 - Yellow Alert - Patient triggered event stored.
NTE|6||Feb 02, 2012 00:00 - Yellow Alert - Weight gain of at least 5 lb. in a week or at
least 2 lb. average over a two or more day period.
NTE|7||Feb 02, 2012 00:00 - Yellow Alert - Weight loss of at least 5 lb. in a week or at
least 2 lb. average over a two or more day period.
NTE|8||Feb 02, 2012 00:00 - Yellow Alert - Explant indicator reached on Jan 12, 2010
00:00. Schedule replacement of this device.
NTE|9||Feb 02, 2012 00:00 - Yellow Alert - Voltage was too low for projected remaining
capacity.
NTE|10||Feb 02, 2012 00:00 - Red Alert - Remote monitoring disabled on Jan 12, 2010 00:00
due to limited battery capacity (Explant indicator reached on Feb 12, 2010 00:00).
NTE|11||Feb 02, 2012 00:00 - Yellow Alert - Therapy history corruption detected.
Previously stored therapy history data has been deleted.
NTE|12||Feb 02, 2012 00:00 - Red Alert - Possible device malfunction (Fault Code 1011).
NTE|13||Feb 02, 2012 00:00 - Red Alert - Possible device malfunction (Fault Code 1007).
NTE|14||Feb 02, 2012 00:00 - Red Alert - Possible device malfunction (Fault Code 1009).
NTE|15||Feb 02, 2012 00:00 - Red Alert - Device is in Safety Mode. For patient protection
the device has been switched to Safety Mode.
NTE|16||Feb 02, 2012 00:00 - Yellow Alert - Right ventricular automatic threshold
detected as > programmed amplitude or suspended.
NTE|17||Feb 02, 2012 00:00 - Yellow Alert - Atrial automatic threshold detected as >
programmed amplitude or suspended.
NTE|18||Feb 02, 2012 00:00 - Red Alert - Shock lead impedance out of range.
NTE|19||Feb 02, 2012 00:00 - Red Alert - Low shock lead impedance detected when attempting
to deliver a shock.
NTE|20||Feb 02, 2012 00:00 - Red Alert - High shock lead impedance detected when
attempting to deliver a shock.
NTE|21||Feb 02, 2012 00:00 - Red Alert - High voltage detected on shock lead during
charge.
NTE|22||Feb 02, 2012 00:00 - Red Alert - Electrocautery Protection is active.
NTE|23||Feb 02, 2012 00:00 - Yellow Alert - VT Episode occurred (V>A).
NTE|24||Feb 02, 2012 00:00 - Yellow Alert - Device Brady Mode is Off. Brady therapy will
not be delivered.
NTE|25||Feb 02, 2012 00:00 - Yellow Alert - Left ventricular pacing lead impedance out
of range.
NTE|26||Feb 02, 2012 00:00 - Yellow Alert - Atrial pacing lead impedance out of range.
NTE|27||Feb 02, 2012 00:00 - Yellow Alert - Right ventricular intrinsic amplitude out of
range.
NTE|28||Feb 02, 2012 00:00 - Yellow Alert - Intrinsic amplitude out of range.
NTE|29||Feb 02, 2012 00:00 - Yellow Alert - Left ventricular intrinsic amplitude out of
range.
```

NTE|30||Feb 02, 2012 00:00 - Yellow Alert - Atrial intrinsic amplitude out of range.
NTE|31||Feb 02, 2012 00:00 - Red Alert - Right ventricular pacing lead impedance out of range.
NTE|32||Feb 02, 2012 00:00 - Red Alert - Pacing lead impedance out of range.
NTE|33||Feb 02, 2012 00:00 - Yellow Alert - Ventricular shock therapy delivered to convert arrhythmia.
NTE|34||Feb 02, 2012 00:00 - Yellow Alert - Accelerated ventricular arrhythmia episode.
NTE|35||Feb 02, 2012 00:00 - Red Alert - V-Tachy mode set to value other than Monitor + Therapy.
NTE|36||Feb 02, 2012 00:00 - Red Alert - Lead Check notification due to abrupt change in right ventricular pacing lead impedance in the past 7 days.
NTE|37||Feb 02, 2012 00:00 - Red Alert - Lead Check notification due to episode with potential right ventricular non-physiologic signal.
NTE|38||Feb 02, 2012 00:00 - Yellow Alert - Left ventricular automatic threshold detected as > programmed amplitude or suspended.

OBX|1|ST|739536^MDC_IDC_EPISODE_ID^MDC|1|MRI-16|||||F
OBX|2|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|1|200101020304|||||F
OBX|3|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|1|754888
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|4|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|1|||||F
OBX|5|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|1|100|s|||||F
OBX|6|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS
^MDC|1|MRI Protection Mode|||||F
OBX|7|ST|739536^MDC_IDC_EPISODE_ID^MDC|2|LVAT-15|||||F
OBX|8|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|2|200101020304|||||F
OBX|9|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|2|754888
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|10|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|2|||||F
OBX|11|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|2|100|s|||||F
OBX|12|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|2|LV Auto|||||F
OBX|13|ST|739536^MDC_IDC_EPISODE_ID^MDC|3|RVAT-14|||||F
OBX|14|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|3|200101020304|||||F
OBX|15|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|3|754888
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|16|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|3|||||F
OBX|17|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|3|100|s|||||F
OBX|18|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|3|RV Auto|||||F
OBX|19|ST|739536^MDC_IDC_EPISODE_ID^MDC|4|APM-13|||||F
OBX|20|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|4|200101020304|||||F
OBX|21|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|4|754888
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_PeriodicEGM^MDC|||||F
OBX|22|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|4|771085
^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_APMRT^MDC|||||F
OBX|23|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|4|Presenting EGM|||||F
OBX|24|ST|739536^MDC_IDC_EPISODE_ID^MDC|5|PTM-12|||||F
OBX|25|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|5|200101020304|||||F
OBX|26|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|5|754887
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_PatientActivated^MDC|||||F
OBX|27|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|5|771080
^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_PTM^MDC|||||F
OBX|28|NM|739648^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION
^MDC|5|30000|ms|||||F
OBX|29|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|5|100|s|||||F
OBX|30|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|5|PTM|||||F
OBX|31|ST|739536^MDC_IDC_EPISODE_ID^MDC|6|RAAT-11|||||F
OBX|32|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|6|200101020304|||||F
OBX|33|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|6|754888
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|34|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|6|||||F
OBX|35|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|6|100|s|||||F
OBX|36|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|6|RA Auto|||||F
OBX|37|ST|739536^MDC_IDC_EPISODE_ID^MDC|7|RYTHMIQ-10|||||F
OBX|38|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|7|200101020304|||||F
OBX|39|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|7|754888
^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F

OBX|40|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|7|771084
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_RMS^MDC|||||F
 OBX|41|NM|739648
 ^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION^MDC|7|30000|ms|||||F
 OBX|42|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|7|100|s|||||F
 OBX|43|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|7|RYTHMIQ|||||F
 OBX|44|ST|739536^MDC_IDC_EPISODE_ID^MDC|8|RMS-9|||||F
 OBX|45|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|8|200101020304|||||F
 OBX|46|CWE|739568^MDC_IDC_EPISODE_TYPE
 ^MDC|8|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
 OBX|47|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|8|771084
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_RMS^MDC|||||F
 OBX|48|NM|739648
 ^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION^MDC|8|30000|ms|||||F
 OBX|49|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|8|100|s|||||F
 OBX|50|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|8|RMS|||||F
 OBX|51|ST|739536^MDC_IDC_EPISODE_ID^MDC|9|V-8|||||F
 OBX|52|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|9|200101020304|||||F
 OBX|53|CWE|739568^MDC_IDC_EPISODE_TYPE
 ^MDC|9|754881^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VF^MDC|||||F
 OBX|54|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE
 ^MDC|9|771073^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VF^MDC|||||F
 OBX|55|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|9|755329
 ^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_YES^MDC|||||F
 OBX|56|NM|739648
 ^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION^MDC|9|30000|ms|||||F
 OBX|57|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|9|100|s|||||F
 OBX|58|ST|739680
 ^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|9|VF ATPx1, 0.1J, 0.2J, 31Jx2|||||F
 OBX|59|ST|739536^MDC_IDC_EPISODE_ID^MDC|10|PMT-7|||||F
 OBX|60|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|10|200101020304|||||F
 OBX|61|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|10|754888
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
 OBX|62|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|10|771079
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_PMT^MDC|||||F
 OBX|63|NM|739648^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION
 ^MDC|10|30000|ms|||||F
 OBX|64|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|10|100|s|||||F
 OBX|65|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|10|PMT|||||F
 OBX|66|ST|739536^MDC_IDC_EPISODE_ID^MDC|11|V-6|||||F
 OBX|67|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|11|200101020304|||||F
 OBX|68|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|11|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F
 OBX|69|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|11|771075
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VT-1^MDC|||||F
 OBX|70|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|11|755329
 ^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_YES^MDC|||||F
 OBX|71|NM|739648^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION
 ^MDC|11|30000|ms|||||F
 OBX|72|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|11|100|s|||||F
 OBX|73|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS
 ^MDC|11|VT-1 ATPx1, 0.1J, 0.2J, 31Jx2|||||F
 OBX|74|ST|739536^MDC_IDC_EPISODE_ID^MDC|12|ATR-5|||||F
 OBX|75|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|12|200101020304|||||F
 OBX|76|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|12|754883
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_ATAF^MDC|||||F
 OBX|77|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|12|771078
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_ATR^MDC|||||F
 OBX|78|NM|739616^MDC_IDC_EPISODE_ATRIAL_INTERVAL_AT_DETECTION^MDC|12|20000|ms|||||F
 OBX|79|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|12|100|s|||||F
 OBX|80|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|12|ATR|||||F
 OBX|81|ST|739536^MDC_IDC_EPISODE_ID^MDC|13|V-4|||||F
 OBX|82|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|13|200101020304|||||F
 OBX|83|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|13|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F

OBX|84|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|13|771077
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_NSVT^MDC|||||F
 OBX|85|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|13|755329
 ^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_YES^MDC|||||F
 OBX|86|NM|739648^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION
 ^MDC|13|30000|ms|||||F
 OBX|87|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|13|100|s|||||F
 OBX|88|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|13|NonSustV|||||F
 OBX|89|ST|739536^MDC_IDC_EPISODE_ID^MDC|14|V-3|||||F
 OBX|90|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|14|200101020304|||||F
 OBX|91|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|14|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F
 OBX|92|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|14|771074
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VT^MDC|||||F
 OBX|93|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|14|755329
 ^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_YES^MDC|||||F
 OBX|94|NM|739648^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION
 ^MDC|14|30000|ms|||||F
 OBX|95|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|14|100|s|||||F
 OBX|96|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS
 ^MDC|14|VT ATPx1, 0.1J, 0.2J, 31Jx2|||||F
 OBX|97|ST|739536^MDC_IDC_EPISODE_ID^MDC|15|SBR-2|||||F
 OBX|98|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|15|200101020304|||||F
 OBX|99|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|15|754888
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
 OBX|100|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|15|771074
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VT^MDC|||||F
 OBX|101|NM|739616^MDC_IDC_EPISODE_ATRIAL_INTERVAL_AT_DETECTION^MDC|15|20000|ms|||||F
 OBX|102|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|15|100|s|||||F
 OBX|103|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|15|SBR|||||F
 OBX|104|ST|739536^MDC_IDC_EPISODE_ID^MDC|16|V-1|||||F
 OBX|105|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|16|200101020304|||||F
 OBX|106|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|16|754888
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
 OBX|107|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|16|771074
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VT^MDC|||||F
 OBX|108|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|16|755329
 ^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_YES^MDC|||||F
 OBX|109|NM|739648^MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION
 ^MDC|16|30000|ms|||||F
 OBX|110|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|16|100|s|||||F
 OBX|111|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS
 ^MDC|16|Cmd V Therapy Delivered|||||F
 OBX|112|ED|18750-0^Cardiac Electrophysiology Report^LN|Application^PDF^
 ^Base64^{encoded PDF included here}|||||F|||201001151330-0500
 OBX|113|ED|18750-0^Cardiac Electrophysiology Report^LN|4|Application^PDF^
 ^Base64^{encoded PDF included here}|||||F|||201001151330-0500
 OBX|114|CWE|720897^MDC_IDC_DEV_TYPE^MDC||753665^MDC_IDC_ENUM_DEV_TYPE_IPG^MDC|||||F
 OBX|115|ST|720898^MDC_IDC_DEV_MODEL^MDC|N119|||||F
 OBX|116|ST|720899^MDC_IDC_DEV_SERIAL^MDC||900141|||||F
 OBX|117|CWE|720900^MDC_IDC_DEV_MFG^MDC||753732^MDC_IDC_ENUM_MFG_BSX^MDC|||||F
 OBX|118|DTM|720901^MDC_IDC_DEV_IMPLANT_DT^MDC||20120513|||||F
 OBX|119|ST|720961^MDC_IDC_LEAD_MODEL^MDC|1|12345|||||F
 OBX|120|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|1|6789|||||F
 OBX|121|CWE|720963^MDC_IDC_LEAD_MFG^MDC|1|753731^MDC_IDC_ENUM_MFG_BIO^MDC|||||F
 OBX|122|CWE|720965^MDC_IDC_LEAD_POLARITY_TYPE^MDC|1|753793
 ^MDC_IDC_ENUM_LEAD_POLARITY_TYPE_UNI^MDC|||||F
 OBX|123|DTM|720964^MDC_IDC_LEAD_IMPLANT_DT^MDC|1|201205|||||F
 OBX|124|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|1|753858
 ^MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER_LV^MDC|||||F
 OBX|125|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1
 ^MDC|1|753922^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex^MDC|||||F
 OBX|126|CWE|720968^MDC_IDC_LEAD_LOCATION_DETAIL_2^MDC|1|753925
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava^MDC|||||F
 OBX|127|ST|720961^MDC_IDC_LEAD_MODEL^MDC|2|12345|||||F
 OBX|128|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|2|6789|||||F
 OBX|129|CWE|720963^MDC_IDC_LEAD_MFG^MDC|2|753731^MDC_IDC_ENUM_MFG_BIO^MDC|||||F

OBX|130|CWE|720965^MDC_IDC_LEAD_POLARITY_TYPE^MDC|2|753793
 ^MDC_IDC_ENUM_LEAD_POLARITY_TYPE_UNI^MDC|||||F
 OBX|131|DTM|720964^MDC_IDC_LEAD_IMPLANT_DT^MDC|2|201205|||||F
 OBX|132|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|2|753858
 ^MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER_LV^MDC|||||F
 OBX|133|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1^MDC|2|753922
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex^MDC|||||F
 OBX|134|CWE|720968^MDC_IDC_LEAD_LOCATION_DETAIL_2^MDC|2|753925
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava^MDC|||||F
 OBX|135|ST|720961^MDC_IDC_LEAD_MODEL^MDC|3|12345|||||F
 OBX|136|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|3|6789|||||F
 OBX|137|CWE|720963^MDC_IDC_LEAD_MFG^MDC|3|753731^MDC_IDC_ENUM_MFG_BIO^MDC|||||F
 OBX|138|CWE|720965^MDC_IDC_LEAD_POLARITY_TYPE^MDC|3|753793
 ^MDC_IDC_ENUM_LEAD_POLARITY_TYPE_UNI^MDC|||||F
 OBX|139|DTM|720964^MDC_IDC_LEAD_IMPLANT_DT^MDC|3|201205|||||F
 OBX|140|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|3|753858
 ^MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER_LV^MDC|||||F
 OBX|141|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1^MDC|3|753922
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex^MDC|||||F
 OBX|142|CWE|720968^MDC_IDC_LEAD_LOCATION_DETAIL_2^MDC|3|753925
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava^MDC|||||F
 OBX|143|ST|720961^MDC_IDC_LEAD_MODEL^MDC|4|12345|||||F
 OBX|144|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|4|6789|||||F
 OBX|145|CWE|720963^MDC_IDC_LEAD_MFG^MDC|4|753731^MDC_IDC_ENUM_MFG_BIO^MDC|||||F
 OBX|146|CWE|720965^MDC_IDC_LEAD_POLARITY_TYPE^MDC|4|753793
 ^MDC_IDC_ENUM_LEAD_POLARITY_TYPE_UNI^MDC|||||F
 OBX|147|DTM|720964^MDC_IDC_LEAD_IMPLANT_DT^MDC|4|201205|||||F
 OBX|148|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|4|753858
 ^MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER_LV^MDC|||||F
 OBX|149|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1^MDC|4|753922
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex^MDC|||||F
 OBX|150|CWE|720968^MDC_IDC_LEAD_LOCATION_DETAIL_2^MDC|4|753925
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava^MDC|||||F
 OBX|151|ST|720961^MDC_IDC_LEAD_MODEL^MDC|5|12345|||||F
 OBX|152|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|5|6789|||||F
 OBX|153|CWE|720963^MDC_IDC_LEAD_MFG^MDC|5|753731^MDC_IDC_ENUM_MFG_BIO^MDC|||||F
 OBX|154|CWE|720965^MDC_IDC_LEAD_POLARITY_TYPE^MDC|5|753793
 ^MDC_IDC_ENUM_LEAD_POLARITY_TYPE_UNI^MDC|||||F
 OBX|155|DTM|720964^MDC_IDC_LEAD_IMPLANT_DT^MDC|5|201205|||||F
 OBX|156|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|5|753858
 ^MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER_LV^MDC|||||F
 OBX|157|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1^MDC|5|753922
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex^MDC|||||F
 OBX|158|CWE|720968^MDC_IDC_LEAD_LOCATION_DETAIL_2^MDC|5|753925
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava^MDC|||||F
 OBX|159|ST|720961^MDC_IDC_LEAD_MODEL^MDC|6|12345|||||F
 OBX|160|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|6|6789|||||F
 OBX|161|CWE|720963^MDC_IDC_LEAD_MFG^MDC|6|753731^MDC_IDC_ENUM_MFG_BIO^MDC|||||F
 OBX|162|CWE|720965^MDC_IDC_LEAD_POLARITY_TYPE^MDC|6|753793
 ^MDC_IDC_ENUM_LEAD_POLARITY_TYPE_UNI^MDC|||||F
 OBX|163|DTM|720964^MDC_IDC_LEAD_IMPLANT_DT^MDC|6|201205|||||F
 OBX|164|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|6|753858
 ^MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER_LV^MDC|||||F
 OBX|165|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1^MDC|6|753922
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex^MDC|||||F
 OBX|166|CWE|720968^MDC_IDC_LEAD_LOCATION_DETAIL_2^MDC|6|753925
 ^MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava^MDC|||||F
 OBX|167|DTM|721025^MDC_IDC_SESS_DTM^MDC||201001021310-0600|||||F
 OBX|168|CWE|721026^MDC_IDC_SESS_TYPE^MDC||754052
 ^MDC_IDC_ENUM_SESS_TYPE_RemoteDeviceInitiated^MDC|||||F
 OBX|169|ST|721033^MDC_IDC_SESS_CLINIC_NAME
 ^MDC||abcdefghijklmnopqrstuvwxyabcdefghijklmnopqrstuvwxy|||||F
 OBX|170|DTM|721216^MDC_IDC_MSMT_BATTERY_DTM^MDC||201205221755+0000|||||F
 OBX|171|CWE|721280^MDC_IDC_MSMT_BATTERY_STATUS^MDC||754113
 ^MDC_IDC_ENUM_BATTERY_STATUS_BOS^MDC|||||F

OBX|172|NM|721472^MDC_IDC_MSMT_BATTERY_REMAINING_LONGEVITY^MDC||132|mo||>|||F
 OBX|173|NM|721536^MDC_IDC_MSMT_BATTERY_REMAINING_PERCENTAGE^MDC||100|%|||F
 OBX|174|DTM|721664^MDC_IDC_MSMT_CAP_CHARGE_DTM^MDC||201205221755|||F
 OBX|175|NM|721728^MDC_IDC_MSMT_CAP_CHARGE_TIME^MDC||3.0|s|||F
 OBX|176|CWE|721856^MDC_IDC_MSMT_CAP_CHARGE_TYPE^MDC||754178
 ^MDC_IDC_ENUM_CHARGE_TYPE_Reformation^MDC|||F
 OBX|177|DTM|721921^MDC_IDC_MSMT_LEADCHNL_RA_DTM_START^MDC||20121211|||F
 OBX|178|DTM|721922^MDC_IDC_MSMT_LEADCHNL_RA_DTM_END^MDC||20121211|||F
 OBX|179|CWE|721984^MDC_IDC_MSMT_LEADCHNL_RA_LEAD_CHANNEL_STATUS^MDC||754241
 ^MDC_IDC_ENUM_CHANNEL_STATUS_CheckLead^MDC|||F
 OBX|180|NM|722051
 ^MDC_IDC_MSMT_LEADCHNL_RA_SENSING_INTR_AMPL_MEAN^MDC||mV|NAV|||F||20121211
 OBX|181|DTM|721925^MDC_IDC_MSMT_LEADCHNL_RV_DTM_START^MDC||19990102|||F
 OBX|182|DTM|721926^MDC_IDC_MSMT_LEADCHNL_RV_DTM_END^MDC||20121211|||F
 OBX|183|CWE|721985^MDC_IDC_MSMT_LEADCHNL_RV_LEAD_CHANNEL_STATUS^MDC||754241
 ^MDC_IDC_ENUM_CHANNEL_STATUS_CheckLead^MDC|||F
 OBX|184|NM|722055
 ^MDC_IDC_MSMT_LEADCHNL_RV_SENSING_INTR_AMPL_MEAN^MDC||0.1|mV|<||F||20121211
 OBX|185|DTM|721933^MDC_IDC_MSMT_LEADCHNL_LV_DTM_START^MDC||19990102|||F
 OBX|186|DTM|721934^MDC_IDC_MSMT_LEADCHNL_LV_DTM_END^MDC||20121211|||F
 OBX|187|CWE|721987^MDC_IDC_MSMT_LEADCHNL_LV_LEAD_CHANNEL_STATUS^MDC||754241
 ^MDC_IDC_ENUM_CHANNEL_STATUS_CheckLead^MDC|||F
 OBX|188|NM|722063^MDC_IDC_MSMT_LEADCHNL_LV_SENSING_INTR_AMPL_MEAN
 ^MDC||25.0|mV||>||F||20121211
 OBX|189|CWE|722112^MDC_IDC_MSMT_LEADCHNL_RA_SENSING_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||F
 OBX|190|CWE|722113^MDC_IDC_MSMT_LEADCHNL_RV_SENSING_POLARITY^MDC||754306
 ^MDC_IDC_ENUM_POLARITY_BI^MDC|||F
 OBX|191|CWE|722115^MDC_IDC_MSMT_LEADCHNL_LV_SENSING_POLARITY^MDC|||OFF||F
 OBX|192|NM|722176^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_AMPLITUDE
 ^MDC||V|NAV|||F||20121211
 OBX|193|NM|722177^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_AMPLITUDE
 ^MDC||3.0|V||>||F||20121211
 OBX|194|NM|722179^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_AMPLITUDE
 ^MDC||0.0|V|||F||20121210
 OBX|195|NM|722240^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_PULSEWIDTH
 ^MDC||ms|NAV|||F||19990102
 OBX|196|NM|722241^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_PULSEWIDTH
 ^MDC||0.4|ms|||F||19990102
 OBX|197|NM|722243^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_PULSEWIDTH
 ^MDC||0.4|ms|||F||19990102
 OBX|198|CWE|722304^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_MEASUREMENT_METHOD
 ^MDC||754369^MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual^MDC|||F
 OBX|199|CWE|722305^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_MEASUREMENT_METHOD
 ^MDC||754369^MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual^MDC|||F
 OBX|200|CWE|722307^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_MEASUREMENT_METHOD
 ^MDC||754369^MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual^MDC|||F
 OBX|201|CWE|722368^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||F
 OBX|202|CWE|722369^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_POLARITY^MDC||754306
 ^MDC_IDC_ENUM_POLARITY_BI^MDC|||F
 OBX|203|CWE|722371^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_POLARITY^MDC||754306
 ^MDC_IDC_ENUM_POLARITY_BI^MDC|||F
 OBX|204|NM|722432^MDC_IDC_MSMT_LEADCHNL_RA_IMPEDANCE_VALUE
 ^MDC||200|ohms||<||F||20121211
 OBX|205|NM|722433^MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_VALUE
 ^MDC||2000|ohms||>||F||20121211
 OBX|206|NM|722435^MDC_IDC_MSMT_LEADCHNL_LV_IMPEDANCE_VALUE
 ^MDC||201|ohms|||F||20121209
 OBX|207|CWE|722496^MDC_IDC_MSMT_LEADCHNL_RA_IMPEDANCE_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||F
 OBX|208|CWE|722497^MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||F
 OBX|209|CWE|722499^MDC_IDC_MSMT_LEADCHNL_LV_IMPEDANCE_POLARITY^MDC||754306
 ^MDC_IDC_ENUM_POLARITY_BI^MDC|||F

OBX|210|DTM|722560^MDC_IDC_MSMT_LEADHVCHNL_DTM_START^MDC|1|20121109|||||F
 OBX|211|NM|722624^MDC_IDC_MSMT_LEADHVCHNL_IMPEDANCE^MDC|1|ohms|NAV||||F
 OBX|212|CWE|722688^MDC_IDC_MSMT_LEADHVCHNL_MEASUREMENT_TYPE
 ^MDC|1|754433^MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE_LowVoltage^MDC|||||F
 OBX|213|CWE|722752^MDC_IDC_MSMT_LEADHVCHNL_STATUS^MDC|1|754241
 ^MDC_IDC_ENUM_CHANNEL_STATUS_CheckLead^MDC|||||F
 OBX|214|NM|729344^MDC_IDC_SET_CRT_LVRV_DELAY^MDC||-100|ms|||||F
 OBX|215|CWE|729408^MDC_IDC_SET_CRT_PACED_CHAMBERS^MDC||755265
 ^MDC_IDC_ENUM_CRT_PACED_CHAMBERS_RV_Only^MDC|||||F
 OBX|216|NM|729536^MDC_IDC_SET_LEADCHNL_RA_SENSING_SENSITIVITY^MDC||0.5|mV|||||F
 OBX|217|NM|729537^MDC_IDC_SET_LEADCHNL_RV_SENSING_SENSITIVITY^MDC||0.9|mV|||||F
 OBX|218|NM|729539^MDC_IDC_SET_LEADCHNL_LV_SENSING_SENSITIVITY^MDC||1.0|mV|||||F
 OBX|219|CWE|729600^MDC_IDC_SET_LEADCHNL_RA_SENSING_POLARITY^MDC|||OFF|||F
 OBX|220|CWE|729601^MDC_IDC_SET_LEADCHNL_RV_SENSING_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||||F
 OBX|221|CWE|729676^MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_LOCATION^MDC||754498
 ^MDC_IDC_ENUM_ELECTRODE_LOCATION_RV^MDC|||||F
 OBX|222|CWE|729740^MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_ELECTRODE^MDC|||OFF|||F
 OBX|223|CWE|729804^MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_LOCATION^MDC|||OFF|||F
 OBX|224|CWE|729868^MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_ELECTRODE
 ^MDC||754561^MDC_IDC_ENUM_ELECTRODE_NAME_Tip^MDC|||||F
 OBX|225|CWE|729920^MDC_IDC_SET_LEADCHNL_RA_SENSING_ADAPTATION_MODE^MDC||754625
 ^MDC_IDC_ENUM_SENSING_ADAPTATION_MODE_AdaptiveSensing^MDC|||||F
 OBX|226|CWE|729921^MDC_IDC_SET_LEADCHNL_RV_SENSING_ADAPTATION_MODE^MDC||754625
 ^MDC_IDC_ENUM_SENSING_ADAPTATION_MODE_AdaptiveSensing^MDC|||||F
 OBX|227|CWE|729923^MDC_IDC_SET_LEADCHNL_LV_SENSING_ADAPTATION_MODE^MDC||754626
 ^MDC_IDC_ENUM_SENSING_ADAPTATION_MODE_FixedSensing^MDC|||||F
 OBX|228|NM|729984^MDC_IDC_SET_LEADCHNL_RA_PACING_AMPLITUDE^MDC||5.1|V|||||F
 OBX|229|NM|729985^MDC_IDC_SET_LEADCHNL_RV_PACING_AMPLITUDE^MDC||5.0|V|||||F
 OBX|230|NM|729987^MDC_IDC_SET_LEADCHNL_LV_PACING_AMPLITUDE^MDC||2.8|V|||||F
 OBX|231|NM|730048^MDC_IDC_SET_LEADCHNL_RA_PACING_PULSEWIDTH^MDC||100.0|ms|||||F
 OBX|232|NM|730049^MDC_IDC_SET_LEADCHNL_RV_PACING_PULSEWIDTH^MDC||200.0|ms|||||F
 OBX|233|NM|730051^MDC_IDC_SET_LEADCHNL_LV_PACING_PULSEWIDTH^MDC||300.0|ms|||||F
 OBX|234|CWE|730112^MDC_IDC_SET_LEADCHNL_RA_PACING_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||||F
 OBX|235|CWE|730113^MDC_IDC_SET_LEADCHNL_RV_PACING_POLARITY^MDC||754305
 ^MDC_IDC_ENUM_POLARITY_UNI^MDC|||||F
 OBX|236|CWE|730188^MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_LOCATION^MDC||754498
 ^MDC_IDC_ENUM_ELECTRODE_LOCATION_RV^MDC|||||F
 OBX|237|CWE|730252^MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_ELECTRODE^MDC||754564
 ^MDC_IDC_ENUM_ELECTRODE_NAME_Ring2^MDC|||F
 OBX|238|CWE|730316^MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_LOCATION^MDC||754500
 ^MDC_IDC_ENUM_ELECTRODE_LOCATION_LV^MDC|||F
 OBX|239|CWE|730380^MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_ELECTRODE^MDC||754566
 ^MDC_IDC_ENUM_ELECTRODE_NAME_Ring4^MDC|||F
 OBX|240|CWE|730432^MDC_IDC_SET_LEADCHNL_RA_PACING_CAPTURE_MODE^MDC||754690
 ^MDC_IDC_ENUM_PACING_CAPTURE_MODE_FixedPacing^MDC|||F
 OBX|241|CWE|730433^MDC_IDC_SET_LEADCHNL_RV_PACING_CAPTURE_MODE^MDC||754691
 ^MDC_IDC_ENUM_PACING_CAPTURE_MODE_MonitorCapture^MDC|||||F
 OBX|242|CWE|730435^MDC_IDC_SET_LEADCHNL_LV_PACING_CAPTURE_MODE^MDC||754690
 ^MDC_IDC_ENUM_PACING_CAPTURE_MODE_FixedPacing^MDC|||||F
 OBX|243|CWE|730752^MDC_IDC_SET_BRADY_MODE^MDC||754760^MDC_IDC_ENUM_BRADY_MODE_DDD
 ^MDC|||||F
 OBX|244|NM|730880^MDC_IDC_SET_BRADY_LOWRATE^MDC||100|{beats}/min|||||F
 OBX|245|ST|731072^MDC_IDC_SET_BRADY_SENSOR_TYPE^MDC||Accelerometer + MV|||||F
 OBX|246|NM|731136^MDC_IDC_SET_BRADY_MAX_TRACKING_RATE^MDC||130|{beats}/min|||||F
 OBX|247|NM|731200^MDC_IDC_SET_BRADY_MAX_SENSOR_RATE^MDC||180|{beats}/min|||||F
 OBX|248|NM|731265^MDC_IDC_SET_BRADY_SAV_DELAY_HIGH^MDC||102|ms|||||F
 OBX|249|NM|731266^MDC_IDC_SET_BRADY_SAV_DELAY_LOW^MDC||101|ms|||||F
 OBX|250|NM|731329^MDC_IDC_SET_BRADY_PAV_DELAY_HIGH^MDC||104|ms|||||F
 OBX|251|NM|731330^MDC_IDC_SET_BRADY_PAV_DELAY_LOW^MDC||103|ms|||||F
 OBX|252|CWE|731392^MDC_IDC_SET_BRADY_AT_MODE_SWITCH_MODE^MDC||754763
 ^MDC_IDC_ENUM_BRADY_MODE_DDIR^MDC|||||F
 OBX|253|NM|731456^MDC_IDC_SET_BRADY_AT_MODE_SWITCH_RATE^MDC||130|{beats}/min|||||F

OBX|254|CWE|731520^MDC_IDC_SET_TACHYTHERAPY_VSTAT^MDC||754817
 ^MDC_IDC_ENUM_THERAPY_STATUS_On^MDC|||||F
 OBX|255|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|1|754945^MDC_IDC_ENUM_ZONE_TYPE_Zone_VF
 ^MDC|||||F
 OBX|256|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|1|771139
 ^MDC_IDC_ENUM_ZONE_VENDOR_TYPE_BSX-Zone_VF^MDC|||||F
 OBX|257|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|1|755009
 ^MDC_IDC_ENUM_ZONE_STATUS_Active^MDC|||||F
 OBX|258|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|1|462|ms|||||F
 OBX|259|CWE|732097^MDC_IDC_SET_ZONE_TYPE_ATP_1^MDC|1|755073
 ^MDC_IDC_ENUM_ATP_TYPE_Burst^MDC|||||F
 OBX|260|NM|732161^MDC_IDC_SET_ZONE_NUM_ATP_SEQS_1^MDC|1|1|||||F
 OBX|261|NM|732225^MDC_IDC_SET_ZONE_SHOCK_ENERGY_1^MDC|1|21.1|J|||||F
 OBX|262|NM|732289^MDC_IDC_SET_ZONE_NUM_SHOCKS_1^MDC|1|1|||||F
 OBX|263|NM|732226^MDC_IDC_SET_ZONE_SHOCK_ENERGY_2^MDC|1|31.1|J|||||F
 OBX|264|NM|732290^MDC_IDC_SET_ZONE_NUM_SHOCKS_2^MDC|1|1|||||F
 OBX|265|NM|732227^MDC_IDC_SET_ZONE_SHOCK_ENERGY_3^MDC|1|41.1|J|||||F
 OBX|266|NM|732291^MDC_IDC_SET_ZONE_NUM_SHOCKS_3^MDC|1|6|||||F
 OBX|267|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|2|754946^MDC_IDC_ENUM_ZONE_TYPE_Zone_VT
 ^MDC|||||F
 OBX|268|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|2|771137
 ^MDC_IDC_ENUM_ZONE_VENDOR_TYPE_BSX-Zone_VT^MDC|||||F
 OBX|269|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|2|755009
 ^MDC_IDC_ENUM_ZONE_STATUS_Active^MDC|||||F
 OBX|270|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|2|463|ms|||||F
 OBX|271|CWE|732097^MDC_IDC_SET_ZONE_TYPE_ATP_1^MDC|2|755073
 ^MDC_IDC_ENUM_ATP_TYPE_Burst^MDC|||||F
 OBX|272|NM|732161^MDC_IDC_SET_ZONE_NUM_ATP_SEQS_1^MDC|2|2|||||F
 OBX|273|CWE|732098^MDC_IDC_SET_ZONE_TYPE_ATP_2^MDC|2|755074
 ^MDC_IDC_ENUM_ATP_TYPE_Ramp^MDC|||||F
 OBX|274|NM|732162^MDC_IDC_SET_ZONE_NUM_ATP_SEQS_2^MDC|2|3|||||F
 OBX|275|NM|732225^MDC_IDC_SET_ZONE_SHOCK_ENERGY_1^MDC|2|22.2|J|||||F
 OBX|276|NM|732289^MDC_IDC_SET_ZONE_NUM_SHOCKS_1^MDC|2|1|||||F
 OBX|277|NM|732226^MDC_IDC_SET_ZONE_SHOCK_ENERGY_2^MDC|2|32.2|J|||||F
 OBX|278|NM|732290^MDC_IDC_SET_ZONE_NUM_SHOCKS_2^MDC|2|1|||||F
 OBX|279|NM|732227^MDC_IDC_SET_ZONE_SHOCK_ENERGY_3^MDC|2|42.2|J|||||F
 OBX|280|NM|732291^MDC_IDC_SET_ZONE_NUM_SHOCKS_3^MDC|2|3|||||F
 OBX|281|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|3|754946^MDC_IDC_ENUM_ZONE_TYPE_Zone_VT
 ^MDC|||||F
 OBX|282|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|3|771138
 ^MDC_IDC_ENUM_ZONE_VENDOR_TYPE_BSX-Zone_VT^MDC|||||F
 OBX|283|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|3|755009
 ^MDC_IDC_ENUM_ZONE_STATUS_Active^MDC|||||F
 OBX|284|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|3|465|ms|||||F
 OBX|285|CWE|732097^MDC_IDC_SET_ZONE_TYPE_ATP_1^MDC|3|755074
 ^MDC_IDC_ENUM_ATP_TYPE_Ramp^MDC|||||F
 OBX|286|NM|732161^MDC_IDC_SET_ZONE_NUM_ATP_SEQS_1^MDC|3|4|||||F
 OBX|287|CWE|732098^MDC_IDC_SET_ZONE_TYPE_ATP_2^MDC|3|755076
 ^MDC_IDC_ENUM_ATP_TYPE_RampScan^MDC|||||F
 OBX|288|NM|732162^MDC_IDC_SET_ZONE_NUM_ATP_SEQS_2^MDC|3|5|||||F
 OBX|289|NM|732225^MDC_IDC_SET_ZONE_SHOCK_ENERGY_1^MDC|3|23.2|J|||||F
 OBX|290|NM|732289^MDC_IDC_SET_ZONE_NUM_SHOCKS_1^MDC|3|1|||||F
 OBX|291|NM|732226^MDC_IDC_SET_ZONE_SHOCK_ENERGY_2^MDC|3|33.2|J|||||F
 OBX|292|NM|732290^MDC_IDC_SET_ZONE_NUM_SHOCKS_2^MDC|3|1|||||F
 OBX|293|NM|732227^MDC_IDC_SET_ZONE_SHOCK_ENERGY_3^MDC|3|43.2|J|||||F
 OBX|294|NM|732291^MDC_IDC_SET_ZONE_NUM_SHOCKS_3^MDC|3|2|||||F
 OBX|295|DTM|737489^MDC_IDC_STAT_DTM_START^MDC||20120522|||||F
 OBX|296|DTM|737490^MDC_IDC_STAT_DTM_END^MDC||20120522|||||F
 OBX|297|DTM|737505^MDC_IDC_STAT_BRADY_DTM_START^MDC||20120522|||||F
 OBX|298|DTM|737506^MDC_IDC_STAT_BRADY_DTM_END^MDC||20120522|||||F
 OBX|299|NM|737520^MDC_IDC_STAT_BRADY_RA_PERCENT_PACED^MDC||0%|||||F
 OBX|300|NM|737536^MDC_IDC_STAT_BRADY_RV_PERCENT_PACED^MDC||0%|||||F
 OBX|301|DTM|737777^MDC_IDC_STAT_CRT_DTM_START^MDC||20120522|||||F
 OBX|302|DTM|737778^MDC_IDC_STAT_CRT_DTM_END^MDC||20120522|||||F
 OBX|303|NM|737792^MDC_IDC_STAT_CRT_LV_PERCENT_PACED^MDC||0%|||||F

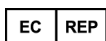
OBX|304|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|1|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F
 OBX|305|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|1|771077
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_NSVT^MDC|||||F
 OBX|306|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|1|0|||||F
 OBX|307|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|1|20120522|||||F
 OBX|308|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|1|20120522|||||F
 OBX|309|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|1|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F
 OBX|310|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|1|||||F
 OBX|311|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|1|0|||||F
 OBX|312|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|1|20120522|||||F
 OBX|313|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|1|20120522|||||F
 OBX|314|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|2|754884
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_SVT^MDC|||||F
 OBX|315|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|2|771076
 MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_SVT^MDC|||||F
 OBX|316|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|2|0|||||F
 OBX|317|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|2|20120522|||||F
 OBX|318|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|2|20120522|||||F
 OBX|319|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|4|754883
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_ATAF^MDC|||||F
 OBX|320|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|4|771078
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_ATR^MDC|||||F
 OBX|321|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|4|0|||||F
 OBX|322|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|4|20120522|||||F
 OBX|323|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|4|20120522|||||F
 OBX|324|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|5|754888
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
 OBX|325|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|5|||||F
 OBX|326|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|5|0|||||F
 OBX|327|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|5|20120522|||||F
 OBX|328|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|5|20120522|||||F
 OBX|329|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|6|754881
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VF^MDC|||||F
 OBX|330|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|6|771073
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VF^MDC|||||F
 OBX|331|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|6|1|||||F
 OBX|332|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|6|20120522|||||F
 OBX|333|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|6|20120522|||||F
 OBX|334|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|7|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F
 OBX|335|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|7|771074
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VT^MDC|||||F
 OBX|336|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|7|2|||||F
 OBX|337|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|7|20120522|||||F
 OBX|338|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|7|20120522|||||F
 OBX|339|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|8|754882
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT^MDC|||||F
 OBX|340|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|8|771075
 ^MDC_IDC_ENUM_EPISODE_VENDOR_TYPE_BSX-Epis_VT-1^MDC|||||F
 OBX|341|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|8|3|||||F
 OBX|342|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|8|20120522|||||F
 OBX|343|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|8|20120522|||||F
 OBX|344|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|9|754884
 ^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Monitor^MDC|||||F
 OBX|345|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|9|||||F
 OBX|346|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|9|4|||||F
 OBX|347|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|9|20120522|||||F
 OBX|348|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|9|20120522|||||F

Outdated version. Do not use.
Version überholt. Nicht verwenden.
Version obsolète. Ne pas utiliser.
Versión obsoleta. No utilizar.
Versione obsoleta. Non utilizzare.
Verouderde versie. Niet gebruiken.
Föråldrad version. Använd ej.
Παλιά έκδοση. Μην την χρησιμοποιείτε.
Versão obsoleta. Não utilize.
Forældet version. Må ikke anvendes.
Zastaralá verze. Nepoužívat.
Utdatert versjon. Skal ikke brukes.
Zastaraná verzia. Nepoužívať.
Elavult verzió. Ne használja!
Wersja nieaktualna. Nie używać.

Boston Scientific



Boston Scientific
4100 Hamline Avenue North
St. Paul, MN 55112-5798 USA



Guidant Europe NV/SA; Boston Scientific
Green Square, Lambroekstraat 5D
1831 Diegem, Belgium

1.800.CARDIAC (227.3422)
+1.651.582.4000

www.bostonscientific.com

© 2014 Boston Scientific Corporation or its affiliates.
All rights reserved.

359273-011 EN Europe 2014-05

C E0086

