

LATITUDE Link™
IDCO SPECIFICATION

LATITUDE Link™ System

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Overview

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

This document is intended for Boston Scientific (BSC) customers who (1) integrate IDCO messages into an EMR and (2) use an EMR to track and manage patient data. The first section of this document (“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

IDCO Message Specification

The IDCO message is a PCD-09 message per IHE PCD Technical Framework Revision 3.0, October 11, 2013. 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 ISO/IEEE 11073-10103:2014 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 hard-coded 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 Link” |
| Sending facility | 4 | | “BOSTON SCIENTIFIC” |
| Receiving facility | 6 | | 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" |

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 | 754050 |
| Text | | 2 | See note 1 |
| Observation date/time # | 7 | | 20060429080005 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_InClinic).
2. Observation date/time will be the timestamp for when the implanted device interrogation occurred. The timestamp from an in-clinic interrogation will be from the time that is provided by the PRM.
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 | | 20060317 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.
- Numeric values will always be sent using the dot "." as the radix point (i.e., decimal point).

NTE Segment Structure

- S-ICD Devices
 - The first NTE will contain settings information in a *label: value* format with each setting separated by a line break (\.br\). Example:
NTE|1||Sensing Configuration: Primary\.br\Gain Setting: 2X\.br\
Post Shock Pacing: ON
 - If there is device status information, all device status will be in the second NTE. Example:
NTE|2||Device requires immediate attention.\.br\\\br\
Contact Boston Scientific - BD.\.br\\\br\
Americas: 1.800.CARDIAC (227.3422) or
+1.651.582.4000\.br\
Europe, Middle East, Africa: +32 2 416 7222\.br\
Asia Pacific: +61 2 8063 8299
- All Other Devices
 - If there is device status information, there will be one NTE for each device status.

Device Report

- A single PDF containing one or more device reports may be included in the message in a single OBX.

Base Terms

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

| | |
|--------------------------------|------------------------------------|
| PREPEND MDC_IDC_DEV | Implantable Cardiac Device |
| _TYPE | Type |
| _MODEL | Model |
| _SERIAL | Serial Number |
| _MFG | Manufacturer |
| _IMPLANT_DT | Implant Date |
| PREPEND MDC_IDC_LEAD | Implantable Lead Attributes |
| _MODEL | Model |
| _SERIAL | Serial Number |
| _MFG | Manufacturer |
| _IMPLANT_DT | Implant Date |
| _POLARITY_TYPE | Polarity Type |
| _LOCATION | Location |
| _LOCATION_DETAIL_1 | Location Detail 1 |
| PREPEND MDC_IDC_SESS | Interrogation Session |
| _DTM | Date Time Interrogation Session |
| _TYPE | Type Interrogation Session |
| _CLINIC_NAME | Clinic Name |
| _CLINICIAN_CONTACT_INFORMATION | Clinician Contact Information |
| PREPEND MDC_IDC_MSMT | Measurements |
| _BATTERY | Battery Measurements |
| _DTM | Date Time of Measurements |
| _BATTERY_STATUS | Status |
| _BATTERY_REMAINING_LONGEVITY | Remaining Longevity |
| _BATTERY_REMAINING_PERCENTAGE | Remaining Percentage |
| _CAP | Measurements |
| _CHARGE_DTM | Last Charge Date Time |
| _CHARGE_TIME | Charge Time |
| _CHARGE_TYPE | Charge Type |
| _CHARGE_ENERGY | Charge Energy |
| _LEADCHNL_[CHAMBER] | Lead Channel Measurements |
| _DTM_[STRTEND] | Measurements Date and Time |
| _LEAD_CHANNEL_STATUS | Status |

| | |
|---|---|
| PREPEND MDC_IDC_MSMT | Measurements |
| _LEADCHNL_[CHAMBER]_SENSING | Lead Channel Sensing Measurements |
| _INTR_AMPL_[MMM] | Sensing Intrinsic Amplitude |
| _POLARITY | Sensing Polarity |
| _LEADCHNL_[CHAMBER]_PACING_THRESHOLD | Lead Channel Pacing Threshold Measurements |
| _AMPLITUDE | Amplitude |
| _PULSEWIDTH | Pulse Width |
| _MEASUREMENT_METHOD | Measurement Method |
| _POLARITY | Polarity |
| _LEADCHNL_[CHAMBER]_IMPEDANCE | Lead Channel Impedance Measurements |
| _VALUE | Value |
| _POLARITY | Polarity |
| _LEADHVCHNL | Lead High Voltage Channel Measurements |
| _DTM_[STRT] | Date Time |
| _IMPEDANCE | Impedance |
| _MEASUREMENT_TYPE | Measurement Type |
| _STATUS | Status |
| PREPEND MDC_IDC_SET | Settings |
| _CRT | CRT Settings |
| _LVRV_DELAY | LV-RV Delay |
| _PACED_CHAMBERS | Ventricular chambers paced during CRT pacing |
| _LEADCHNL_[CHAMBER]_SENSING | Lead Channel Settings |
| _SENSITIVITY | Sensitivity |
| _POLARITY | Polarity |
| _ANODE_LOCATION_[1..3] | Anode Location |
| _ANODE_ELECTRODE_[1..3] | Anode Terminal |
| _CATHODE_LOCATION_[1..3] | Cathode Location |
| _CATHODE_ELECTRODE_[1..3] | Cathode Terminal |
| _ADAPTATION_MODE | Adaptation Mode |
| _LEADCHNL_[CHAMBER]_PACING | Lead Channel Settings Pacing |
| _AMPLITUDE | Amplitude |
| _PULSEWIDTH | Pulse Width |
| _PACING_POLARITY | Polarity |
| _ANODE_LOCATION_[1..3] | Anode Location |
| _ANODE_ELECTRODE_[1..3] | Anode Terminal |

| | |
|-----------------------------------|-------------------------------------|
| _LEADCHNL_[CHAMBER]_PACING | Lead Channel Settings Pacing |
| _CATHODE_LOCATION_[1..3] | Cathode Location |
| _CATHODE_ELECTRODE_[1..3] | Cathode Terminal |
| _CAPTURE_MODE | Capture Mode |
| _BRADY | Brady Settings |
| _MODE | Mode (NBG Code) |
| _LOWRATE | Lower Rate Limit |
| _SENSOR_TYPE | Sensor Type |
| _MAX_TRACKING_RATE | Maximum Tracking Rate |
| _MAX_SENSOR_RATE | Maximum Sensor Rate |
| _SAV_DELAY_[HIGHLOW] | SAV Delay |
| _PAV_DELAY_[HIGHLOW] | PAV Delay |
| _AT_MODE_SWITCH_MODE | AT Mode Switch Mode |
| _AT_MODE_SWITCH_RATE | AT Mode Switch Rate |
| _TACHYTHERAPY | Tachy Therapy Settings |
| _VSTAT | Ventricular Status |
| _ZONE | Zone Settings |
| _TYPE | Type Category |
| _VENDOR_TYPE | Vendor Type Category |
| _STATUS | Status |
| _DETECTION_INTERVAL | Detection Interval |
| _DETECTION_DETAILS | Detection Details |
| _TYPE_ATP_[1..10] | ATP Type |
| _NUM_ATP_SEQS_[1..10] | Number of ATP Sequences |
| _SHOCK_ENERGY_[1..10] | Shock Energy |
| _NUM_SHOCKS_[1..10] | Number of Shocks |
| PREPEND MDC_IDC_STAT | Statistics |
| _DTM_[STRTEEND] | Statistic Date Time |
| _AT | Atrial Tachy Statistic |
| _DTM_[STRTEEND] | Date Time |
| _BURDEN_PERCENT | AT/AF Burden Percent |
| _BRADY | Brady Statistics |
| _DTM_[STRTEEND] | Date Time |
| _RA_PERCENT_PACED | RA Percent Paced |
| _BRADY_RV_PERCENT_PACED | RV Percent Paced |
| _CRT | CRT Statistics |

| | |
|------------------------------------|---------------------------------|
| _DTM_[STRTEAD] | Date Time |
| _LV_PERCENT_PACED | LV Percent Paced |
| PREPEND MDC_IDC_STAT | Statistics |
| _TACHYTHERAPY | Tachy Therapy Statistics |
| _SHOCKS_DELIVERED_RECENT | Recent Shocks Delivered |
| _RECENT_DTM_[STRTEAD] | Recent Date Time |
| _SHOCKS_DELIVERED_TOTAL | Total Shocks Delivered |
| _TOTAL_DTM_[STRTEAD] | Total Date Time |
| _SHOCKS_ABORTED_RECENT | Recent Shocks Aborted |
| _SHOCKS_ABORTED_TOTAL | Total Shocks Aborted |
| _ATP_DELIVERED_RECENT | Recent ATP Delivered |
| _ATP_DELIVERED_TOTAL | Total ATP Delivered |
| _EPISODE | Episode Statistics |
| _TYPE | Type Category |
| _TYPE_INDUCED | Type Induced |
| _VENDOR_TYPE | Vendor Type Category |
| _RECENT_COUNT | Recent Count |
| _RECENT_COUNT_DTM_[STRTEAD] | Recent Date Time |
| _TOTAL_COUNT | Total Count |
| _TOTAL_COUNT_DTM_[STRTEAD] | Total Date Time |
| PREPEND MDC_IDC_EPISODE | Episode |
| _ID | Identifier |
| _DTM | Date Time |
| _TYPE | Type Category |
| _TYPE_INDUCED | Type Induced Flag |
| _VENDOR_TYPE | Vendor Type Category |
| _ATRIAL_INTERVAL_AT_DETECTION | Detection Interval Atrial |
| _VENTRICULAR_INTERVAL_AT_DETECTION | Detection Interval Ventricular |
| _DETECTION_THERAPY_DETAILS | Detection And Therapy Details |
| _DURATION | 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 (S-ICD Devices) | BSC BATTERY STATUS (All Other Devices) | IDCO BATTERY STATUS |
|------------------------------------|--|---------------------|
| >10% remaining to ERI | BOL | BOS |
| <= 10% remaining to ERI | OY | MOS |
| ERI | ERI | RRT |
| EOL | EOL | EOS |

Brady Sensor Type

The brady 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. 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 |
|------------------|------------------|-----------------------------|-----------------------------------|
| <episode number> | Treated | VF | BSX-Zone_VF |
| <episode number> | Untreated | Other | See Note 1 |

Note 1: The vendor-specific episode type OBX will be in the message with a blank observation value.

Episode Counter Mapping

Episode counters are represented by a combination of normative and vendor-specific types. Some Boston Scientific counters cannot be uniquely represented in the current IDCO nomenclature. The counter values sent will include those since last follow-up and since implant.

| BSC EPISODE COUNTER | IDCO STATISTIC NORMATIVE EPISODE TYPE | IDCO STATISTIC VENDOR SPECIFIC EPISODE TYPE |
|-----------------------|---------------------------------------|---|
| Treated | VF | BSX-Epis_VF |
| Untreated | Other | See Note 1 |
| 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 |
| No Therapy Programmed | Monitor | None |
| Other Untreated | Other | None |

Note 1: The vendor-specific counter stat OBX will be in the message with a blank observation value.

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:

- S-ICD Devices
 - High electrode impedance
- All Other Devices
 - Lead safety switch
 - Impedance out of range
 - Amplitude out of range
 - Low shock impedance
 - High Shock Impedance
 - High voltage during charge
 - Auto threshold in suspension or threshold greater than programmed

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

- IDCO nomenclature does not define all available data in the implantable device. Some undefined data may be sent using the closest representation available in IDCO. For example:
 - VT-zone information is sent for brady devices as though they had a VT zone.
 - For S-ICD devices, shock zone is sent as VF zone and conditional shock zone is sent as VT zone.
 - Lead measurements included with the message will include measurements according to the following priority:
 1. In-office measurement
 2. Most recent daily measurement
 3. POST measurement
- Proper reporting of implanted device data and device status notifications depends on the implanted device clock being programmed accurately with a Programmer. 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.

Device Status Information

Device status information from the PG is included in the message as notes that may or may not be displayed in an EMR.

Reports

Device Report

A single PDF containing one or more device reports may be included in the message based on the configuration within the LATITUDE Link application.

Example IDCO Files

The following IDCO file examples show what a Boston Scientific IDCO message might look like. These are only two examples of many possible outcomes. Data within the example messages is hypothetical, and not all IDCO terms are represented.

Example Message 1—S-ICD device

```
MSH|^~\&|LATITUDE Link|BOSTON SCIENTIFIC||Clinic
Name|201407151441+0000||ORU^R01^ORU_R01|26000320140715144112|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:1010/serial:474^^^BSX^U||Smith^John||U
PV1|1|R
OBR|1||G21234|754050^MDC_IDC_ENUM_SESS_TYPE_InClinic^MDC|||201311260000-
0600|||||||||||||||||F
NTE|1||Sensing Configuration: Secondary\.br\Gain Setting: 2X\.br\Post Shock Pacing: OFF
NTE|2||Device requires immediate attention.\.br\\.br>Contact Boston Scientific -
BD.\.br\\.br\Americas: 1.800.CARDIAC (227.3422) or +1.651.582.4000\.br\Europe, Middle
East, Africa: +32 2 416 7222\.br\Asia Pacific: +61 2 8063 8299
OBX|1|DTM|721025^MDC_IDC_SESS_DTM^MDC||201311260000-0600|||||F
OBX|2|CWE|721026^MDC_IDC_SESS_TYPE^MDC||754050^MDC_IDC_ENUM_SESS_TYPE_InClinic^MDC|||
||F
OBX|3|ST|721031^MDC_IDC_SESS_CLINICIAN_NAME^MDC||Dr. No|||||F
OBX|4|ST|721032^MDC_IDC_SESS_CLINICIAN_CONTACT_INFORMATION^MDC||1-800-CARDIAC|||||F
OBX|5|DTM|721216^MDC_IDC_MSMT_BATTERY_DTM^MDC||201311260000-0600|||||F
OBX|6|CWE|721280^MDC_IDC_MSMT_BATTERY_STATUS^MDC||754113^MDC_IDC_ENUM_BATTERY_STATUS_B
OS^MDC|||||F
OBX|7|NM|721536^MDC_IDC_MSMT_BATTERY_REMAINING_PERCENTAGE^MDC||48|%|||||F
OBX|8|ST|739536^MDC_IDC_EPISODE_ID^MDC|1|0|||||F
OBX|9|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|1|20131026082822|||||F
OBX|10|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|1|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Oth
er^MDC|1|0|||||F
OBX|11|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|1|||||F
OBX|12|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|1|755330^MDC_IDC_ENUM_EPISODE_TYPE_
INDUCED_NO^MDC|1|||||F
OBX|13|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|1|168430090|s|||||F
OBX|14|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|1|UNTREATED
EPISODE|||||F
OBX|15|ST|739536^MDC_IDC_EPISODE_ID^MDC|2|1|||||F
OBX|16|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|2|20131026082822|||||F
OBX|17|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|2|754881^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VF^
MDC|||||F
OBX|18|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|2|771073^MDC_IDC_ENUM_EPISODE_VENDOR
_TYPE_BSX-Epis_VF^MDC|1|||||F
OBX|19|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|2|755330^MDC_IDC_ENUM_EPISODE_TYPE_
INDUCED_NO^MDC|1|||||F
OBX|20|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|2|168430090|s|||||F
OBX|21|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|2|TREATED EPISODE:
SHOCK IMPEDANCE= Out of Range FINAL SHOCK POLARITY= STD|||||F
OBX|22|ST|739536^MDC_IDC_EPISODE_ID^MDC|3|2|||||F
OBX|23|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|3|20131026082822|||||F
OBX|24|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|3|754881^MDC_IDC_ENUM_EPISODE_TYPE_Epis_VF^
MDC|||||F
OBX|25|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|3|771073^MDC_IDC_ENUM_EPISODE_VENDOR
_TYPE_BSX-Epis_VF^MDC|1|||||F
OBX|26|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|3|755330^MDC_IDC_ENUM_EPISODE_TYPE_
INDUCED_NO^MDC|1|||||F
OBX|27|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|3|168430090|s|||||F
OBX|28|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|3|TREATED EPISODE:
SHOCK IMPEDANCE= 138 Ohms FINAL SHOCK POLARITY= REV|||||F
OBX|29|ST|739536^MDC_IDC_EPISODE_ID^MDC|4|3|||||F
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OBX|30|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|4|20131026082822|||||F
OBX|31|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|4|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|32|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|4|||||F
OBX|33|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|4|755330^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO^MDC|||||F
OBX|34|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|4|168430090|s|||||F
OBX|35|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|4|UNTREATED EPISODE|||||F
OBX|36|ST|739536^MDC_IDC_EPISODE_ID^MDC|5|4|||||F
OBX|37|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|5|20131026082822|||||F
OBX|38|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|5|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|39|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|5|||||F
OBX|40|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|5|755330^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO^MDC|||||F
OBX|41|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|5|168430090|s|||||F
OBX|42|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|5|UNTREATED EPISODE|||||F
OBX|43|ST|739536^MDC_IDC_EPISODE_ID^MDC|6|5|||||F
OBX|44|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|6|20131026082822|||||F
OBX|45|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|6|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|46|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|6|||||F
OBX|47|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|6|755330^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO^MDC|||||F
OBX|48|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|6|168430090|s|||||F
OBX|49|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|6|UNTREATED EPISODE|||||F
OBX|50|ST|739536^MDC_IDC_EPISODE_ID^MDC|7|6|||||F
OBX|51|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|7|20131026082822|||||F
OBX|52|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|7|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|53|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|7|||||F
OBX|54|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|7|755330^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO^MDC|||||F
OBX|55|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|7|168430090|s|||||F
OBX|56|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|7|UNTREATED EPISODE|||||F
OBX|57|ST|739536^MDC_IDC_EPISODE_ID^MDC|8|7|||||F
OBX|58|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|8|20131026082822|||||F
OBX|59|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|8|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|60|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|8|||||F
OBX|61|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|8|755330^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO^MDC|||||F
OBX|62|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|8|168430090|s|||||F
OBX|63|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|8|UNTREATED EPISODE|||||F
OBX|64|ST|739536^MDC_IDC_EPISODE_ID^MDC|9|8|||||F
OBX|65|DTM|739552^MDC_IDC_EPISODE_DTM^MDC|9|20131026082822|||||F
OBX|66|CWE|739568^MDC_IDC_EPISODE_TYPE^MDC|9|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|67|CWE|739600^MDC_IDC_EPISODE_VENDOR_TYPE^MDC|9|||||F
OBX|68|CWE|739584^MDC_IDC_EPISODE_TYPE_INDUCED^MDC|9|755330^MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO^MDC|||||F
OBX|69|NM|739712^MDC_IDC_EPISODE_DURATION^MDC|9|168430090|s|||||F
OBX|70|ST|739680^MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS^MDC|9|UNTREATED EPISODE|||||F
OBX|71|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|1|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other^MDC|||||F
OBX|72|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|1|||||F

OBX|73|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|1|2|||||F
 OBX|74|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|1|20131125|||||F
 OBX|75|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|1|20131126|||||F
 OBX|76|NM|738032^MDC_IDC_STAT_EPISODE_TOTAL_COUNT^MDC|1|8|||||F
 OBX|77|DTM|738049^MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM_START^MDC|1|20131119|||||F
 OBX|78|DTM|738050^MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM_END^MDC|1|20131126|||||F
 OBX|79|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|2|754881^MDC_IDC_ENUM_EPISODE_TYPE_Epi
 s_VF^MDC|||||F
 OBX|80|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|2|771073^MDC_IDC_ENUM_EPISODE_V
 ENDOR_TYPE_BSX-Epis_VF^MDC|||||F
 OBX|81|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|2|1|||||F
 OBX|82|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|2|20131125|||||F
 OBX|83|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|2|20131126|||||F
 OBX|84|NM|738032^MDC_IDC_STAT_EPISODE_TOTAL_COUNT^MDC|2|5|||||F
 OBX|85|DTM|738049^MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM_START^MDC|2|20131119|||||F
 OBX|86|DTM|738050^MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM_END^MDC|2|20131126|||||F
 OBX|87|CWE|731520^MDC_IDC_SET_TACHYTHERAPY_VSTAT^MDC||754817^MDC_IDC_ENUM_THERAPY_STAT
 US_On^MDC|||||F
 OBX|88|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|1|754945^MDC_IDC_ENUM_ZONE_TYPE_Zone_VF^MD
 C|||||F
 OBX|89|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|1|771139^MDC_IDC_ENUM_ZONE_VENDOR_T
 YPE_BSX-Zone_VF^MDC|||||F
 OBX|90|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|1|755009^MDC_IDC_ENUM_ZONE_STATUS_Active
 ^MDC|||||F
 OBX|91|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|1|250|ms|||4F
 OBX|92|NM|732225^MDC_IDC_SET_ZONE_SHOCK_ENERGY_1^MDC|1|80|J||||F
 OBX|93|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|2|754946^MDC_IDC_ENUM_ZONE_TYPE_Zone_VT^MD
 C|||||F
 OBX|94|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|2|771137^MDC_IDC_ENUM_ZONE_VENDOR_T
 YPE_BSX-Zone_VT^MDC|||||F
 OBX|95|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|2|755009^MDC_IDC_ENUM_ZONE_STATUS_Active
 ^MDC|||||F
 OBX|96|ST|732032^MDC_IDC_SET_ZONE_DETECTION_DETAILS^MDC|2|SMART Charge has been
 extended by: 0.27 seconds|||||F
 OBX|97|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|2|260|ms|||4F
 OBX|98|NM|732225^MDC_IDC_SET_ZONE_SHOCK_ENERGY_1^MDC|2|80|J||||F
 OBX|99|CWE|720897^MDC_IDC_DEV_TYPE^MDC||753666^MDC_IDC_ENUM_DEV_TYPE_ICD^MDC|||||F
 OBX|100|ST|720898^MDC_IDC_DEV_MODEL^MDC||1010|||||F
 OBX|101|ST|720899^MDC_IDC_DEV_SERIAL^MDC||474|||||F
 OBX|102|CWE|720900^MDC_IDC_DEV_MFG^MDC||753732^MDC_IDC_ENUM_MFG_BSX^MDC|||||F
 OBX|103|DTM|720901^MDC_IDC_DEV_IMPLANT_DT^MDC||20131119|||||F
 OBX|104|ST|720961^MDC_IDC_LEAD_MODEL^MDC|1|3030|||||F
 OBX|105|ST|720962^MDC_IDC_LEAD_SERIAL^MDC|1|g032353|||||F
 OBX|106|CWE|720963^MDC_IDC_LEAD_MFG^MDC|1|753732^MDC_IDC_ENUM_MFG_BSX^MDC|||||F
 OBX|107|CWE|720966^MDC_IDC_LEAD_LOCATION^MDC|1|753861^MDC_IDC_ENUM_LEAD_LOCATION_CHAMB
 ER_OTHER^MDC|||||F
 OBX|108|CWE|720967^MDC_IDC_LEAD_LOCATION_DETAIL_1^MDC|1|753944^MDC_IDC_ENUM_LEAD_LOCAT
 ION_DETAIL_Subcutaneous^MDC|||||F
 OBX|109|NM|737824^MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_DELIVERED_RECENT^MDC||2|||||F
 OBX|110|DTM|737937^MDC_IDC_STAT_TACHYTHERAPY_RECENT_DTM_START^MDC||20131125|||||F
 OBX|111|DTM|737938^MDC_IDC_STAT_TACHYTHERAPY_RECENT_DTM_END^MDC||20131126|||||F
 OBX|112|NM|737840^MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_DELIVERED_TOTAL^MDC||9|||||F
 OBX|113|DTM|737921^MDC_IDC_STAT_TACHYTHERAPY_TOTAL_DTM_START^MDC||20131119|||||F
 OBX|114|DTM|737922^MDC_IDC_STAT_TACHYTHERAPY_TOTAL_DTM_END^MDC||20131126|||||F
 OBX|115|ED|18750-0^Cardiac Electrophysiology
 Report^LN||Application^PDF^^Base64^{encoded PDF included here}|||||F||201311260000-
 0600

Example Message 2—Other devices (not S-ICD)



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MSH|^~\&|LATITUDE Link|BOSTON SCIENTIFIC||The
Clinic|201407151523+0000||ORU^R01^ORU_R01|55963320140715152344|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:N118/serial:559633^^^BSX^U||TEST^SAMPLE||19530514|U
PV1||R
OBR|1||255|754050^MDC_IDC_ENUM_SESS_TYPE_InClinic^MDC||201407150941|||||||||||||
F
NTE|1||Jul 15, 2014 09:41 - Ventricular Tachy mode set to value other than
Monitor+Therapy
OBX|1|DTM|721025^MDC_IDC_SESS_DTM^MDC||201407150941|||||F
OBX|2|CWE|721026^MDC_IDC_SESS_TYPE^MDC||754050^MDC_IDC_ENUM_SESS_TYPE_InClinic^MDC|||
||F
OBX|3|ST|721033^MDC_IDC_SESS_CLINIC_NAME^MDC||The Clinic|||||F
OBX|4|DTM|721216^MDC_IDC_MSMT_BATTERY_DTM^MDC||201407150941|||||F
OBX|5|CWE|721280^MDC_IDC_MSMT_BATTERY_STATUS^MDC||754113^MDC_IDC_ENUM_BATTERY_STATUS_B
OS^MDC|||||F
OBX|6|NM|721472^MDC_IDC_MSMT_BATTERY_REMAINING_LONGEVITY^MDC||54|mo|||||F
OBX|7|NM|721536^MDC_IDC_MSMT_BATTERY_REMAINING_PERCENTAGE^MDC||100|%|||||F
OBX|8|DTM|721664^MDC_IDC_MSMT_CAP_CHARGE_DTM^MDC||201406301735|||||F
OBX|9|NM|721728^MDC_IDC_MSMT_CAP_CHARGE_TIME^MDC||9.4|s|||||F
OBX|10|CWE|721856^MDC_IDC_MSMT_CAP_CHARGE_TYPE^MDC||754178^MDC_IDC_ENUM_CHARGE_TYPE_Re
formation^MDC|||||F
OBX|11|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|1|754881^MDC_IDC_ENUM_EPISODE_TYPE_Epi
s_VF^MDC|||||F
OBX|12|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|1|771073^MDC_IDC_ENUM_EPISODE_V
ENDOR_TYPE_BSX-Epis_VF^MDC|||||F
OBX|13|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|1|2|||||F
OBX|14|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|1|20140603|||||F
OBX|15|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|1|20140715|||||F
OBX|16|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|2|754882^MDC_IDC_ENUM_EPISODE_TYPE_Epi
s_VT^MDC|||||F
OBX|17|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|2|771074^MDC_IDC_ENUM_EPISODE_V
ENDOR_TYPE_BSX-Epis_VT^MDC|||||F
OBX|18|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|2|0|||||F
OBX|19|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|2|20140603|||||F
OBX|20|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|2|20140715|||||F
OBX|21|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|3|754882^MDC_IDC_ENUM_EPISODE_TYPE_Epi
s_VT^MDC|||||F
OBX|22|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|3|771075^MDC_IDC_ENUM_EPISODE_V
ENDOR_TYPE_BSX-Epis_VT-1^MDC|||||F
OBX|23|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|3|2|||||F
OBX|24|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|3|20140603|||||F
OBX|25|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|3|20140715|||||F
OBX|26|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|4|754884^MDC_IDC_ENUM_EPISODE_TYPE_Epi
s_Monitor^MDC|||||F
OBX|27|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|4|||||F
OBX|28|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|4|0|||||F
OBX|29|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|4|20140603|||||F
OBX|30|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|4|20140715|||||F
OBX|31|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|5|754888^MDC_IDC_ENUM_EPISODE_TYPE_Epi
s_Other^MDC|||||F
OBX|32|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|5|||||F
OBX|33|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|5|0|||||F
OBX|34|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|5|20140603|||||F
OBX|35|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|5|20140715|||||F
OBX|36|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|6|754882^MDC_IDC_ENUM_EPISODE_TYPE_Epi
s_VT^MDC|||||F
OBX|37|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|6|771077^MDC_IDC_ENUM_EPISODE_V
ENDOR_TYPE_BSX-Epis_NSVT^MDC|||||F
OBX|38|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|6|0|||||F
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OBX|39|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|6|20140603|||||F
 OBX|40|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|6|20140715|||||F
 OBX|41|CWE|737952^MDC_IDC_STAT_EPISODE_TYPE^MDC|7|754883^MDC_IDC_ENUM_EPISODE_TYPE_Epi
 s_ATAF^MDC|||||F
 OBX|42|CWE|737984^MDC_IDC_STAT_EPISODE_VENDOR_TYPE^MDC|7|771078^MDC_IDC_ENUM_EPISODE_V
 ENDOR_TYPE_BSX-Epis_ATR^MDC|||||F
 OBX|43|NM|738000^MDC_IDC_STAT_EPISODE_RECENT_COUNT^MDC|7|3|||||F
 OBX|44|DTM|738017^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START^MDC|7|20140603|||||F
 OBX|45|DTM|738018^MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END^MDC|7|20140715|||||F
 OBX|46|ED|18750-0^Cardiac Electrophysiology
 Report^LN|Application^PDF^^Base64^(encoded PDF included here)|||||F|||201407150941
 OBX|47|CWE|731392^MDC_IDC_SET_BRADY_AT_MODE_SWITCH_MODE^MDC||754778^MDC_IDC_ENUM_BRADY
 _MODE_VDI^MDC|||||F
 OBX|48|NM|731456^MDC_IDC_SET_BRADY_AT_MODE_SWITCH_RATE^MDC||170|{beats}/min|||||F
 OBX|49|NM|729344^MDC_IDC_SET_CRT_LVRV_DELAY^MDC||0|ms|||||F
 OBX|50|CWE|729408^MDC_IDC_SET_CRT_PACED_CHAMBERS^MDC||755267^MDC_IDC_ENUM_CRT_PACED_CH
 AMBERS_BiV^MDC|||||F
 OBX|51|CWE|730752^MDC_IDC_SET_BRADY_MODE^MDC||754760^MDC_IDC_ENUM_BRADY_MODE_DDD^MDC||
 |||||F
 OBX|52|NM|730880^MDC_IDC_SET_BRADY_LOWRATE^MDC||65|{beats}/min|||||F
 OBX|53|NM|731136^MDC_IDC_SET_BRADY_MAX_TRACKING_RATE^MDC||115|{beats}/min|||||F
 OBX|54|NM|731265^MDC_IDC_SET_BRADY_SAV_DELAY_HIGH^MDC||80|ms|||||F
 OBX|55|NM|731329^MDC_IDC_SET_BRADY_PAV_DELAY_HIGH^MDC||130|ms|||||F
 OBX|56|CWE|731520^MDC_IDC_SET_TACHYTHERAPY_VSTAT^MDC||754818^MDC_IDC_ENUM_THERAPY_STAT
 US_Off^MDC|||||F
 OBX|57|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|1|754945^MDC_IDC_ENUM_ZONE_TYPE_Zone_VF^MD
 C|||||F
 OBX|58|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|1|771139^MDC_IDC_ENUM_ZONE_VENDOR_T
 YPE_BSX-Zone_VF^MDC|||||F
 OBX|59|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|1|755011^MDC_IDC_ENUM_ZONE_STATUS_Monito
 r^MDC|||||F
 OBX|60|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|1|300|ms|V|||F
 OBX|61|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|2|754946^MDC_IDC_ENUM_ZONE_TYPE_Zone_VT^MD
 C|||||F
 OBX|62|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|2|771137^MDC_IDC_ENUM_ZONE_VENDOR_T
 YPE_BSX-Zone_VT^MDC|||||F
 OBX|63|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|2|755011^MDC_IDC_ENUM_ZONE_STATUS_Monito
 r^MDC|||||F
 OBX|64|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|2|375|ms|V|||F
 OBX|65|CWE|731648^MDC_IDC_SET_ZONE_TYPE^MDC|3|754946^MDC_IDC_ENUM_ZONE_TYPE_Zone_VT^MD
 C|||||F
 OBX|66|CWE|731712^MDC_IDC_SET_ZONE_VENDOR_TYPE^MDC|3|771138^MDC_IDC_ENUM_ZONE_VENDOR_T
 YPE_BSX-Zone_VT-1^MDC|||||F
 OBX|67|CWE|731776^MDC_IDC_SET_ZONE_STATUS^MDC|3|755011^MDC_IDC_ENUM_ZONE_STATUS_Monito
 r^MDC|||||F
 OBX|68|NM|731840^MDC_IDC_SET_ZONE_DETECTION_INTERVAL^MDC|3|429|ms|V|||F
 OBX|69|NM|729536^MDC_IDC_SET_LEADCHNL_RA_SENSING_SENSITIVITY^MDC||0.25|mV|||||F
 OBX|70|CWE|729920^MDC_IDC_SET_LEADCHNL_RA_SENSING_ADAPTATION_MODE^MDC||754625^MDC_IDC_
 ENUM_SENSING_ADAPTATION_MODE_AdaptiveSensing^MDC|||||F
 OBX|71|CWE|729600^MDC_IDC_SET_LEADCHNL_RA_SENSING_POLARITY^MDC||754306^MDC_IDC_ENUM_PO
 LARITY_BI^MDC|||||F
 OBX|72|NM|729537^MDC_IDC_SET_LEADCHNL_RV_SENSING_SENSITIVITY^MDC||0.6|mV|||||F
 OBX|73|CWE|729921^MDC_IDC_SET_LEADCHNL_RV_SENSING_ADAPTATION_MODE^MDC||754625^MDC_IDC_
 ENUM_SENSING_ADAPTATION_MODE_AdaptiveSensing^MDC|||||F
 OBX|74|CWE|729601^MDC_IDC_SET_LEADCHNL_RV_SENSING_POLARITY^MDC||754306^MDC_IDC_ENUM_PO
 LARITY_BI^MDC|||||F
 OBX|75|NM|729539^MDC_IDC_SET_LEADCHNL_LV_SENSING_SENSITIVITY^MDC||1.0|mV|||||F
 OBX|76|CWE|729923^MDC_IDC_SET_LEADCHNL_LV_SENSING_ADAPTATION_MODE^MDC||754625^MDC_IDC_
 ENUM_SENSING_ADAPTATION_MODE_AdaptiveSensing^MDC|||||F

OBX|77|CWE|729676^MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_LOCATION^MDC||754498^MDC_IDC_E
 NUM_ELECTRODE_LOCATION_RV^MDC|||||F
 OBX|78|CWE|729804^MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_LOCATION^MDC||754500^MDC_IDC
 _ENUM_ELECTRODE_LOCATION_LV^MDC|||||F
 OBX|79|CWE|729868^MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_ELECTRODE^MDC||754561^MDC_ID
 C_ENUM_ELECTRODE_NAME_Tip^MDC|||||F
 OBX|80|NM|729984^MDC_IDC_SET_LEADCHNL_RA_PACING_AMPLITUDE^MDC||2.5|V|||||F
 OBX|81|NM|730048^MDC_IDC_SET_LEADCHNL_RA_PACING_PULSEWIDTH^MDC||0.4|ms|||||F
 OBX|82|CWE|730112^MDC_IDC_SET_LEADCHNL_RA_PACING_POLARITY^MDC||754306^MDC_IDC_ENUM_POL
 ARITY_BI^MDC|||||F
 OBX|83|NM|729985^MDC_IDC_SET_LEADCHNL_RV_PACING_AMPLITUDE^MDC||2.5|V|||||F
 OBX|84|NM|730049^MDC_IDC_SET_LEADCHNL_RV_PACING_PULSEWIDTH^MDC||0.4|ms|||||F
 OBX|85|CWE|730113^MDC_IDC_SET_LEADCHNL_RV_PACING_POLARITY^MDC||754306^MDC_IDC_ENUM_POL
 ARITY_BI^MDC|||||F
 OBX|86|NM|729987^MDC_IDC_SET_LEADCHNL_LV_PACING_AMPLITUDE^MDC||2.5|V|||||F
 OBX|87|NM|730051^MDC_IDC_SET_LEADCHNL_LV_PACING_PULSEWIDTH^MDC||0.4|ms|||||F
 OBX|88|CWE|730188^MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_LOCATION^MDC||754498^MDC_IDC_EN
 UM_ELECTRODE_LOCATION_RV^MDC|||||F
 OBX|89|CWE|730316^MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_LOCATION^MDC||754500^MDC_IDC_
 ENUM_ELECTRODE_LOCATION_LV^MDC|||||F
 OBX|90|CWE|730380^MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_ELECTRODE^MDC||754561^MDC_IDC
 _ENUM_ELECTRODE_NAME_Tip^MDC|||||F
 OBX|91|CWE|720897^MDC_IDC_DEV_TYPE^MDC||753667^MDC_IDC_ENUM_DEV_TYPE_CRT_D^MDC|||||F
 OBX|92|ST|720898^MDC_IDC_DEV_MODEL^MDC||N118|||||F
 OBX|93|ST|720899^MDC_IDC_DEV_SERIAL^MDC||559633|||||F
 OBX|94|CWE|720900^MDC_IDC_DEV_MFG^MDC||753732^MDC_IDC_ENUM_MFG_BSX^MDC|||||F
 OBX|95|DTM|720901^MDC_IDC_DEV_IMPLANT_DT^MDC||20081009|||||F
 OBX|96|DTM|721921^MDC_IDC_MSMT_LEADCHNL_RA_DTM_START^MDC||20140715|||||F
 OBX|97|NM|722051^MDC_IDC_MSMT_LEADCHNL_RA_SENSING_INTR_AMPL_MEAN^MDC||3.0|mV|||||F||2
 0140715
 OBX|98|CWE|722112^MDC_IDC_MSMT_LEADCHNL_RA_SENSING_POLARITY^MDC||754306^MDC_IDC_ENUM_P
 OLARITY_BI^MDC|||||F
 OBX|99|NM|722176^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_AMPLITUDE^MDC||1.4|V|||||F|
 ||20140715
 OBX|100|NM|722240^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_PULSEWIDTH^MDC||0.4|ms|||
 |F|||20140715
 OBX|101|CWE|722304^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_MEASUREMENT_METHOD^MDC||7
 54369^MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual^MDC|||||F
 OBX|102|CWE|722368^MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_POLARITY^MDC||754306^MDC_
 IDC_ENUM_POLARITY_BI^MDC|||||F
 OBX|103|NM|722432^MDC_IDC_MSMT_LEADCHNL_RA_IMPEDANCE_VALUE^MDC||1544|ohms|||||F||20140
 715
 OBX|104|CWE|722496^MDC_IDC_MSMT_LEADCHNL_RA_IMPEDANCE_POLARITY^MDC||754306^MDC_IDC_ENU
 M_POLARITY_BI^MDC|||||F
 OBX|105|DTM|721925^MDC_IDC_MSMT_LEADCHNL_RV_DTM_START^MDC||20140715|||||F
 OBX|106|NM|722055^MDC_IDC_MSMT_LEADCHNL_RV_SENSING_INTR_AMPL_MEAN^MDC||mV||NAV|||F|||
 20140715
 OBX|107|CWE|722113^MDC_IDC_MSMT_LEADCHNL_RV_SENSING_POLARITY^MDC||754306^MDC_IDC_ENUM_
 POLARITY_BI^MDC|||||F
 OBX|108|NM|722177^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_AMPLITUDE^MDC||2.2|V|||||F
 |||20140715
 OBX|109|NM|722241^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_PULSEWIDTH^MDC||0.4|ms|||
 |F|||20140715
 OBX|110|CWE|722305^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_MEASUREMENT_METHOD^MDC||7
 54369^MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual^MDC|||||F
 OBX|111|CWE|722369^MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_POLARITY^MDC||754306^MDC_
 IDC_ENUM_POLARITY_BI^MDC|||||F
 OBX|112|NM|722433^MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_VALUE^MDC||497|ohms|||||F||20140
 715
 OBX|113|CWE|722497^MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_POLARITY^MDC||754306^MDC_IDC_ENU
 M_POLARITY_BI^MDC|||||F
 OBX|114|DTM|721933^MDC_IDC_MSMT_LEADCHNL_LV_DTM_START^MDC||20140715|||||F

OBX|115|NM|722063^MDC_IDC_MSMT_LEADCHNL_LV_SENSING_INTR_AMPL_MEAN^MDC|||mV||NAV|||F|||
20140715
OBX|116|CWE|722115^MDC_IDC_MSMT_LEADCHNL_LV_SENSING_POLARITY^MDC||754305^MDC_IDC_ENUM_
POLARITY_UNI^MDC|||F
OBX|117|NM|722179^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_AMPLITUDE^MDC||2.0|V|||F|||
||20140715
OBX|118|NM|722243^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_PULSEWIDTH^MDC||0.4|ms|||F|||
|F|||20140715
OBX|119|CWE|722307^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_MEASUREMENT_METHOD^MDC||7
54369^MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual^MDC|||F
OBX|120|CWE|722371^MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_POLARITY^MDC||754305^MDC_
IDC_ENUM_POLARITY_UNI^MDC|||F
OBX|121|NM|722435^MDC_IDC_MSMT_LEADCHNL_LV_IMPEDANCE_VALUE^MDC||605|ohms|||F|||20140
715
OBX|122|CWE|722499^MDC_IDC_MSMT_LEADCHNL_LV_IMPEDANCE_POLARITY^MDC||754305^MDC_IDC_ENU
M_POLARITY_UNI^MDC|||F
OBX|123|DTM|722560^MDC_IDC_MSMT_LEADHVCHNL_DTM_START^MDC|1|20140715|||F
OBX|124|NM|722624^MDC_IDC_MSMT_LEADHVCHNL_IMPEDANCE^MDC|1|55|ohms|||F
OBX|125|CWE|722688^MDC_IDC_MSMT_LEADHVCHNL_MEASUREMENT_TYPE^MDC|1|754433^MDC_IDC_ENUM_
HVCHNL_MEASUREMENT_TYPE_LowVoltage^MDC|||F
OBX|126|DTM|737489^MDC_IDC_STAT_DTM_START^MDC||20140603|||F
OBX|127|DTM|737490^MDC_IDC_STAT_DTM_END^MDC||20140715|||F
OBX|128|DTM|737505^MDC_IDC_STAT_BRADY_DTM_START^MDC||20140603|||F
OBX|129|DTM|737506^MDC_IDC_STAT_BRADY_DTM_END^MDC||20140715|||F
OBX|130|NM|737520^MDC_IDC_STAT_BRADY_RA_PERCENT_PACED^MDC||0|%|||F
OBX|131|NM|737536^MDC_IDC_STAT_BRADY_RV_PERCENT_PACED^MDC||100|%|||F
OBX|132|DTM|737777^MDC_IDC_STAT_CRT_DTM_START^MDC||20140603|||F
OBX|133|DTM|737778^MDC_IDC_STAT_CRT_DTM_END^MDC||20140715|||F
OBX|134|NM|737792^MDC_IDC_STAT_CRT_LV_PERCENT_PACED^MDC||100|%|||F
OBX|135|DTM|737665^MDC_IDC_STAT_AT_DTM_START^MDC||20140605|||F
OBX|136|DTM|737666^MDC_IDC_STAT_AT_DTM_END^MDC||20140715|||F
OBX|137|NM|737696^MDC_IDC_STAT_AT_BURDEN_PERCENT^MDC||1|%|||F

Definition of Symbols Used in this Manual

| | |
|---|---|
|  | Manufacturer |
|  | Authorized Representative in the European Community |

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 Version überholt. Nicht verwenden.
 Version obsolète. Ne pas utiliser.
 Versión obsoleta. No utilizar.
 Versiões obsoletas. Não utilizar.
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