INTERNATIONAL STANDARD

ISO/IEEE 11073-10103

First edition
2014-03-01

Corrected version
2014-05-01

Health informatics — Point-of-care medical device communication —

Part 10103: Nomenclature — Implantable device, cardiac

Informatique de santé — Communication entre dispositifs médicaux sur le site des soins

Partie 10103: Nomenclature — Dispositif implantable, cardiaque

Reference number
ISO/IEEE 11073-10103:2014(E)

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ISO version published 2014

Published in Switzerland

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ISO/IEEE 11073 consists of the following parts, under the general title *Health informatics — Personal health device communication* (text in parentheses gives a variant of subtitle):

— *Part 00103: Overview*

— *Part 10101: (Point-of-care medical device communication) Nomenclature*

— *Part 10102: (Point-of-care medical device communication) Nomenclature — Annotated ECG*

— *Part 10103: (Point-of-care medical device communication) — Nomenclature — Implantable device, cardiac*

— *Part 10201: (Point-of-care medical device communication) Domain information model*

— *Part 10404: Device specialization — Pulse oximeter*

— *Part 10406: Device specialization — Basic electrocardiograph (ECG) (1- to 3-lead ECG)*

— *Part 10407: Device specialization — Blood pressure monitor*

— *Part 10408: Device specialization — Thermometer*

— *Part 10415: Device specialization — Weighing scale*

— *Part 10417: Device specialization — Glucose meter*

— *Part 10418: Device specialization — International Normalized Ratio (INR) monitor*

— *Part 10420: Device specialization — Body composition analyzer*

— *Part 10421: Device specialization — Peak expiratory flow monitor (peak flow)*

— *Part 10441: Device specialization — Cardiovascular fitness and activity monitor*

— *Part 10471: Device specialization — Independant living activity hub*

— *Part 10472: Device specialization — Medication monitor*

— *Part 20101: (Point-of-care medical device communication) Application profiles — Base standard*

— *Part 20601: Application profile — Optimized exchange protocol*

— *Part 30200: (Point-of-care medical device communication) Transport profile — Cable connected*

— *Part 30300: (Point-of-care medical device communication) Transport profile — Infrared wireless*

— *Part 30400: (Point-of-care medical device communication) Interface profile — Cabled Ethernet*

— *Part 90101: (Point-of-care medical device communication) Analytical instruments — Point-of-care test*

— *Part 91064: (Standard communication protocol) Computer-assisted electrocardiography*

— *Part 92001: (Medical waveform format) — Encoding rules*

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IEEE Std 11073-10103™-2012

27 August 2012

Health informatics—Point-of-care medical device communication

Part 10103: Nomenclature—Implantable device, cardiac

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Approved 14 May 2012

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Abstract: The base nomenclature provided in IEEE 11073 to support terminology for implantable cardiac devices is extended in this standard. Devices within the scope of this nomenclature are implantable devices such as pacemakers, defibrillators, devices for cardiac resynchronization therapy, and implantable cardiac monitors. The discrete terms necessary to convey a clinically relevant summary of the information obtained during a device interrogation are defined in this nomenclature. To improve workflow efficiencies, cardiology and electrophysiology practices require the management of summary interrogation information from all vendor devices and systems in a central system such as an Electronic Health Records (EHR) system or a device clinic management system. To address this requirement, the Implantable Device, Cardiac (IDC) Nomenclature defines a standard-based terminology for device data. The nomenclature facilitates the transfer of data from the vendor proprietary systems to the clinic EHR or device clinic management system.

Keywords: cardiac resynchronization therapy (CRT), codes, follow-up, home monitoring, IEEE 11073-10103, implantable cardioverter defibrillator (ICD), implantable devices, medical device communication, nomenclature, pacemaker, remote follow-up, remote monitoring, terminology

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PDF: ISBN 978-0-7381-7282-8 STD97257
Print: ISBN 978-0-7381-7388-7 STDPD97257

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Introduction

This introduction is not part of IEEE Std 11073-10103-2012, Health informatics—Point-of-care medical device communication—Part 10103: Nomenclature—Implantable device, cardiac.

This standard enables and standardizes the reporting of discrete data elements associated with implantable cardiac device interrogations (observations) to enterprise-based applications (e.g., clinical information systems). Currently, no such standardization exists, typically resulting in the reports being managed as paper documents and not electronically.

Given the lack of standardization in this domain, information retrieved from implantable cardiac devices is transmitted and stored in centralized health records using vendor proprietary methods, or in many cases, it is managed as paper documents. By standardizing the terminology used to describe the settings and measurements of these devices, both the ordering and follow-up reporting can be integrated more easily with health care applications, such as electronic health records, order entry systems, and electronic patient records. This integration will result in greater access to critical patient information and automated verification that clinical orders have been completed in a timely fashion, ultimately resulting in increased quality of care and patient safety.

Subject domain experts provided the requirements for the nomenclature. Subject domain experts are represented by members of the Heart Rhythm Society (HRS), which is the international leader in science, education, and advocacy for cardiac arrhythmia professionals and patients, and the primary information resource on heart rhythm disorders.

This standard is a distinct and standalone partition within the IEEE 11073-10101 nomenclature. It is meant to be a self-contained and comprehensive nomenclature for information pertaining to implantable cardiac devices.

NOTE—The XML Schema, XSLT transforms and XML data files contained in Annex H are available at the following URL: http://standards.ieee.org/downloads/11073/11073-10103-2012/.

Contents

Health informatics—Point-of-care medical device communication

Part 10103: Nomenclature—Implantable device, cardiac

1. Overview

1.1 Scope

This standard extends the base nomenclature provided in ISO/IEEE 11073-10101:2004[1] to support terminology for implantable cardiac devices. Devices within the scope of this nomenclature are implantable devices such as pacemakers, defibrillators, devices for cardiac resynchronization therapy, and implantable cardiac monitors. This nomenclature defines the discrete terms necessary to convey a clinically relevant summary of the information obtained during a device interrogation. The nomenclature extensions may be used in conjunction with other IEEE 11073 standard components (e.g., ISO/IEEE 11073-10201 [B2][2]) or with other standards, such as Health Level Seven International (HL7).

[1] Information on references can be found in Clause 2.
[2] The numbers in brackets correspond to those of the bibliography in Annex I.

1.2 Purpose

This standard addresses the need for an openly defined, independent standard for representing information collected from industry-wide implantable cardiac devices. A broader intent is to enable a standards-based exchange of implantable cardiac device information between vendor's proprietary interrogation systems and clinic electronic medical record systems.

1.3 Audience

The audience for this document is those who work with implantable cardiac device information in the context of systems integration. This may include but is not limited to the following roles:

- Cardiologist or electrophysiologist physicians
- Heart failure physicians
- Heart and device clinic specialists or staff
- Primary care physicians
- Clinic information technologists
- Clinic information system vendor engineers
- Implantable cardiac device vendor engineers
- Regulatory and quality management agencies

1.4 Context

This nomenclature has been developed within the context of the broader 11073 Health informatics—Point of care medical device communication standards. Its goal is to be consistent with existing 11073 standards and information models.

2. Normative references

The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so that each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.

ISO/IEEE 11073-10101:2004, Health informatics—Point-of-care medical device communication—Part 10101: Nomenclature.[3]

The Unified Code for Units of Measure (UCUM), version 1.8.[4]

[3] ISO/IEC publications are available from the ISO Central Secretariat (http://www.iso.org/). ISO publications are also available in the United States from the American National Standards Institute (http://www.ansi.org/).
[4] UCUM is available at http://aurora.regenstrief.org/~ucum/ucum.html. An overview and useful supporting information are available at http://unitsofmeasure.org/.

3. Definitions, acronyms, and abbreviations

3.1 Definitions

For the purposes of this document, the following terms and definitions apply. The *IEEE Standards Dictionary Online* should be consulted for terms not defined in this clause.[5]

arrhythmia: Any abnormality of cardiac rhythm. Examples are bradycardia, dysrhythmia, and tachycardia.

cardiac monitors: A device that shows the electrical waveforms of the cardiovascular system for measurement and treatment.

cardiac resynchronization therapy: A treatment that can relieve congestive heart failure symptoms by improving the coordination of the heart's contractions

cardiologist: Physician specializing in disorders of the heart.

centralized health record: *See:* **electronic health records (EHR)**.

clinic information system vendor engineers: Personnel employed by the clinic to create, enhance, and maintain the computerized information systems that reside in a clinic.

co-constraint: A rule describing a constraint whose scope is inclusive of more than one term.

constraint: A restriction on the set of values being assigned.

containment node: An intermediate node within the containment hierarchy (tree graph) of the nomenclature.

defibrillator: *See:* **implantable cardioverter defibrillator (ICD)**.

device clinic: A specialized physician clinic that provides follow-up service to patients with an implanted pacemaker or cardioverter defibrillator (ICD).

discriminators: A mechanism to provide additional semantic refinement to multiple terms.

domain information model (DIM): The model describing common concepts and relationships for a problem domain.

electronic health records (EHR): A longitudinal collection of electronic health information about individual patients or populations. It is a record in digital format that is capable of being shared within across different health care settings by being embedded in network-connected enterprise-wide information system.

electrophysiologist: A physician with advanced study of the electrical properties of the heart.

implantable cardiac device: A small, battery-powered electrical impulse generator that is implanted in patients to maintain heart rate or deliver a high-powered shock to correct cardiac arrhythmia. *See also:* **defibrillator; pacemaker**.

[5]The *IEEE Standards Dictionary Online* subscription is available at http://www.ieee.org/portal/innovate/products/standard/standards_dictionary.html.

implantable cardiac device vendor engineers: Personnel employed by the implantable cardiac device vendors who create, enhance, and maintain the computerized information systems that support their devices.

implantable cardioverter defibrillator (ICD): A small, battery-powered electrical impulse generator that is implanted in patients who are at risk of sudden cardiac death. The device is programmed to detect cardiac arrhythmia and correct it by delivering a shock of electric current.

interrogation: The process of communicating with and retrieving data from an implantable medical device.

nomenclature: A set of names or terms comprising a taxonomy for a specific domain.

pacemaker: A small, battery-powered electrical impulse generator which is implanted in patients to support or maintain heart rate.

programming: The noninvasive adjustment of programmable parameters in a implantable cardiac device.

reference ID: A unique, symbolic, and programmatic form for the term. The form is correlated to the context-free code (i.e., titles are by definition context-free with respect to all other titles); all terms are prefixed with “MDC_IDC_” for consistency.

rhythm disturbance: An irregular heartbeat.

systematic name: An organization of differentiating, relational descriptors that are unique for each term.

terminology: A synonym for nomenclature.

vendor enumerations: Vendor-specific enumerated values for a term.

vendor proprietary equipment: Device vendor equipment or systems used for management and analysis of devices.

3.2 Acronyms and abbreviations

AT	atrial tachycardia
ATP	antitachycardia pacing
CRT	cardiac resynchronization therapy
DIM	domain information model
HL7	Health Level Seven
ICD	implantable cardioverter defibrillator
ICS	implementation conformance statement
ID	identifier
IDC	implantable device, cardiac
LA	left atrium
LV	left ventricle
MDC	medical device communication
NBG	NASPE/BPEG generic
RA	right atrium
RV	right ventricle
UCUM	unified code of units of measure
VF	ventricular fibrillation
VT	ventricular tachycardia

4. Introduction to IEEE 11073 implantable devices cardiac domain

Millions of people experience irregular heartbeats at some point in their lives. Most of these irregularities, called arrhythmias, are harmless and can occur in people free from heart disease. Sometimes, however, rhythm disturbances can be serious or even fatal.

Often, cardiac rhythm disease or arrhythmias are caused by problems with the electrical system that regulates the steady, rhythmic beat of the heart. The heartbeat may be too slow or too fast; it may remain steady, become chaotic, or lack efficiency. Some arrhythmias are dangerous and cause sudden cardiac death, while others may be bothersome but are not life threatening.

Implantable cardiac devices monitor the heart's rhythm continuously and may apply therapy based on conditions detected. These devices are designed to deliver controlled electrical stimulus to the heart to maintain normal rhythm, improve the efficiency, or stop serious arrhythmias. The devices can have their settings programmed to optimize how therapy will be applied and have capabilities to store data for later retrieval and analysis. These devices are categorized as pacemakers, implantable cardioverter defibrillators (ICD), or devices for cardiac resynchronization therapy (CRT).

There are typically two major components of the implantable cardiac device system: the pulse generator and the leads. The pulse generator contains the power source and electronic circuitry. The pulse generator senses physiological conditions, applies algorithms to determine therapy, stores data, and produces the electric output stimuli. Some devices are monitor-only devices and do not deliver therapy. The second component, a lead, is an insulated wire used to conduct pulse generator outputs to the heart tissue and to transmit electrical potentials from the heart or other sensing components to sensing circuits of the pulse generator.

Figure 1 provides an overview graphic of the implanted pulse generator and leads.

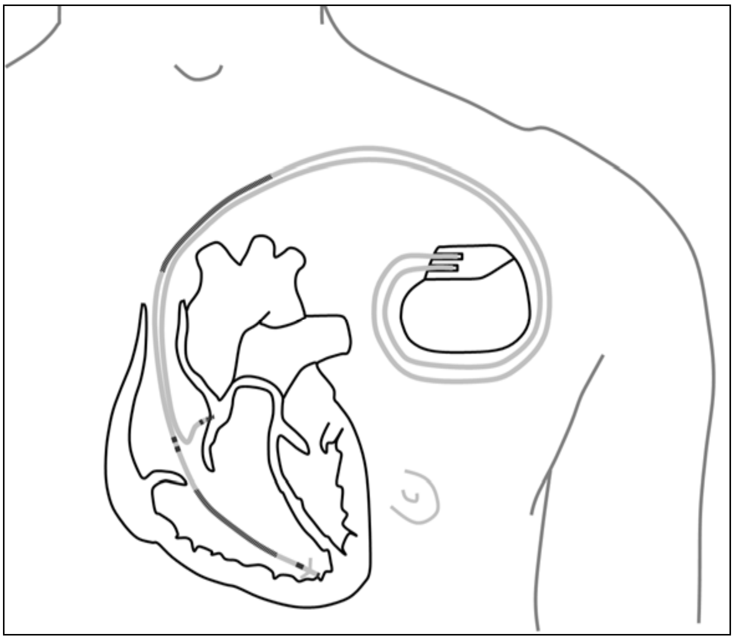
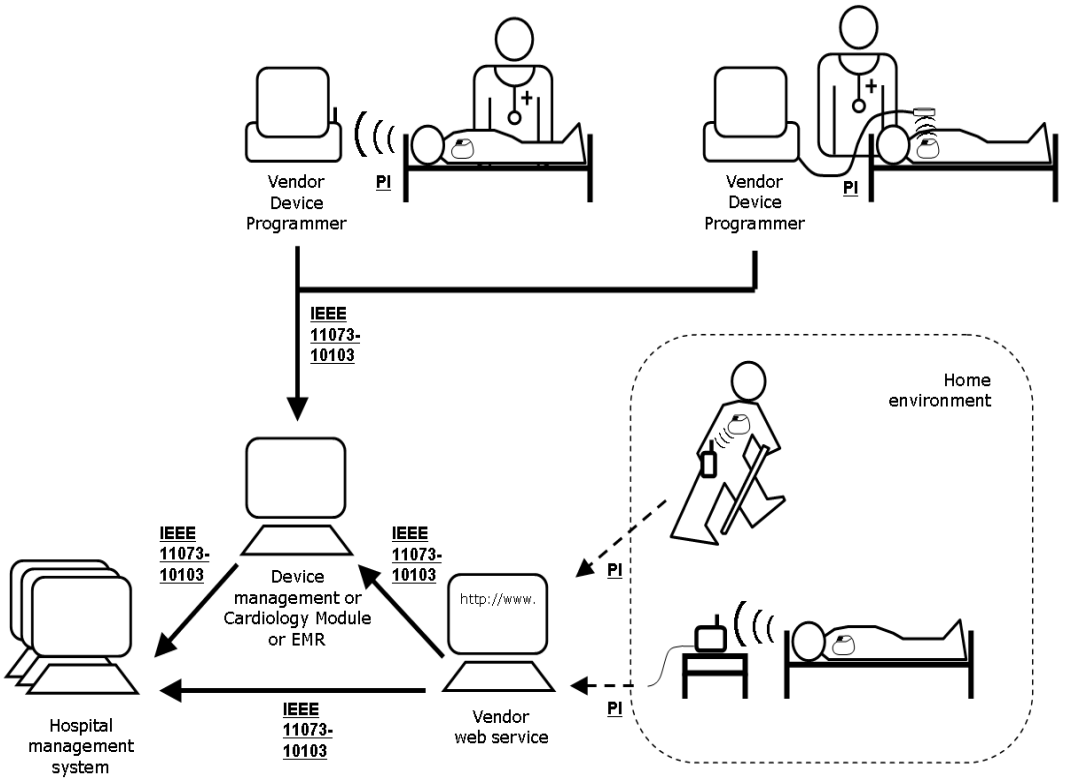


Figure 1—Pulse generator/leads

Cardiologists and electrophysiologists are trained physicians who diagnose arrhythmias and implant appropriate cardiac device for diagnosis and treatment. Typically, cardiologists and electrophysiologists follow patients with implantable cardiac devices manufactured by multiple vendors.

Information from the implantable cardiac device is retrieved using vendor proprietary equipment and systems. This procedure of retrieving implanted device data is called “interrogation.” Interrogations are performed either in-clinic or remotely and are stored in the vendor interrogation systems. Clinics need to integrate data from multiple vendor interrogation systems into a centralized health record to improve workflow efficiencies. Mapping information from multiple proprietary vendor data formats into the central health is complicated and expensive.

A common set of terms is provided in IEEE Std 11073-10103 that can be used to exchange information between vendor and clinic systems. Centralized health record systems benefit from standardized interfaces. The IEEE 11073-10103 Implantable Device, Cardiac (IDC) Nomenclature defines the standard terminology for these interfaces. Figure 2 shows a representation of where the IEEE 11073-10103 IDC nomenclature could be used.



IEEE 11073-10103 – Interface based on IEEE 11073-10103 nomenclature
PI – Proprietary interface

Figure 2—IEEE 11073-10103 usage diagram

5. Nomenclature requirements

5.1 Overview

Nomenclature in this standard defines normative text identifiers and numeric code identifiers for labeling implantable cardiac device data. It also specifies normative constraints for usage in regards to semantic meaning, data type, unit of measure, and enumerated values.

Requirements are defined by subject domain experts. Subject domain experts are represented by members of the Heart Rhythm Society, which is the international leader in science, education and advocacy for cardiac arrhythmia professionals and patients, and is the primary information resource on heart rhythm disorders.

The requirements for the nomenclature fall into multiple categories, as follows:

— The scope of the nomenclature

— The organizational structure of the nomenclature

— The semantics of the nomenclature

5.2 Scope requirements

The following requirements regarding the scope and content of the standard were used:

— Level of detail shall be summary information as specified and understood by subject domain experts

— Shall only define terms that are common across domain

— Shall allow for specific vendor enumerations of terms when needed

5.3 Organizational structure requirements

The following requirements regarding the scope and content of the standard were used:

— Term identifiers shall be organized in a consistent hierarchical classification scheme

— Shall be organized to avoid post coordination of terms

5.4 Semantic requirements

The following requirements regarding the semantic definitions were used:

— Domain experts will discuss and define term semantic requirements.

6. Nomenclature structure

6.1 Overview

Nomenclature in this standard is structured based on a hierarchical taxonomy or containment hierarchy. A tree graph has been used to represent the containment hierarchy or the semantic organization of the terminology (Figure 3). The base root node is MDC_IDC, which is short for Medical Device Communication—Implantable Device Cardiac. The IDC nomenclature is a code space within a partition of the ISO/IEEE 11073-10101 nomenclature

Nodes within the tree graph were determined through interaction with clinical domain experts. Clinical concepts for the domain were identified through definition and analysis of a typical device follow-up summary report. Concepts were categorized and arranged in a hierarchical structure of nodes.

Discriminators are used to provide additional semantic refinement that can be applied to multiple terms. Discriminators are used to manage complexity within the containment hierarchy and can be applied at any node within the containment hierarchy. They are represented in the nomenclature models and lists using square brackets and a text token, e.g., [Token]. The token of the discriminator is expanded using a defined set of text values that are semantically significant to the resulting term identifier. Discriminator token sets for the containment hierarchy are defined in tables below and are referenced by token name. For example, the node LEADCHNL has the discriminator [CHAMBER] postfixed. The token CHAMBER will be expanded using the set of heart chambers (right atrium [RA], right ventricle [RV], left atrium [LA], and left ventricle [LV]) resulting in LEADCHNL_RA, LEADCHNL_RV, LEADCHNL_LA, and LEADCHNL_LV.

A term is uniquely identified by a Reference ID, Systematic Name and Code according to the scheme described in ISO/IEEE 11073-10101:2004. A term's Reference ID consists of following a sequential path through the containment hierarchy from the root node to a leaf node. Each node on this path becomes a component of the term's Reference ID and Systematic Name, and appropriately it represents the semantic of the term. After expanding all discriminators, a unique Code is then assigned to each term from a 16-bit partition or code block of the -10101 code space that has been allocated for the exclusive use of the IDC nomenclature.

The tree graph of the containment hierarchy is shown in Figure 3.

In Figure 4 (Table 1) through Figure 7 (Table 4), portions of the tree graph are shown for containment nodes to facilitate readability. Each node of the graph contains a clinical concept and a text identifier. Only the root node and other containment nodes are shown as these are the organizing concepts of the nomenclature. Instances of leaf nodes or terms are listed in Annex A and Annex C.

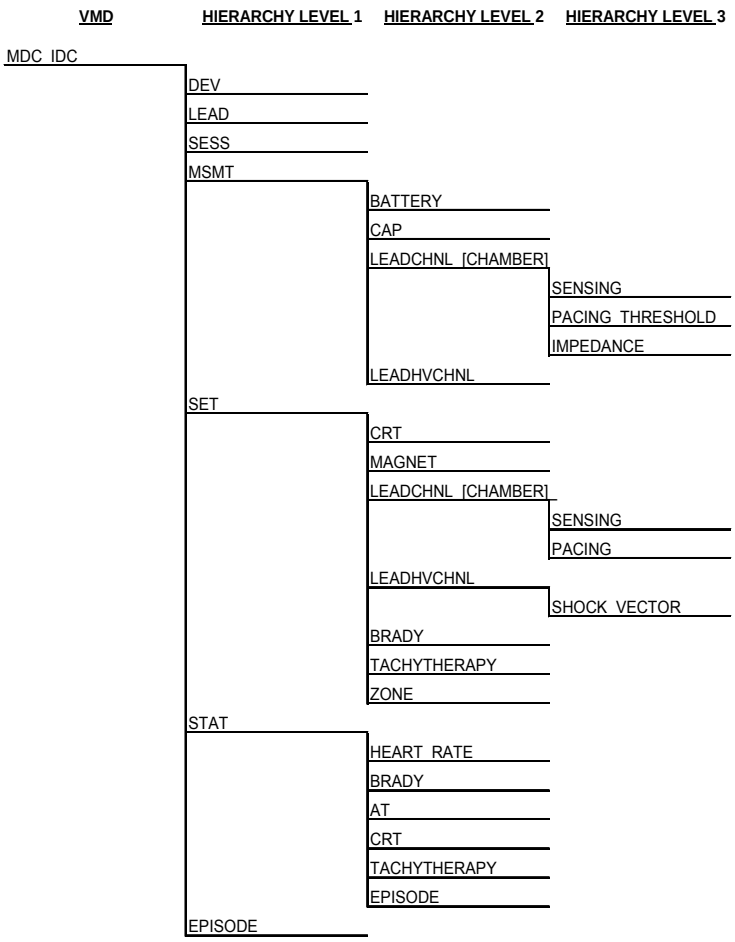


Figure 3—11073-10103 containment hierarchy

6.2 Highest level containment nodes

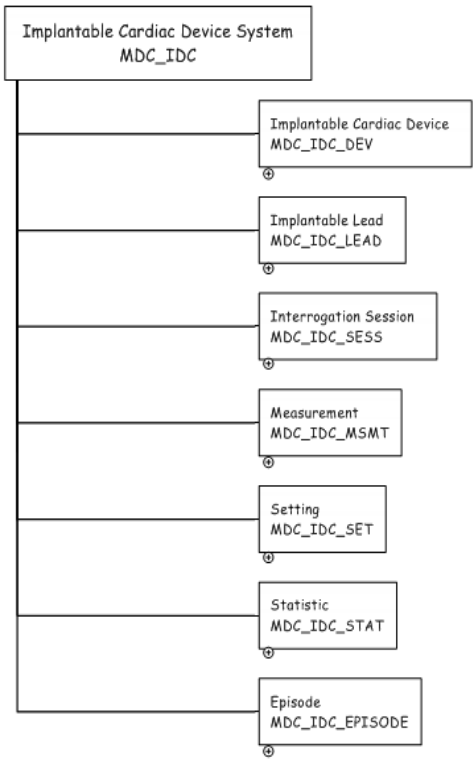


Figure 4—Highest level containment nodes

Table 1—High-level node descriptions

Name	Containment node/Reference ID component MDC_IDC_	Description
Implantable Cardiac Device	DEV	Attributes specific to the physical implantable cardiac device.
Implantable Lead	LEAD	Attributes specific to the physical leads of the device system.
Interrogation Session	SESS	Interrogation session where observations were made.
Measurement	MSMT	Measurements concerning the device or patient.
Setting	SET	Device settings that determine device behavior.
Statistic	STAT	Aggregate statistics concerning the device or patient conditions.
Episode	EPISODE	Device sensed episodes.

6.2.1 Measurement nodes

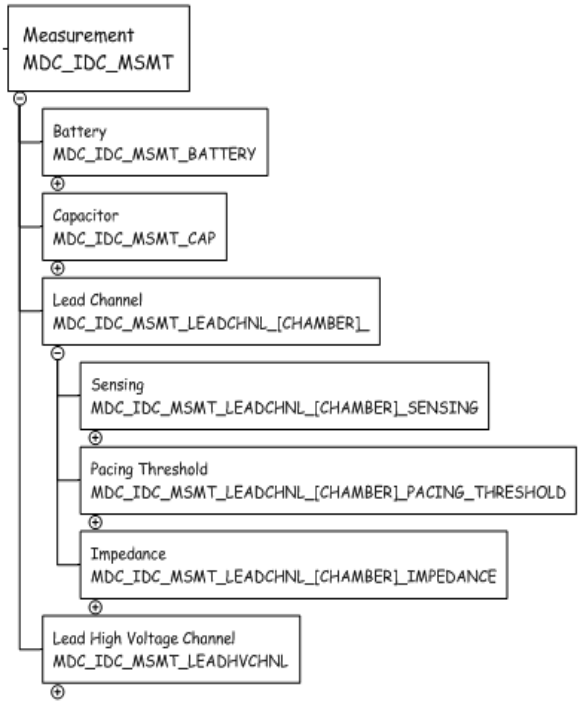


Figure 5—Measurement nodes

Table 2—Measurement nodes descriptions

Name	Containment node/Reference ID component MDC_IDC_MSMT_	Description
Battery	BATTERY	Device battery measurements.
Capacitor	CAP	Device capacitor measurements.
Lead channel	LEADCHNL_[CHAMBER]	Device's lead electrical channel measurements.
Sensing	LEADCHNL_[CHAMBER]_SENSING	Sensing measurements of a particular lead electrical channel.
Pacing threshold	LEADCHNL_[CHAMBER]_PACING_THRESHOLD	Pacing threshold measurements for a particular lead electrical channel.
Impedance	LEADCHNL_[CHAMBER]_IMPEDANCE	Impedance measurements for a particular lead electrical channel.
Lead high-voltage channel	LEADHVCHNL	Device's high-voltage channel measurements.

6.2.2 Setting nodes

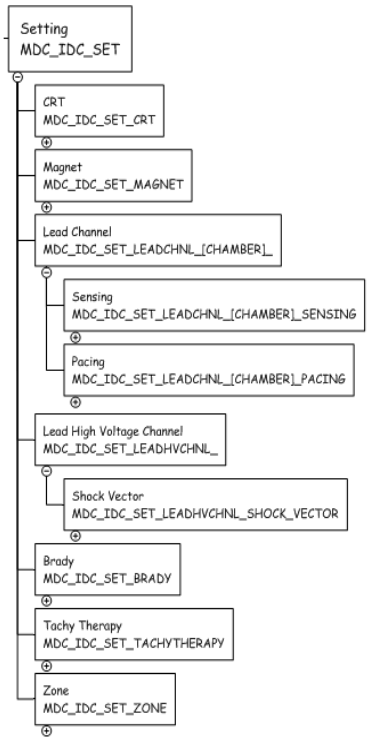


Figure 6—Setting nodes

Table 3—Setting node descriptions

Name	Containment node/Reference ID component MDC_IDC_SET_	Description
CRT	CRT	Cardiac resynchronization therapy settings.
Magnet	MAGNET	Magnet settings.
Lead channel	LEADCHNL_[CHAMBER]	Lead electric channel settings.
Sensing	LEADCHNL_[CHAMBER]_SENSING	Sensing settings for a particular lead electric channel.
Pacing	LEADCHNL_[CHAMBER]_PACING	Pacing settings for a particular lead electric channel.
Lead high-voltage channel	LEADHVCHNL	Lead high-voltage electric channel settings.
Shock vector	LEADHVCHNL_SHOCK_VECTOR	Shock vector settings for a lead high-voltage electric channel.
Brady	BRADY	Brady therapy settings.
Tachy therapy	TACHYTHERAPY	Tachy therapy settings.
Zone	ZONE	Tachy detection/therapy zone settings.

6.2.3 Statistic nodes

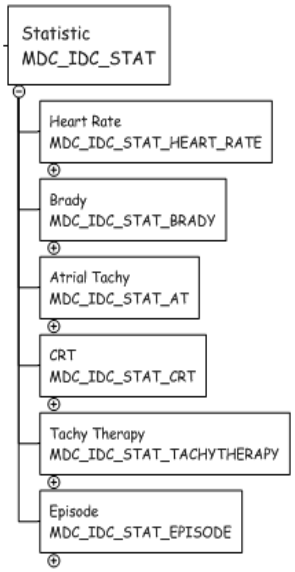


Figure 7—Statistic nodes

Table 4—Statistic node descriptions

Name	Containment node/Reference ID component MDC_IDC_STAT_	Description
Heart rate	HEART_RATE	Heart rate statistics.
Brady	BRADY	Brady therapy statistics.
Atrial tachy	AT	Atrial tachyarrythmia statistics.
CRT	CRT	Cardiac resynchronization therapy statistics.
Tachy therapy	TACHYTHERAPY	Tachy therapy statistics.
Episode	EPISODE	Episode statistics.

6.2.4 Discriminators in containment hierarchy

One discriminator [CHAMBER] was used to create the identifiers for the following containment nodes:

MDC_IDC_MSMT_LEADCHNL_[CHAMBER]

MDC_IDC_SET_LEADCHNL_[CHAMBER]

Rationale:

Implantable cardiac systems usually consist of more than one lead, and those leads can be located in different chambers of the heart. To address this, a discriminator was used that represents each of the four chambers of the heart and additional locations where leads may be placed (Table 5).

Table 5—Containment node discriminators

Discriminator token	Value	Description
CHAMBER	RA	Right atrial
	RV	Right ventricle
	LA	Left atrial
	LV	Left ventricle
	MIXED	Multiple chambers

7. Conformance

7.1 Applicability

Conformance to definitions of this standard is specified primarily at the appropriate application or system interface. It is expected that this standard will be referenced by other healthcare systems integration standards or profiles that define specific applications of the nomenclature.

7.2 Conformance specification

To support interoperability of applications and systems, an implementation based on this standard shall provide specific details about the way that the definitions of this standard are applied.

7.3 Implementation conformance statements (ICSs)

The general format of the ICSs is in the form of tables. Templates for these ICS tables are given in Table 6 through Table 8. The tables are to be filled out and provided as an overall conformance statement document.

Generally the column headers of an ICS table contain the following information:

- Index, which is an ID (e.g., a number) of a specific feature.
- Feature, which briefly describes the characteristic for the conformance statement to make.
- Reference, which is a reference to the definition of the feature (may be empty).
- Status, which specifies the conformance requirement (i.e., the requirements for a conforming implementation regarding the feature). In some cases, this standard does not specify conformance requirements but still wants a definition of the status for a particular feature.
- Support, which is filled out by the implementer and specifies the characteristics of the feature in the implementation.
- Comment, which contains additional information provided by the implementer.

7.4 General ICS

In a top-level general ICS, the implementer specifies versions/revisions that are supported by the implementation as well as by a conformance level.

Table 6—General conformance requirements

Index	Feature	Reference	Status	Support	Comment
GEN-1	Implementation Description	—	Identification of the device/application. Description of the functionality.		
GEN-2	Standard Document Revision	Standard document.	Identification of the supported revisions to IEEE Std 11073-10103.	Set of supported revisions to IEEE Std 11073-10103.	
GEN-3	Conformance Adherence - Level 1 -	—	Base conformance declaration that device/application meets the IEEE 11073-10103 mandatory conformance requirements.		
GEN-4	Conformance Adherence - Level 2 -	—	In addition to GEN-3 declaration that device/application meets the IEEE 11073-10103 optional conformance requirements.		

7.5 Mandatory ICS

In the Mandatory ICS, the implementer specifies that the implementation supports the normative conformance requirements of the standard.

Table 7—Mandatory conformance requirements

Index	Feature	Reference	Status	Support	Comment
REQ-1	Identification	—	-Mandatory- Does the implementation have strict adherence to the IEEE 11073-10103 constraints for unique reference identifier?	Yes/No (No implies non-conformant)	
REQ-2	Coding	—	-Mandatory- Does the implementation have strict adherence to the IEEE 11073-10103 constraints for term codes?	Yes/No (No implies non-conformant)	
REQ-3	Attributes	—	-Mandatory- Does the implementation have strict adherence to the IEEE 11073-10103 constraints for term attributes data type, data format, and unit of measure?	Yes/No (No implies non-conformant)	
REQ-4	Enumerations	—	-Mandatory- Does the implementation have strict adherence to the IEEE 11073-10103 constraints for general term enumeration?	Yes/No (No implies non-conformant)	
REQ-5	Semantics	—	-Mandatory- Does the implementation have strict adherence to the IEEE 11073-10103 constraints for term semantics (definition)?	Yes/No (No implies non-conformant)	

7.6 Optional ICS

In the Optional ICS, the implementer specifies that the implementation supports the informative conformance requirements of the standard.

Table 8—Optional conformance requirements

Index	Feature	Reference	Status	Support	Comment
OPT-1	Vendor enumeration	—	-Optional- Does the implementation have strict adherence to the IEEE 11073-10103 informative constraints for vendor enumerations?	Yes/No (No implies non-Level II conformance)	
OPT-2	Co-constraints	—	-Optional- Does the implementation have strict adherence to the IEEE 11073-10103 informative co-constraints for primary key, optionality, cardinality, and co-constraint rules?	Yes/No (No implies non-Level II conformance)	

8. Extensibility/versioning

Normative specifications for term identifiers in this standard are immutable. Identifiers will never be retired or reused.

All other constraints and text within the standard can be revised. The standard will carry a version number that specifies a revision. Modifications to the standard's text clauses or existing term constraints, or the addition of new text clauses or terms will incur a revision and new version number.

The version identifier will be a string that will consist of the following:

— The major version number—This is the leftmost integer value in a sequence of three such values separated by periods. The major version number will only be increased when beginning work toward a version with significant changes that impact backward compatibility.

— The minor version number—This is the middle integer value in a sequence of three such values separated by periods. The minor version number will be increased when beginning work toward a version with incremental additions, improvements, or fixes over the last version.

— The point version number—This is the third integer in a sequence of three such values separated by periods. The point version number is increased for vendor-specific versions. Point or vendor-specific versions are not normative. If used, then it should be followed by version qualifier string described below. The point version numbers will always be "0" for the balloted normative standard.

— The version qualifier string—This is a human readable string (ideally consisting only of ASCII letters, digits, periods, and dashes) that uniquely identifies the vendor making a point revision. It should be and is only included in the version identifier for point versions. It should be consistent for subsequent point releases by the same vendor. Point or vendor versions are not considered normative.

An example version number could be "1.02.03_vendor" where "1" is the major version number, "02" is the minor version number, "03" is the point version number, and "_vendor" is the version qualifier string.

Annex A

(normative)

Base terms

A.1 Overview

This annex presents the base terms of the nomenclature and their attributes. A base term is defined as a term prior to expansion of any included discriminators. Defining attributes at the base term level simplifies management of the nomenclature. This nomenclature defines the discrete terms necessary to convey a clinically relevant summary of the information obtained during an implantable cardiac device interrogation. Due to the specialized nature of implantable cardiac device attributes and intercardial observations, a separate, distinct, and standalone partition within the existing ISO/IEEE 11073-10101:2004 was created.

This standard also presents the containment nodes used to group-related terms. The containment nodes aggregate terms into sets with a related clinical semantic. Containment nodes are shaded gray and have a Type of “GROUP.”

A.2 Version

All terms are version 1.0.0 for this initial release of the nomenclature.

A.3 Base term attributes

A.3.1 Reference identifier

The reference identifier or reference ID is a text token that uniquely identifies each term of the nomenclature. All base term and containment nodes reference identifiers are prepended with the text token “MDC_IDC_”.

Reference identifiers may contain discriminators (see Clause 6). A table of discriminators is listed at the end of this annex.

A.3.2 Display name

The display name is a text phrase that describes a term and is suited for presenting terms on a report or user interface.

A.3.3 Definition

The definition is a formal statement that describes the meaning or semantic of the term.

A.3.4 Type

The data type of the base term.

The following data types are used for base terms.

— Date time—Specifies a point in time using a 24-hour clock notation.

— Enum (Enumerated)—Specifies a string whose value is of a defined set of string values. Lists of allowed values for enumerated terms are listed in Annex C.

— Numeric—Specifies a number represented as a series of ASCII numeric characters consisting of an optional leading sign (+ or –), the digits, and an optional decimal point.

— String—Specifies a set of any displayable ASCII characters except the defined control characters. Strings are left justified with trailing blanks optional.

For containment nodes, the data type is always GROUP.

A.3.5 Format

The data format for a specific data type. The following two types of data formats are specified.

— String length—This is specified as a standalone integer and signifies the maximum length of a string value.

— Numeric format—This is specified as F*n.d* where *n* is an integer representing the maximum number of digits allowed before the decimal place and *d* is an integer representing the maximum number of digits allowed after the decimal place.

A.3.6 Unit of measure

The standard unit or system of units by means which a term quantity is accounted for or expressed. The units of measure used are shown in Table A.1.

Table A.1—Units of measure

Unit_of_Measure	Symbol	Description
Percent	%	Standard UCUM
Volts	V	Standard UCUM
Millivolts	mV	Standard UCUM
Ohms	Ohm	Standard UCUM
Joules	J	Standard UCUM
Minutes	min	Standard UCUM
Milliseconds	ms	Standard UCUM
Seconds	s	Standard UCUM
Hours	h	Standard UCUM
Months	mo	Standard UCUM
Sequences	{seq}	Number of sequences.
Shocks	{shocks}	Number of therapy shocks.
Mode switches	{switches}	Number of mode switches.
Heartbeats	{beats}	Number of heartbeats.
Heartbeats per minute	{beats}/min	Number of heartbeats per minute.

A.3.7 Enumerator identifier

The enumerator identifier that refers to a set of enumerations for a term of the type enumerator. Tables that list enumerations for specific enumerator identifiers are listed later in this document.

A.4 Partition details

ISO/IEEE 11073-10101:2004 has been assigned a 32-bit code space that contains multiple partitions. This standard is the 11th partition from the ISO/IEEE 11073-10101 codes space with a partition size of 65,536 values. Multiplying the 64K partition size by the partition number results in the partition beginning at the offset value 720,896 and ends at 786,432. This code space has been subpartitioned into sections for terminology, enumerations, and vendor-specific extensions. The first half of the partition is used for normative terms, the next quarter for normative enumerations, and the last quarter for vendor-specific extensions. The current vendor-specific subpartition supports up to 16 vendors with each vendor having 1024 codes. Specific term and enumeration code values are presented in Annex B through Annex D.

A.5 Table of base terms

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
DEV	Implantable cardiac device	The group of cardiac device attributes.	GROUP	—	—	—	—	—	1..1	—
DEV _TYPE	Implantable cardiac device type	The type of cardiac device.	Enum	N/A	—	ENUM _DEV _TYPE	—	R	—	—
DEV _MODEL	Implantable cardiac device model	The model identifier of a cardiac device.	String	50	—	—	Y	R	—	—
DEV _SERIAL	Implantable cardiac device serial number	The serial number of a cardiac device.	String	40	—	—	Y	R	—	—
DEV _MFG	Implantable cardiac device manufacturer	The manufacturer of the cardiac device.	Enum	N/A	—	ENUM _MFG	Y	R	—	—
DEV _IMPLANT _DT	Implantable cardiac device implant date	The implant date of the cardiac device.	DateTime	N/A	—	—	—	—	—	—
DEV _IMPLANTER	Implantable cardiac device implanter	The name of the physician that implanted the cardiac device.	String	50	—	—	—	—	—	—
DEV _IMPLANTER _CONTACT _INFO	Implantable cardiac device implanter contact information	The contact information of the physician that implanted the cardiac device.	String	100	—	—	—	—	—	—
DEV _IMPLANTING _FACILITY	Implantable cardiac device implanting facility	The facility (clinic/hospital) where the cardiac device was implanted.	String	100	—	—	—	—	—	—
LEAD	Implantable lead attributes	The group of lead attributes.	GROUP	—	—	—	—	—	0..N	—
LEAD _MODEL	Implantable lead model	The model of the lead.	String	50	—	—	Y	RE	—	—
LEAD _SERIAL	Implantable lead serial number	The serial number of the lead.	String	40	—	—	Y	RE	—	—
LEAD _MFG	Implantable lead manufacturer	The manufacturer of the lead.	Enum	N/A	—	ENUM _MFG	Y	RE	—	—
LEAD _IMPLANT _DT	Implantable lead implant date	The implant date of the lead.	DateTime	N/A	—	—	—	—	—	—
LEAD _POLARITY _TYPE	Implantable lead polarity type	The number of electrodes on the lead.	Enum	N/A	—	ENUM _LEAD _POLARITY _TYPE	—	—	—	—
LEAD _LOCATION	Implantable lead location	The fixation location of the lead, usually indicating a chamber of the heart.	Enum	N/A	—	ENUM _LEAD _LOCATION _CHAMBER	—	—	—	—
LEAD _LOCATION _DETAIL _1	Implantable lead location detail 1	The first word of a combination of words describing further details of the location.	Enum	N/A	—	ENUM _LEAD _LOCATION _DETAIL	—	—	—	—
LEAD _LOCATION _DETAIL _2	Implantable lead location detail 2	The second word of a combination of words describing further details of the location.	Enum	N/A	—	ENUM _LEAD _LOCATION _DETAIL	—	—	—	—
LEAD _LOCATION _DETAIL _3	Implantable lead location detail 3	The third word of a combination of words describing further details of the location.	Enum	N/A	—	ENUM _LEAD _LOCATION _DETAIL	—	—	—	—
LEAD _CONNECTION _STATUS	Implantable lead connection status	The physical connection status of the lead, either connected or abandoned.	Enum	N/A	—	ENUM _LEAD _STATUS	—	—	—	—
LEAD _SPECIAL _FUNCTION	Implantable lead special function	A description of any special attribute or function of the lead.	String	20	—	—	—	—	—	—
SESS	Interrogation session	The group of session attributes.	GROUP	-	—	—	—	—	1..1	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
SESS _DTM	Date time interrogation session	The date and time of the in-clinic or remote interrogation session.	DateTime	N/A	—	—	—	R	—	—
SESS _TYPE	Type interrogation session	The type of device interaction that generated the current data set.	Enum	N/A	—	ENUM _SESS _TYPE	—	R	—	—
SESS _REPROGRAMMED	Reprogrammed during session	The indication of whether the device was re-programmed during the session.	Enum	N/A	—	ENUM _SESS _REPROGRAMMED	—	—	—	—
SESS _DTM _PREVIOUS	Date time previous interrogation session	The date and time of a previous in-clinic or remote interrogation.	DateTime	N/A	—	—	—	—	—	—
SESS _TYPE _PREVIOUS	Type previous interrogation session	The type of device interaction of the previous interrogation.	Enum	N/A	—	ENUM _SESS _TYPE	—	—	—	—
SESS _REPROGRAMMED _PREVIOUS	Re-programmed during previous session	The indication of whether the device was reprogrammed along with the previous interrogation.	Enum	N/A	—	ENUM _SESS _REPROGRAMMED	—	—	—	—
SESS _CLINICIAN _NAME	Clinician name	The name of the clinician that is responsible for the examination.	String	50	—	—	—	—	—	—
SESS _CLINICIAN _CONTACT _INFORMATION	Clinician contact information	The contact information for the responsible clinician.	String	100	—	—	—	—	—	—
SESS _CLINIC _NAME	Clinic name	The name of the clinic where the examination took place.	String	50	—	—	—	—	—	—
MSMT	Measurements	The group of measurement attributes.	GROUP	-	—	—	—	—	0..1	—
MSMT _DTM _[STRTEND]	Measurement date time	The date and time of a discrete or a group of measurements.	DateTime	N/A	—	—	—	—	—	—
MSMT _BATTERY	Battery measurements	The group of battery measurement attributes.	GROUP	-	—	—	—	—	0..N	—
MSMT _BATTERY _DTM	Battery date time of measurements	The date and time of the battery measurements.	DateTime	N/A	—	—	—	—	—	—
MSMT _BATTERY _STATUS	Battery status	The different stages of battery depletion.	Enum	N/A	—	ENUM _BATTERY _STATUS	—	—	—	—
MSMT _BATTERY _VOLTAGE	Battery voltage	The measured battery voltage.	Numeric	F6.2	V	—	—	—	—	—
MSMT _BATTERY _IMPEDANCE	Battery impedance	The measured battery impedance.	Numeric	F6.0	Ohm	—	—	—	—	—
MSMT _BATTERY _REMAINING _LONGEVITY	Battery remaining longevity	The estimated amount of battery capacity remaining in months.	Numeric	F6.0	mo	—	—	—	—	—
MSMT _BATTERY _REMAINING _PERCENTAGE	Battery remaining percentage	The estimated amount of battery capacity remaining in percent.	Numeric	F3.1	%	—	—	—	—	—
MSMT _BATTERY _RRT _TRIGGER	Battery RRT Trigger	The criteria for determining battery end of service condition.	String	50	—	—	—	—	—	—
MSMT _CAP	Capacitor measurements	The group of capacitor measurement attributes.	GROUP	-	—	—	—	—	0..N	—
MSMT _CAP _CHARGE _DTM	Capacitor last charge date time	The date and time of the capacitor charge.	DateTime	N/A	—	—	—	—	—	—
MSMT _CAP _CHARGE _TIME	Capacitor charge time	The duration in seconds of the capacitor charge.	Numeric	F6.1	s	—	—	—	—	—
MSMT _CAP _CHARGE _ENERGY	Capacitor charge energy	The amount of energy stored after the capacitor charge.	Numeric	F4.0	J	—	—	—	—	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
MSMT _CAP _CHARGE _TYPE	Capacitor charge type	The type of the capacitor charge.	Enum	N/A	—	ENUM _CHARGE _TYPE	—	—	—	—
MSMT _LEADCHNL _[CHAMBER]	Lead channel measurements	The group of measurement attributes per a given chamber.	GROUP	—	—	—	—	—	0..1	—
MSMT _LEADCHNL _[CHAMBER] _DTM _[STRTEND]	Lead channel measurements date and time	The date and time of the lead channel measurements.	DateTime	N/A	—	—	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _LEAD _CHANNEL _STATUS	Lead channel status	The indication whether to check the lead.	Enum	N/A	—	ENUM _CHANNEL _STATUS	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _SENSING	Lead channel sensing measurements	The group of sensing measurement attributes per a given chamber.	GROUP	—	—	—	—	—	0..1	—
MSMT _LEADCHNL _[CHAMBER] _SENSING _INTR _AMPL _[MMM]	Lead channel sensing intrinsic amplitude	The measured amplitude of the intrinsic cardiac signal.	Numeric	F3.2	mV	—	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _SENSING _POLARITY	Lead channel sensing polarity	The type of polarity used for the intrinsic amplitude measurement.	Enum	N/A	—	ENUM _POLARITY	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _PACING _THRESHOLD	Lead channel pacing threshold measurements	The group of pacing threshold measurement attributes per a given chamber.	GROUP	—	—	—	—	—	0..1	—
MSMT _LEADCHNL _[CHAMBER] _PACING _THRESHOLD _AMPLITUDE	Lead channel pacing threshold amplitude	The minimum pulse amplitude needed for pacing capture for a given pulse width.	Numeric	F3.3	V	—	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _PACING _THRESHOLD _PULSEWIDTH	Lead channel pacing threshold pulse width	The pulse width that was applied when determining the pacing threshold amplitude.	Numeric	F3.2	ms	—	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _PACING _THRESHOLD _MEASUREMENT _METHOD	Lead channel pacing threshold measurement method	The method that was used to obtain the pacing threshold.	Enum	N/A	—	ENUM _MEASUREMENT _METHOD	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _PACING _THRESHOLD _POLARITY	Lead channel pacing threshold polarity	The type of lead polarity that was used for the pacing threshold measurement.	Enum	N/A	—	ENUM _POLARITY	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _IMPEDANCE	Lead channel impedance measurements	The group of impedance measurement attributes per a given chamber.	GROUP	—	—	—	—	—	0..1	—
MSMT _LEADCHNL _[CHAMBER] _IMPEDANCE _VALUE	Lead channel impedance value	The sum of the impedances of the lead wires and the electrode-myocardial interface.	Numeric	F6.0	Ohm	—	—	—	—	—
MSMT _LEADCHNL _[CHAMBER] _IMPEDANCE _POLARITY	Lead channel impedance polarity	The type of lead polarity used for measuring the lead impedance.	Enum	N/A	—	ENUM _POLARITY	—	—	—	—
MSMT _LEADHVCHNL	Lead high-voltage channel measurements	The group of high-voltage channel measurement attributes.	GROUP	—	—	—	—	—	0..N	—
MSMT _LEADHVCHNL _DTM _[STRTEND]	Lead high-voltage channel date time	The date and time of the high-voltage lead channel measurements.	DateTime	N/A	—	—	—	—	—	—
MSMT _LEADHVCHNL _IMPEDANCE	Lead high-voltage channel impedance	The sum of the impedances of the shock lead wires and the electrode-myocardial interface.	Numeric	F6.0	Ohm	—	—	—	—	—
MSMT _LEADHVCHNL _MEASUREMENT _TYPE	Lead high-voltage channel measurement type	The electric pulse type used for measuring the shock lead impedance.	Enum	N/A	—	ENUM _HVCHNL _MEASUREMENT _TYPE	—	—	—	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
MSMT _LEADHVCHNL _STATUS	Lead high-voltage channel status	The indication whether to check the high-voltage lead.	Enum	N/A	—	ENUM _CHANNEL _STATUS	—	—	—	—
SET	Settings	The group of settings.	GROUP	—	—	—	—	—	0..1	—
SET _CRT	CRT settings	The group of CRT settings.	GROUP	—	—	—	—	—	0..1	—
SET _CRT _LVRV _DELAY	CRT LV-RV delay	The time between the LV and RV pacing pulses (positive values indicate LV is first).	Numeric	F4.0	ms	—	—	—	—	—
SET _CRT _PACED _CHAMBERS	Ventricular chambers paced during CRT pacing.	The ventricular chambers paced during CRT pacing.	Enum	N/A	—	ENUM _CRT _PACED _CHAMBERS	—	—	—	—
SET _MAGNET	Magnet settings	The group of magnet settings.	GROUP	—	—	—	—	—	0..1	—
SET _MAGNET _RESP	Magnet response	A description of how the device responds to a magnet.	String	100	—	—	—	—	—	—
SET _LEADCHNL _[CHAMBER]	Lead channel settings	The group of settings per a given chamber.	GROUP	—	—	—	—	—	0..1	—
SET _LEADCHNL _[CHAMBER] _SENSING	Lead channel settings sensing	The group of sensing settings per a given chamber.	GROUP	—	—	—	—	—	0..1	—
SET _LEADCHNL _[CHAMBER] _SENSING _SENSITIVITY	Lead channel setting sensing sensitivity	The smallest electrical signal programmed to be detected by the device's sensing circuitry.	Numeric	F3.2	mV	—	—	—	—	—
SET _LEADCHNL _[CHAMBER] _SENSING _POLARITY	Lead channel setting sensing polarity	The indication of unipolar or bipolar configuration for sensing.	Enum	N/A	—	ENUM _POLARITY	—	—	—	—
SET _LEADCHNL _[CHAMBER] _SENSING _ANODE _LOCATION _[1..3]	Lead channel setting sensing anode location	The location of the electrodes that define the sensing vector's anode, noting that sensing is polarity neutral. An anode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _LOCATION	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _SENSING _ANODE _ELECTRODE _[1..3]	Lead channel setting sensing anode terminal	The type of the electrodes that define the sensing vector's anode, noting that sensing is polarity neutral. An anode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _NAME	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _SENSING _CATHODE _LOCATION _[1..3]	Lead channel setting sensing cathode location	The location of the electrodes that define the sensing vector's cathode, noting that sensing is polarity neutral. A cathode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _LOCATION	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _SENSING _CATHODE _ELECTRODE _[1..3]	Lead channel setting sensing cathode terminal	The type of the electrodes that define the sensing vector's cathode, noting that sensing is polarity neutral. A cathode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _NAME	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _SENSING _ADAPTATION _MODE	Lead channel setting sensing adaptation mode	Specifies whether the sensitivity is fixed or adapting.	Enum	N/A	—	ENUM _SENSING _ADAPTATION _MODE	—	—	—	—
SET _LEADCHNL _[CHAMBER] _PACING	Lead channel settings pacing	The group of pacing settings per a given chamber.	GROUP	—	—	—	—	—	0..1	—
SET _LEADCHNL _[CHAMBER] _PACING _AMPLITUDE	Lead channel setting pacing amplitude	The pacing output amplitude.	Numeric	F3.3	V	—	—	—	—	—
SET _LEADCHNL _[CHAMBER] _PACING _PULSEWIDTH	Lead channel setting pacing pulse width	The pacing output pulse width.	Numeric	F3.2	ms	—	—	—	—	—
SET _LEADCHNL _[CHAMBER] _PACING _POLARITY	Lead channel setting pacing polarity	The indication of unipolar or bipolar configuration for pacing.	Enum	N/A	—	ENUM _POLARITY	—	—	—	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
SET _LEADCHNL _[CHAMBER] _PACING _ANODE _LOCATION _[1..3]	Lead channel setting pacing anode location	The location of the electrodes that define the pacing vector's anode. An anode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _LOCATION	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _PACING _ANODE _ELECTRODE _[1..3]	Lead channel setting pacing anode terminal	The type of the electrodes that define the pacing vector's anode. An anode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _NAME	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _PACING _CATHODE _LOCATION _[1..3]	Lead channel setting pacing cathode location	The location of the electrodes that define the pacing vector's cathode. A cathode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _LOCATION	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _PACING _CATHODE _ELECTRODE _[1..3]	Lead channel setting pacing cathode terminal	The type of the electrodes that define the pacing vector's cathode. A cathode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _NAME	—	—	—	CC1
SET _LEADCHNL _[CHAMBER] _PACING _CAPTURE _MODE	Lead channel setting pacing capture mode	The method the device uses for managing pacing capture.	Enum	N/A	—	ENUM _PACING _CAPTURE _MODE	—	—	—	—
SET _LEADHVCHNL	Lead high-voltage channel setting	The group of high-voltage settings.	GROUP	—	—	—	—	—	0..1	—
SET _LEADHVCHNL _SHOCK _VECTOR	Lead high-voltage channel setting shock vector	The group of high-voltage shock vector settings.	GROUP	—	—	—	—	—	0..1	—
SET _LEADHVCHNL _SHOCK _VECTOR _ANODE _LOCATION _[1..3]	Lead high-voltage channel setting shock vector anode location	The location of the anode electrode that defines the shocking vector for the lead. An anode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _LOCATION	—	—	—	CC1
SET _LEADHVCHNL _SHOCK _VECTOR _ANODE _ELECTRODE _[1..3]	Lead high-voltage channel setting shock vector anode terminal	The anode electrode terminal that defines the shocking vector for the lead. An anode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _NAME	—	—	—	CC1
SET _LEADHVCHNL _SHOCK _VECTOR _CATHODE _LOCATION _[1..3]	Lead high-voltage channel setting shock vector cathode location	The location of the cathode electrode that defines the shocking vector for the lead. A cathode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _LOCATION	—	—	—	CC1
SET _LEADHVCHNL _SHOCK _VECTOR _CATHODE _ELECTRODE _[1..3]	Lead high-voltage channel setting shock vector cathode terminal	The cathode electrode terminal that defines the shocking vector for the lead. A cathode may consist of more than one electrode.	Enum	N/A	—	ENUM _ELECTRODE _NAME	—	—	—	CC1
SET _BRADY	Brady settings	The group of brady therapy settings.	GROUP	—	—	—	—	—	0..1	—
SET _BRADY _MODE	Brady setting mode (NBG code)	The brady pacing mode according to the NBG standard.	Enum	N/A	—	ENUM _BRADY _MODE	—	—	—	—
SET _BRADY _VENDOR _MODE	Brady setting mode (vendor specific)	The brady pacing mode as defined by vendor-specific codes.	String	20	—	—	—	—	—	—
SET _BRADY _LOWRATE	Brady setting lower rate limit	The rate at which the device paces in the absence of a cardiac rhythm faster than the lower rate and without influence from features that can affect the pacing rate.	Numeric	F3.0	{beats}/min	—	—	—	—	—
SET _BRADY _HYSTRATE	Brady setting hysteresis rate	The lower rate for the hysteresis feature.	Numeric	F3.0	{beats}/min	—	—	—	—	—
SET _BRADY _NIGHT _RATE	Brady setting night rate	The lower rate for the night rate feature.	Numeric	F3.0	{beats}/min	—	—	—	—	—
SET _BRADY _SENSOR _TYPE	Brady setting sensor type	The type of sensor applied for rate adaptive pacing.	String	20	—	—	—	—	—	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
SET _BRADY _MAX _TRACKING _RATE	Brady setting maximum tracking rate	The fastest atrial rate at which ventricular pacing occurs with 1:1 synchrony.	Numeric	F3.0	{beats}/min	—	—	—	—	—
SET _BRADY _MAX _SENSOR _RATE	Brady setting maximum sensor rate	The fastest sensor-driven pacing rate that can be achieved in a rate-adaptive pacing system.	Numeric	F3.0	{beats}/min	—	—	—	—	—
SET _BRADY _SAV _DELAY _[HIGHLOW]	Brady setting SAV delay	The interval from an intrinsic (sensed) P wave to a paced ventricular event.	Numeric	F4.0	ms	—	—	—	—	—
SET _BRADY _PAV _DELAY _[HIGHLOW]	Brady setting PAV delay	The interval from a paced atrial event to a paced ventricular event.	Numeric	F4.0	ms	—	—	—	—	—
SET _BRADY _AT _MODE _SWITCH _MODE	Brady setting AT mode switch mode	The atrial tachycardia mode switch mode.	Enum	N/A	—	ENUM _BRADY _MODE	—	—	—	—
SET _BRADY _AT _MODE _SWITCH _RATE	Brady setting AT mode switch rate	The atrial tachycardia mode switch rate.	Numeric	F3.0	{beats}/min	—	—	—	—	—
SET _TACHYTHERAPY	Tachy therapy settings	The group of high-level tachy therapy settings.	GROUP	—	—	—	—	—	0..1	—
SET _TACHYTHERAPY _VSTAT	Tachy therapy setting ventricular status	The high level programmed status for ventricular tachy therapies.	Enum	N/A	—	ENUM _THERAPY _STATUS	—	—	—	—
SET _TACHYTHERAPY _ASTAT	Tachy therapy setting atrial status	The high-level programmed status for atrial tachy therapies.	Enum	N/A	—	ENUM _THERAPY _STATUS	—	—	—	—
SET _ZONE	Zone settings	The group of zone settings.	GROUP	—	—	—	—	—	0..N	—
SET _ZONE _TYPE	Zone setting type category	The general type of the zone for tachy therapy detection.	Enum	N/A	—	ENUM _ZONE _TYPE	Y	RE	—	—
SET _ZONE _VENDOR _TYPE	Zone setting vendor type category	The vendor-specific type of the zone for tachy therapy detection.	Enum	N/A	—	ENUM _ZONE _VENDOR _TYPE	Y	RE	—	—
SET _ZONE _STATUS	Zone setting status	The status of the zone, whether it is active or not.	Enum	N/A	—	ENUM _ZONE _STATUS	—	—	—	—
SET _ZONE _DETECTION _INTERVAL	Zone setting detection interval	The upper interval limit of the zone for tachy therapy detection.	Numeric	F4.0	ms	—	—	—	—	—
SET _ZONE _DETECTION _BEATS _NUMERATOR	Zone setting detection beats numerator	The numerator portion of the tachy detection ratio.	Numeric	F3.0	{beats}	—	—	—	—	CC2
SET _ZONE _DETECTION _BEATS _DENOMINATOR	Zone setting detection beats denominator	The denominator portion of the tachy detection ratio.	Numeric	F3.0	{beats}	—	—	—	—	CC2
SET _ZONE _DETECTION _DETAILS	Zone setting detection details	A text describing arrhythmia detection details.	String	50	—	—	—	—	—	—
SET _ZONE _TYPE _ATP _[1..10]	Zone setting ATP type	The type of antitachycardia pacing (ATP) sequences programmed per ATP type.	Enum	N/A	—	ENUM _ATP _TYPE	—	—	—	CC3
SET _ZONE _NUM _ATP _SEQS _[1..10]	Zone setting number of ATP sequences	The number of ATP pulse sequences programmed per ATP type.	Numeric	F3.0	{seq}	—	—	—	—	CC3
SET _ZONE _SHOCK _ENERGY _[1..10]	Zone setting shock energy	The shock energy delivered at a particular sequence of a zone therapy.	Numeric	F4.1	J	—	—	—	—	CC4
SET _ZONE _NUM _SHOCKS _[1..10]	Zone Setting Number of Shocks	The maximum number of shocks set to be delivered at the given shock energy.	Numeric	F3.0	{shocks}	—	—	—	—	CC4
STAT	Statistics	The group of statistics.	GROUP	—	—	—	—	—	0..1	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
STAT _DTM _[STRTEND]	Statistic date time	The date and time period for the aggregated statistics.	DateTime	N/A	—	—	—	RE	—	—
STAT _HEART _RATE	Statistic heart rate	The group of heart rate statistics.	GROUP	—	—	—	—	—	0..1	—
STAT _HEART _RATE _DTM _[STRTEND]	Statistic heart rate date time	The date and time period for the heart rate statistics.	DateTime	N/A	—	—	—	RE	—	CC5
STAT _HEART _RATE _ATRIAL _[MMM]	Statistic atrial heart rate	The mean atrial heart rate over the specified time period.	Numeric	F3.0	{beats}/min	—	—	—	—	—
STAT _HEART _RATE _VENTRICULAR _[MMM]	Statistic ventricular heart rate	The mean ventricular heart rate over the specified time period.	Numeric	F3.0	{beats}/min	—	—	—	—	—
STAT _BRADY	Brady statistics	The group of brady statistics.	GROUP	—	—	—	—	—	0..1	—
STAT _BRADY _DTM _[STRTEND]	Brady statistic date time	The date time period of the brady statistics.	DateTime	N/A	—	—	—	RE	—	CC5
STAT _BRADY _RA _PERCENT _PACED	Brady statistic RA percent paced	The percentage of pacing events in the right atrial chamber over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _BRADY _RV _PERCENT _PACED	Brady statistic RV percent paced	The percentage of pacing events in the right ventricular chamber over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _BRADY _AP _VP _PERCENT	Brady statistic AP VP percent	The percentage of atrial pace–ventricular pace sequences in relationship to all AV sequences over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _BRADY _AS _VP _PERCENT	Brady statistic AS VP percent	The percentage of atrial sense–ventricular pace sequences in relationship to all AV sequences over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _BRADY _AP _VS _PERCENT	Brady statistic AP VS percent	The percentage of atrial pace–ventricular sense sequences in relationship to all AV sequences over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _BRADY _AS _VS _PERCENT	Brady statistic AS VS percent	The percentage of atrial sense–ventricular sense sequences in relationship to all AV sequences over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _AT	Atrial tachy statistics	The group of atrial tachyarrhythmia statistics.	GROUP	—	—	—	—	—	0..1	—
STAT _AT _DTM _[STRTEND]	Atrial tachy statistic date time	The date and time period for the AT statistics.	DateTime	N/A	—	—	—	RE	—	CC5
STAT _AT _MODE _SW _MAX _DURATION	Atrial tachy statistic maximum mode switch duration	The maximum contiguous time the device is in AT mode switch over the specified time period.	Numeric	F8.0	s	—	—	—	—	—
STAT _AT _BURDEN _PERCENT	Atrial tachy statistic AT/AF burden percent	The percent of time in AT AF per day over the specified time period.	Numeric	F3.0	%	—	—	—	—	—
STAT _AT _MODE _SW _PERCENT _TIME	Atrial tachy statistic percent time in mode switch	The percentage of time the device is in AT mode switch over the specified time period.	Numeric	F3.0	%	—	—	—	—	—
STAT _AT _MODE _SW _PERCENT _TIME _PER _DAY	Atrial tachy statistic percent time in mode switch per day	The percentage of time per day the device is in AT mode switch over the specified time period.	Numeric	F3.0	%	—	—	—	—	—
STAT _AT _MODE _SW _COUNT	Atrial tachy statistic number of mode switches	The number of mode switches over the specified time period.	Numeric	F8.0	{switches}	—	—	—	—	—
STAT _AT _MODE _SW _COUNT _PER _DAY	Atrial tachy statistic number of mode switches per day	The average number of mode switches per day over the specified time period.	Numeric	F8.0	{switches}	—	—	—	—	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
STAT _CRT	CRT statistics	The group of CRT statistics.	GROUP	—	—	—	—	—	0..1	—
STAT _CRT _DTM _[STRTEND]	CRT statistic date time	The date and time period for the CRT statistics.	DateTime	N/A	—	—	—	RE	—	CC5
STAT _CRT _LV _PERCENT _PACED	CRT statistic LV percent paced	The percentage of LV pacing events in relation to all LV events over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _CRT _PERCENT _PACED	CRT statistic CRT percent paced	The percentage of LV pacing events due to CRT mode in relation to all ventricular events over the specified time period.	Numeric	F3.1	%	—	—	—	—	—
STAT _TACHYTHERAPY	Tachy therapy statistics	The group of tachy therapy statistics.	GROUP	—	—	—	—	—	0..1	—
STAT _TACHYTHERAPY _SHOCKS _DELIVERED _RECENT	Tachy therapy statistic recent shocks delivered	The number of shocks applied over the specified time period.	Numeric	F5.0	{shocks}	—	—	—	—	—
STAT _TACHYTHERAPY _SHOCKS _DELIVERED _TOTAL	Tachy therapy statistic total shocks delivered	The total number of shocks applied since implantation or device reset.	Numeric	F5.0	{shocks}	—	—	—	—	—
STAT _TACHYTHERAPY _SHOCKS _ABORTED _RECENT	Tachy therapy statistic recent shocks aborted	The number of shocks aborted over the specified time period.	Numeric	F5.0	{shocks}	—	—	—	—	—
STAT _TACHYTHERAPY _SHOCKS _ABORTED _TOTAL	Tachy therapy statistic total shocks aborted	The total number of shocks aborted since implantation or device reset.	Numeric	F5.0	{shocks}	—	—	—	—	—
STAT _TACHYTHERAPY _ATP _DELIVERED _RECENT	Tachy therapy statistic recent ATP delivered	The number of ATP sequences delivered over the specified time period.	Numeric	F6.0	{seq}	—	—	—	—	—
STAT _TACHYTHERAPY _ATP _DELIVERED _TOTAL	Tachy therapy statistic total ATP delivered	The total number of ATP sequences delivered since implantation or device reset.	Numeric	F6.0	{seq}	—	—	—	—	—
STAT _TACHYTHERAPY _TOTAL _DTM _[STRTEND]	Tachy therapy statistic total date time	The date and time period for the total tachy therapy statistics.	DateTime	N/A	—	—	—	—	—	—
STAT _TACHYTHERAPY _RECENT _DTM _[STRTEND]	Tachy therapy statistic recent date time	The date and time period for the recent tachy therapy statistics.	DateTime	N/A	—	—	—	RE	—	CC5
STAT _EPISODE	Episode statistics	The group of episode statistics.	GROUP	—	—	—	—	—	0..N	—
STAT _EPISODE _TYPE	Episode statistic type category	The generic type of the episode being reported.	Enum	N/A	—	ENUM _EPISODE _TYPE	Y	RE	—	—
STAT _EPISODE _TYPE _INDUCED	Episode statistic type induced	The indication of whether the episode has been induced or not.	Enum	N/A	—	ENUM _EPISODE _TYPE _INDUCED	—	—	—	—
STAT _EPISODE _VENDOR _TYPE	Episode statistic vendor type category	The vendor type of the episode being reported.	Enum	N/A	—	ENUM _EPISODE _VENDOR _TYPE	Y	RE	—	—
STAT _EPISODE _RECENT _COUNT	Episode statistic recent count	The number of episodes per episode type over the specified time period.	Numeric	F7.0	—	—	—	—	—	—
STAT _EPISODE _RECENT _COUNT _DTM _[STRTEND]	Episode statistic recent date time	The date and time period for the recent episode counts.	DateTime	N/A	—	—	—	RE	—	—
STAT _EPISODE _TOTAL _COUNT	Episode statistic total count	The number of episodes per episode type since implantation or device reset.	Numeric	F7.0	—	—	—	—	—	—
STAT _EPISODE _TOTAL _COUNT _DTM _[STRTEND]	Episode statistic total date time	The date and time period for the total episode counts.	DateTime	N/A	—	—	—	—	—	—
EPISODE	Episode	The group of episodes.	GROUP	—	—	—	—	—	0..N	—

Table A.2—Base terms[a]

Reference ID Prepend **MDC_IDC_** (NOTE—Spaces are only included for readability improvements.[b])	Display name	Definition	Type	Format	Unit of measure	Enumerator ID Prepend **_MDC_IDC_** (NOTE—Spaces are only included for readability improvements.)	K	O	C	CC
EPISODE _ID	Episode identifier	The unique identifier for the episode.	String	100	—	—	Y	RE	—	—
EPISODE _DTM	Episode date time	The detection date and time of the episode.	DateTime	N/A	—	—	—	—	—	—
EPISODE _TYPE	Episode type category	The generic type of the episode being reported.	Enum	N/A	—	ENUM _EPISODE _TYPE	—	RE	—	—
EPISODE _TYPE _INDUCED	Episode type induced flag	The indication of whether the episode has been induced or not.	Enum	N/A	—	ENUM _EPISODE _TYPE _INDUCED	—	—	—	—
EPISODE _VENDOR _TYPE	Episode vendor type category	The vendor type of the episode being reported.	Enum	N/A	—	ENUM _EPISODE _VENDOR _TYPE	—	RE	—	—
EPISODE _ATRIAL _INTERVAL _AT _DETECTION	Episode detection interval atrial	The atrial interval at the time of detection.	Numeric	F4.0	ms	—	—	—	—	—
EPISODE _ATRIAL _INTERVAL _AT _TERMINATION	Episode termination interval atrial	The atrial interval at the time of termination.	Numeric	F4.0	ms	—	—	—	—	—
EPISODE _VENTRICULAR _INTERVAL _AT _DETECTION	Episode detection interval ventricular	The ventricular interval at the time of detection.	Numeric	F4.0	ms	—	—	—	—	—
EPISODE _VENTRICULAR _INTERVAL _AT _TERMINATION	Episode termination interval ventricular	The ventricular interval at the time of termination.	Numeric	F4.0	ms	—	—	—	—	—
EPISODE _DETECTION _THERAPY _DETAILS	Episode detection and therapy details	A text describing details about the detection and therapy delivered.	String	100	—	—	—	—	—	—
EPISODE _THERAPY _RESULT	Episode therapy result	The indicator of therapy success.	Enum	N/A	—	ENUM _EPISODE _THERAPY _RESULT	—	—	—	—
EPISODE _DURATION	Episode duration	The duration of the episode in seconds.	Numeric	F8.0	s	—	—	—	—	—

[a]Columns K (primary key), O (optionality), C (cardinality), and CC (co-constraint) are informative properties and are described in detail in Annex B.
[b]Notes in text, tables, and figures of a standard are given for information only and do not contain requirements needed to implement this standard.

A.6 Table of discriminators

Table A.3—Discriminators

ID	Discriminator	Bits	# Identifier	Values	Description	Offset
MDC_IDC_DISC_CHAMBER	CHAMBER	3	1	RA	Right atrial	0
			1	RV	Right ventricle	1
			1	LA	Left atrial	2
			1	LV	Left ventricle	3
			1	MIXED	Multiple chambers	4
MDC_IDC_DISC_MMM	MMM	2	2	MIN	Minimum	0
			2	MAX	Maximum	1
			2	MEAN	Mean	2
MDC_IDC_DISC_HIGHLOW	HIGHLOW	2	3	HIGH	High	0
			3	LOW	Low	1
MDC_IDC_DISC_1_10	1..10	4	4	1	First instance of ten	0
			4	2	Second instance of ten	1
			4	3	Third instance of ten	2
			4	4	Fourth instance of ten	3
			4	5	Fifth instance of ten	4
			4	6	Sixth instance of ten	5
			4	7	Seventh instance of ten	6
			4	8	Eighth instance of ten	7
			4	9	Ninth instance of ten	8
			4	10	Tenth instance of ten	9
MDC_IDC_DISC_1_3	1..3	3	5	1	First instance of three	0
			5	2	Second instance of three	1
			5	3	Third instance of three	2
MDC_IDC_DISC_STRTEND	STRTEND	4	6	START	Start date	0
			6	END	End date	1

Annex B

(informative)

Base terms additional properties

B.1 Overview

This annex describes additional informative properties as presented in Table A.2.

B.2 Primary key

The primary key is an informative co-constraint and specifies which terms comprise a primary key for the set of terms within a containment node. Terms that belong to a primary key have a "Y" in the primary key column.

B.3 O—Optionality

The optionality is an informative co-constraint and specifies whether a term is required within a containment node grouping. Values for optionality are as follows:

— R (Required)—Specifies that the term is required to be reported.

— RE (Required if Exists)—Specifies that the term is required if information is being reported for the containment node.

B.4 C—Cardinality

The cardinality is an informative co-constraint that specifies cardinality of containment nodes. Values for cardinality are formatted using classic data modeling techniques (Table B.1).

Table B.1—Cardinality Codes

Symbol	Meaning
0..1	Zero-to-one
0..N	Zero-to-many
1..1	One-to-one
1..N	One-to-many

B.5 CC—Co-constraint rules

The co-constraint rules are informative and are text clauses that describe additional co-constraints that cannot be represented using primary key, optionality, or cardinality (Table B.2). Co-constraint rules are listed at the end of Annex A.

B.5.1 Table of co-constraint rules

Table B.2—Table of co-constraint rules

Co-constraint-ID	Co-constraint requirement
CC1	Both location and terminal must be provided when ANODE or CATHODE are defined.
CC2	Detection numerator and denominator must be provided as a pair.
CC3	Type of ATPs and number of ATP sequences must be provided as a pair.
CC4	Shock energy and number of shocks must be provided as a pair.
CC5	A date time range must be provided for a statistical measurements.

Annex C

(normative)

Expanded terms with systematic name and codes

C.1 Overview

This annex presents the expanded terms with reference identifier, systematic name, and code attributes. Expanded terms are base terms with any discriminators expanded (Table C.1).

C.2 Expanded term attributes

C.2.1 Reference identifier

The reference identifier or reference ID is a text token that uniquely identifies each term of the nomenclature. See Clause 6 for a detailed description of how reference identifiers are constructed.

C.2.2 Systematic name

The systematic name is a set of natural language words or phrases presented in a hierarchical structure. This structure uniquely and semantically represents each term of the nomenclature. The systematic name is suited for language translation.

C.2.3 Code

A numeric token that uniquely identifies each term of the nomenclature.

C.3 Expanded terms with systematic name and codes (normative)

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_DEV_TYPE	type | cardiac device | idc | mdc	720897
MDC_IDC_DEV_MODEL	model | cardiac device | idc | mdc	720898
MDC_IDC_DEV_SERIAL	serial number | cardiac device | idc | mdc	720899
MDC_IDC_DEV_MFG	manufacturer | cardiac device | idc | mdc	720900
MDC_IDC_DEV_IMPLANT_DT	implant date | cardiac device | idc | mdc	720901
MDC_IDC_DEV_IMPLANTER	implanter | cardiac device | idc | mdc	720902
MDC_IDC_DEV_IMPLANTER_CONTACT_INFO	implanter contact information | cardiac device | idc | mdc	720903
MDC_IDC_DEV_IMPLANTING_FACILITY	implanting facility | cardiac device | idc | mdc	720904
MDC_IDC_LEAD_MODEL	model | lead | idc | mdc	720961
MDC_IDC_LEAD_SERIAL	serial number | lead | idc | mdc	720962
MDC_IDC_LEAD_MFG	manufacturer | lead | idc | mdc	720963
MDC_IDC_LEAD_IMPLANT_DT	implant date | lead | idc | mdc	720964
MDC_IDC_LEAD_POLARITY_TYPE	polarity type | lead | idc | mdc	720965
MDC_IDC_LEAD_LOCATION	location | lead | idc | mdc	720966
MDC_IDC_LEAD_LOCATION_DETAIL_1	detail 1 | location | lead | idc | mdc	720967
MDC_IDC_LEAD_LOCATION_DETAIL_2	detail 2 | location | lead | idc | mdc	720968
MDC_IDC_LEAD_LOCATION_DETAIL_3	detail 3 | location | lead | idc | mdc	720969
MDC_IDC_LEAD_CONNECTION_STATUS	connection status | lead | idc | mdc	720970
MDC_IDC_LEAD_SPECIAL_FUNCTION	special function | lead | idc | mdc	720971
MDC_IDC_SESS_DTM	date time | session | idc | mdc	721025
MDC_IDC_SESS_TYPE	type | session | idc | mdc	721026
MDC_IDC_SESS_REPROGRAMMED	reprogrammed | session | idc | mdc	721027
MDC_IDC_SESS_DTM_PREVIOUS	previous date time | session | idc | mdc	721028
MDC_IDC_SESS_TYPE_PREVIOUS	previous type | session | idc | mdc	721029
MDC_IDC_SESS_REPROGRAMMED_PREVIOUS	reprogrammed previous | session | idc | mdc	721030
MDC_IDC_SESS_CLINICIAN_NAME	clinician name | session | idc | mdc	721031
MDC_IDC_SESS_CLINICIAN_CONTACT_INFORMATION	clinician contact information | session | idc | mdc	721032
MDC_IDC_SESS_CLINIC_NAME	clinic name | session | idc | mdc	721033
MDC_IDC_MSMT_DTM	date time | measurement | idc | mdc	721152
MDC_IDC_MSMT_DTM_START	date time_start | measurement | idc | mdc	721153
MDC_IDC_MSMT_DTM_END	date time_end | measurement | idc | mdc	721154
MDC_IDC_MSMT_BATTERY_DTM	date time | battery | measurement | idc | mdc	721216
MDC_IDC_MSMT_BATTERY_STATUS	status | battery | measurement | idc | mdc	721280
MDC_IDC_MSMT_BATTERY_VOLTAGE	voltage | battery | measurement | idc | mdc	721344
MDC_IDC_MSMT_BATTERY_IMPEDANCE	impedance | battery | measurement | idc | mdc	721408
MDC_IDC_MSMT_BATTERY_REMAINING_LONGEVITY	remaining longevity | battery | measurement | idc | mdc	721472
MDC_IDC_MSMT_BATTERY_REMAINING_PERCENTAGE	remaining percentage | battery | measurement | idc | mdc	721536

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_MSMT_BATTERY_RRT_TRIGGER	recommended replacement time trigger | battery | measurement | idc | mdc	721600
MDC_IDC_MSMT_CAP_CHARGE_DTM	last charge date time | capacitor | measurement | idc | mdc	721664
MDC_IDC_MSMT_CAP_CHARGE_TIME	charge time | capacitor | measurement | idc | mdc	721728
MDC_IDC_MSMT_CAP_CHARGE_ENERGY	charge energy | capacitor | measurement | idc | mdc	721792
MDC_IDC_MSMT_CAP_CHARGE_TYPE	charge type | capacitor | measurement | idc | mdc	721856
MDC_IDC_MSMT_LEADCHNL_RA_DTM	date time | lead channel_ra | measurement | idc | mdc	721920
MDC_IDC_MSMT_LEADCHNL_RA_DTM_START	date time_start | lead channel_ra | measurement | idc | mdc	721921
MDC_IDC_MSMT_LEADCHNL_RA_DTM_END	date time_end | lead channel_ra | measurement | idc | mdc	721922
MDC_IDC_MSMT_LEADCHNL_RV_DTM	date time | lead channel_rv | measurement | idc | mdc	721924
MDC_IDC_MSMT_LEADCHNL_RV_DTM_START	date time_start | lead channel_rv | measurement | idc | mdc	721925
MDC_IDC_MSMT_LEADCHNL_RV_DTM_END	date time_end | lead channel_rv | measurement | idc | mdc	721926
MDC_IDC_MSMT_LEADCHNL_LA_DTM	date time | lead channel_la | measurement | idc | mdc	721928
MDC_IDC_MSMT_LEADCHNL_LA_DTM_START	date time_start | lead channel_la | measurement | idc | mdc	721929
MDC_IDC_MSMT_LEADCHNL_LA_DTM_END	date time_end | lead channel_la | measurement | idc | mdc	721930
MDC_IDC_MSMT_LEADCHNL_LV_DTM	date time | lead channel_lv | measurement | idc | mdc	721932
MDC_IDC_MSMT_LEADCHNL_LV_DTM_START	date time_start | lead channel_lv | measurement | idc | mdc	721933
MDC_IDC_MSMT_LEADCHNL_LV_DTM_END	date time_end | lead channel_lv | measurement | idc | mdc	721934
MDC_IDC_MSMT_LEADCHNL_MIXED_DTM	date time | lead channel_mixed | measurement | idc | mdc	721936
MDC_IDC_MSMT_LEADCHNL_MIXED_DTM_START	date time_start | lead channel_mixed | measurement | idc | mdc	721937
MDC_IDC_MSMT_LEADCHNL_MIXED_DTM_END	date time_end | lead channel_mixed | measurement | idc | mdc	721938
MDC_IDC_MSMT_LEADCHNL_RA_LEAD_CHANNEL_STATUS	lead channel status | lead channel_ra | measurement | idc | mdc	721984
MDC_IDC_MSMT_LEADCHNL_RV_LEAD_CHANNEL_STATUS	lead channel status | lead channel_rv | measurement | idc | mdc	721985
MDC_IDC_MSMT_LEADCHNL_LA_LEAD_CHANNEL_STATUS	lead channel status | lead channel_la | measurement | idc | mdc	721986
MDC_IDC_MSMT_LEADCHNL_LV_LEAD_CHANNEL_STATUS	lead channel status | lead channel_lv | measurement | idc | mdc	721987
MDC_IDC_MSMT_LEADCHNL_MIXED_LEAD_CHANNEL_STATUS	lead channel status | lead channel_mixed | measurement | idc | mdc	721988
MDC_IDC_MSMT_LEADCHNL_RA_SENSING_INTR_AMPL	sensing intrinsic amplitude | lead channel_ra | measurement | idc | mdc	722048
MDC_IDC_MSMT_LEADCHNL_RA_SENSING_INTR_AMPL_MAX	sensing intrinsic amplitude_max | lead channel_ra | measurement | idc | mdc	722049
MDC_IDC_MSMT_LEADCHNL_RA_SENSING_INTR_AMPL_MIN	sensing intrinsic amplitude_min | lead channel_ra | measurement | idc | mdc	722050
MDC_IDC_MSMT_LEADCHNL_RA_SENSING_INTR_AMPL_MEAN	sensing intrinsic amplitude_mean | lead channel_ra | measurement | idc | mdc	722051
MDC_IDC_MSMT_LEADCHNL_RV_SENSING_INTR_AMPL	sensing intrinsic amplitude | lead channel_rv | measurement | idc | mdc	722052
MDC_IDC_MSMT_LEADCHNL_RV_SENSING_INTR_AMPL_MAX	sensing intrinsic amplitude_max | lead channel_rv | measurement | idc | mdc	722053
MDC_IDC_MSMT_LEADCHNL_RV_SENSING_INTR_AMPL_MIN	sensing intrinsic amplitude_min | lead channel_rv | measurement | idc | mdc	722054
MDC_IDC_MSMT_LEADCHNL_RV_SENSING_INTR_AMPL_MEAN	sensing intrinsic amplitude_mean | lead channel_rv | measurement | idc | mdc	722055
MDC_IDC_MSMT_LEADCHNL_LA_SENSING_INTR_AMPL	sensing intrinsic amplitude | lead channel_la | measurement | idc | mdc	722056
MDC_IDC_MSMT_LEADCHNL_LA_SENSING_INTR_AMPL_MAX	sensing intrinsic amplitude_max | lead channel_la | measurement | idc | mdc	722057
MDC_IDC_MSMT_LEADCHNL_LA_SENSING_INTR_AMPL_MIN	sensing intrinsic amplitude_min | lead channel_la | measurement | idc | mdc	722058
MDC_IDC_MSMT_LEADCHNL_LA_SENSING_INTR_AMPL_MEAN	sensing intrinsic amplitude_mean | lead channel_la | measurement | idc | mdc	722059
MDC_IDC_MSMT_LEADCHNL_LV_SENSING_INTR_AMPL	sensing intrinsic amplitude | lead channel_lv | measurement | idc | mdc	722060
MDC_IDC_MSMT_LEADCHNL_LV_SENSING_INTR_AMPL_MAX	sensing intrinsic amplitude_max | lead channel_lv | measurement | idc | mdc	722061
MDC_IDC_MSMT_LEADCHNL_LV_SENSING_INTR_AMPL_MIN	sensing intrinsic amplitude_min | lead channel_lv | measurement | idc | mdc	722062

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_MSMT_LEADCHNL_LV_SENSING_INTR_AMPL_MEAN	sensing intrinsic amplitude_mean | lead channel_lv | measurement | idc | mdc	722063
MDC_IDC_MSMT_LEADCHNL_MIXED_SENSING_INTR_AMPL	sensing intrinsic amplitude | lead channel_mixed | measurement | idc | mdc	722064
MDC_IDC_MSMT_LEADCHNL_MIXED_SENSING_INTR_AMPL_MAX	sensing intrinsic amplitude_max | lead channel_mixed | measurement | idc | mdc	722065
MDC_IDC_MSMT_LEADCHNL_MIXED_SENSING_INTR_AMPL_MIN	sensing intrinsic amplitude_min | lead channel_mixed | measurement | idc | mdc	722066
MDC_IDC_MSMT_LEADCHNL_MIXED_SENSING_INTR_AMPL_MEAN	sensing intrinsic amplitude_mean | lead channel_mixed | measurement | idc | mdc	722067
MDC_IDC_MSMT_LEADCHNL_RA_SENSING_POLARITY	sensing polarity | lead channel_ra | measurement | idc | mdc	722112
MDC_IDC_MSMT_LEADCHNL_RV_SENSING_POLARITY	sensing polarity | lead channel_rv | measurement | idc | mdc	722113
MDC_IDC_MSMT_LEADCHNL_LA_SENSING_POLARITY	sensing polarity | lead channel_la | measurement | idc | mdc	722114
MDC_IDC_MSMT_LEADCHNL_LV_SENSING_POLARITY	sensing polarity | lead channel_lv | measurement | idc | mdc	722115
MDC_IDC_MSMT_LEADCHNL_MIXED_SENSING_POLARITY	sensing polarity | lead channel_mixed | measurement | idc | mdc	722116
MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_AMPLITUDE	amplitude | pacing threshold | lead channel_ra | measurement | idc | mdc	722176
MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_AMPLITUDE	amplitude | pacing threshold | lead channel_rv | measurement | idc | mdc	722177
MDC_IDC_MSMT_LEADCHNL_LA_PACING_THRESHOLD_AMPLITUDE	amplitude | pacing threshold | lead channel_la | measurement | idc | mdc	722178
MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_AMPLITUDE	amplitude | pacing threshold | lead channel_lv | measurement | idc | mdc	722179
MDC_IDC_MSMT_LEADCHNL_MIXED_PACING_THRESHOLD_AMPLITUDE	amplitude | pacing threshold | lead channel_mixed | measurement | idc | mdc	722180
MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_PULSEWIDTH	pulse width | pacing threshold | lead channel_ra | measurement | idc | mdc	722240
MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_PULSEWIDTH	pulse width | pacing threshold | lead channel_rv | measurement | idc | mdc	722241
MDC_IDC_MSMT_LEADCHNL_LA_PACING_THRESHOLD_PULSEWIDTH	pulse width | pacing threshold | lead channel_la | measurement | idc | mdc	722242
MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_PULSEWIDTH	pulse width | pacing threshold | lead channel_lv | measurement | idc | mdc	722243
MDC_IDC_MSMT_LEADCHNL_MIXED_PACING_THRESHOLD_PULSEWIDTH	pulse width | pacing threshold | lead channel_mixed | measurement | idc | mdc	722244
MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_MEASUREMENT_METHOD	measurement method | pacing threshold | lead channel_ra | measurement | idc | mdc	722304
MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_MEASUREMENT_METHOD	measurement method | pacing threshold | lead channel_rv | measurement | idc | mdc	722305
MDC_IDC_MSMT_LEADCHNL_LA_PACING_THRESHOLD_MEASUREMENT_METHOD	measurement method | pacing threshold | lead channel_la | measurement | idc | mdc	722306
MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_MEASUREMENT_METHOD	measurement method | pacing threshold | lead channel_lv | measurement | idc | mdc	722307
MDC_IDC_MSMT_LEADCHNL_MIXED_PACING_THRESHOLD_MEASUREMENT_METHOD	measurement method | pacing threshold | lead channel_mixed | measurement | idc | mdc	722308
MDC_IDC_MSMT_LEADCHNL_RA_PACING_THRESHOLD_POLARITY	polarity | pacing threshold | lead channel_ra | measurement | idc | mdc	722368
MDC_IDC_MSMT_LEADCHNL_RV_PACING_THRESHOLD_POLARITY	polarity | pacing threshold | lead channel_rv | measurement | idc | mdc	722369
MDC_IDC_MSMT_LEADCHNL_LA_PACING_THRESHOLD_POLARITY	polarity | pacing threshold | lead channel_la | measurement | idc | mdc	722370
MDC_IDC_MSMT_LEADCHNL_LV_PACING_THRESHOLD_POLARITY	polarity | pacing threshold | lead channel_lv | measurement | idc | mdc	722371
MDC_IDC_MSMT_LEADCHNL_MIXED_PACING_THRESHOLD_POLARITY	polarity | pacing threshold | lead channel_mixed | measurement | idc | mdc	722372
MDC_IDC_MSMT_LEADCHNL_RA_IMPEDANCE_VALUE	value | impedance | lead channel_ra | measurement | idc | mdc	722432
MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_VALUE	value | impedance | lead channel_rv | measurement | idc | mdc	722433
MDC_IDC_MSMT_LEADCHNL_LA_IMPEDANCE_VALUE	value | impedance | lead channel_la | measurement | idc | mdc	722434
MDC_IDC_MSMT_LEADCHNL_LV_IMPEDANCE_VALUE	value | impedance | lead channel_lv | measurement | idc | mdc	722435
MDC_IDC_MSMT_LEADCHNL_MIXED_IMPEDANCE_VALUE	value | impedance | lead channel_mixed | measurement | idc | mdc	722436

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_MSMT_LEADCHNL_RA_IMPEDANCE_POLARITY	polarity | impedance | lead channel_ra | measurement | idc | mdc	722496
MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_POLARITY	polarity | impedance | lead channel_rv | measurement | idc | mdc	722497
MDC_IDC_MSMT_LEADCHNL_LA_IMPEDANCE_POLARITY	polarity | impedance | lead channel_la | measurement | idc | mdc	722498
MDC_IDC_MSMT_LEADCHNL_LV_IMPEDANCE_POLARITY	polarity | impedance | lead channel_lv | measurement | idc | mdc	722499
MDC_IDC_MSMT_LEADCHNL_MIXED_IMPEDANCE_POLARITY	polarity | impedance | lead channel_mixed | measurement | idc | mdc	722500
MDC_IDC_MSMT_LEADHVCHNL_DTM	date time | lead high-voltage channel | measurement | idc | mdc	722560
MDC_IDC_MSMT_LEADHVCHNL_DTM_START	date time_start | lead high-voltage channel | measurement | idc | mdc	722561
MDC_IDC_MSMT_LEADHVCHNL_DTM_END	date time_end | lead high-voltage channel | measurement | idc | mdc	722562
MDC_IDC_MSMT_LEADHVCHNL_IMPEDANCE	impedance | lead high-voltage channel | measurement | idc | mdc	722624
MDC_IDC_MSMT_LEADHVCHNL_MEASUREMENT_TYPE	measurement type | lead high-voltage channel | measurement | idc | mdc	722688
MDC_IDC_MSMT_LEADHVCHNL_STATUS	status | lead high-voltage channel | measurement | idc | mdc	722752
MDC_IDC_SET_CRT_LVRV_DELAY	cardiac resynchronization therapy left ventricle right ventricle delay | setting | idc | mdc	729344
MDC_IDC_SET_CRT_PACED_CHAMBERS	cardiac resynchronization therapy paced chambers | setting | idc | mdc	729408
MDC_IDC_SET_MAGNET_RESP	magnet response | setting | idc | mdc	729472
MDC_IDC_SET_LEADCHNL_RA_SENSING_SENSITIVITY	sensitivity | sensing | lead channel_ra | setting | idc | mdc	729536
MDC_IDC_SET_LEADCHNL_RV_SENSING_SENSITIVITY	sensitivity | sensing | lead channel_rv | setting | idc | mdc	729537
MDC_IDC_SET_LEADCHNL_LA_SENSING_SENSITIVITY	sensitivity | sensing | lead channel_la | setting | idc | mdc	729538
MDC_IDC_SET_LEADCHNL_LV_SENSING_SENSITIVITY	sensitivity | sensing | lead channel_lv | setting | idc | mdc	729539
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_SENSITIVITY	sensitivity | sensing | lead channel_mixed | setting | idc | mdc	729540
MDC_IDC_SET_LEADCHNL_RA_SENSING_POLARITY	polarity | sensing | lead channel_ra | setting | idc | mdc	729600
MDC_IDC_SET_LEADCHNL_RV_SENSING_POLARITY	polarity | sensing | lead channel_rv | setting | idc | mdc	729601
MDC_IDC_SET_LEADCHNL_LA_SENSING_POLARITY	polarity | sensing | lead channel_la | setting | idc | mdc	729602
MDC_IDC_SET_LEADCHNL_LV_SENSING_POLARITY	polarity | sensing | lead channel_lv | setting | idc | mdc	729603
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_POLARITY	polarity | sensing | lead channel_mixed | setting | idc | mdc	729604
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_LOCATION	anode location | sensing | lead channel_ra | setting | idc | mdc	729664
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_LOCATION_1	anode location_1 | sensing | lead channel_ra | setting | idc | mdc	729665
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_LOCATION_2	anode location_2 | sensing | lead channel_ra | setting | idc | mdc	729666
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_LOCATION_3	anode location_3 | sensing | lead channel_ra | setting | idc | mdc	729667
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_LOCATION	anode location | sensing | lead channel_rv | setting | idc | mdc	729668
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_LOCATION_1	anode location_1 | sensing | lead channel_rv | setting | idc | mdc	729669
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_LOCATION_2	anode location_2 | sensing | lead channel_rv | setting | idc | mdc	729670
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_LOCATION_3	anode location_3 | sensing | lead channel_rv | setting | idc | mdc	729671
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_LOCATION	anode location | sensing | lead channel_la | setting | idc | mdc	729672
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_LOCATION_1	anode location_1 | sensing | lead channel_la | setting | idc | mdc	729673
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_LOCATION_2	anode location_2 | sensing | lead channel_la | setting | idc | mdc	729674
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_LOCATION_3	anode location_3 | sensing | lead channel_la | setting | idc | mdc	729675
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_LOCATION	anode location | sensing | lead channel_lv | setting | idc | mdc	729676
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_LOCATION_1	anode location_1 | sensing | lead channel_lv | setting | idc | mdc	729677
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_LOCATION_2	anode location_2 | sensing | lead channel_lv | setting | idc | mdc	729678

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_LOCATION_3	anode location_3 | sensing | lead channel_lv | setting | idc | mdc	729679
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_LOCATION	anode location | sensing | lead channel_mixed | setting | idc | mdc	729680
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_LOCATION_1	anode location_1 | sensing | lead channel_mixed | setting | idc | mdc	729681
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_LOCATION_2	anode location_2 | sensing | lead channel_mixed | setting | idc | mdc	729682
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_LOCATION_3	anode location_3 | sensing | lead channel_mixed | setting | idc | mdc	729683
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_ELECTRODE	anode electrode | sensing | lead channel_ra | setting | idc | mdc	729728
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_ELECTRODE_1	anode electrode_1 | sensing | lead channel_ra | setting | idc | mdc	729729
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_ELECTRODE_2	anode electrode_2 | sensing | lead channel_ra | setting | idc | mdc	729730
MDC_IDC_SET_LEADCHNL_RA_SENSING_ANODE_ELECTRODE_3	anode electrode_3 | sensing | lead channel_ra | setting | idc | mdc	729731
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_ELECTRODE	anode electrode | sensing | lead channel_rv | setting | idc | mdc	729732
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_ELECTRODE_1	anode electrode_1 | sensing | lead channel_rv | setting | idc | mdc	729733
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_ELECTRODE_2	anode electrode_2 | sensing | lead channel_rv | setting | idc | mdc	729734
MDC_IDC_SET_LEADCHNL_RV_SENSING_ANODE_ELECTRODE_3	anode electrode_3 | sensing | lead channel_rv | setting | idc | mdc	729735
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_ELECTRODE	anode electrode | sensing | lead channel_la | setting | idc | mdc	729736
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_ELECTRODE_1	anode electrode_1 | sensing | lead channel_la | setting | idc | mdc	729737
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_ELECTRODE_2	anode electrode_2 | sensing | lead channel_la | setting | idc | mdc	729738
MDC_IDC_SET_LEADCHNL_LA_SENSING_ANODE_ELECTRODE_3	anode electrode_3 | sensing | lead channel_la | setting | idc | mdc	729739
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_ELECTRODE	anode electrode | sensing | lead channel_lv | setting | idc | mdc	729740
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_ELECTRODE_1	anode electrode_1 | sensing | lead channel_lv | setting | idc | mdc	729741
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_ELECTRODE_2	anode electrode_2 | sensing | lead channel_lv | setting | idc | mdc	729742
MDC_IDC_SET_LEADCHNL_LV_SENSING_ANODE_ELECTRODE_3	anode electrode_3 | sensing | lead channel_lv | setting | idc | mdc	729743
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_ELECTRODE	anode electrode | sensing | lead channel_mixed | setting | idc | mdc	729744
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_ELECTRODE_1	anode electrode_1 | sensing | lead channel_mixed | setting | idc | mdc	729745
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_ELECTRODE_2	anode electrode_2 | sensing | lead channel_mixed | setting | idc | mdc	729746
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ANODE_ELECTRODE_3	anode electrode_3 | sensing | lead channel_mixed | setting | idc | mdc	729747
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_LOCATION	cathode location | sensing | lead channel_ra | setting | idc | mdc	729792
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_LOCATION_1	cathode location_1 | sensing | lead channel_ra | setting | idc | mdc	729793
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_LOCATION_2	cathode location_2 | sensing | lead channel_ra | setting | idc | mdc	729794
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_LOCATION_3	cathode location_3 | sensing | lead channel_ra | setting | idc | mdc	729795
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_LOCATION	cathode location | sensing | lead channel_rv | setting | idc | mdc	729796
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_LOCATION_1	cathode location_1 | sensing | lead channel_rv | setting | idc | mdc	729797
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_LOCATION_2	cathode location_2 | sensing | lead channel_rv | setting | idc | mdc	729798
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_LOCATION_3	cathode location_3 | sensing | lead channel_rv | setting | idc | mdc	729799
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_LOCATION	cathode location | sensing | lead channel_la | setting | idc | mdc	729800
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_LOCATION_1	cathode location_1 | sensing | lead channel_la | setting | idc | mdc	729801
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_LOCATION_2	cathode location_2 | sensing | lead channel_la | setting | idc | mdc	729802
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_LOCATION_3	cathode location_3 | sensing | lead channel_la | setting | idc | mdc	729803
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_LOCATION	cathode location | sensing | lead channel_lv | setting | idc | mdc	729804
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_LOCATION_1	cathode location_1 | sensing | lead channel_lv | setting | idc | mdc	729805
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_LOCATION_2	cathode location_2 | sensing | lead channel_lv | setting | idc | mdc	729806

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Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_LOCATION_3	cathode location_3 | sensing | lead channel_lv | setting | idc | mdc	729807
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_LOCATION	cathode location | sensing | lead channel_mixed | setting | idc | mdc	729808
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_LOCATION_1	cathode location_1 | sensing | lead channel_mixed | setting | idc | mdc	729809
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_LOCATION_2	cathode location_2 | sensing | lead channel_mixed | setting | idc | mdc	729810
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_LOCATION_3	cathode location_3 | sensing | lead channel_mixed | setting | idc | mdc	729811
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_ELECTRODE	cathode electrode | sensing | lead channel_ra | setting | idc | mdc	729856
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_ELECTRODE_1	cathode electrode_1 | sensing | lead channel_ra | setting | idc | mdc	729857
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_ELECTRODE_2	cathode electrode_2 | sensing | lead channel_ra | setting | idc | mdc	729858
MDC_IDC_SET_LEADCHNL_RA_SENSING_CATHODE_ELECTRODE_3	cathode electrode_3 | sensing | lead channel_ra | setting | idc | mdc	729859
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_ELECTRODE	cathode electrode | sensing | lead channel_rv | setting | idc | mdc	729860
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_ELECTRODE_1	cathode electrode_1 | sensing | lead channel_rv | setting | idc | mdc	729861
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_ELECTRODE_2	cathode electrode_2 | sensing | lead channel_rv | setting | idc | mdc	729862
MDC_IDC_SET_LEADCHNL_RV_SENSING_CATHODE_ELECTRODE_3	cathode electrode_3 | sensing | lead channel_rv | setting | idc | mdc	729863
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_ELECTRODE	cathode electrode | sensing | lead channel_la | setting | idc | mdc	729864
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_ELECTRODE_1	cathode electrode_1 | sensing | lead channel_la | setting | idc | mdc	729865
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_ELECTRODE_2	cathode electrode_2 | sensing | lead channel_la | setting | idc | mdc	729866
MDC_IDC_SET_LEADCHNL_LA_SENSING_CATHODE_ELECTRODE_3	cathode electrode_3 | sensing | lead channel_la | setting | idc | mdc	729867
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_ELECTRODE	cathode electrode | sensing | lead channel_lv | setting | idc | mdc	729868
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_ELECTRODE_1	cathode electrode_1 | sensing | lead channel_lv | setting | idc | mdc	729869
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_ELECTRODE_2	cathode electrode_2 | sensing | lead channel_lv | setting | idc | mdc	729870
MDC_IDC_SET_LEADCHNL_LV_SENSING_CATHODE_ELECTRODE_3	cathode electrode_3 | sensing | lead channel_lv | setting | idc | mdc	729871
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_ELECTRODE	cathode electrode | sensing | lead channel_mixed | setting | idc | mdc	729872
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_ELECTRODE_1	cathode electrode_1 | sensing | lead channel_mixed | setting | idc | mdc	729873
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_ELECTRODE_2	cathode electrode_2 | sensing | lead channel_mixed | setting | idc | mdc	729874
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_CATHODE_ELECTRODE_3	cathode electrode_3 | sensing | lead channel_mixed | setting | idc | mdc	729875
MDC_IDC_SET_LEADCHNL_RA_SENSING_ADAPTATION_MODE	adaptation mode | sensing | lead channel_ra | setting | idc | mdc	729920
MDC_IDC_SET_LEADCHNL_RV_SENSING_ADAPTATION_MODE	adaptation mode | sensing | lead channel_rv | setting | idc | mdc	729921
MDC_IDC_SET_LEADCHNL_LA_SENSING_ADAPTATION_MODE	adaptation mode | sensing | lead channel_la | setting | idc | mdc	729922
MDC_IDC_SET_LEADCHNL_LV_SENSING_ADAPTATION_MODE	adaptation mode | sensing | lead channel_lv | setting | idc | mdc	729923
MDC_IDC_SET_LEADCHNL_MIXED_SENSING_ADAPTATION_MODE	adaptation mode | sensing | lead channel_mixed | setting | idc | mdc	729924
MDC_IDC_SET_LEADCHNL_RA_PACING_AMPLITUDE	amplitude | pacing | lead channel_ra | setting | idc | mdc	729984
MDC_IDC_SET_LEADCHNL_RV_PACING_AMPLITUDE	amplitude | pacing | lead channel_rv | setting | idc | mdc	729985
MDC_IDC_SET_LEADCHNL_LA_PACING_AMPLITUDE	amplitude | pacing | lead channel_la | setting | idc | mdc	729986
MDC_IDC_SET_LEADCHNL_LV_PACING_AMPLITUDE	amplitude | pacing | lead channel_lv | setting | idc | mdc	729987
MDC_IDC_SET_LEADCHNL_MIXED_PACING_AMPLITUDE	amplitude | pacing | lead channel_mixed | setting | idc | mdc	729988
MDC_IDC_SET_LEADCHNL_RA_PACING_PULSEWIDTH	pulse width | pacing | lead channel_ra | setting | idc | mdc	730048
MDC_IDC_SET_LEADCHNL_RV_PACING_PULSEWIDTH	pulse width | pacing | lead channel_rv | setting | idc | mdc	730049
MDC_IDC_SET_LEADCHNL_LA_PACING_PULSEWIDTH	pulse width | pacing | lead channel_la | setting | idc | mdc	730050
MDC_IDC_SET_LEADCHNL_LV_PACING_PULSEWIDTH	pulse width | pacing | lead channel_lv | setting | idc | mdc	730051
MDC_IDC_SET_LEADCHNL_MIXED_PACING_PULSEWIDTH	pulse width | pacing | lead channel_mixed | setting | idc | mdc	730052

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Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_LEADCHNL_RA_PACING_POLARITY	polarity | pacing | lead channel_ra | setting | idc | mdc	730112
MDC_IDC_SET_LEADCHNL_RV_PACING_POLARITY	polarity | pacing | lead channel_rv | setting | idc | mdc	730113
MDC_IDC_SET_LEADCHNL_LA_PACING_POLARITY	polarity | pacing | lead channel_la | setting | idc | mdc	730114
MDC_IDC_SET_LEADCHNL_LV_PACING_POLARITY	polarity | pacing | lead channel_lv | setting | idc | mdc	730115
MDC_IDC_SET_LEADCHNL_MIXED_PACING_POLARITY	polarity | pacing | lead channel_mixed | setting | idc | mdc	730116
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_LOCATION	anode location | pacing | lead channel_ra | setting | idc | mdc	730176
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_LOCATION_1	anode location_1 | pacing | lead channel_ra | setting | idc | mdc	730177
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_LOCATION_2	anode location_2 | pacing | lead channel_ra | setting | idc | mdc	730178
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_LOCATION_3	anode location_3 | pacing | lead channel_ra | setting | idc | mdc	730179
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_LOCATION	anode location | pacing | lead channel_rv | setting | idc | mdc	730180
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_LOCATION_1	anode location_1 | pacing | lead channel_rv | setting | idc | mdc	730181
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_LOCATION_2	anode location_2 | pacing | lead channel_rv | setting | idc | mdc	730182
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_LOCATION_3	anode location_3 | pacing | lead channel_rv | setting | idc | mdc	730183
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_LOCATION	anode location | pacing | lead channel_la | setting | idc | mdc	730184
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_LOCATION_1	anode location_1 | pacing | lead channel_la | setting | idc | mdc	730185
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_LOCATION_2	anode location_2 | pacing | lead channel_la | setting | idc | mdc	730186
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_LOCATION_3	anode location_3 | pacing | lead channel_la | setting | idc | mdc	730187
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_LOCATION	anode location | pacing | lead channel_lv | setting | idc | mdc	730188
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_LOCATION_1	anode location_1 | pacing | lead channel_lv | setting | idc | mdc	730189
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_LOCATION_2	anode location_2 | pacing | lead channel_lv | setting | idc | mdc	730190
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_LOCATION_3	anode location_3 | pacing | lead channel_lv | setting | idc | mdc	730191
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_LOCATION	anode location | pacing | lead channel_mixed | setting | idc | mdc	730192
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_LOCATION_1	anode location_1 | pacing | lead channel_mixed | setting | idc | mdc	730193
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_LOCATION_2	anode location_2 | pacing | lead channel_mixed | setting | idc | mdc	730194
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_LOCATION_3	anode location_3 | pacing | lead channel_mixed | setting | idc | mdc	730195
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_ELECTRODE	anode electrode | pacing | lead channel_ra | setting | idc | mdc	730240
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_ELECTRODE_1	anode electrode_1 | pacing | lead channel_ra | setting | idc | mdc	730241
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_ELECTRODE_2	anode electrode_2 | pacing | lead channel_ra | setting | idc | mdc	730242
MDC_IDC_SET_LEADCHNL_RA_PACING_ANODE_ELECTRODE_3	anode electrode_3 | pacing | lead channel_ra | setting | idc | mdc	730243
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_ELECTRODE	anode electrode | pacing | lead channel_rv | setting | idc | mdc	730244
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_ELECTRODE_1	anode electrode_1 | pacing | lead channel_rv | setting | idc | mdc	730245
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_ELECTRODE_2	anode electrode_2 | pacing | lead channel_rv | setting | idc | mdc	730246
MDC_IDC_SET_LEADCHNL_RV_PACING_ANODE_ELECTRODE_3	anode electrode_3 | pacing | lead channel_rv | setting | idc | mdc	730247
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_ELECTRODE	anode electrode | pacing | lead channel_la | setting | idc | mdc	730248
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_ELECTRODE_1	anode electrode_1 | pacing | lead channel_la | setting | idc | mdc	730249
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_ELECTRODE_2	anode electrode_2 | pacing | lead channel_la | setting | idc | mdc	730250
MDC_IDC_SET_LEADCHNL_LA_PACING_ANODE_ELECTRODE_3	anode electrode_3 | pacing | lead channel_la | setting | idc | mdc	730251
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_ELECTRODE	anode electrode | pacing | lead channel_lv | setting | idc | mdc	730252
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_ELECTRODE_1	anode electrode_1 | pacing | lead channel_lv | setting | idc | mdc	730253
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_ELECTRODE_2	anode electrode_2 | pacing | lead channel_lv | setting | idc | mdc	730254

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NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_LEADCHNL_LV_PACING_ANODE_ELECTRODE_3	anode electrode_3 | pacing | lead channel_lv | setting | idc | mdc	730255
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_ELECTRODE	anode electrode | pacing | lead channel_mixed | setting | idc | mdc	730256
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_ELECTRODE_1	anode electrode_1 | pacing | lead channel_mixed | setting | idc | mdc	730257
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_ELECTRODE_2	anode electrode_2 | pacing | lead channel_mixed | setting | idc | mdc	730258
MDC_IDC_SET_LEADCHNL_MIXED_PACING_ANODE_ELECTRODE_3	anode electrode_3 | pacing | lead channel_mixed | setting | idc | mdc	730259
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_LOCATION	cathode location | pacing | lead channel_ra | setting | idc | mdc	730304
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_LOCATION_1	cathode location_1 | pacing | lead channel_ra | setting | idc | mdc	730305
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_LOCATION_2	cathode location_2 | pacing | lead channel_ra | setting | idc | mdc	730306
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_LOCATION_3	cathode location_3 | pacing | lead channel_ra | setting | idc | mdc	730307
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_LOCATION	cathode location | pacing | lead channel_rv | setting | idc | mdc	730308
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_LOCATION_1	cathode location_1 | pacing | lead channel_rv | setting | idc | mdc	730309
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_LOCATION_2	cathode location_2 | pacing | lead channel_rv | setting | idc | mdc	730310
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_LOCATION_3	cathode location_3 | pacing | lead channel_rv | setting | idc | mdc	730311
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_LOCATION	cathode location | pacing | lead channel_la | setting | idc | mdc	730312
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_LOCATION_1	cathode location_1 | pacing | lead channel_la | setting | idc | mdc	730313
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_LOCATION_2	cathode location_2 | pacing | lead channel_la | setting | idc | mdc	730314
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_LOCATION_3	cathode location_3 | pacing | lead channel_la | setting | idc | mdc	730315
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_LOCATION	cathode location | pacing | lead channel_lv | setting | idc | mdc	730316
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_LOCATION_1	cathode location_1 | pacing | lead channel_lv | setting | idc | mdc	730317
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_LOCATION_2	cathode location_2 | pacing | lead channel_lv | setting | idc | mdc	730318
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_LOCATION_3	cathode location_3 | pacing | lead channel_lv | setting | idc | mdc	730319
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_LOCATION	cathode location | pacing | lead channel_mixed | setting | idc | mdc	730320
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_LOCATION_1	cathode location_1 | pacing | lead channel_mixed | setting | idc | mdc	730321
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_LOCATION_2	cathode location_2 | pacing | lead channel_mixed | setting | idc | mdc	730322
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_LOCATION_3	cathode location_3 | pacing | lead channel_mixed | setting | idc | mdc	730323
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_ELECTRODE	cathode electrode | pacing | lead channel_ra | setting | idc | mdc	730368
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_ELECTRODE_1	cathode electrode_1 | pacing | lead channel_ra | setting | idc | mdc	730369
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_ELECTRODE_2	cathode electrode_2 | pacing | lead channel_ra | setting | idc | mdc	730370
MDC_IDC_SET_LEADCHNL_RA_PACING_CATHODE_ELECTRODE_3	cathode electrode_3 | pacing | lead channel_ra | setting | idc | mdc	730371
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_ELECTRODE	cathode electrode | pacing | lead channel_rv | setting | idc | mdc	730372
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_ELECTRODE_1	cathode electrode_1 | pacing | lead channel_rv | setting | idc | mdc	730373
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_ELECTRODE_2	cathode electrode_2 | pacing | lead channel_rv | setting | idc | mdc	730374
MDC_IDC_SET_LEADCHNL_RV_PACING_CATHODE_ELECTRODE_3	cathode electrode_3 | pacing | lead channel_rv | setting | idc | mdc	730375
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_ELECTRODE	cathode electrode | pacing | lead channel_la | setting | idc | mdc	730376
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_ELECTRODE_1	cathode electrode_1 | pacing | lead channel_la | setting | idc | mdc	730377
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_ELECTRODE_2	cathode electrode_2 | pacing | lead channel_la | setting | idc | mdc	730378
MDC_IDC_SET_LEADCHNL_LA_PACING_CATHODE_ELECTRODE_3	cathode electrode_3 | pacing | lead channel_la | setting | idc | mdc	730379
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_ELECTRODE	cathode electrode | pacing | lead channel_lv | setting | idc | mdc	730380
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_ELECTRODE_1	cathode electrode_1 | pacing | lead channel_lv | setting | idc | mdc	730381
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_ELECTRODE_2	cathode electrode_2 | pacing | lead channel_lv | setting | idc | mdc	730382

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Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_LEADCHNL_LV_PACING_CATHODE_ELECTRODE_3	cathode electrode_3 | pacing | lead channel_lv | setting | idc | mdc	730383
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_ELECTRODE	cathode electrode | pacing | lead channel_mixed | setting | idc | mdc	730384
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_ELECTRODE_1	cathode electrode_1 | pacing | lead channel_mixed | setting | idc | mdc	730385
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_ELECTRODE_2	cathode electrode_2 | pacing | lead channel_mixed | setting | idc | mdc	730386
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CATHODE_ELECTRODE_3	cathode electrode_3 | pacing | lead channel_mixed | setting | idc | mdc	730387
MDC_IDC_SET_LEADCHNL_RA_PACING_CAPTURE_MODE	capture mode | pacing | lead channel_ra | setting | idc | mdc	730432
MDC_IDC_SET_LEADCHNL_RV_PACING_CAPTURE_MODE	capture mode | pacing | lead channel_rv | setting | idc | mdc	730433
MDC_IDC_SET_LEADCHNL_LA_PACING_CAPTURE_MODE	capture mode | pacing | lead channel_la | setting | idc | mdc	730434
MDC_IDC_SET_LEADCHNL_LV_PACING_CAPTURE_MODE	capture mode | pacing | lead channel_lv | setting | idc | mdc	730435
MDC_IDC_SET_LEADCHNL_MIXED_PACING_CAPTURE_MODE	capture mode | pacing | lead channel_mixed | setting | idc | mdc	730436
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_LOCATION	anode location | vector | shock | lead high-voltage channel | setting | idc | mdc	730496
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_LOCATION_1	anode location_1 | vector | shock | lead high-voltage channel | setting | idc | mdc	730497
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_LOCATION_2	anode location_2 | vector | shock | lead high-voltage channel | setting | idc | mdc	730498
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_LOCATION_3	anode location_3 | vector | shock | lead high-voltage channel | setting | idc | mdc	730499
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_ELECTRODE	anode electrode | vector | shock | lead high-voltage channel | setting | idc | mdc	730560
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_ELECTRODE_1	anode electrode_1 | vector | shock | lead high-voltage channel | setting | idc | mdc	730561
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_ELECTRODE_2	anode electrode_2 | vector | shock | lead high-voltage channel | setting | idc | mdc	730562
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_ELECTRODE_3	anode electrode_3 | vector | shock | lead high-voltage channel | setting | idc | mdc	730563
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_LOCATION	cathode location | vector | shock | lead high-voltage channel | setting | idc | mdc	730624
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_LOCATION_1	cathode location_1 | vector | shock | lead high-voltage channel | setting | idc | mdc	730625
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_LOCATION_2	cathode location_2 | vector | shock | lead high-voltage channel | setting | idc | mdc	730626
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_LOCATION_3	cathode location_3 | vector | shock | lead high-voltage channel | setting | idc | mdc	730627
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_ELECTRODE	cathode electrode | vector | shock | lead high-voltage channel | setting | idc | mdc	730688
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_ELECTRODE_1	cathode electrode_1 | vector | shock | lead high-voltage channel | setting | idc | mdc	730689
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_ELECTRODE_2	cathode electrode_2 | vector | shock | lead high-voltage channel | setting | idc | mdc	730690
MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_ELECTRODE_3	cathode electrode_3 | vector | shock | lead high-voltage channel | setting | idc | mdc	730691
MDC_IDC_SET_BRADY_MODE	mode | brady | setting | idc | mdc	730752
MDC_IDC_SET_BRADY_VENDOR_MODE	mode | brady | setting | idc | mdc	730816
MDC_IDC_SET_BRADY_LOWRATE	lowrate | brady | setting | idc | mdc	730880
MDC_IDC_SET_BRADY_HYSTRATE	hystrate | brady | setting | idc | mdc	730944
MDC_IDC_SET_BRADY_NIGHT_RATE	night rate | brady | setting | idc | mdc	731008
MDC_IDC_SET_BRADY_SENSOR_TYPE	sensor type | brady | setting | idc | mdc	731072
MDC_IDC_SET_BRADY_MAX_TRACKING_RATE	maximum tracking rate | brady | setting | idc | mdc	731136
MDC_IDC_SET_BRADY_MAX_SENSOR_RATE	maximum sensor rate | brady | setting | idc | mdc	731200

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_BRADY_SAV_DELAY	sav delay | brady | setting | idc | mdc	731264
MDC_IDC_SET_BRADY_SAV_DELAY_HIGH	sav delay_high | brady | setting | idc | mdc	731265
MDC_IDC_SET_BRADY_SAV_DELAY_LOW	sav delay_low | brady | setting | idc | mdc	731266
MDC_IDC_SET_BRADY_PAV_DELAY	pav delay | brady | setting | idc | mdc	731328
MDC_IDC_SET_BRADY_PAV_DELAY_HIGH	pav delay_high | brady | setting | idc | mdc	731329
MDC_IDC_SET_BRADY_PAV_DELAY_LOW	pav delay_low | brady | setting | idc | mdc	731330
MDC_IDC_SET_BRADY_AT_MODE_SWITCH_MODE	atrial tachy mode switch mode | brady | setting | idc | mdc	731392
MDC_IDC_SET_BRADY_AT_MODE_SWITCH_RATE	atrail tachy mode switch rate | brady | setting | idc | mdc	731456
MDC_IDC_SET_TACHYTHERAPY_VSTAT	ventricular status | tachytherapy | setting | idc | mdc	731520
MDC_IDC_SET_TACHYTHERAPY_ASTAT	atrial status | tachytherapy | setting | idc | mdc	731584
MDC_IDC_SET_ZONE_TYPE	type | zone | setting | idc | mdc	731648
MDC_IDC_SET_ZONE_VENDOR_TYPE	vendor type | zone | setting | idc | mdc	731712
MDC_IDC_SET_ZONE_STATUS	status | zone | setting | idc | mdc	731776
MDC_IDC_SET_ZONE_DETECTION_INTERVAL	detection interval | zone | setting | idc | mdc	731840
MDC_IDC_SET_ZONE_DETECTION_BEATS_NUMERATOR	detection beats numerator | zone | setting | idc | mdc	731904
MDC_IDC_SET_ZONE_DETECTION_BEATS_DENOMINATOR	detection beats denominator | zone | setting | idc | mdc	731968
MDC_IDC_SET_ZONE_DETECTION_DETAILS	detection details | zone | setting | idc | mdc	732032
MDC_IDC_SET_ZONE_TYPE_ATP	type anti-tachycardia pacing pulse | zone | setting | idc | mdc	732096
MDC_IDC_SET_ZONE_TYPE_ATP_1	type anti-tachycardia pacing pulse_1 | zone | setting | idc | mdc	732097
MDC_IDC_SET_ZONE_TYPE_ATP_2	type anti-tachycardia pacing pulse_2 | zone | setting | idc | mdc	732098
MDC_IDC_SET_ZONE_TYPE_ATP_3	type anti-tachycardia pacing pulse_3 | zone | setting | idc | mdc	732099
MDC_IDC_SET_ZONE_TYPE_ATP_4	type anti-tachycardia pacing pulse_4 | zone | setting | idc | mdc	732100
MDC_IDC_SET_ZONE_TYPE_ATP_5	type anti-tachycardia pacing pulse_5 | zone | setting | idc | mdc	732101
MDC_IDC_SET_ZONE_TYPE_ATP_6	type anti-tachycardia pacing pulse_6 | zone | setting | idc | mdc	732102
MDC_IDC_SET_ZONE_TYPE_ATP_7	type anti-tachycardia pacing pulse_7 | zone | setting | idc | mdc	732103
MDC_IDC_SET_ZONE_TYPE_ATP_8	type anti-tachycardia pacing pulse_8 | zone | setting | idc | mdc	732104
MDC_IDC_SET_ZONE_TYPE_ATP_9	type anti-tachycardia pacing pulse_9 | zone | setting | idc | mdc	732105
MDC_IDC_SET_ZONE_TYPE_ATP_10	type anti-tachycardia pacing pulse_10 | zone | setting | idc | mdc	732106
MDC_IDC_SET_ZONE_NUM_ATP_SEQS	number of anti-tachycardia pacing pulse sequences | zone | setting | idc | mdc	732160
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_1	number of anti-tachycardia pacing pulse sequences_1 | zone | setting | idc | mdc	732161
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_2	number of anti-tachycardia pacing pulse sequences_2 | zone | setting | idc | mdc	732162
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_3	number of anti-tachycardia pacing pulse sequences_3 | zone | setting | idc | mdc	732163
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_4	number of anti-tachycardia pacing pulse sequences_4 | zone | setting | idc | mdc	732164
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_5	number of anti-tachycardia pacing pulse sequences_5 | zone | setting | idc | mdc	732165
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_6	number of anti-tachycardia pacing pulse sequences_6 | zone | setting | idc | mdc	732166
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_7	number of anti-tachycardia pacing pulse sequences_7 | zone | setting | idc | mdc	732167
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_8	number of anti-tachycardia pacing pulse sequences_8 | zone | setting | idc | mdc	732168
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_9	number of anti-tachycardia pacing pulse sequences_9 | zone | setting | idc | mdc	732169
MDC_IDC_SET_ZONE_NUM_ATP_SEQS_10	number of anti-tachycardia pacing pulse sequences_10 | zone | setting | idc | mdc	732170
MDC_IDC_SET_ZONE_SHOCK_ENERGY	shock energy | zone | setting | idc | mdc	732224

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_SET_ZONE_SHOCK_ENERGY_1	shock energy_1 | zone | setting | idc | mdc	732225
MDC_IDC_SET_ZONE_SHOCK_ENERGY_2	shock energy_2 | zone | setting | idc | mdc	732226
MDC_IDC_SET_ZONE_SHOCK_ENERGY_3	shock energy_3 | zone | setting | idc | mdc	732227
MDC_IDC_SET_ZONE_SHOCK_ENERGY_4	shock energy_4 | zone | setting | idc | mdc	732228
MDC_IDC_SET_ZONE_SHOCK_ENERGY_5	shock energy_5 | zone | setting | idc | mdc	732229
MDC_IDC_SET_ZONE_SHOCK_ENERGY_6	shock energy_6 | zone | setting | idc | mdc	732230
MDC_IDC_SET_ZONE_SHOCK_ENERGY_7	shock energy_7 | zone | setting | idc | mdc	732231
MDC_IDC_SET_ZONE_SHOCK_ENERGY_8	shock energy_8 | zone | setting | idc | mdc	732232
MDC_IDC_SET_ZONE_SHOCK_ENERGY_9	shock energy_9 | zone | setting | idc | mdc	732233
MDC_IDC_SET_ZONE_SHOCK_ENERGY_10	shock energy_10 | zone | setting | idc | mdc	732234
MDC_IDC_SET_ZONE_NUM_SHOCKS	number of shocks | zone | setting | idc | mdc	732288
MDC_IDC_SET_ZONE_NUM_SHOCKS_1	number of shocks_1 | zone | setting | idc | mdc	732289
MDC_IDC_SET_ZONE_NUM_SHOCKS_2	number of shocks_2 | zone | setting | idc | mdc	732290
MDC_IDC_SET_ZONE_NUM_SHOCKS_3	number of shocks_3 | zone | setting | idc | mdc	732291
MDC_IDC_SET_ZONE_NUM_SHOCKS_4	number of shocks_4 | zone | setting | idc | mdc	732292
MDC_IDC_SET_ZONE_NUM_SHOCKS_5	number of shocks_5 | zone | setting | idc | mdc	732293
MDC_IDC_SET_ZONE_NUM_SHOCKS_6	number of shocks_6 | zone | setting | idc | mdc	732294
MDC_IDC_SET_ZONE_NUM_SHOCKS_7	number of shocks_7 | zone | setting | idc | mdc	732295
MDC_IDC_SET_ZONE_NUM_SHOCKS_8	number of shocks_8 | zone | setting | idc | mdc	732296
MDC_IDC_SET_ZONE_NUM_SHOCKS_9	number of shocks_9 | zone | setting | idc | mdc	732297
MDC_IDC_SET_ZONE_NUM_SHOCKS_10	number of shocks_10 | zone | setting | idc | mdc	732298
MDC_IDC_STAT_DTM	date time | statistic | idc | mdc	737488
MDC_IDC_STAT_DTM_START	date time_start | statistic | idc | mdc	737489
MDC_IDC_STAT_DTM_END	date time_end | statistic | idc | mdc	737490
MDC_IDC_STAT_HEART_RATE_DTM	date time | heart rate | statistic | idc | mdc	737616
MDC_IDC_STAT_HEART_RATE_DTM_START	date time_start | heart rate | statistic | idc | mdc	737617
MDC_IDC_STAT_HEART_RATE_DTM_END	date time_end | heart rate | statistic | idc | mdc	737618
MDC_IDC_STAT_HEART_RATE_ATRIAL	atrial | heart rate | statistic | idc | mdc	737632
MDC_IDC_STAT_HEART_RATE_ATRIAL_MAX	atrial_max | heart rate | statistic | idc | mdc	737633
MDC_IDC_STAT_HEART_RATE_ATRIAL_MIN	atrial_min | heart rate | statistic | idc | mdc	737634
MDC_IDC_STAT_HEART_RATE_ATRIAL_MEAN	atrial_mean | heart rate | statistic | idc | mdc	737635
MDC_IDC_STAT_HEART_RATE_VENTRICULAR	ventricular | heart rate | statistic | idc | mdc	737648
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MAX	ventricular_max | heart rate | statistic | idc | mdc	737649
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MIN	ventricular_min | heart rate | statistic | idc | mdc	737650
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MEAN	ventricular_mean | heart rate | statistic | idc | mdc	737651
MDC_IDC_STAT_BRADY_DTM	date time | brady | statistic | idc | mdc	737504
MDC_IDC_STAT_BRADY_DTM_START	date time_start | brady | statistic | idc | mdc	737505
MDC_IDC_STAT_BRADY_DTM_END	date time_end | brady | statistic | idc | mdc	737506
MDC_IDC_STAT_BRADY_RA_PERCENT_PACED	right atrial percent paced | brady | statistic | idc | mdc	737520
MDC_IDC_STAT_BRADY_RV_PERCENT_PACED	right ventricle percent paced | brady | statistic | idc | mdc	737536

Table C.1—Expanded terms

<table>
<tr><th colspan="2">NORMATIVE</th><th></th></tr>
<tr><th>Reference ID</th><th>Systematic name</th><th>Code</th></tr>
<tr><td>MDC_IDC_STAT_BRADY_AP_VP_PERCENT</td><td>ap-vp percent | brady | statistic | idc | mdc</td><td>737552</td></tr>
<tr><td>MDC_IDC_STAT_BRADY_AS_VP_PERCENT</td><td>as-vp percent | brady | statistic | idc | mdc</td><td>737568</td></tr>
<tr><td>MDC_IDC_STAT_BRADY_AP_VS_PERCENT</td><td>ap-vs percent | brady | statistic | idc | mdc</td><td>737584</td></tr>
<tr><td>MDC_IDC_STAT_BRADY_AS_VS_PERCENT</td><td>as-vs percent | brady | statistic | idc | mdc</td><td>737600</td></tr>
<tr><td>MDC_IDC_STAT_AT_DTM</td><td>date time | atrial tachy | statistic | idc | mdc</td><td>737664</td></tr>
<tr><td>MDC_IDC_STAT_AT_DTM_START</td><td>date time_start | atrial tachy | statistic | idc | mdc</td><td>737665</td></tr>
<tr><td>MDC_IDC_STAT_AT_DTM_END</td><td>date time_end | atrial tachy | statistic | idc | mdc</td><td>737666</td></tr>
<tr><td>MDC_IDC_STAT_AT_MODE_SW_MAX_DURATION</td><td>mode switch maximum duration | atrial tachy | statistic | idc | mdc</td><td>737680</td></tr>
<tr><td>MDC_IDC_STAT_AT_BURDEN_PERCENT</td><td>burden percent | atrial tachy | statistic | idc | mdc</td><td>737696</td></tr>
<tr><td>MDC_IDC_STAT_AT_MODE_SW_PERCENT_TIME</td><td>mode switch percent of time | atrial tachy | statistic | idc | mdc</td><td>737712</td></tr>
<tr><td>MDC_IDC_STAT_AT_MODE_SW_PERCENT_TIME_PER_DAY</td><td>mode switch percent of time per day | atrial tachy | statistic | idc | mdc</td><td>737728</td></tr>
<tr><td>MDC_IDC_STAT_AT_MODE_SW_COUNT</td><td>mode switch count | atrial tachy | statistic | idc | mdc</td><td>737744</td></tr>
<tr><td>MDC_IDC_STAT_AT_MODE_SW_COUNT_PER_DAY</td><td>mode switch count per day | atrial tachy | statistic | idc | mdc</td><td>737760</td></tr>
<tr><td>MDC_IDC_STAT_CRT_DTM</td><td>date time | cardiac resynchronization therapy | statistic | idc | mdc</td><td>737776</td></tr>
<tr><td>MDC_IDC_STAT_CRT_DTM_START</td><td>date time_start | cardiac resynchronization therapy | statistic | idc | mdc</td><td>737777</td></tr>
<tr><td>MDC_IDC_STAT_CRT_DTM_END</td><td>date time_end | cardiac resynchronization therapy | statistic | idc | mdc</td><td>737778</td></tr>
<tr><td>MDC_IDC_STAT_CRT_LV_PERCENT_PACED</td><td>left ventricle percent paced | cardiac resynchronization therapy | statistic | idc | mdc</td><td>737792</td></tr>
<tr><td>MDC_IDC_STAT_CRT_PERCENT_PACED</td><td>percent paced | cardiac resynchronization therapy | statistic | idc | mdc</td><td>737808</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_DELIVERED_RECENT</td><td>recent shocks delivered | tachy therapy | statistic | idc | mdc</td><td>737824</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_DELIVERED_TOTAL</td><td>total shocks delivered | tachy therapy | statistic | idc | mdc</td><td>737840</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_ABORTED_RECENT</td><td>recent shocks aborted | tachy therapy | statistic | idc | mdc</td><td>737856</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_ABORTED_TOTAL</td><td>total shocks aborted | tachy therapy | statistic | idc | mdc</td><td>737872</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_ATP_DELIVERED_RECENT</td><td>recent anti-tachycardia pacing delivered | tachy therapy | statistic | idc | mdc</td><td>737888</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_ATP_DELIVERED_TOTAL</td><td>total anti-tachycardia pacing delivered | tachy therapy | statistic | idc | mdc</td><td>737904</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_TOTAL_DTM</td><td>date time | total | tachy therapy | statistic | idc | mdc</td><td>737920</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_TOTAL_DTM_START</td><td>date time_start | total | tachy therapy | statistic | idc | mdc</td><td>737921</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_TOTAL_DTM_END</td><td>date time_end | total | tachy therapy | statistic | idc | mdc</td><td>737922</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_RECENT_DTM</td><td>date time | recent | tachy therapy | statistic | idc | mdc</td><td>737936</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_RECENT_DTM_START</td><td>date time_start | recent | tachy therapy | statistic | idc | mdc</td><td>737937</td></tr>
<tr><td>MDC_IDC_STAT_TACHYTHERAPY_RECENT_DTM_END</td><td>date time_end | recent | tachy therapy | statistic | idc | mdc</td><td>737938</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_TYPE</td><td>type | episode | statistic | idc | mdc</td><td>737952</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_TYPE_INDUCED</td><td>type induced | episode | statistic | idc | mdc</td><td>737968</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_VENDOR_TYPE</td><td>vendor type | episode | statistic | idc | mdc</td><td>737984</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_RECENT_COUNT</td><td>recent count | episode | statistic | idc | mdc</td><td>738000</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM</td><td>date time | recent | episode | statistic | idc | mdc</td><td>738016</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_START</td><td>date time_start | recent | episode | statistic | idc | mdc</td><td>738017</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_RECENT_COUNT_DTM_END</td><td>date time_end | recent | episode | statistic | idc | mdc</td><td>738018</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_TOTAL_COUNT</td><td>total count | episode | statistic | idc | mdc</td><td>738032</td></tr>
<tr><td>MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM</td><td>date time | total | episode | statistic | idc | mdc</td><td>738048</td></tr>
</table>

Table C.1—Expanded terms

NORMATIVE		
Reference ID	**Systematic name**	**Code**
MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM_START	date time_start | total | episode | statistic | idc | mdc	738049
MDC_IDC_STAT_EPISODE_TOTAL_COUNT_DTM_END	date time_end | total | episode | statistic | idc | mdc	738050
MDC_IDC_EPISODE_ID	identifier | episode | idc | mdc	739536
MDC_IDC_EPISODE_DTM	date time | episode | idc | mdc	739552
MDC_IDC_EPISODE_TYPE	type | episode | idc | mdc	739568
MDC_IDC_EPISODE_TYPE_INDUCED	type induced | episode | idc | mdc	739584
MDC_IDC_EPISODE_VENDOR_TYPE	vendor type | episode | idc | mdc	739600
MDC_IDC_EPISODE_ATRIAL_INTERVAL_AT_DETECTION	atrial interval at detection | episode | idc | mdc	739616
MDC_IDC_EPISODE_ATRIAL_INTERVAL_AT_TERMINATION	atrial interval at termination | episode | idc | mdc	739632
MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_DETECTION	ventricular interval at detection | episode | idc | mdc	739648
MDC_IDC_EPISODE_VENTRICULAR_INTERVAL_AT_TERMINATION	ventricular interval at termination | episode | idc | mdc	739664
MDC_IDC_EPISODE_DETECTION_THERAPY_DETAILS	detection therapy details | episode | idc | mdc	739680
MDC_IDC_EPISODE_THERAPY_RESULT	therapy result | episode | idc | mdc	739696
MDC_IDC_EPISODE_DURATION	duration | episode | idc | mdc	739712

Annex D

(normative)

Enumerations

D.1 Overview

An enumeration is a restrictive set of values provided for an enumerated term. There are two types of enumerations: enumerations common to the domain and vendor-specific enumerations. Vendor-specific enumerations are informative. Enumerations considered common to the domain are normative. This annex presents the normative enumerations with enumerator root, enumeration code, display name, and definition attributes (Table D.1).

D.2 Enumeration attributes

D.2.1 Enumerator identifier

The enumerator identifier is a text identifier that references a set of term enumerations. Base terms that are enumerated have an associated enumerator identifier (see Annex A).

D.2.2 Enumeration code

A numeric token that uniquely identifies each enumeration of the nomenclature.

D.2.3 Display name

The display name is a text phrase that describes the enumeration and is suited for presenting enumerations on a report or user interface.

D.2.4 Definition

The definition is a formal statement that describes the meaning or semantic of the enumeration.

D.3 Enumerations

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
MDC_IDC_ENUM_DEV_TYPE	IPG	Pacemaker	A battery-powered implantable device that uses low-voltage pulses to stimulate the heart when it is beating too slow.	1.0.0	753665
	ICD	Defibrillator	A battery-powered implantable device that uses high-voltage energy to shock the heart when it is beating too fast and mostly includes pacemaker functionality.	1.0.0	753666
	CRT_D	Cardiac Resynchronization Therapy - Defibrillator	A battery-powered implantable device that uses low-voltage pulses to stimulate the ventricles of the heart in multiple locations to increase blood pumping efficiency and also includes pacemaker and defibrillator functionality.	1.0.0	753667
	CRT_P	Cardiac Resynchronization Therapy - Pacemaker	A battery-powered implantable device that uses low-voltage pulses to stimulate the ventricles of the heart in multiple locations to increase blood pumping efficiency and also includes pacemaker functionality.	1.0.0	753668
	Monitor	Implantable Diagnostic Monitor	A battery-powered implantable device that monitors and records cardiac activity and does not deliver any therapy.	1.0.0	753669
	Other	Other	A device type other than those included in the nomenclature.	1.0.0	753670
MDC_IDC_ENUM_MFG	ANGN	Angeion Corp.	A manufacturer name.	1.0.0	753729
	APC	American Pacemaker Corp.	A manufacturer name.	1.0.0	753730
	BIO	Biotronik	A manufacturer name.	1.0.0	753731
	BSX	Boston Scientific	A manufacturer name.	1.0.0	753732
	CCS	Cardiac Control Systems	A manufacturer name.	1.0.0	753733
	CIM	Cardiac Impulse	A manufacturer name.	1.0.0	753734
	CPM	Cardio-Pace Medical	A manufacturer name.	1.0.0	753735
	CKP	Cook Pacemaker Corp.	A manufacturer name.	1.0.0	753736
	CATM	Coratomic Inc.	A manufacturer name.	1.0.0	753737
	COR	Cordis	A manufacturer name.	1.0.0	753738

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	ELA	ELA Medical	A manufacturer name.	1.0.0	753739
	GDT	Guidant	A manufacturer name.	1.0.0	753740
	IMC	Intermedics	A manufacturer name.	1.0.0	753741
	IMT	Implantronik	A manufacturer name.	1.0.0	753742
	MCO	Medico	A manufacturer name.	1.0.0	753743
	MDT	Medtronic	A manufacturer name.	1.0.0	753744
	OSC	Oscor	A manufacturer name.	1.0.0	753745
	OSY	Osypka	A manufacturer name.	1.0.0	753746
	PCS	Pacesetter	A manufacturer name.	1.0.0	753747
	SIE	Siemens	A manufacturer name	1.0.0	753748
	SOM	Somedics	A manufacturer name.	1.0.0	753749
	SOR	Sorin	A manufacturer name.	1.0.0	753750
	STJ	St.Jude Medical	A manufacturer name.	1.0.0	753751
	STO	Stoeckert	A manufacturer name.	1.0.0	753752
	TEL	Teletronics	A manufacturer name.	1.0.0	753753
	VEN	Ventritex	A manufacturer name.	1.0.0	753754
	VIT	Vitatron	A manufacturer name.	1.0.0	753755
	Other	Other	A manufacturer other than that contained in the current nomenclature.	1.0.0	753756
MDC_IDC_ENUM_LEAD_POLARITY_TYPE	UNI	Unipolar Lead	A lead with a single electrode.	1.0.0	753793
	BI	Bipolar Lead	A lead with a two electrodes.	1.0.0	753794
	TRI	Tripolar Lead	A lead with a three electrodes.	1.0.0	753795
	QUAD	Quadripolar Lead	A lead with a four electrodes.	1.0.0	753796
	MULTI	Multipolar Lead	A lead with more than four electrodes.	1.0.0	753797
	Unknown	Unknown	An indicator showing that polarity type is unknown for the lead.	1.0.0	753798
MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER	LA	Left Atrium	The left atrium of the heart.	1.0.0	753857
	LV	Left Ventricle	The left ventricle of the heart.	1.0.0	753858
	RA	Right Atrium	The right atrium of the heart.	1.0.0	753859
	RV	Right Ventricle	The right ventricle of the heart.	1.0.0	753860
	OTHER	Other	A location other than the heart chambers.	1.0.0	753861

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	Unknown	Unknown	An indicator showing that the lead location is unknown for the lead.	1.0.0	753862
MDC_IDC_ENUM_LEAD_LOCATION_DETAIL	Anterior	Anterior	The front of the heart or further descriptor of the cardiac veins.	1.0.0	753921
	Apex	Apex	The highest or lowest physical location in a heart chamber.	1.0.0	753922
	Appendage	Appendage	A muscular pouch in the left atrium of the heart.	1.0.0	753923
	CardiacVein	Cardiac Vein	The cardiac vein of the heart.	1.0.0	753924
	VenaCava	Vena Cava	The vena cava of the heart.	1.0.0	753925
	CoronarySinus	Coronary Sinus	A specific cardiac vein of the heart.	1.0.0	753926
	Distal	Distal	A location furthest from a specified reference.	1.0.0	753927
	Epicardial	Epicardial	The outside surface of the heart.	1.0.0	753928
	FreeWall	Free Wall	A further detail for a location within the heart.	1.0.0	753929
	Great	Great	A further descriptor of the cardiac veins.	1.0.0	753930
	High	High	A further descriptor for a location within the heart.	1.0.0	753931
	Lateral	Lateral	A further descriptor for a location within the heart.	1.0.0	753932
	Left	Left	A further descriptor for a location within the heart.	1.0.0	753933
	Low	Low	A further descriptor for a location within the heart.	1.0.0	753934
	Marginal	Marginal	A further descriptor for a location within the heart.	1.0.0	753935
	Middle	Middle	A further descriptor for a location within the heart.	1.0.0	753936
	Myocardial	Myocardial	The muscle tissue of the heart.	1.0.0	753937
	OutflowTract	Outflow Tract	The part of the left ventricle where the blood exits through the pulmonary artery.	1.0.0	753938
	Posterior	Posterior	The back of the heart or further descriptor of the cardiac veins.	1.0.0	753939
	Proximal	Proximal	A location nearest to a specified reference.	1.0.0	753940
	Right	Right	A further descriptor for a location within the heart.	1.0.0	753941
	Septum	Septum	The walls that separate the chambers of the heart.	1.0.0	753942
	Subclavian	Subclavian	A major artery connected to the heart.	1.0.0	753943
	Subcutaneous	Subcutaneous	A location under the skin.	1.0.0	753944
	Superior	Superior	A specific cardiac vein of the heart.	1.0.0	753945

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	HISbundle	HIS bundle	The electrical fibers in the heart, inside the septum between the left and right ventricles.	1.0.0	753946
	Other	Other	A location other than that which is contained in current nomenclature.	1.0.0	753947
	Unknown	Unknown	An indicator showing that the lead location detail is unknown for the lead.	1.0.0	753948
MDC_IDC_ENUM_LEAD_STATUS	Connected	Connected	An indicator that a cardiac lead is functional and in use.	1.0.0	753985
	Abandoned	Abandoned	An indicator that a cardiac lead is nonfunctional and not in use.	1.0.0	753986
MDC_IDC_ENUM_SESS_TYPE	Implant	Implant	An indicator that the data was acquired at the time of the surgical implant.	1.0.0	754049
	InClinic	In Clinic	An indicator that the data was acquired when the patient was in a hospital or clinic.	1.0.0	754050
	Remote	Remote	An indicator that the data was acquired while the patient was outside a hospital or clinic.	1.0.0	754051
	RemoteDeviceInitiated	Remote Device Initiated	An indicator that the data was acquired while the patient was outside a hospital or clinic using transmission equipment and because of a condition the device detected.	1.0.0	754052
	RemoteScheduled	Remote Scheduled	An indicator that the data was acquired while the patient was outside a hospital or clinic using transmission equipment and at a time that was planned in advance.	1.0.0	754053
	RemotePatientInitiated	Remote Patient Initiated	An indicator that the data was acquired while the patient was outside a hospital or clinic using transmission equipment and because of an action by the patient at a time that was not planned in advance.	1.0.0	754054
	Other	Other	An interrogation session type not currently defined within the nomenclature.	1.0.0	754055
	Unknown	Unknown	An indicator showing that the session type is unknown for the interrogation session.	1.0.0	754056
MDC_IDC_ENUM_BATTERY_STATUS	BOS	Beginning of Service	The device battery is at the beginning of its service.	1.0.0	754113
	EOS	End of Service	The device battery is depleted.	1.0.0	754114
	RRT	Recommended Replacement Time	An indicator that the device should be replaced.	1.0.0	754115

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	MOS	Middle of Service	The device battery is in use but not depleted or nearing depletion.	1.0.0	754116
	Unknown	Unknown	An indicator showing that the battery status is unknown for the battery.	1.0.0	754117
MDC_IDC_ENUM_CHARGE_TYPE	Shock	Shock	The measurement was made when the capacitor was being charged for the purpose of delivering a high-voltage shock.	1.0.0	754177
	Reformation	Reformation	The measurement was made when the capacitor was being charged for routine maintenance not involving shock delivery.	1.0.0	754178
	Unknown	Unknown	An indicator showing that the charge type is unknown for the charge.	1.0.0	754179
MDC_IDC_ENUM_CHANNEL_STATUS	CheckLead	Check Lead	A notification that the lead appears to be not functioning properly per the device vendor-specific criterion.	1.0.0	754241
	Null	Null	The absence of a lead status notification.	1.0.0	754242
MDC_IDC_ENUM_POLARITY	UNI	Unipolar	The lead measurement or setting is between one lead electrode and the device can.	1.0.0	754305
	BI	Bipolar	The lead measurement or setting is between two lead electrodes.	1.0.0	754306
	Unknown	Unknown	An indicator showing that the polarity is unknown for the electrode.	1.0.0	754307
MDC_IDC_ENUM_MEASUREMENT_METHOD	ProgrammerManual	Programmer Manual	A manual measurement made using a programmer. The measurement was made by a clinician programming different device values and noting when changes were observed.	1.0.0	754369
	ProgrammerAutomatic	Programmer Automatic	The measurement was made by a clinician using an automatic routine within the programmer.	1.0.0	754370
	DeviceAutomatic	Device Automatic	The measurement was made by an automatic routine within the device.	1.0.0	754371
	Unknown	Unknown	An indicator showing that the measurement method is unknown.	1.0.0	754372
MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE	LowVoltage	Low Voltage Pulse	The measurement was made using voltage levels associated with a cardiac pacing pulses or lower.	1.0.0	754433

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	Shock	Shock	The measurement was made using high-voltage energy during delivery of a shock.	1.0.0	754434
	Unknown	Unknown	An indicator showing that the measurement type is unknown for the high-voltage channel measurement.	1.0.0	754435
MDC_IDC_ENUM_ELECTRODE_LOCATION	RA	Right Atrium	The right atrium of the heart.	1.0.0	754497
	RV	Right Ventricle	The right ventricle of the heart.	1.0.0	754498
	LA	Left Atrium	The left atrium of the heart.	1.0.0	754499
	LV	Left Ventricle	The left ventricle of the heart.	1.0.0	754500
	SVC	Superior Vena Cava	The superior vena cava.	1.0.0	754501
	Other	Other	Other location.	1.0.0	754502
	Unknown	Unknown	An indicator showing that the location is unknown for the electrode.	1.0.0	754503
MDC_IDC_ENUM_ELECTRODE_NAME	Tip	Tip	A tip electrode of the lead.	1.0.0	754561
	Ring	Ring	A ring electrode of the lead.	1.0.0	754562
	Ring1	Ring1	The first ring electrode of a multielectrode lead relative to the distal end of the lead.	1.0.0	754563
	Ring2	Ring2	The second ring electrode of a multielectrode lead relative to the distal end of the lead.	1.0.0	754564
	Ring3	Ring3	The third ring electrode of a multielectrode lead relative to the distal end of the lead.	1.0.0	754565
	Ring4	Ring4	The fourth ring electrode of a multielectrode lead relative to the distal end of the lead.	1.0.0	754566
	Coil	Coil	A coil electrode of the lead.	1.0.0	754567
	SubQPatch	Subcutaneous Patch	A subcutaneous patch electrode.	1.0.0	754568
	Can	Can	The housing electrode of the device.	1.0.0	754569
	Other1	Other1	Other electrode 1.	1.0.0	754570
	Other2	Other2	Other electrode 2.	1.0.0	754571
	Other3	Other3	Other electrode 3.	1.0.0	754572
	Other4	Other4	Other electrode 4.	1.0.0	754573
	Other5	Other5	Other electrode 5.	1.0.0	754574
	Other6	Other6	Other electrode 6.	1.0.0	754575
	Other7	Other7	Other electrode 7.	1.0.0	754576

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	Other8	Other8	Other electrode 8.	1.0.0	754577
	Other9	Other9	Other electrode 9.	1.0.0	754578
	Other10	Other10	Other electrode 10.	1.0.0	754579
	Unknown	Unknown	An indicator showing that the type is unknown for the electrode.	1.0.0	754580
MDC_IDC_ENUM_SENSING_ADAPTATION_MODE	AdaptiveSensing	Adaptive	The sensing threshold changes automatically.	1.0.0	754625
	FixedSensing	Fixed	The sensing threshold is fixed.	1.0.0	754626
MDC_IDC_ENUM_PACING_CAPTURE_MODE	AdaptiveCapture	Adaptive	The pacing stimulus changes automatically to maintain capture.	1.0.0	754689
	FixedPacing	Fixed Pacing	The pacing stimulus is fixed.	1.0.0	754690
	MonitorCapture	Monitor	The device measures the stimulus threshold for cardiac pacing but does not automatically change the stimulus.	1.0.0	754691
	Other	Other	A capture mode other than those included in the nomenclature.	1.0.0	754692
MDC_IDC_ENUM_BRADY_MODE	AAI	AAI	The pacing mode per the NBG standard.	1.0.0	754753
	AAIR	AAIR	The pacing mode per the NBG standard.	1.0.0	754754
	AAT	AAT	The pacing mode per the NBG standard.	1.0.0	754755
	AATR	AATR	The pacing mode per the NBG standard.	1.0.0	754756
	AOO	AOO	The pacing mode per the NBG standard.	1.0.0	754757
	AOOR	AOOR	The pacing mode per the NBG standard.	1.0.0	754758
	DAD	DAD	The pacing mode per the NBG standard.	1.0.0	754759
	DDD	DDD	The pacing mode per the NBG standard.	1.0.0	754760
	DDDR	DDDR	The pacing mode per the NBG standard.	1.0.0	754761
	DDI	DDI	The pacing mode per the NBG standard.	1.0.0	754762
	DDIR	DDIR	The pacing mode per the NBG standard.	1.0.0	754763
	DOO	DOO	The pacing mode per the NBG standard.	1.0.0	754764
	DOOR	DOOR	The pacing mode per the NBG standard.	1.0.0	754765
	DVI	DVI	The pacing mode per the NBG standard.	1.0.0	754766
	DVIR	DVIR	The pacing mode per the NBG standard.	1.0.0	754767
	VAT	VAT	The pacing mode per the NBG standard.	1.0.0	754768
	VDD	VDD	The pacing mode per the NBG standard.	1.0.0	754769
	VDDR	VDDR	The pacing mode per the NBG standard.	1.0.0	754770

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	VOO	VOO	The pacing mode per the NBG standard.	1.0.0	754771
	VOOR	VOOR	The pacing mode per the NBG standard.	1.0.0	754772
	VVI	VVI	The pacing mode per the NBG standard.	1.0.0	754773
	VVIR	VVIR	The pacing mode per the NBG standard.	1.0.0	754774
	VVT	VVT	The pacing mode per the NBG standard.	1.0.0	754775
	OOO	OOO	The pacing mode per the NBG standard.	1.0.0	754776
	OOOR	OOOR	The pacing mode per the NBG standard.	1.0.0	754777
	VDI	VDI	The pacing mode per the NBG standard.	1.0.0	754778
	VDIR	VDIR	The pacing mode per the NBG standard.	1.0.0	754779
	ODO	ODO	The pacing mode per the NBG standard.	1.0.0	754780
	VVTR	VVTR	The pacing mode per the NBG standard.	1.0.0	754781
	DDTR	DDTR	The pacing mode per the NBG standard.	1.0.0	754782
	OVO	OVO	The pacing mode per the NBG standard.	1.0.0	754783
	DVTR	DVTR	The pacing mode per the NBG standard.	1.0.0	754784
	DDT	DDT	The pacing mode per the NBG standard.	1.0.0	754785
	VDTR	VDTR	The pacing mode per the NBG standard.	1.0.0	754786
	VDT	VDT	The pacing mode per the NBG standard.	1.0.0	754787
	ADIR	ADIR	The pacing mode per the NBG standard.	1.0.0	754788
	ADI	ADI	The pacing mode per the NBG standard.	1.0.0	754789
	Unknown	Unknown	An indicator showing that the brady mode is unknown for the brady device.	1.0.0	754790
MDC_IDC_ENUM_THERAPY_STATUS	On	On	An indicator showing that tachy therapies are ON.	1.0.0	754817
	Off	Off	An indicator showing that tachy therapies are OFF.	1.0.0	754818
	Unknown	Unknown	An indicator showing that the tachy therapy status is unknown for the tachy device.	1.0.0	754819
MDC_IDC_ENUM_EPISODE_TYPE	Epis_VF	VF	An episode type of ventricular fibrillation.	1.0.0	754881
	Epis_VT	VT	An episode type of ventricular tachycardia.	1.0.0	754882
	Epis_ATAF	AT/AF	An episode type of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	754883
	Epis_SVT	SVT	An episode type of supraventricular tachycardia.	1.0.0	754884
	Epis_Monitor	Monitor	An episode type that is only being observed.	1.0.0	754885

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
	Epis_PeriodicEGM	Periodic EGM	An episode type that is being observed periodically.	1.0.0	754886
	Epis_PatientActivated	Patient Activated	An episode type that is triggered by the patient.	1.0.0	754887
	Epis_Other	Other	An episode that is not included in the enumerations.	1.0.0	754888
MDC_IDC_ENUM_ZONE_TYPE	Zone_VF	VF	An zone type of ventricular fibrillation.	1.0.0	754945
	Zone_VT	VT	An zone type of ventricular tachycardia.	1.0.0	754946
	Zone_ATAF	AT/AF	An zone type of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	754947
	Zone_Other	Other	Indicates a selection other than any in the list of selections.	1.0.0	754948
MDC_IDC_ENUM_ZONE_STATUS	Active	Active	An indicator showing that tachyarrhythmia detection and therapy is on for the designated chamber.	1.0.0	755009
	Inactive	Inactive	An indicator showing that tachyarrhythmia detection and therapy is off for the designated chamber.	1.0.0	755010
	Monitor	Monitor	An indicator showing that tachyarrhythmia detection is on but therapy is OFF for the designated chamber.	1.0.0	755011
	Unknown	Unknown	An indicator showing that tachyarrhythmia detection an therapy is unknown for the designated chamber.	1.0.0	755012
MDC_IDC_ENUM_ATP_TYPE	Burst	Burst	A tachyarrhythmia therapy that uses pacing stimulus at a fixed pacing rate for a specific number of pulses.	1.0.0	755073
	Ramp	Ramp	A tachyarrhythmia therapy that uses pacing stimulus at a pacing rate that increases or decreases.	1.0.0	755074
	BurstScan	Burst+Scan	A tachyarrhythmia therapy that uses pacing stimulus at a fixed pacing rate with the time between ATP pulses being reduced with each subsequent burst.	1.0.0	755075
	RampScan	Ramp+Scan	A tachyarrhythmia therapy that uses pacing stimulus at a pacing rate with the time between ATP pulses being reduced with each subsequent burst.	1.0.0	755076
	Other	Other	Indicates a selection other than any in the list of selections.	1.0.0	755077
	Unknown	Unknown	An indicator showing that ATP type is unknown for the ATP pulses.	1.0.0	755078

Table D.1—Enumerations

Enumerator identifier	Enumeration code (mnemonic)	Display name	Definition	Version	Code
MDC_IDC_ENUM_EPISODE_THERAPY_RESULT	Successful	Successful	An indicator that shows the specific therapy was successful in terminating the tachyarrhythmia.	1.0.0	755137
	Unsuccessful	Unsuccessful	An indicator that shows the specific therapy was not successful in terminating the tachyarrhythmia.	1.0.0	755138
	Unknown	Unknown	An indicator that shows the results of the specific therapy was unkown.	1.0.0	755139
MDC_IDC_ENUM_SESS_REPROGRAMMED	YES	YES	An indicator that shows the device was reprogrammed during the last session.	1.0.0	755201
	NO	NO	An indicator that shows the device was not reprogrammed during the last session.	1.0.0	755202
	Unknown	Unknown	An indicator that shows that device reprogramming is unknown.	1.0.0	755203
MDC_IDC_ENUM_CRT_PACED_CHAMBERS	RV_Only	RVOnly	An indicator that shows that only the RV chamber is being paced for resynchronization.	1.0.0	755265
	LV_Only	LVOnly	An indicator that shows that only the LV chamber is being paced for resynchronization.	1.0.0	755266
	BiV	BiV	An indicator that shows that both the RV and LV chamber are being paced for resynchronization.	1.0.0	755267
	Unknown	Unknown	An indicator showing that CRT paced chambers are unknown for the CRT device.	1.0.0	755268
MDC_IDC_ENUM_EPISODE_TYPE_INDUCED	YES	YES	An indicator that shows that the episode was induced.	1.0.0	755329
	NO	NO	An indicator that shows that the episode was not induced.	1.0.0	755330
	Unknown	Unknown	An indicator showing that whether the episode was induced or not unknown for the recorded episode.	1.0.0	755331

Annex E

(informative)

Vendor enumerations

E.1 Overview

An enumeration is a restrictive set of values provided for an enumerated term. There are two types of enumerations: enumerations common to the domain and vendor-specific enumerations. Vendor-specific enumerations are informative. Enumerations considered common to the domain are normative. This annex presents the informative vendor enumerations with enumerator root, enumeration code, display name, and definition attributes (Table E.1 through Table E.5).

E.2 Enumeration attributes

E.2.1 Enumerator identifier

The enumerator identifier is a text identifier that references a set of term enumerations. Base terms that are enumerated have an associated enumerator identifier (see Annex A).

E.2.2 Enumeration code

A numeric token that uniquely identifies each enumeration of the nomenclature.

E.2.3 Display name

The display name is a text phrase that describes the enumeration and is suited for presenting enumerations on a report or user interface.

E.2.4 Definition

The definition is a formal statement that describes the meaning or semantic of the enumeration.

E.3 Vendor enumerations

E.3.1 Enumerations Biotronik

Table E.1—Enumerations Biotronik

INFORMATIVE					
Enumerator identifier	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
MDC_IDC_ENUM_EPISODE_VENDOR_TYPE	BIO-Epis_VF	VF	An episode of ventricular fibrillation (BIOTRONIK).	1.0.0	770049
	BIO-Epis_VT	VT	An episode of ventricular tachycardia (BIOTRONIK).	1.0.0	770050
	BIO-Epis_VT1	VT1	An episode VT1 of ventricular tachycardia (BIOTRONIK).	1.0.0	770051
	BIO-Epis_VT2	VT2	An episode VT2 of ventricular tachycardia (BIOTRONIK).	1.0.0	770052
	BIO-Epis_NSVT	NSVT	An episode of a nonsustained ventricular tachycardia (BIOTRONIK).	1.0.0	770053
	BIO-Epis_SVT	SVT	An episode of supraventricular tachycardia (BIOTRONIK).	1.0.0	770054
	BIO-Epis_ATAF	AT/AF	An episode of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia (BIOTRONIK).	1.0.0	770055
	BIO-Epis_AFlut	AFlut	An episode of atrial flutter (BIOTRONIK).	1.0.0	770056
	BIO-Epis_AFib	AFib	An episode of atrial fibrillation (BIOTRONIK).	1.0.0	770057
	BIO-Epis_AT	AT	An episode of atrial tachycardia (BIOTRONIK).	1.0.0	770058
	BIO-Epis_ModeSw	ModeSw	An episode of mode switching (BIOTRONIK).	1.0.0	770059
	BIO-Epis_AMon	Atr. Mon	An atrial monitoring episode (BIOTRONIK).	1.0.0	770060
	BIO-Epis_VMon	Ven. Mon	A ventricular monitoring episode (BIOTRONIK).	1.0.0	770061
	BIO-Epis_HVR	High Ven. Rate	An episode of high ventricular rate (BIOTRONIK).	1.0.0	770062
	BIO-Epis_HAR	High Atr. Rate	An episode of high atrial rate (BIOTRONIK).	1.0.0	770063
	BIO-Epis_HR	High Rate	An episode of high rate (BIOTRONIK).	1.0.0	770064
	BIO-Epis_PMT	PMT	An episode of pacemaker mediated tachycardia (BIOTRONIK).	1.0.0	770065
	BIO-Epis_PIEGM	Periodic IEGM	A periodic IEGM (BIOTRONIK).	1.0.0	770066
	BIO-Epis_PAT	Pat. Triggered	A patient triggered IEGM (BIOTRONIK).	1.0.0	770067

Table E.1—Enumerations Biotronik

INFORMATIVE					
Enumerator identifier	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
MDC_IDC_ENUM_ZONE_VENDOR_TYPE	BIO-Zone_VF	VF	The ventricular fibrillation zone (BIOTRONIK).	1.0.0	770113
	BIO-Zone_VT	VT	The ventricular tachycardia zone (BIOTRONIK).	1.0.0	770114
	BIO-Zone_VT1	VT1	The ventricular tachycardia zone 1 (BIOTRONIK).	1.0.0	770115
	BIO-Zone_VT2	VT2	The ventricular tachycardia zone 2 (BIOTRONIK).	1.0.0	770116
	BIO-Zone_SVT	SVT	The supraventricular tachycardia zone (BIOTRONIK).	1.0.0	770117
	BIO-Zone_ATAF	AT/AF	The atrial tachycardia / atrial fibrillation zone (BIOTRONIK).	1.0.0	770118
	BIO-Zone_AFlut	AFlut	The atrial flutter zone (BIOTRONIK).	1.0.0	770119
	BIO-Zone_AFib	AFib	The atrial fibrillation zone (BIOTRONIK).	1.0.0	770120
	BIO-Zone_AT	AT	The atrial tachycardia zone (BIOTRONIK).	1.0.0	770121
	BIO-Zone_ModeSw	ModeSw	The mode switching zone (BIOTRONIK).	1.0.0	770122
	BIO-Zone_AMon	Atr. Mon	The atrial monitoring zone (BIOTRONIK).	1.0.0	770123
	BIO-Zone_VMon	Ven. Mon	The ventricular monitoring zone (BIOTRONIK).	1.0.0	770124
	BIO-Zone_HVR	High Ven. Rate	The high ventricular rate zone (BIOTRONIK).	1.0.0	770125
	BIO-Zone_HAR	High Atr. Rate	The high atrial rate zone (BIOTRONIK).	1.0.0	770126
	BIO-Zone_HR	High Rate	The high rate zone (BIOTRONIK).	1.0.0	770127

E.3.2 Enumerations Boston Scientific

Table E.2—Enumerations Boston Scientific

INFORMATIVE					
Enumerator identifier	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
MDC_IDC_ENUM_EPISODE_VENDOR_TYPE	BSX-Epis_VF	VF	A Boston Scientific episode subclassification of ventricular fibrillation.	1.0.0	771073
	BSX-Epis_VT	VT	A Boston Scientific episode subclassification of ventricular tachycardia.	1.0.0	771074
	BSX-Epis_VT-1	VT-1	A Boston Scientific episode subclassification of fast ventricular tachycardia.	1.0.0	771075
	BSX-Epis_SVT	SVT	A Boston Scientific episode subclassification of supraventricular tachycardia.	1.0.0	771076
	BSX-Epis_NSVT	NSVT	A Boston Scientific episode subclassification of nonsustained ventricular tachycardia.	1.0.0	771077
	BSX-Epis_ATR	ATR	A Boston Scientific episode subclassification of atrial tachycardia response.	1.0.0	771078
	BSX-Epis_PMT	PMT	A Boston Scientific episode subclassification of pacemaker mediated tachycardia.	1.0.0	771079
	BSX-Epis_PTM	PTM	A Boston Scientific episode subclassification of patient triggered monitor.	1.0.0	771080
	BSX-Epis_Afib	Afib	A Boston Scientific episode subclassification of atrial fibrillation.	1.0.0	771081
	BSX-Epis_AF	AF	A Boston Scientific episode subclassification of atrial fibrillation.	1.0.0	771082
	BSX-Epis_AT	AT	A Boston Scientific episode subclassification of atrial tachycardia.	1.0.0	771083
	BSX-Epis_RMS	RMS	A Boston Scientific episode subclassification of reverse mode switch episode.	1.0.0	771084
	BSX-Epis_APMRT	APMRT	A Boston Scientific episode subclassification of	1.0.0	771085
MDC_IDC_ENUM_ZONE_VENDOR_TYPE	BSX-Zone_VT	VT	A Boston Scientific zone subclassification of ventricular tachycardia.	1.0.0	771137
	BSX-Zone_VT-1	VT-1	A Boston Scientific zone subclassification of fast ventricular tachycardia.	1.0.0	771138

Table E.2—Enumerations Boston Scientific

INFORMATIVE					
Enumerator identifier	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
	BSX-Zone_VF	VF	A Boston Scientific zone subclassification of fast ventricular fibrillation.	1.0.0	771139
	BSX-Zone_SVT	SVT	A Boston Scientific zone subclassification of supraventricular tachycardia.	1.0.0	771140
	BSX-Zone_Afib	Afib	A Boston Scientific zone subclassification of atrial fibrillation.	1.0.0	771141
	BSX-Zone_AF	AF	A Boston Scientific zone subclassification of atrial fibrillation.	1.0.0	771142
	BSX-Zone_AT	AT	A Boston Scientific zone subclassification of atrial tachycardia.	1.0.0	771143

E.3.3 Enumerations Medtronic

Table E.3—Enumerations Medtronic

INFORMATIVE					
Enumerator identifier	**Enumeration codes [mnemonic]**	**Display name**	**Definition**	**Version**	**Code**
MDC_IDC_ENUM_EPISODE_VENDOR_TYPE	MDT-Eps_VF	VF	A Medtronic episode subclassification of ventricular fibrillation.	1.0.0	772097
	MDT-Epis_VT	VT	A Medtronic episode subclassification of ventricular tachyarrhythmia.	1.0.0	772098
	MDT-Epis_Fast_VT	Fast VT	A Medtronic episode subclassification of fast ventricular tachyarrhythmia.	1.0.0	772099
	MDT-Epis_AT_AF	AT AF	A Medtronic episode subclassification of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	772100

Table E.3—Enumerations Medtronic

INFORMATIVE					
Enumerator identifier	**Enumeration codes [mnemonic]**	**Display name**	**Definition**	**Version**	**Code**
	MDT-Epis_Fast_AT_AF	Fast AT AF	A Medtronic episode subclassification of fast atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	772101
	MDT-Epis_SVT	SVT	A Medtronic episode subclassification of supraventricular tachycardia.	1.0.0	772102
	MDT-Epis_NS_VT	NSVT	A Medtronic episode subclassification of non-sustained ventricular tachycardia.	1.0.0	772103
	MDT-Epis_Periodic_EGM	Periodic EGM	A Medtronic episode subclassification of periodic EGM recording.	1.0.0	772104
	MDT-Epis_Rate_Drop	Rate Drop	A Medtronic episode subclassification of sudden drop in heart rate.	1.0.0	772105
	MDT-Epis_V_Sensing	V Sensing	A Medtronic episode subclassification of ventricular sensing resulting in inhibition of ventricular pacing therapy.	1.0.0	772106
	MDT-Epis_HR	High Rate	A Medtronic episode subclassification of high heart rate without designation of being atrial or ventricular.	1.0.0	772107
	MDT-Epis_VHR	V High Rate	A Medtronic episode subclassification of high ventricular rate.	1.0.0	772108
	MDT-Epis_AHR	A High Rate	A Medtronic episode subclassification of high atrial rate.	1.0.0	772109
MDC_IDC_ENUM_ZONE_VENDOR_TYPE	MDT-Zone_VF	VF	A Medtronic zone subclassification of ventricular fibrillation.	1.0.0	772161
	MDT-Zone_VT	VT	A Medtronic zone subclassification of ventricular tachyarrhythmia.	1.0.0	772162
	MDT-Zone_FastVT	FastVT	A Medtronic zone subclassification of fast ventricular tachyarrhythmia.	1.0.0	772163
	MDT-Zone_FastATAF	FastATAF	A Medtronic zone subclassification of fast atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	772164
	MDT-Zone_MonVT	MonVT	A Medtronic zone subclassification of ventricular tachycardia that is only being monitored with no therapy being delivered.	1.0.0	772165

Table E.3—Enumerations Medtronic

INFORMATIVE					
Enumerator identifier	**Enumeration codes [mnemonic]**	**Display name**	**Definition**	**Version**	**Code**
	MDT-Zone_MonATAF	MonATAF	A Medtronic zone subclassification of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia, which is being monitored with no therapy being delivered.	1.0.0	772166
	MDT-Zone_HR	High Rate	A Medtronic zone subclassification of high heart rate without designation of being atrial or ventricular.	1.0.0	772167
	MDT-Zone_VHR	V High Rate	A Medtronic zone subclassification of high ventricular rate.	1.0.0	772168
	MDT-Zone_AHR	A High Rate	A Medtronic zone subclassification of high atrial rate.	1.0.0	772169

E.3.4 Enumerations Sorin

Table E.4—Enumerations Sorin

INFORMATIVE					
Enumerator root	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
MDC_IDC_ENUM_EPISODE_VENDOR_TYPE	SOR-Epis_VF	VF	Episode of ventricular fibrillation (Sorin).	1.0.0	774145
	SOR-Epis_FastVT	FastVT	Episode of fast ventricular tachycardia (Sorin).	1.0.0	774146
	SOR-Epis_VT	VT	Episode of ventricular tachycardia (Sorin).	1.0.0	774147
	SOR-Epis_SlowVT	SlowVT	Episode of slow ventricular tachycardia (Sorin).	1.0.0	774148
	SOR-Epis_SVT	SVT	Episode of supraventricular tachycardia (Sorin).	1.0.0	774149
	SOR-Epis_SVTVT	SVT-VT	Episode of treated supraventricular tachycardia (Sorin).	1.0.0	774150
	SOR-Epis_SVTST	SVT-ST	Episode of nontreated supraventricular tachycardia (Sorin).	1.0.0	774151
	SOR-Epis_ModeSwitch	Mode Switch	Episode of mode switching (Sorin).	1.0.0	774152
	SOR-Epis_NST	Non Sustained	Episode of a non-sustained ventricular tachycardia (Sorin).	1.0.0	774153

Table E.4—Enumerations Sorin

INFORMATIVE					
Enumerator root	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
	SOR-Epis_ABurst	A Burst	Episode of an atrial burst (Sorin).	1.0.0	774154
	SOR-Epis_VBurst	V Burst	Episode of a ventricular burst (Sorin).	1.0.0	774155
	SOR-Epis_AVBI	AVB I	Episode of atrio-ventricular block I in SafeR mode (Sorin).	1.0.0	774156
	SOR-Epis_AVBII	AVB II	Episode of atrio-ventricular block II in SafeR mode (Sorin).	1.0.0	774157
	SOR-Epis_AVBIII	AVB III	Episode of atrio-ventricular block III in SafeR mode (Sorin).	1.0.0	774158
	SOR-Epis_Pause	Pause	Episode of pause in SafeR mode (Sorin).	1.0.0	774159
	SOR-Epis_Security	Security	Episode of AVB in security windows in SafeR mode (Sorin).	1.0.0	774160
	SOR-Epis_PMT	PMT	Episode of PMT detection (Sorin).	1.0.0	774161
	SOR-Epis_Impedance	Impedance	Episode of impedance variation between two impedance tests (Sorin).	1.0.0	774162
	SOR-Epis_VCapture	V Capture	Episode of threshold variation between two automatic threshold tests (Sorin).	1.0.0	774163
	SOR-Epis_FU	Follow-up	Episode during of follow-up (Sorin).	1.0.0	774164
MDC_IDC_ENUM_ZONE_VENDOR_TYPE	SOR-Zone_VF	VF	The ventricular fibrillation zone (Sorin).	1.0.0	774209
	SOR-Zone_FastVT	FastVT	The fast ventricular tachycardia zone (Sorin).	1.0.0	774210
	SOR-Zone_VT	VT	The ventricular tachycardia zone (Sorin).	1.0.0	774211
	SOR-Zone_SlowVT	SlowVT	The slow ventricular tachycardia zone (Sorin).	1.0.0	774212

E.3.5 Enumerations St. Jude Medical

Table E.5—Enumerations St. Jude Medical

INFORMATIVE					
Enumerator root	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
MDC_IDC_ENUM_EPISODE_VENDOR_TYPE	STJ-Epis_VF	VF	A St. Jude Medical episode subclassification of ventricular fibrillation.	1.0.0	773121
	STJ-Epis_VT	VT	A St. Jude Medical episode subclassification of ventricular tachyarrhythmia.	1.0.0	773122
	STJ-Epis_SVT	SVT	A St. Jude Medical episode subclassification of supraventricular tachycardia.	1.0.0	773123
	STJ-Epis_VT1	VT1	A St. Jude Medical episode subclassification of the slowest tachycardia.	1.0.0	773124
	STJ-Epis_VT2	VT2	A St. Jude Medical episode subclassification of the faster tachycardia.	1.0.0	773125
	STJ-Epis_AT_AF	AT/AF	A St. Jude Medical episode subclassification of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	773126
	STJ-Epis_AMS	AMS	A St. Jude Medical episode subclassification of auto mode switch.	1.0.0	773127
	STJ-Epis_NoiseReversion	Noise Reversion	A St. Jude Medical episode subclassification of noise revision.	1.0.0	773128
	STJ-Epis_PMTTermination	PMT Termination	A St. Jude Medical episode subclassification of pacemaker mediated tachycardia termination.	1.0.0	773129
	STJ-Epis_MagnetResp.	Magnet Response	A St. Jude Medical episode subclassification of magnet response.	1.0.0	773130
	STJ-Epis_EmergencyShock	Emergency Shock	A St. Jude Medical episode subclassification of emergency shock.	1.0.0	773131
	STJ-Epis_MorphTemplate	Morphology Template	A St. Jude Medical episode subclassification of morphology template update.	1.0.0	773132
	STJ-Epis_ReturnToSinus	Return to Sinus	A St. Jude Medical episode subclassification of Return to Sinus condition.	1.0.0	773133
	STJ-Epis_HighVRate	High V-Rate	A St. Jude Medical episode subclassification of high ventricular rate.	1.0.0	773134

Table E.5—Enumerations St. Jude Medical

INFORMATIVE					
Enumerator root	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
	STJ-Epis_HighARate	High A-Rate	A St. Jude Medical episode subclassification of high atrial rate.	1.0.0	773135
	STJ-Epis_AMSEntry	AMS Entry	A St. Jude Medical episode subclassification of entry into auto-mode switch.	1.0.0	773136
	STJ-Epis_AMSExit	AMS Exit	A St. Jude Medical episode subclassification of exit from auto-mode switch.	1.0.0	773137
	STJ-Epis_AdvHysteresis	Advanced Hyseresis	A St. Jude Medical episode subclassification of morphology template update.	1.0.0	773138
	STJ-Epis_ConsecutivePVCs	Consecutive PVCs	A St. Jude Medical episode subclassification of consecutive premature ventricular contractions.	1.0.0	773139
	STJ-Epis_LossOfCapture	Loss of Capture	A St. Jude Medical episode subclassification of loss of capture.	1.0.0	773140
	STJ-Epis_CannotDetermineSummary	Cannot Determine Summary	A St. Jude-Medical episode subclassification with no episode summary.	1.0.0	773141
	STJ-Epis_VTTimeout	VT Timeout	A St. Jude-Medical episode subclassification with ventricular tachycardia timeout.	1.0.0	773142
	STJ-Epis_SVT_VTTimeout	SVT/VT Timeout	A St. Jude-Medical episode subclassification with either supraventricular tachycardia or ventricular tachycardia timeout.	1.0.0	773143
	STJ-Epis_SVTTimeout	SVT Timeout	A St. Jude-Medical episode subclassification of induced episode for device-based testing.	1.0.0	773144
	STJ-Epis_DBT	DBT	A St. Jude Medical episode subclassification of DBT.	1.0.0	773145
	STJ-Epis_Non-sustained	Non-sustained VT	A St. Jude Medical episode subclassification of nonsustained VT.	1.0.0	773146
	STJ-Epis_VF_RVLeadNoise	RV Lead noise - VF	A St. Jude Medical episode subclassification of lead noise seen as VF.	1.0.0	773147
	STJ-Epis_VT_RVLeadNoise	RV Lead noise - VT	A St. Jude Medical episode subclassification of lead noise seen as VT.	1.0.0	773148
	STJ-Epis_VT1_RVLeadNoise	RV Lead noise - VT1	A St. Jude Medical episode subclassification of lead noise seen as VT1.	1.0.0	773149

Table E.5—Enumerations St. Jude Medical

INFORMATIVE					
Enumerator root	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
	STJ-Epis_VT2_RVLeadNoise	RV Lead noise - VT2	A St. Jude Medical episode subclassification of lead noise seen as VT2.	1.0.0	773150
	STJ-Epis_VF_SecureSenseTimeout	Secure Sense - VF	A St. Jude Medical episode subclassification of secure sense seen as VF.	1.0.0	773151
	STJ-Epis_VT_SecureSenseTimeout	Secure Sense Timeout - VT	A St. Jude Medical episode subclassification of secure sense seen as VT.	1.0.0	773152
	STJ-Epis_VT1_SecureSenseTimeout	Secure Sense Timeout - VT1	A St. Jude Medical episode subclassification of secure sense seen as VT1.	1.0.0	773153
	STJ-Epis_VT2_SecureSenseTimeout	Secure Sense Timeout - VT2	A St. Jude Medical episode subclassification of secure sense seen as VT2.	1.0.0	773154
	STJ-Epis_SVT_RVLeadNoise	Lead Noise - SVT	A St. Jude Medical episode subclassification of lead noise seen as SVT.	1.0.0	773155
	STJ-Epis_SVTTimeout_RVLeadNoise	Lead Noise - SVT Timeout	A St. Jude Medical episode subclassification of lead noise seen as SVT timeout.	1.0.0	773156
	STJ-Epis_Non-sustained_RVLeadNoise	Lead Noise - Non-Sustained	A St. Jude Medical episode subclassification of lead noise seen as nonsustained VT.	1.0.0	773157
	STJ-Epis_RVLeadNoise	RV Lead Noise	A St. Jude Medical episode subclassification of RV lead noise.	1.0.0	773158
	STJ-Epis_SecureSenseTimeout	Secure Sense Timeout	A St. Jude Medical episode subclassification of secure sense timeout.	1.0.0	773159
MDC_IDC_ENUM_ZONE_VENDOR_TYPE	STJ-Zone_VF	VF	A St. Jude Medical zone subclassification of ventricular fibrillation.	1.0.0	773185
	STJ-Zone_VT	VT	A St. Jude Medical zone subclassification of ventricular tachyarrhythmia.	1.0.0	773186
	STJ-Zone_SVT	SVT	A St. Jude Medical zone subclassification of supraventricular tachycardia.	1.0.0	773187

Table E.5—Enumerations St. Jude Medical

INFORMATIVE					
Enumerator root	**Enumeration codes (mnemonic)**	**Display name**	**Definition**	**Version**	**Code**
	STJ-Zone_VT1	VT1	A St. Jude Medical zone subclassification of the slowest tachycardia.	1.0.0	773188
	STJ-Zone_VT2	VT2	A St. Jude Medical zone subclassification of the faster tachycardia.	1.0.0	773189
	STJ-Zone_AT_AF	AT/AF	A St. Jude Medical zone subclassification of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.	1.0.0	773190

Annex F

(informative)

Example report

Patient Name:	Doe, John	--> IEEE 11073-10101
Date of Birth:	Jan 1, 1940	--> IEEE 11073-10101
Gender:	Male	--> IEEE 11073-10101

Interrogation Date, Type:	Oct 25, 2007 10:00 AM, Remote
Previous Interrogation Date, Type, Program:	Sep 25, 2007 10:00 AM, In-Clinic (Reprogrammed)
Clinician Name, Clinic:	Dr. Anderson, Main Heart Center New Jersey
Clinician Contact:	Phone: +1 12 345 6789, e-mail: follow-up-physician@clinic.org

Device Demographics

Device Type:	CRT-D
Device Manufacturer:	Manufacturer Name
Device Model:	Device Model Name
Device Serial Number:	5867463524
Device Implant Date:	May 1, 2005
Device Implanter, Facility:	Dr. Miller, Main Heart Center New York
Device Implanter Contact:	Phone: +1 12 345 6789

Lead Demographics

	Lead 1	**Lead 2**	**Lead 3**	**—**
Lead Location Chamber:	RA	RV	LV	
Lead Location Detail:	Appendage	Apex	Free wall	
Lead Implant Date:	05/01/2005	05/01/2005	05/01/2005	
Lead Manufacturer:	Vendor Name	Vendor Name	Vendor Name	
Lead Model:	SuperSense	SuperSense	SuperSense	
Lead Serial Number:	1234567812	1234567813	1234567814	
Lead Polarity Type:	Unipolar	Bipolar	Quadrupolar	
Lead Connection Status:	Connected	Connected	Connected	
Lead Special Function:	Pressure Sensor			

STATUS / MEASURMENTS

Battery	08/25/2007
Battery Status:	MOS
Battery Voltage:	6.3 V
Battery Impedance:	2500 Ohm
Battery Remaining:	75 % 4 years 11 months

Capacitor	(most recent charging)
Charge Date:	June 1, 2006 10:00 a.m.
Charge Time:	8.1 s
Charge Energy:	36 J
Charge Type:	Reformation

RRT (ERI) Trigger:	Battery voltage < 5.7 V / Cap. Charge time > 12 s

Lead Channel Measurements/Status	Observation date/time (interval):
	08/24/2007 02:01 - 08/25/2007 02:01 (24 h)
	[1] 08/21/2007 02:01 - 08/22/2007 02:01 (24 h)

	RA		RV		LV [1]	
Mean Intrinsic Amplitude:	2.5 mV	(BP)	4.7 mV	(BP)	3.5 mV	(BP)
Min Intrinsic Amplitude:	2.2 mV	(BP)	4.0 mV	(BP)	2.2 mV	(BP)
Impedance:	500 Ω	(BP)	> 3000 Ω	(BP)	500 Ω	(BP)
Pacing Threshold:	0.7 V @ 0.5 ms	(BP)	0.6 V @ 0.5 ms	(UP)	0.6 V @ 0.5 ms	(BP)
			0.4 V @ 0.5 ms	(BP)		
Threshold Measurement Method:	Progr manual		Dev automatic		Progr automatic	
Lead Channel Status:	—		Check Lead		—	

Shock Lead Configuration and Measurement		
Cathode[-] – Anode[+]	**Impedance, Date/Time, Measurement-Type**	**Status**
RV Coil, RA Coil – Can	330 Ω, 10/03/2007, low-voltage pulse	Check lead

Brady Statistics [1]		
RA Pacing:	50 %	[2]
RV Pacing:	30 %	[2]
AP-VP:	10 %	
AS-VP:	20 %	
AP-VS:	40 %	
AS-VS:	60 %	

Mean Atr. Heart Rate [2]:	72 bpm	
Mean Ven. Heart Rate [2]:	72 bpm	

Atrial Tachy Statistics [2]	
AT/AF Burden per day:	10 %
Max ModeSw-Epis Duration:	48.6 h
Time in ModeSw per day:	5 %
Number of ModeSw per day:	360

CRT Statistics [2]	
LV Pacing:	95 %
CRT Pacing:	80 %

[1] 09/25/2007 10:01 a.m. to 10/25/2007 10:00 a.m. (previous 4 weeks)
[2] 10/24/2007 09:20 a.m. to 10/25/2007 09:20 a.m. (last 24 h)
...

COUNTERS / EPISODES

Episode Counts		
Type	**Recent[1]**	**Total[2]**
VF	1	4
VT1	0	0
ModeSw	2	150
AT/AF	3	3
...	...	...

Therapy Counts		
Therapy	**Recent[1]**	**Total[2]**
Shocks delivered	1	5
Shocks aborted	0	0
ATPs	2	3

[1] Since 09/27/2009 10:12 a.m. (last 3 weeks), [2] Since Implantation (05/01/2005) or device reset

Episode List

ID	Date/Time	Type	Therapy applied / Details	Result	Atr./Ven. Rate [bpm] Detect	Term	Duration hh:mm:ss
1723	03/30/2009 02:00:16	Periodic IEGM	Monitoring only		- / -	- / -	-
...	...	...	...	...	...	...	...
7	10/27/2007 07:04:02	VT1	No therapies	-	80 / 140	101 / 103	00:00:17
6	10/27/2007 12:10:03	VT2	2 ATP, 5x 30J / 30J Shock ineffective	Unsuccessful	83 / 140	75 / 75	00:00:17
5	10/24/2007 23:00:04	ATR	10 ATP	Successful	200 / 60	60 / 60	43:00:13
4	10/11/2007 10:12:05	NST	- / Non sustained	-	95 / 158	75 / 75	00:00:30
3	08/09/2007 02:00:12	Periodic IEGM	Monitoring only	-	- / -	- / -	-
...	...	...	...	...	...	...	...
1	07/09/2007 08:15:12	VF (induced)	30J Shock	Successful	104 / 210	102 / 102	00:00:11

DEVICE SETTINGS

Brady Settings	
Brady Mode:	DDDR
Lower Rate:	60 bpm
Hysteresis Rate:	55 bpm
Night Rate:	55 bpm
Sensor Type:	Accelerometer
Max Tracking Rate:	130 bpm
Max Sensor Rate:	120 bpm
SAV Delay:	140..180 ms
PAV Delay:	110..150 ms

Atrial Tachyarrhythmia Settings	
AT Mode Switch Mode:	DDIR
AT Mode Switch Rate:	180 bpm

CRT Settings	
CRT Paced chambers:	BiV
LV-RV Delay:	-20 ms

Magnet Mode:	Detection and therapies temporarily suspended

Tachyarrhythmia Zone Settings

Ventricular Therapy: ON **Atrial Therapy:** N/A

Zone	Limit bpm	Detection X of Y	ATP	Shocks	Details	Status
VF	195	12/18	1x Ramp	5x 30J		Active
VT1	165	9/12	5x Burst	1x 20J, 1x 30J, 5x 30J	SMART detection and redetection on	Active
FastVT	165	9/12	5x Ramp+Scan	1x 20J, 5x 30J	Progressive therapy	Active
VTMon	145	-	-	-		Active
AT/AF	200	12/15	-	-	Triggers Mode Switch	Inactive
Periodic IEGM	-	-	-	-	Every 30 days	Active
...	...	...	...	...	...	...

Lead Channel Settings

	RA	RV	LV
Sensitivity:	0.8 mV (fixed)	1.3 mV (adaptive)	1 mV (fixed)
Sensing Polarity	Unipolar	Bipolar	Bipolar
Sensing Vector:	RA Tip – Can	RV Tip – RV Ring	LV Tip – LV Ring
Pacing Output:	1.8 V (fixed)	2.0 V (adaptive)	2.0 V (adaptive)
Pacing Pulse Width:	0.5 ms	0.5 ms	0.5 ms
Pacing Polarity:	Unipolar	Bipolar	Bipolar
Pacing Vector:	RA Ring – Can	RV Tip – RV Ring	LV Tip – RV Ring

Annex G

(informative)

Implementation notes

G.1 Overview

The following implementation aspects should be considered if this nomenclature is implemented.

G.2 Identifiers based on the [HIGHLOW] discriminator

Identifiers based on the [HIGHLOW] discriminator report a range of a parameter or value. In some cases, only one value may be provided by the reporting system indicating a constant value instead of a range. Consuming systems should be able to handle this and should represent singular values correctly.

Example:

— The reporter only provides MDC_IDC_SET_BRADY_SAV_DELAY_HIGH = 50 ms and no _LOW value. The reporting system should display *SAV delay = 50 ms* instead of a false *SAV delay = .. 50* ms or similar (see also page 72 in the example report).

G.3 Abnormal flags, null flavors

Measured values may not be available for different reasons (measurement could not be finished due to side conditions or the feature is off on purpose in the device or the value is out of range). It is therefore recommended to use and process abnormal flags (or null flavor codes) in addition to the reported (or not reported) measured values. Codes for abnormal flags (or null flavors) are not part of this standard but can be found in the according implementation profile or the underlying message standard.

Examples:

— The reporting system provides MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_VALUE = 3000 ohm and an abnormal flag for ‘greater than’ in addition. The consuming system should show *RV Impedance = > 3000 Ohm* (see also page 71 in the example report) instead of a false *RV Impedance = 3000 Ohm.*

— The reporting system only provides the abnormal flag for “OFF” attached to MDC_IDC_MSMT_LEADCHNL_RV_IMPEDANCE_VALUE. The consuming system should show *RV Impedance = OFF,* which indicates that the measurement is in principle possible but off at the moment. Never show *OFF* or similar if the reporting system does not provide the parameter at all.

G.4 Maintaining an episode list

Systems providing episode data based on this standard will mostly provide unique episode identifiers (MDC_IDC_EPISODE_ID). Due to device resets or similar, they might not be unique throughout the device service time. Consuming systems should therefore uniquely identify an episode by means of the ID and the episode detection date and time. This will allow consuming systems to identify already received episodes so that a complete list of episodes without redundant content can be maintained and provided per patient.

G.5 Identifiers incorporating the [MMM] discriminator (Min, Max, Mean)

Min and Max values are rarely provided. For general purpose, consuming systems can therefore focus on mean values. For a detailed statistical analysis and a correct representation in a graph, the additional values may become important. Measurement values without one of the [MMM] discriminators should not be used to provide a value.

If a statistical value has been determined for (more or less) a moment in time, reporting systems can indicate that by providing a measurement interval of length zero.

Example:

— Mean heart rate has been determined at 11h:13m:40s to be 60 bpm.
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MEAN = 60
MDC_IDC_STAT_HEART_RATE_DTM_START = 20100205111340
MDC_IDC_STAT_HEART_RATE_DTM_END = 20100205111340

G.6 Identifiers with a Null discriminator

Identifiers with a Null discriminator (e.g., MDC_IDC_STAT_HEART_RATE_VENTRICULAR) should not be used to provide content. They should only be used to structure a message or transmission.

Example:

— MDC_IDC_STAT_HEART_RATE_VENTRICULAR cannot be used
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MAX can be used
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MIN can be used
MDC_IDC_STAT_HEART_RATE_VENTRICULAR_MEAN can be used

G.7 Measurement dates and times (_DTM_[STRTEND])

Reporting systems should only use the date and time identifiers of this nomenclature (e.g., MDC_IDC_MSMT_DTM_START/_END) to report about measurement dates and times instead of partly available date and time fields in underlying message standards (e.g., OBX.14 in HL7). This will avoid inconsistencies between vendors and keep the number of dates manageable for the consumer.

If only a _START or only an _END time is provided by the reporter, consuming systems should interpret that as a measurement at a moment in time where XXX_START = XXX_END.

The session date and time (MDC_IDC_SESS_DTM) shall be assumed as the measurement timestamps if the last is not provided for a measurement section.

Time zone offsets for date and time fields should be provided if available. Time and date stamps for internal device measurements may not contain offsets.

G.8 Measurement dates and times for episode counts (_COUNT_DTM)

A receiver may receive multiple _COUNT_DTM_[STREND] for the different episode types but should just use/display the first received for all types.

A reporter is allowed to report just one _COUNT_DTM_[STREND] for one episode type that is then valid for all episode counters provided.

NOTE—It does not make sense to provide AT, VT, and VF counters for different time intervals (e.g., the last few months) with one message.

Annex H

(informative)

Schema and XML for nomenclature

H.1 Description

As a means of verification, the terminology for the normative portions of the base nomenclature is documented using XML. An XML document was created that contains sections for defining terms and related enumerations. An XML Schema was created that defines constaints for the specific structures and contents of the XML document. Finally, an XSLT script was created that expands the base nomenclature using discriminators, thereby producing the final list of normative terms and their associated numeric codes.

The subsequent sections contain the following:

- H.2 Schema—The XML Schema for the XML file that contains the normative base nomenclature
- H.3 XML—The XML document that contains the normative base nomenclature
- H.4 XSLT—The XSLT script used to expand the normative base terms using discriminators and assign numeric codes
- H.5 XML Discriminators—An XML document and associated schema that contains discriminator information used by the XSLT script for term expansion

NOTE—The XML Schema, XSLT transforms and XML data files contained in this annex are available at the following URL: http://standards.ieee.org/downloads/11073/11073-10103-2012/.

H.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- edited with XMLSpy v2008 sp1 (http://www.altova.com) by Nicholas Steblay (Boston Scientfic) -->
<!-- file: terms.v0.8g.xsd -->
<!-- Schema for IEEE P11073-10102 aECG and P11073-10103 IDC Nomenclature Terms -->
<!-- Paul Schluter 2009-01-30T17 -->
<xs:schema xmlns="http://www.ieee.org/11073/nomenclature" xmlns:xs="http://www.w3.org/2001/XMLSchema" targetNamespace="http://www.ieee.org/11073/nomenclature"
elementFormDefault="qualified">
<!-- -->
<!-- Type definitions -->
<!-- -->
<xs:simpleType name="ListOfUnitsIEEE">
<xs:list itemType="xs:token"/>
</xs:simpleType>
<xs:simpleType name="ListOfUnitsUCUM">
<xs:list itemType="xs:token"/>
</xs:simpleType>
<xs:simpleType name="ListOfEnums">
<xs:list itemType="xs:token"/>
</xs:simpleType>
<xs:simpleType name="ListOfEnumGroups">
<xs:list itemType="xs:token"/>
</xs:simpleType>
<xs:simpleType name="ListOfUnitGroups">
<xs:list itemType="xs:token"/>
</xs:simpleType>
<xs:simpleType name="ListOfEnumCard">
<xs:restriction base="xs:string">
<xs:pattern value="(0\.\.1|0\.\.\*|1\.\.1|1\.\.\*)(\s((token(\srefid)?)|(refid(\stoken)?)))?"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="CanonicalUnitDimensions">
<xs:restriction base="xs:string">
<xs:pattern value="(L-?\d?)?(M-?\d?)?(T-?\d?)?(I-?\d?)?(Q-?\d?)?(N-?\d?)?(J-?\d?)?(\[arb\])?"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="ListOfVendorID">
<xs:list itemType="xs:token"/>
</xs:simpleType>
```

```
<xs:simpleType name="ListOfDataType">
<xs:list itemType="xs:token"/>
</xs:simpleType>
<!-- -->
<!-- Term partition definition -->
<!-- -->
<xs:element name="partition">
<xs:complexType>
<xs:sequence>
<!-- -->
<xs:element name="partitionDescription">
<xs:complexType>
<xs:sequence>
<xs:element name="title" type="xs:string"/>
<xs:element name="date" type="xs:date"/>
<xs:element name="version" type="xs:string"/>
<xs:element name="component" type="xs:string" minOccurs="0"/>
<xs:element name="discriminatorRef" minOccurs="0" maxOccurs="10">
<xs:complexType>
<xs:attribute name="idref" type="xs:token" use="required"/>
</xs:complexType>
</xs:element>
<xs:element name="basePart" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="baseCode" type="xs:unsignedShort" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<!-- -->
<xs:element name="Terms" minOccurs="0">
<xs:complexType>
<xs:sequence maxOccurs="unbounded">
<xs:element name="term" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:sequence maxOccurs="unbounded">
<xs:choice>
<xs:element name="REFID" type="xs:string"/>
<xs:element name="SysName" type="xs:string"/>
<xs:element name="Description">
<xs:complexType mixed="true">
<xs:sequence minOccurs="0" maxOccurs="unbounded">
<xs:element name="sidenote" type="xs:string" minOccurs="0"/>
<xs:element name="bullet" type="xs:string" minOccurs="0"/>
<xs:element name="footnote" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
<xs:element name="CommonTerm" type="xs:string" minOccurs="0"/>
<xs:element name="Mnemonic" minOccurs="0">
<xs:complexType>
<xs:simpleContent>
<xs:extension base="xs:string">
<xs:attribute name="indent" type="xs:unsignedShort" default="0"/>
</xs:extension>
</xs:simpleContent>
</xs:complexType>
</xs:element>
<xs:element name="PART" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="ECODE10" type="xs:unsignedLong"/>
<xs:element name="CF_CODE10" type="xs:unsignedInt" minOccurs="0"/>
<xs:element name="UOM_UCUM" type="ListOfUnitsUCUM" minOccurs="0"/>
<xs:element name="UOM_MDC" type="ListOfUnitsIEEE" minOccurs="0"/>
<xs:element name="UPART" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="UCODE10" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="CF_UCODE10" type="xs:unsignedInt" minOccurs="0"/>
<xs:element name="DIM" type="CanonicalUnitDimensions" minOccurs="0"/>
<xs:element name="Enum_Values" type="ListOfEnums" minOccurs="0"/>
<xs:element name="Enum_Card" type="ListOfEnumCard" minOccurs="0"/>
<xs:element name="External_Sites" type="ListOfEnums" minOccurs="0"/>
<xs:element name="DataType" type="ListOfDataType" minOccurs="0"/>
<!-- the following columns/elements provide additional information about each term -->
<xs:element name="scp" type="xs:string" minOccurs="0"/>
<xs:element name="mit-bih" type="xs:string" minOccurs="0"/>
<xs:element name="other" type="xs:string" minOccurs="0"/>
<xs:element name="auxinfo" type="xs:string" minOccurs="0"/>
</xs:choice>
</xs:sequence>
<xs:sequence>
<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:sequence>
<xs:attribute name="exclude" type="xs:string"/>
</xs:complexType>
</xs:element>
<xs:element name="termSectionTitle" minOccurs="0">
<xs:complexType mixed="true">
<xs:sequence minOccurs="0" maxOccurs="unbounded">
<xs:element name="footnote" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
```

```
</xs:complexType>
</xs:element>
<!-- -->
<xs:element name="note" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>
<!-- -->
<xs:element name="Enums" minOccurs="0">
<xs:annotation>
<xs:documentation>Local enums are searched first followed by common enums in an external file.</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:sequence>
<xs:element name="term" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:sequence maxOccurs="unbounded">
<xs:choice>
<xs:element name="_ENUM_GROUPS" type="ListOfEnumGroups"/>
<xs:element name="GroupDescription" type="xs:string"/>
<xs:element name="TOKEN" type="xs:string"/>
<xs:element name="REFID" type="xs:token"/>
<xs:element name="PART" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="ECODE10" type="xs:unsignedLong" minOccurs="0"/>
<xs:element name="CF_CODE10" type="xs:unsignedInt" minOccurs="0"/>
<xs:element name="DisplayName" type="xs:string" minOccurs="0"/>
<xs:element name="CommonTerm" type="xs:string" minOccurs="0"/>
<xs:element name="Description" type="xs:string" minOccurs="0"/>
<xs:element name="ApplicationDescription" type="xs:string" minOccurs="0"/>
<xs:element name="VendorID" type="ListOfVendorID" minOccurs="0"/>
<xs:element name="Discussion" type="xs:string" minOccurs="0"/>
</xs:choice>
</xs:sequence>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<!-- -->
<xs:element name="Units" minOccurs="0">
<xs:annotation>
<xs:documentation>Units are located in a common external file.</xs:documentation>
</xs:annotation>
<xs:complexType>
<xs:sequence>
<xs:element name="term" maxOccurs="unbounded">
<xs:complexType>
<xs:all>
<xs:element name="Dimension" type="xs:string" minOccurs="0"/>
<xs:element name="Unit_of_Measure" type="xs:string" minOccurs="0"/>
<xs:element name="Symbol" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="UOM_UCUM" type="ListOfUnitsUCUM"/>
<xs:element name="REFID" type="xs:token"/>
<xs:element name="ECODE10" type="xs:unsignedShort" minOccurs="0"/>
<xs:element name="DIM" type="CanonicalUnitDimensions" minOccurs="0"/>
<xs:element name="_UOM_GROUPS" type="ListOfUnitGroups" minOccurs="0"/>
<xs:element name="Discussion" type="xs:string" minOccurs="0"/>
</xs:all>
</xs:complexType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:element>
<!-- -->
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
```

H.3 XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2008 sp1 (http://www.altova.com)-->
<partition xmlns="http://www.ieee.org/11073/nomenclature" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.ieee.org/11073/nomenclature terms.8g.xsd">
    <partitionDescription>
        <title>IDC Terminology</title>
        <date>2010-06-12</date>
        <version>8g</version>
        <component>IDC</component>
        <basePart>11</basePart>
        <baseCode>0</baseCode>
    </partitionDescription>
    <Terms>
        <term>
            <REFID>MDC_IDC_DEV_TYPE</REFID>
            <SysName>type | cardiac device | idc | mdc</SysName>
            <Description>The type of cardiac device.</Description>
            <DisplayName>Implantable Cardiac Device Type</DisplayName>
            <ECODE10>720897</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_DEV_TYPE</Enum_Values>
        </term>
        <term>
```

```
        <REFID>MDC_IDC_DEV_MODEL</REFID>
        <SysName>model | cardiac device | idc | mdc</SysName>
        <Description>The model identifier of a cardiac device.</Description>
        <DisplayName>Implantable Cardiac Device Model</DisplayName>
        <ECODE10>720898</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_DEV_SERIAL</REFID>
        <SysName>serial number | cardiac device | idc | mdc</SysName>
        <Description>The serial number of a cardiac device.</Description>
        <DisplayName>Implantable Cardiac Device Serial Number</DisplayName>
        <ECODE10>720899</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_DEV_MFG</REFID>
        <SysName>manufacturer | cardiac device | idc | mdc</SysName>
        <Description>The manufacturer of the cardiac device.</Description>
        <DisplayName>Implantable Cardiac Device Manufacturer</DisplayName>
        <ECODE10>720900</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_MFG</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_DEV_IMPLANT_DT</REFID>
        <SysName>implant date | cardiac device | idc | mdc</SysName>
        <Description>The implant date of the cardiac device.</Description>
        <DisplayName>Implantable Cardiac Device Implant Date</DisplayName>
        <ECODE10>720901</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_DEV_IMPLANTER</REFID>
        <SysName>implanter | cardiac device | idc | mdc</SysName>
        <Description>The name of the physician that implanted the cardiac device.</Description>
        <DisplayName>Implantable Cardiac Device Implanter</DisplayName>
        <ECODE10>720902</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_DEV_IMPLANTER_CONTACT_INFO</REFID>
        <SysName>implanter contact information | cardiac device | idc | mdc</SysName>
        <Description>The contact information of the physician that implanted the cardiac device.</Description>
        <DisplayName>Implantable Cardiac Device Implanter Contact Information</DisplayName>
        <ECODE10>720903</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_DEV_IMPLANTING_FACILITY</REFID>
        <SysName>implanting facility | cardiac device | idc | mdc</SysName>
        <Description>The facility (clinic / hospital) where the cardiac device was implanted.</Description>
        <DisplayName>Implantable Cardiac Device Implanting Facility</DisplayName>
        <ECODE10>720904</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_MODEL</REFID>
        <SysName>model | lead | idc | mdc</SysName>
        <Description>The model of the lead.</Description>
        <DisplayName>Implantable Lead Model</DisplayName>
        <ECODE10>720961</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_SERIAL</REFID>
        <SysName>serial number | lead | idc | mdc</SysName>
        <Description>The serial number of the lead.</Description>
        <DisplayName>Implantable Lead Serial Number</DisplayName>
        <ECODE10>720962</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_MFG</REFID>
        <SysName>manufacturer | lead | idc | mdc</SysName>
        <Description>The manufacturer of the lead.</Description>
        <DisplayName>Implantable Lead Manufacturer</DisplayName>
        <ECODE10>720963</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_MFG</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_IMPLANT_DT</REFID>
        <SysName>implant date | lead | idc | mdc</SysName>
        <Description>The implant date of the lead.</Description>
        <DisplayName>Implantable Lead Implant Date</DisplayName>
        <ECODE10>720964</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_POLARITY_TYPE</REFID>
        <SysName>polarity type | lead | idc | mdc</SysName>
        <Description>The number of electrodes on the lead. </Description>
```

```
        <DisplayName>Implantable Lead Polarity Type</DisplayName>
        <ECODE10>720965</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_LEAD_POLARITY_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_LOCATION</REFID>
        <SysName>location | lead | idc | mdc</SysName>
        <Description>The fixation location of the lead, usually indicating a chamber of the heart.</Description>
        <DisplayName>Implantable Lead Location</DisplayName>
        <ECODE10>720966</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_LEAD_LOCATION_CHAMBER</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_LOCATION_DETAIL_1</REFID>
        <SysName>detail 1 | location | lead | idc | mdc</SysName>
        <Description>The first word of a combination of words describing further details of the location.</Description>
        <DisplayName>Implantable Lead Location Detail 1</DisplayName>
        <ECODE10>720967</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_LOCATION_DETAIL_2</REFID>
        <SysName>detail 2 | location | lead | idc | mdc</SysName>
        <Description>The second word of a combination of words describing further details of the location.</Description>
        <DisplayName>Implantable Lead Location Detail 2</DisplayName>
        <ECODE10>720968</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_LOCATION_DETAIL_3</REFID>
        <SysName>detail 3 | location | lead | idc | mdc</SysName>
        <Description>The third word of a combination of words describing further details of the location.</Description>
        <DisplayName>Implantable Lead Location Detail 3</DisplayName>
        <ECODE10>720969</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_CONNECTION_STATUS</REFID>
        <SysName>connection status | lead | idc | mdc</SysName>
        <Description>The physical connection status of the lead, either connected or abandoned.</Description>
        <DisplayName>Implantable Lead Connection Status</DisplayName>
        <ECODE10>720970</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_LEAD_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_LEAD_SPECIAL_FUNCTION</REFID>
        <SysName>special function | lead | idc | mdc</SysName>
        <Description>A description of any special attribute or function of the lead.</Description>
        <DisplayName>Implantable Lead Special Function</DisplayName>
        <ECODE10>720971</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_DTM</REFID>
        <SysName>date time | session | idc | mdc</SysName>
        <Description>The date and time of the in-clinic or remote interrogation session.</Description>
        <DisplayName>Date Time Interrogation Session </DisplayName>
        <ECODE10>721025</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_TYPE</REFID>
        <SysName>type | session | idc | mdc</SysName>
        <Description>The type of device interaction that generated the current data set. </Description>
        <DisplayName>Type Interrogation Session </DisplayName>
        <ECODE10>721026</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_SESS_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_REPROGRAMMED</REFID>
        <SysName>reprogrammed | session | idc | mdc</SysName>
        <Description>The indication of whether the device was re-programmed during the session.</Description>
        <DisplayName>Re-programmed During Session</DisplayName>
        <ECODE10>721027</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_SESS_REPROGRAMMED</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_DTM_PREVIOUS</REFID>
        <SysName>previous date time | session | idc | mdc</SysName>
        <Description>The date and time of a previous in-clinic or remote interrogation.</Description>
        <DisplayName>Date Time Previous Interrogation Session </DisplayName>
        <ECODE10>721028</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
```

```
        <REFID>MDC_IDC_SESS_TYPE_PREVIOUS</REFID>
        <SysName>previous type | session | idc | mdc</SysName>
        <Description>The type of device interaction of the previous interrogation.</Description>
        <DisplayName>Type Previous Interrogation Session </DisplayName>
        <ECODE10>721029</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_SESS_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_REPROGRAMMED_PREVIOUS</REFID>
        <SysName>reprogrammed previous | session | idc | mdc</SysName>
        <Description>The indication of whether the device was re-programmed along with the previous interrogation.</Description>
        <DisplayName>Re-programmed During Previous Session</DisplayName>
        <ECODE10>721030</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_SESS_REPROGRAMMED</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_CLINICIAN_NAME</REFID>
        <SysName>clinician name | session | idc | mdc</SysName>
        <Description>The name of the clinician that is responsible for the examination.</Description>
        <DisplayName>Clinician Name</DisplayName>
        <ECODE10>721031</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_CLINICIAN_CONTACT_INFORMATION</REFID>
        <SysName>clinician contact information | session | idc | mdc</SysName>
        <Description>The contact information for the responsible clinician.</Description>
        <DisplayName>Clinician Contact Information</DisplayName>
        <ECODE10>721032</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_SESS_CLINIC_NAME</REFID>
        <SysName>clinic name | session | idc | mdc</SysName>
        <Description>The name of the clinic where the examination took place. </Description>
        <DisplayName>Clinic Name</DisplayName>
        <ECODE10>721033</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_DTM_[STRTEND]</REFID>
        <SysName>date time_[STRTEND] | measurement | idc | mdc</SysName>
        <Description>The date and time of a discrete or a group of measurements.</Description>
        <DisplayName>Measurement Date Time</DisplayName>
        <ECODE10>721152</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_DTM</REFID>
        <SysName>date time | battery | measurement | idc | mdc</SysName>
        <Description>The date and time of the battery measurements.</Description>
        <DisplayName>Battery Date Time of Measurements</DisplayName>
        <ECODE10>721216</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_STATUS</REFID>
        <SysName>status | battery | measurement | idc | mdc</SysName>
        <Description>The different stages of battery depletion. </Description>
        <DisplayName>Battery Status </DisplayName>
        <ECODE10>721280</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_BATTERY_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_VOLTAGE</REFID>
        <SysName>voltage | battery | measurement | idc | mdc</SysName>
        <Description>The measured battery voltage.</Description>
        <DisplayName>Battery Voltage </DisplayName>
        <ECODE10>721344</ECODE10>
        <UOM_MDC>V</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_IMPEDANCE</REFID>
        <SysName>impedance | battery | measurement | idc | mdc</SysName>
        <Description>The measured battery impedance.</Description>
        <DisplayName>Battery Impedance </DisplayName>
        <ECODE10>721408</ECODE10>
        <UOM_MDC>Ohm</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_REMAINING_LONGEVITY</REFID>
        <SysName>remaining longevity | battery | measurement | idc | mdc</SysName>
        <Description>The estimated amount of battery capacity remaining in months.</Description>
        <DisplayName>Battery Remaining Longevity</DisplayName>
        <ECODE10>721472</ECODE10>
        <UOM_MDC>mo</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_REMAINING_PERCENTAGE</REFID>
        <SysName>remaining percentage | battery | measurement | idc | mdc</SysName>
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        <Description>The estimated amount of battery capacity remaining in percent.</Description>
        <DisplayName>Battery Remaining Percentage</DisplayName>
        <ECODE10>721536</ECODE10>
        <UOM_MDC>%</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_BATTERY_RRT_TRIGGER</REFID>
        <SysName>recommended replacement time trigger | battery | measurement | idc | mdc</SysName>
        <Description>The criteria for determining battery end of service condition.</Description>
        <DisplayName>Battery RRT Trigger</DisplayName>
        <ECODE10>721600</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_CAP_CHARGE_DTM</REFID>
        <SysName>last charge date time | capacitor | measurement | idc | mdc</SysName>
        <Description>The date and time of the capacitor charge.</Description>
        <DisplayName>Capacitor Last Charge Date Time </DisplayName>
        <ECODE10>721664</ECODE10>
        <UOM_MDC/>
    </term>
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        <REFID>MDC_IDC_MSMT_CAP_CHARGE_TIME</REFID>
        <SysName>charge time | capacitor | measurement | idc | mdc</SysName>
        <Description>The duration in seconds of the capacitor charge.</Description>
        <DisplayName>Capacitor Charge Time </DisplayName>
        <ECODE10>721728</ECODE10>
        <UOM_MDC>s</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_CAP_CHARGE_ENERGY</REFID>
        <SysName>charge energy | capacitor | measurement | idc | mdc</SysName>
        <Description>The amount of energy stored after the capacitor charge.</Description>
        <DisplayName>Capacitor Charge Energy </DisplayName>
        <ECODE10>721792</ECODE10>
        <UOM_MDC>J</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_CAP_CHARGE_TYPE</REFID>
        <SysName>charge type | capacitor | measurement | idc | mdc</SysName>
        <Description>The type of the capacitor charge.</Description>
        <DisplayName>Capacitor Charge Type </DisplayName>
        <ECODE10>721856</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_CHARGE_TYPE</Enum_Values>
    </term>
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        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_DTM_[STRTEND]</REFID>
        <SysName>date time_[STRTEND] | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The date and time of the lead channel measurements.</Description>
        <DisplayName>Lead Channel Measurements Date and Time</DisplayName>
        <ECODE10>721920</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_LEAD_CHANNEL_STATUS</REFID>
        <SysName>lead channel status | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The indication whether to check the lead.</Description>
        <DisplayName>Lead Channel Status </DisplayName>
        <ECODE10>721984</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_CHANNEL_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_SENSING_INTR_AMPL_[MMM]</REFID>
        <SysName>sensing intrinsic amplitude_[MMM] | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The measured amplitude of the intrinsic cardiac signal.</Description>
        <DisplayName>Lead Channel Sensing Intrinsic Amplitude </DisplayName>
        <ECODE10>722048</ECODE10>
        <UOM_MDC>mV</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_SENSING_POLARITY</REFID>
        <SysName>sensing polarity | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The type of polarity used for the intrinsic amplitude measurement. </Description>
        <DisplayName>Lead Channel Sensing Polarity </DisplayName>
        <ECODE10>722112</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_POLARITY</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_AMPLITUDE</REFID>
        <SysName>amplitude | pacing threshold | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The minimum pulse amplitude needed for pacing capture for a given pulse width.</Description>
        <DisplayName>Lead Channel Pacing Threshold Amplitude </DisplayName>
        <ECODE10>722176</ECODE10>
        <UOM_MDC>V</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_PULSEWIDTH</REFID>
        <SysName>pulse width | pacing threshold | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The pulse width that was applied when determining the pacing threshold amplitude.</Description>
        <DisplayName>Lead Channel Pacing Threshold Pulse Width </DisplayName>
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        <ECODE10>722240</ECODE10>
        <UOM_MDC>ms</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_MEASUREMENT_METHOD</REFID>
        <SysName>measurement method | pacing threshold | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The method that was used to obtain the pacing threshold.</Description>
        <DisplayName>Lead Channel Pacing Threshold Measurement Method</DisplayName>
        <ECODE10>722304</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_MEASUREMENT_METHOD</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_PACING_THRESHOLD_POLARITY</REFID>
        <SysName>polarity | pacing threshold | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The type of lead polarity that was used for the pacing threshold measurement.</Description>
        <DisplayName>Lead Channel Pacing Threshold Polarity </DisplayName>
        <ECODE10>722368</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_POLARITY</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_IMPEDANCE_VALUE</REFID>
        <SysName>value | impedance | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The sum of the impedances of the lead wires and the electrode-myocardial interface. </Description>
        <DisplayName>Lead Channel Impedance Value </DisplayName>
        <ECODE10>722432</ECODE10>
        <UOM_MDC>Ohm</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADCHNL_[CHAMBER]_IMPEDANCE_POLARITY</REFID>
        <SysName>polarity | impedance | lead channel_[CHAMBER] | measurement | idc | mdc</SysName>
        <Description>The type of lead polarity used for measuring the lead impedance.</Description>
        <DisplayName>Lead Channel Impedance Polarity </DisplayName>
        <ECODE10>722496</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_POLARITY</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADHVCHNL_DTM_[STRTEND]</REFID>
        <SysName>date time_[STRTEND] | lead high-voltage  channel | measurement | idc | mdc</SysName>
        <Description>The date and time of the high-voltage  lead channel measurements.</Description>
        <DisplayName>Lead High-voltage  Channel Date Time </DisplayName>
        <ECODE10>722560</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADHVCHNL_IMPEDANCE</REFID>
        <SysName>impedance | lead high-voltage  channel | measurement | idc | mdc</SysName>
        <Description>The sum of the impedances of the shock lead wires and the electrode-myocardial interface. </Description>
        <DisplayName>Lead High-voltage  Channel Impedance </DisplayName>
        <ECODE10>722624</ECODE10>
        <UOM_MDC>Ohm</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADHVCHNL_MEASUREMENT_TYPE</REFID>
        <SysName>measurement type | lead high-voltage  channel | measurement | idc | mdc</SysName>
        <Description>The electric pulse type used for measuring the shock lead impedance.</Description>
        <DisplayName>Lead High-voltage  Channel Measurement Type</DisplayName>
        <ECODE10>722688</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_MSMT_LEADHVCHNL_STATUS</REFID>
        <SysName>status | lead high-voltage  channel | measurement | idc | mdc</SysName>
        <Description>The indication whether to check the high-voltage  lead.</Description>
        <DisplayName>Lead High-voltage  Channel Status</DisplayName>
        <ECODE10>722752</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_CHANNEL_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_CRT_LVRV_DELAY</REFID>
        <SysName>cardiac resynchronization therapy left ventricle right ventricle delay | setting | idc | mdc</SysName>
        <Description>The time between the LV and RV pacing pulses (positive values indicate LV is first).</Description>
        <DisplayName>CRT LV-RV Delay</DisplayName>
        <ECODE10>729344</ECODE10>
        <UOM_MDC>ms</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_SET_CRT_PACED_CHAMBERS</REFID>
        <SysName>cardiac resynchronization therapy paced chambers | setting | idc | mdc</SysName>
        <Description>The ventricular chambers paced during CRT pacing.</Description>
        <DisplayName>Ventricular chambers paced during CRT pacing.</DisplayName>
        <ECODE10>729408</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_CRT_PACED_CHAMBERS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_MAGNET_RESP</REFID>
        <SysName>magnet response | setting | idc | mdc</SysName>
        <Description>A description of how the device responds to a magnet.</Description>
```

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            <DisplayName>Magnet Response</DisplayName>
            <ECODE10>729472</ECODE10>
            <UOM_MDC/>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_SENSITIVITY</REFID>
            <SysName>sensitivity | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The smallest electrical signal programmed to be detected by the device's sensing circuitry.</Description>
            <DisplayName>Lead Channel Setting Sensing Sensitivity</DisplayName>
            <ECODE10>729536</ECODE10>
            <UOM_MDC>mV</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_POLARITY</REFID>
            <SysName>polarity | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The indication of unipolar or bipolar configuration for sensing.</Description>
            <DisplayName>Lead Channel Setting Sensing Polarity </DisplayName>
            <ECODE10>729600</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_POLARITY</Enum_Values>
        </term>
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            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_ANODE_LOCATION_[1..3]</REFID>
            <SysName>anode location_[1..3] | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The location of the electrodes that define the sensing vector's anode, noting that sensing is polarity neutral. An anode may consist of more than one
electrode.</Description>
            <DisplayName>Lead Channel Setting Sensing Anode Location</DisplayName>
            <ECODE10>729664</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_ELECTRODE_LOCATION</Enum_Values>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_ANODE_ELECTRODE_[1..3]</REFID>
            <SysName>anode electrode_[1..3] | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The type of the electrodes that define the sensing vector's anode, noting that sensing is polarity neutral. An anode may consist of more than one
electrode.</Description>
            <DisplayName>Lead Channel Setting Sensing Anode Terminal</DisplayName>
            <ECODE10>729728</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_ELECTRODE_NAME</Enum_Values>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_CATHODE_LOCATION_[1..3]</REFID>
            <SysName>cathode location_[1..3] | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The location of the electrodes that define the sensing vector's cathode, noting that sensing is polarity neutral. A cathode may consist of more than one
electrode.</Description>
            <DisplayName>Lead Channel Setting Sensing Cathode Location</DisplayName>
            <ECODE10>729792</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_ELECTRODE_LOCATION</Enum_Values>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_CATHODE_ELECTRODE_[1..3]</REFID>
            <SysName>cathode electrode_[1..3] | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The type of the electrodes that define the sensing vector's cathode, noting that sensing is polarity neutral. A cathode may consist of more than one
electrode.</Description>
            <DisplayName>Lead Channel Setting Sensing Cathode Terminal</DisplayName>
            <ECODE10>729856</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_ELECTRODE_NAME</Enum_Values>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_SENSING_ADAPTATION_MODE</REFID>
            <SysName>adaptation mode | sensing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>Specifies whether the sensitivity is fixed or adapting.</Description>
            <DisplayName>Lead Channel Setting Sensing Adaptation Mode</DisplayName>
            <ECODE10>729920</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_SENSING_ADAPTATION_MODE</Enum_Values>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_AMPLITUDE</REFID>
            <SysName>amplitude | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The pacing output amplitude.</Description>
            <DisplayName>Lead Channel Setting Pacing Amplitude</DisplayName>
            <ECODE10>729984</ECODE10>
            <UOM_MDC>V</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_PULSEWIDTH</REFID>
            <SysName>pulse width | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The pacing output pulse width.</Description>
            <DisplayName>Lead Channel Setting Pacing Pulse Width</DisplayName>
            <ECODE10>730048</ECODE10>
            <UOM_MDC>ms</UOM_MDC>
        </term>
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            <REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_POLARITY</REFID>
            <SysName>polarity | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
            <Description>The indication of unipolar or bipolar configuration for pacing.</Description>
            <DisplayName>Lead Channel Setting Pacing Polarity</DisplayName>
            <ECODE10>730112</ECODE10>
            <UOM_MDC/>
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<Enum_Values>_MDC_IDC_ENUM_POLARITY</Enum_Values>
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<REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_ANODE_LOCATION_[1..3]</REFID>
<SysName>anode location_[1..3] | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
<Description>The location of the electrodes that define the pacing vector's anode. An anode may consist of more than one electrode.</Description>
<DisplayName>Lead Channel Setting Pacing Anode Location</DisplayName>
<ECODE10>730176</ECODE10>
<UOM_MDC/>
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<REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_ANODE_ELECTRODE_[1..3]</REFID>
<SysName>anode electrode_[1..3] | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
<Description>The type of the electrodes that define the pacing vector's anode. An anode may consist of more than one electrode.</Description>
<DisplayName>Lead Channel Setting Pacing Anode Terminal</DisplayName>
<ECODE10>730240</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_NAME</Enum_Values>
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<REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_CATHODE_LOCATION_[1..3]</REFID>
<SysName>cathode location_[1..3] | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
<Description>The location of the electrodes that define the pacing vector's cathode. A cathode may consist of more than one electrode.</Description>
<DisplayName>Lead Channel Setting Pacing Cathode Location</DisplayName>
<ECODE10>730304</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_LOCATION</Enum_Values>
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<REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_CATHODE_ELECTRODE_[1..3]</REFID>
<SysName>cathode electrode_[1..3] | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
<Description>The type of the electrodes that define the pacing vector's cathode. A cathode may consist of more than one electrode.</Description>
<DisplayName>Lead Channel Setting Pacing Cathode Terminal</DisplayName>
<ECODE10>730368</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_NAME</Enum_Values>
</term>
<term>
<REFID>MDC_IDC_SET_LEADCHNL_[CHAMBER]_PACING_CAPTURE_MODE</REFID>
<SysName>capture mode | pacing | lead channel_[CHAMBER] | setting | idc | mdc</SysName>
<Description>The method the device uses for managing pacing capture.</Description>
<DisplayName>Lead Channel Setting Pacing Capture Mode</DisplayName>
<ECODE10>730432</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_PACING_CAPTURE_MODE</Enum_Values>
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<term>
<REFID>MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_LOCATION_[1..3]</REFID>
<SysName>anode location_[1..3] | vector | shock | lead high-voltage channel | setting | idc | mdc</SysName>
<Description>The location of the anode electrode that defines the shocking vector for the lead. An anode may consist of more than one electrode.</Description>
<DisplayName>Lead High-voltage Channel Setting Shock Vector Anode Location</DisplayName>
<ECODE10>730496</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_LOCATION</Enum_Values>
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<term>
<REFID>MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_ANODE_ELECTRODE_[1..3]</REFID>
<SysName>anode electrode_[1..3] | vector | shock | lead high-voltage channel | setting | idc | mdc</SysName>
<Description>The anode electrode terminal that defines the shocking vector for the lead. An anode may consist of more than one electrode.</Description>
<DisplayName>Lead High-voltage Channel Setting Shock Vector Anode Terminal</DisplayName>
<ECODE10>730560</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_NAME</Enum_Values>
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<REFID>MDC_IDC_SET_LEADHVCHNL_SHOCK_VECTOR_CATHODE_LOCATION_[1..3]</REFID>
<SysName>cathode location_[1..3] | vector | shock | lead high-voltage channel | setting | idc | mdc</SysName>
<Description>The location of the cathode electrode that defines the shocking vector for the lead. A cathode may consist of more than one electrode.</Description>
<DisplayName>Lead High-voltage Channel Setting Shock Vector Cathode Location</DisplayName>
<ECODE10>730624</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_LOCATION</Enum_Values>
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<SysName>cathode electrode_[1..3] | vector | shock | lead high-voltage channel | setting | idc | mdc</SysName>
<Description>The cathode electrode terminal that defines the shocking vector for the lead. A cathode may consist of more than one electrode.</Description>
<DisplayName>Lead High-voltage Channel Setting Shock Vector Cathode Terminal</DisplayName>
<ECODE10>730688</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_ELECTRODE_NAME</Enum_Values>
</term>
<term>
<REFID>MDC_IDC_SET_BRADY_MODE</REFID>
<SysName>mode | brady | setting | idc | mdc</SysName>
<Description>The brady pacing mode according to the NBG standard.</Description>
<DisplayName>Brady Setting Mode (NBG Code)</DisplayName>
<ECODE10>730752</ECODE10>
<UOM_MDC/>
<Enum_Values>_MDC_IDC_ENUM_BRADY_MODE</Enum_Values>
</term>
<term>

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            <REFID>MDC_IDC_SET_BRADY_VENDOR_MODE</REFID>
            <SysName>mode | brady | setting | idc | mdc</SysName>
            <Description>The brady pacing mode as defined by vendor-specific codes.</Description>
            <DisplayName>Brady Setting Mode (Vendor-specific)</DisplayName>
            <ECODE10>730816</ECODE10>
            <UOM_MDC/>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_LOWRATE</REFID>
            <SysName>lowrate | brady | setting | idc | mdc</SysName>
            <Description>The rate at which the device paces in the absence of a cardiac rhythm faster than the lower rate and without influence from features that can affect the
pacing rate.</Description>
            <DisplayName>Brady Setting Lower Rate Limit</DisplayName>
            <ECODE10>730880</ECODE10>
            <UOM_MDC>{beats}/min</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_HYSTRATE</REFID>
            <SysName>hystrate | brady | setting | idc | mdc</SysName>
            <Description>The lower rate for the hysteresis feature.</Description>
            <DisplayName>Brady Setting Hysteresis Rate</DisplayName>
            <ECODE10>730944</ECODE10>
            <UOM_MDC>{beats}/min</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_NIGHT_RATE</REFID>
            <SysName>night rate | brady | setting | idc | mdc</SysName>
            <Description>The lower rate for the night rate feature.</Description>
            <DisplayName>Brady Setting Night Rate</DisplayName>
            <ECODE10>731008</ECODE10>
            <UOM_MDC>{beats}/min</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_SENSOR_TYPE</REFID>
            <SysName>sensor type | brady | setting | idc | mdc</SysName>
            <Description>The type of sensor applied for rate adaptive pacing.</Description>
            <DisplayName>Brady Setting Sensor Type</DisplayName>
            <ECODE10>731072</ECODE10>
            <UOM_MDC/>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_MAX_TRACKING_RATE</REFID>
            <SysName>maximum tracking rate | brady | setting | idc | mdc</SysName>
            <Description>The fastest atrial rate at which ventricular pacing occurs with 1:1 synchrony.</Description>
            <DisplayName>Brady Setting Maximum Tracking Rate</DisplayName>
            <ECODE10>731136</ECODE10>
            <UOM_MDC>{beats}/min</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_MAX_SENSOR_RATE</REFID>
            <SysName>maximum sensor rate | brady | setting | idc | mdc</SysName>
            <Description>The fastest sensor-driven pacing rate that can be achieved in a rate-adaptive pacing system.</Description>
            <DisplayName>Brady Setting Maximum Sensor Rate</DisplayName>
            <ECODE10>731200</ECODE10>
            <UOM_MDC>{beats}/min</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_SAV_DELAY_[HIGHLOW]</REFID>
            <SysName>sav delay_[HIGHLOW] | brady | setting | idc | mdc</SysName>
            <Description>The interval from an intrinsic (sensed) P wave to a paced ventricular event.</Description>
            <DisplayName>Brady Setting SAV Delay</DisplayName>
            <ECODE10>731264</ECODE10>
            <UOM_MDC>ms</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_PAV_DELAY_[HIGHLOW]</REFID>
            <SysName>pav delay_[HIGHLOW] | brady | setting | idc | mdc</SysName>
            <Description>The interval from a paced atrial event to a paced ventricular event.</Description>
            <DisplayName>Brady Setting PAV Delay</DisplayName>
            <ECODE10>731328</ECODE10>
            <UOM_MDC>ms</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_AT_MODE_SWITCH_MODE</REFID>
            <SysName>atrial tachy mode switch mode | brady | setting | idc | mdc</SysName>
            <Description>The atrial tachycardia mode switch mode.</Description>
            <DisplayName>Brady Setting AT Mode Switch Mode</DisplayName>
            <ECODE10>731392</ECODE10>
            <UOM_MDC/>
            <Enum_Values>_MDC_IDC_ENUM_BRADY_MODE</Enum_Values>
        </term>
        <term>
            <REFID>MDC_IDC_SET_BRADY_AT_MODE_SWITCH_RATE</REFID>
            <SysName>atrail tachy mode switch rate | brady | setting | idc | mdc</SysName>
            <Description>The atrial tachycardia mode switch rate.</Description>
            <DisplayName>Brady Setting AT Mode Switch Rate</DisplayName>
            <ECODE10>731456</ECODE10>
            <UOM_MDC>{beats}/min</UOM_MDC>
        </term>
        <term>
            <REFID>MDC_IDC_SET_TACHYTHERAPY_VSTAT</REFID>
            <SysName>ventricular status | tachytherapy | setting | idc | mdc</SysName>
            <Description>The high level programmed status for ventricular tachy therapies.</Description>
```

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        <DisplayName>Tachy Therapy Setting Ventricular Status</DisplayName>
        <ECODE10>731520</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_THERAPY_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_TACHYTHERAPY_ASTAT</REFID>
        <SysName>atrial status | tachytherapy | setting | idc | mdc</SysName>
        <Description>The high level programmed status for atrial tachy therapies.</Description>
        <DisplayName>Tachy Therapy Setting Atrial Status</DisplayName>
        <ECODE10>731584</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_THERAPY_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_TYPE</REFID>
        <SysName>type | zone | setting | idc | mdc</SysName>
        <Description>The general type of the zone for tachy therapy detection. </Description>
        <DisplayName>Zone Setting Type Category</DisplayName>
        <ECODE10>731648</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_ZONE_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_VENDOR_TYPE</REFID>
        <SysName>vendor type | zone | setting | idc | mdc</SysName>
        <Description>The vendor-specific type of the zone for tachy therapy detection. </Description>
        <DisplayName>Zone Setting Vendor Type Category</DisplayName>
        <ECODE10>731712</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_ZONE_VENDOR_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_STATUS</REFID>
        <SysName>status | zone | setting | idc | mdc</SysName>
        <Description>The status of the zone, whether it is active or not.</Description>
        <DisplayName>Zone Setting Status</DisplayName>
        <ECODE10>731776</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_ZONE_STATUS</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_DETECTION_INTERVAL</REFID>
        <SysName>detection interval | zone | setting | idc | mdc</SysName>
        <Description>The upper interval limit of the zone for tachy therapy detection.</Description>
        <DisplayName>Zone Setting Detection Interval</DisplayName>
        <ECODE10>731840</ECODE10>
        <UOM_MDC>ms</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_DETECTION_BEATS_NUMERATOR</REFID>
        <SysName>detection beats numerator | zone | setting | idc | mdc</SysName>
        <Description>The numerator portion of the tachy detection ratio.</Description>
        <DisplayName>Zone Setting Detection Beats Numerator</DisplayName>
        <ECODE10>731904</ECODE10>
        <UOM_MDC>{beats}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_DETECTION_BEATS_DENOMINATOR</REFID>
        <SysName>detection beats denominator | zone | setting | idc | mdc</SysName>
        <Description>The denominator portion of the tachy detection ratio.</Description>
        <DisplayName>Zone Setting Detection Beats Denominator</DisplayName>
        <ECODE10>731968</ECODE10>
        <UOM_MDC>{beats}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_DETECTION_DETAILS</REFID>
        <SysName>detection details | zone | setting | idc | mdc</SysName>
        <Description>A text describing arrhythmia detection details.</Description>
        <DisplayName>Zone Setting Detection Details</DisplayName>
        <ECODE10>732032</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_TYPE_ATP_[1..10]</REFID>
        <SysName>type anti-tachycardia pacing pulse_[1..10] | zone | setting | idc | mdc</SysName>
        <Description>The type of anti-tachycardia pacing (ATP) sequences programmed per ATP type.</Description>
        <DisplayName>Zone Setting ATP Type</DisplayName>
        <ECODE10>732096</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_ATP_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_NUM_ATP_SEQS_[1..10]</REFID>
        <SysName>number of anti-tachycardia pacing pulse sequences_[1..10] | zone | setting | idc | mdc</SysName>
        <Description>The number of anti-tachycardia pacing pulse (ATP) sequences programmed per ATP type.</Description>
        <DisplayName>Zone Setting Number of ATP Sequences</DisplayName>
        <ECODE10>732160</ECODE10>
        <UOM_MDC>{seq}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_SET_ZONE_SHOCK_ENERGY_[1..10]</REFID>
        <SysName>shock energy_[1..10] | zone | setting | idc | mdc</SysName>
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    <Description>The shock energy delivered at a particular sequence of a zone therapy.</Description>
    <DisplayName>Zone Setting Shock Energy</DisplayName>
    <ECODE10>732224</ECODE10>
    <UOM_MDC>J</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_SET_ZONE_NUM_SHOCKS_[1..10]</REFID>
    <SysName>number of shocks_[1..10] | zone | setting | idc | mdc</SysName>
    <Description>The maximum number of shocks set to be delivered at the given shock energy.</Description>
    <DisplayName>Zone Setting Number of Shocks</DisplayName>
    <ECODE10>732288</ECODE10>
    <UOM_MDC>{shocks}</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_DTM_[STRTEND]</REFID>
    <SysName>date time_[STRTEND] | statistic | idc | mdc</SysName>
    <Description>The date and time period for the aggregated statistics.</Description>
    <DisplayName>Statistic Date Time</DisplayName>
    <ECODE10>737488</ECODE10>
    <UOM_MDC/>
</term>
<term>
    <REFID>MDC_IDC_STAT_HEART_RATE_DTM_[STRTEND]</REFID>
    <SysName>date time_[STRTEND] | heart rate | statistic | idc | mdc</SysName>
    <Description>The date and time period for the heart rate statistics.</Description>
    <DisplayName>Statistic Heart Rate Date Time</DisplayName>
    <ECODE10>737616</ECODE10>
    <UOM_MDC/>
</term>
<term>
    <REFID>MDC_IDC_STAT_HEART_RATE_ATRIAL_[MMM]</REFID>
    <SysName>atrial_[MMM] | heart rate | statistic | idc | mdc</SysName>
    <Description>The mean atrial heart rate over the specified time period.</Description>
    <DisplayName>Statistic Atrial Heart Rate</DisplayName>
    <ECODE10>737632</ECODE10>
    <UOM_MDC>{beats}/min</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_HEART_RATE_VENTRICULAR_[MMM]</REFID>
    <SysName>ventricular_[MMM] | heart rate | statistic | idc | mdc</SysName>
    <Description>The mean ventricular heart rate over the specified time period.</Description>
    <DisplayName>Statistic Ventricular Heart Rate</DisplayName>
    <ECODE10>737648</ECODE10>
    <UOM_MDC>{beats}/min</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_BRADY_DTM_[STRTEND]</REFID>
    <SysName>date time_[STRTEND] | brady | statistic | idc | mdc</SysName>
    <Description>The date time period of the brady statistics.</Description>
    <DisplayName>Brady Statistic Date Time</DisplayName>
    <ECODE10>737504</ECODE10>
    <UOM_MDC/>
</term>
<term>
    <REFID>MDC_IDC_STAT_BRADY_RA_PERCENT_PACED</REFID>
    <SysName>right atrial percent paced | brady | statistic | idc | mdc</SysName>
    <Description>The percentage of pacing events in the right atrial chamber over the specified time period.</Description>
    <DisplayName>Brady Statistic RA Percent Paced</DisplayName>
    <ECODE10>737520</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_BRADY_RV_PERCENT_PACED</REFID>
    <SysName>right ventricle percent paced | brady | statistic | idc | mdc</SysName>
    <Description>The percentage of pacing events in the right ventricular chamber over the specified time period.</Description>
    <DisplayName>Brady Statistic RV Percent Paced</DisplayName>
    <ECODE10>737536</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_BRADY_AP_VP_PERCENT</REFID>
    <SysName>ap-vp percent | brady | statistic | idc | mdc</SysName>
    <Description>The percentage of atrial pace - ventricular pace sequences in relationship to all AV sequences over the specified time period.</Description>
    <DisplayName>Brady Statistic AP VP Percent</DisplayName>
    <ECODE10>737552</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_BRADY_AS_VP_PERCENT</REFID>
    <SysName>as-vp percent | brady | statistic | idc | mdc</SysName>
    <Description>The percentage of atrial sense - ventricular pace sequences in relationship to all AV sequences over the specified time period.</Description>
    <DisplayName>Brady Statistic AS VP Percent</DisplayName>
    <ECODE10>737568</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_BRADY_AP_VS_PERCENT</REFID>
    <SysName>ap-vs percent | brady | statistic | idc | mdc</SysName>
    <Description>The percentage of atrial pace - ventricular sense sequences in relationship to all AV sequences over the specified time period.</Description>
    <DisplayName>Brady Statistic AP VS Percent</DisplayName>
    <ECODE10>737584</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
```

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<term>
    <REFID>MDC_IDC_STAT_BRADY_AS_VS_PERCENT</REFID>
    <SysName>as-vs percent | brady | statistic | idc | mdc</SysName>
    <Description>The percentage of atrial sense - ventricular sense sequences in relationship to all AV sequences over the specified time period.</Description>
    <DisplayName>Brady Statistic AS VS Percent</DisplayName>
    <ECODE10>737600</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_DTM_[STRTEND]</REFID>
    <SysName>date time_[STRTEND] | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The date and time period for the AT statistics.</Description>
    <DisplayName>Atrial Tachy Statistic Date Time</DisplayName>
    <ECODE10>737664</ECODE10>
    <UOM_MDC/>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_MODE_SW_MAX_DURATION</REFID>
    <SysName>mode switch maximum duration | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The maximum contiguous time the device is in AT mode switch over the specified time period.</Description>
    <DisplayName>Atrial Tachy Statistic Maximum Mode Switch Duration</DisplayName>
    <ECODE10>737680</ECODE10>
    <UOM_MDC>s</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_BURDEN_PERCENT</REFID>
    <SysName>burden percent | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The percent of time in AT AF per day over the specified time period.</Description>
    <DisplayName>Atrial Tachy Statistic AT/AF Burden Percent</DisplayName>
    <ECODE10>737696</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_MODE_SW_PERCENT_TIME</REFID>
    <SysName>mode switch percent of time | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The percentage of time the device is in AT mode switch over the specified time period.</Description>
    <DisplayName>Atrial Tachy Statistic Percent Time In Mode Switch</DisplayName>
    <ECODE10>737712</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_MODE_SW_PERCENT_TIME_PER_DAY</REFID>
    <SysName>mode switch percent of time per day | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The percentage of time per day the device is in AT mode switch over the specified time period.</Description>
    <DisplayName>Atrial Tachy Statistic Percent Time In Mode Switch Per Day</DisplayName>
    <ECODE10>737728</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_MODE_SW_COUNT</REFID>
    <SysName>mode switch count | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The number of mode switches over the specified time period.</Description>
    <DisplayName>Atrial Tachy Statistic Number Of Mode Switches</DisplayName>
    <ECODE10>737744</ECODE10>
    <UOM_MDC>{switches}</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_AT_MODE_SW_COUNT_PER_DAY</REFID>
    <SysName>mode switch count per day | atrial tachy | statistic | idc | mdc</SysName>
    <Description>The average number of mode switches per day over the specified time period.</Description>
    <DisplayName>Atrial Tachy Statistic Number Of Mode Switches Per Day</DisplayName>
    <ECODE10>737760</ECODE10>
    <UOM_MDC>{switches}</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_CRT_DTM_[STRTEND]</REFID>
    <SysName>date time_[STRTEND] | cardiac resynchronization therapy | statistic | idc | mdc</SysName>
    <Description>The date and time period for the CRT statistics.</Description>
    <DisplayName>CRT Statistic Date Time</DisplayName>
    <ECODE10>737776</ECODE10>
    <UOM_MDC/>
</term>
<term>
    <REFID>MDC_IDC_STAT_CRT_LV_PERCENT_PACED</REFID>
    <SysName>left ventricle percent paced | cardiac resynchronization therapy | statistic | idc | mdc</SysName>
    <Description>The percentage of LV pacing events in relation to all LV events over the specified time period.</Description>
    <DisplayName>CRT Statistic LV Percent Paced</DisplayName>
    <ECODE10>737792</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_CRT_PERCENT_PACED</REFID>
    <SysName>percent paced | cardiac resynchronization therapy | statistic | idc | mdc</SysName>
    <Description>The percentage of LV pacing events due to CRT mode in relation to all ventricular events over the specified time period.</Description>
    <DisplayName>CRT Statistic CRT Percent Paced</DisplayName>
    <ECODE10>737808</ECODE10>
    <UOM_MDC>%</UOM_MDC>
</term>
<term>
    <REFID>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_DELIVERED_RECENT</REFID>
    <SysName>recent shocks delivered | tachy therapy | statistic | idc | mdc</SysName>
    <Description>The number of shocks applied over the specified time period.</Description>
    <DisplayName>Tachy Therapy Statistic Recent Shocks Delivered</DisplayName>
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        <ECODE10>737824</ECODE10>
        <UOM_MDC>{shocks}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_DELIVERED_TOTAL</REFID>
        <SysName>total shocks delivered | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The total number of shocks applied since implantation or device reset.</Description>
        <DisplayName>Tachy Therapy Statistic Total Shocks Delivered</DisplayName>
        <ECODE10>737840</ECODE10>
        <UOM_MDC>{shocks}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_ABORTED_RECENT</REFID>
        <SysName>recent shocks aborted | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The number of shocks aborted over the specified time period.</Description>
        <DisplayName>Tachy Therapy Statistic Recent Shocks Aborted</DisplayName>
        <ECODE10>737856</ECODE10>
        <UOM_MDC>{shocks}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_SHOCKS_ABORTED_TOTAL</REFID>
        <SysName>total shocks aborted | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The total number of shocks aborted since implantation or device reset.</Description>
        <DisplayName>Tachy Therapy Statistic Total Shocks Aborted</DisplayName>
        <ECODE10>737872</ECODE10>
        <UOM_MDC>{shocks}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_ATP_DELIVERED_RECENT</REFID>
        <SysName>recent anti-tachycardia pacing delivered | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The number of anti-tachycardia pacing (ATP) sequences delivered over the specified time period.</Description>
        <DisplayName>Tachy Therapy Statistic Recent ATP Delivered</DisplayName>
        <ECODE10>737888</ECODE10>
        <UOM_MDC>{seq}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_ATP_DELIVERED_TOTAL</REFID>
        <SysName>total anti-tachycardia pacing delivered | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The total number of anti-tachycardia pacing (ATP) sequences delivered since implantation or device reset.</Description>
        <DisplayName>Tachy Therapy Statistic Total ATP Delivered</DisplayName>
        <ECODE10>737904</ECODE10>
        <UOM_MDC>{seq}</UOM_MDC>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_TOTAL_DTM_[STRTEND]</REFID>
        <SysName>date time_[STRTEND] | total | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The date and time period for the total tachy therapy statistics.</Description>
        <DisplayName>Tachy Therapy Statistic Total Date Time</DisplayName>
        <ECODE10>737920</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_TACHYTHERAPY_RECENT_DTM_[STRTEND]</REFID>
        <SysName>date time_[STRTEND] | recent | tachy therapy | statistic | idc | mdc</SysName>
        <Description>The date and time period for the recent tachy therapy statistics.</Description>
        <DisplayName>Tachy Therapy Statistic Recent Date Time</DisplayName>
        <ECODE10>737936</ECODE10>
        <UOM_MDC/>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_EPISODE_TYPE</REFID>
        <SysName>type | episode | statistic | idc | mdc</SysName>
        <Description>The generic type of the episode being reported.</Description>
        <DisplayName>Episode Statistic Type Category</DisplayName>
        <ECODE10>737952</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_EPISODE_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_EPISODE_TYPE_INDUCED</REFID>
        <SysName>type induced | episode | statistic | idc | mdc</SysName>
        <Description>The indication of whether the episode has been induced or not.</Description>
        <DisplayName>Episode Statistic Type Induced</DisplayName>
        <ECODE10>737968</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_EPISODE_TYPE_INDUCED</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_EPISODE_VENDOR_TYPE</REFID>
        <SysName>vendor type | episode | statistic | idc | mdc</SysName>
        <Description>The vendor type of the episode being reported.</Description>
        <DisplayName>Episode Statistic Vendor Type Category</DisplayName>
        <ECODE10>737984</ECODE10>
        <UOM_MDC/>
        <Enum_Values>_MDC_IDC_ENUM_EPISODE_VENDOR_TYPE</Enum_Values>
    </term>
    <term>
        <REFID>MDC_IDC_STAT_EPISODE_RECENT_COUNT</REFID>
        <SysName>recent count | episode | statistic | idc | mdc</SysName>
        <Description>The number of episodes per episode type over the specified time period.</Description>
        <DisplayName>Episode Statistic Recent Count</DisplayName>
        <ECODE10>738000</ECODE10>
        <UOM_MDC/>
```

```
</term>
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    <Description>The date and time period for the recent episode counts.</Description>
    <DisplayName>Episode Statistic Recent Date Time</DisplayName>
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    <Description>The number of episodes per episode type since implantation or device reset.</Description>
    <DisplayName>Episode Statistic Total Count</DisplayName>
    <ECODE10>738032</ECODE10>
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    <DisplayName>Episode Statistic Total Date Time</DisplayName>
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    <DisplayName>Episode Type Induced Flag</DisplayName>
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            <Description>A battery powered implantable device that uses low voltage pulses to stimulate the heart when it is beating too slow.</Description>
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            <ECODE10>753666</ECODE10>
            <DisplayName>Defibrillator</DisplayName>
            <Description>A battery powered implantable device that uses high-voltage  energy to shock the heart when it is beating too fast and mostly includes pacemaker
functionality. </Description>
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            <ECODE10>753667</ECODE10>
            <DisplayName>Cardiac Resynchronization Therapy - Defibrillator</DisplayName>
            <Description>A battery powered implantable device that uses low voltage pulses to stimulate the ventricles of the heart in multiple locations to increase blood
pumping efficiency and also includes pacemaker and defibrillator functionality.</Description>
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            <ECODE10>753668</ECODE10>
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            <Description>A battery powered implantable device that uses low voltage pulses to stimulate the ventricles of the heart in multiple locations to increase blood
pumping efficiency and also includes pacemaker functionality.</Description>
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            <ECODE10>753669</ECODE10>
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            <Description>A battery powered implantable device that monitors and records cardiac activity and does not deliver any therapy.</Description>
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    <DisplayName>Bipolar Lead</DisplayName>
    <Description>A lead with a two electrodes.</Description>
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    <DisplayName>Tripolar Lead</DisplayName>
    <Description>A lead with a three electrodes.</Description>
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    <Description>A lead with a four electrodes.</Description>
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    <Description>A lead with more than four electrodes.</Description>
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    <Description>The left atrium of the heart.</Description>
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    <Description>The left ventricle of the heart.</Description>
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    <Description>The right atrium of the heart.</Description>
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    <Description>The right ventricle of the heart.</Description>
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</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Anterior</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Anterior</REFID>
    <ECODE10>753921</ECODE10>
    <DisplayName>Anterior</DisplayName>
    <Description>The front of the heart or further descriptor of the cardiac veins.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Apex</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Apex</REFID>
    <ECODE10>753922</ECODE10>
    <DisplayName>Apex</DisplayName>
    <Description>The highest or lowest physical location in a heart chamber.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Appendage</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Appendage</REFID>
    <ECODE10>753923</ECODE10>
    <DisplayName>Appendage</DisplayName>
    <Description>A muscular pouch in the left atrium of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>CardiacVein</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_CardiacVein</REFID>
    <ECODE10>753924</ECODE10>
    <DisplayName>Cardiac Vein</DisplayName>
    <Description>The cardiac vein of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>VenaCava</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_VenaCava</REFID>
    <ECODE10>753925</ECODE10>
    <DisplayName>Vena Cava</DisplayName>
    <Description>The vena cava of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>CoronarySinus</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_CoronarySinus</REFID>
    <ECODE10>753926</ECODE10>
    <DisplayName>Coronary Sinus</DisplayName>
    <Description>A specific cardiac vein of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Distal</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Distal</REFID>
    <ECODE10>753927</ECODE10>
    <DisplayName>Distal</DisplayName>
    <Description>A location furthest from a specified reference.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Epicardial</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Epicardial</REFID>
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        <ECODE10>753928</ECODE10>
        <DisplayName>Epicardial</DisplayName>
        <Description>The outside surface of the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>FreeWall</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_FreeWall</REFID>
        <ECODE10>753929</ECODE10>
        <DisplayName>Free Wall</DisplayName>
        <Description>A further detail for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Great</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Great</REFID>
        <ECODE10>753930</ECODE10>
        <DisplayName>Great</DisplayName>
        <Description>A further descriptor of the cardiac veins.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>High</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_High</REFID>
        <ECODE10>753931</ECODE10>
        <DisplayName>High</DisplayName>
        <Description>A further descriptor for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Lateral</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Lateral</REFID>
        <ECODE10>753932</ECODE10>
        <DisplayName>Lateral</DisplayName>
        <Description>A further descriptor for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Left</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Left</REFID>
        <ECODE10>753933</ECODE10>
        <DisplayName>Left</DisplayName>
        <Description>A further descriptor for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Low</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Low</REFID>
        <ECODE10>753934</ECODE10>
        <DisplayName>Low</DisplayName>
        <Description>A further descriptor for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Marginal</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Marginal</REFID>
        <ECODE10>753935</ECODE10>
        <DisplayName>Marginal</DisplayName>
        <Description>A further descriptor for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Middle</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Middle</REFID>
        <ECODE10>753936</ECODE10>
        <DisplayName>Middle</DisplayName>
        <Description>A further descriptor for a location within the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Myocardial</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Myocardial</REFID>
        <ECODE10>753937</ECODE10>
        <DisplayName>Myocardial</DisplayName>
        <Description>The muscle tissue of the heart.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>OutflowTract</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_OutflowTract</REFID>
        <ECODE10>753938</ECODE10>
        <DisplayName>Outflow Tract</DisplayName>
        <Description>The part of the left ventricle where the blood exits through the pulmonary artery.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
        <TOKEN>Posterior</TOKEN>
        <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Posterior</REFID>
        <ECODE10>753939</ECODE10>
        <DisplayName>Posterior</DisplayName>
        <Description>The back of the heart or further descriptor of the cardiac veins.</Description>
    </term>
    <term>
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    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Proximal</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Proximal</REFID>
    <ECODE10>753940</ECODE10>
    <DisplayName>Proximal</DisplayName>
    <Description>A location nearest to a specified reference.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Right</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Right</REFID>
    <ECODE10>753941</ECODE10>
    <DisplayName>Right</DisplayName>
    <Description>A further descriptor for a location within the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Septum</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Septum</REFID>
    <ECODE10>753942</ECODE10>
    <DisplayName>Septum</DisplayName>
    <Description>The walls that separate the chambers of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Subclavian</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Subclavian</REFID>
    <ECODE10>753943</ECODE10>
    <DisplayName>Subclavian</DisplayName>
    <Description>A major artery connected to the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Subcutaneous</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Subcutaneous</REFID>
    <ECODE10>753944</ECODE10>
    <DisplayName>Subcutaneous</DisplayName>
    <Description>A location under the skin.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Superior</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Superior</REFID>
    <ECODE10>753945</ECODE10>
    <DisplayName>Superior</DisplayName>
    <Description>A specific cardiac vein of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>HISbundle</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_HISbundle</REFID>
    <ECODE10>753946</ECODE10>
    <DisplayName>HIS bundle</DisplayName>
    <Description>The electrical fibers in the heart, inside the septum between the left and right ventricles.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Other</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Other</REFID>
    <ECODE10>753947</ECODE10>
    <DisplayName>Other</DisplayName>
    <Description>A location other than that which is contained in current nomenclature.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_LOCATION_DETAIL</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_LOCATION_DETAIL_Unknown</REFID>
    <ECODE10>753948</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the lead location detail is unknown for the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_STATUS</_ENUM_GROUPS>
    <TOKEN>Connected</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_STATUS_Connected</REFID>
    <ECODE10>753985</ECODE10>
    <DisplayName>Connected</DisplayName>
    <Description>An indicator that a cardiac lead is functional and in use.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_LEAD_STATUS</_ENUM_GROUPS>
    <TOKEN>Abandoned</TOKEN>
    <REFID>MDC_IDC_ENUM_LEAD_STATUS_Abandoned</REFID>
    <ECODE10>753986</ECODE10>
    <DisplayName>Abandoned</DisplayName>
    <Description>An indicator that a cardiac lead is non-functional and not in use.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
    <TOKEN>Implant</TOKEN>
    <REFID>MDC_IDC_ENUM_SESS_TYPE_Implant</REFID>
    <ECODE10>754049</ECODE10>
    <DisplayName>Implant</DisplayName>
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            <Description>An indicator that the data was acquired at the time of the surgical implant.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>InClinic</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_InClinic</REFID>
            <ECODE10>754050</ECODE10>
            <DisplayName>In Clinic</DisplayName>
            <Description>An indicator that the data was acquired when the patient was in a hospital or clinic.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>Remote</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_Remote</REFID>
            <ECODE10>754051</ECODE10>
            <DisplayName>Remote </DisplayName>
            <Description>An indicator that the data was acquired while the patient was outside a hospital or clinic.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>RemoteDeviceInitiated</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_RemoteDeviceInitiated</REFID>
            <ECODE10>754052</ECODE10>
            <DisplayName>Remote Device Initiated</DisplayName>
            <Description>An indicator that the data was acquired while the patient was outside a hospital or clinic using transmission equipment and because of a condition the
device detected.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>RemoteScheduled</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_RemoteScheduled</REFID>
            <ECODE10>754053</ECODE10>
            <DisplayName>Remote Scheduled</DisplayName>
            <Description>An indicator that the data was acquired while the patient was outside a hospital or clinic using transmission equipment and at a time that was planned
in advance.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>RemotePatientInitiated</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_RemotePatientInitiated</REFID>
            <ECODE10>754054</ECODE10>
            <DisplayName>Remote Patient Initiated</DisplayName>
            <Description>An indicator that the data was acquired while the patient was outside a hospital or clinic using transmission equipment and because of an action by the
patient at a time that was not planned in advance.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>Other</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_Other</REFID>
            <ECODE10>754055</ECODE10>
            <DisplayName>Other</DisplayName>
            <Description>An interrogation session type not currently defined within the nomenclature.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_TYPE</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_TYPE_Unknown</REFID>
            <ECODE10>754056</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator showing that the session type is unknown for the interrogation session.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_BATTERY_STATUS</_ENUM_GROUPS>
            <TOKEN>BOS</TOKEN>
            <REFID>MDC_IDC_ENUM_BATTERY_STATUS_BOS</REFID>
            <ECODE10>754113</ECODE10>
            <DisplayName>Beginning of Service</DisplayName>
            <Description>The device battery is at the beginning of its service.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_BATTERY_STATUS</_ENUM_GROUPS>
            <TOKEN>EOS</TOKEN>
            <REFID>MDC_IDC_ENUM_BATTERY_STATUS_EOS</REFID>
            <ECODE10>754114</ECODE10>
            <DisplayName>End of Service</DisplayName>
            <Description>The device battery is depleted.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_BATTERY_STATUS</_ENUM_GROUPS>
            <TOKEN>RRT</TOKEN>
            <REFID>MDC_IDC_ENUM_BATTERY_STATUS_RRT</REFID>
            <ECODE10>754115</ECODE10>
            <DisplayName>Recommended Replacement Time</DisplayName>
            <Description>An indicator that the device should be replaced.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_BATTERY_STATUS</_ENUM_GROUPS>
            <TOKEN>MOS</TOKEN>
            <REFID>MDC_IDC_ENUM_BATTERY_STATUS_MOS</REFID>
            <ECODE10>754116</ECODE10>
            <DisplayName>Middle of Service</DisplayName>
            <Description>The device battery is in use but not depleted or nearing depletion.</Description>
        </term>
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<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BATTERY_STATUS</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_BATTERY_STATUS_Unknown</REFID>
    <ECODE10>754117</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the battery status is unknown for the battery.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_CHARGE_TYPE</_ENUM_GROUPS>
    <TOKEN>Shock</TOKEN>
    <REFID>MDC_IDC_ENUM_CHARGE_TYPE_Shock</REFID>
    <ECODE10>754177</ECODE10>
    <DisplayName>Shock</DisplayName>
    <Description>The measurement was made when the capacitor was being charged for the purpose of delivering a high-voltage  shock.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_CHARGE_TYPE</_ENUM_GROUPS>
    <TOKEN>Reformation</TOKEN>
    <REFID>MDC_IDC_ENUM_CHARGE_TYPE_Reformation</REFID>
    <ECODE10>754178</ECODE10>
    <DisplayName>Reformation</DisplayName>
    <Description>The measurement was made when the capacitor was being charged for routine maintenance not involving shock delivery.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_CHARGE_TYPE</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_CHARGE_TYPE_Unknown</REFID>
    <ECODE10>754179</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the charge type is unknown for the charge.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_CHANNEL_STATUS</_ENUM_GROUPS>
    <TOKEN>CheckLead</TOKEN>
    <REFID>MDC_IDC_ENUM_CHANNEL_STATUS_CheckLead</REFID>
    <ECODE10>754241</ECODE10>
    <DisplayName>Check Lead</DisplayName>
    <Description>A notification that the lead appears to be not functioning properly per the device vendor-specific criterion.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_CHANNEL_STATUS</_ENUM_GROUPS>
    <TOKEN>Null</TOKEN>
    <REFID>MDC_IDC_ENUM_CHANNEL_STATUS_Null</REFID>
    <ECODE10>754242</ECODE10>
    <DisplayName>Null</DisplayName>
    <Description>The absence of a lead status notification.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_POLARITY</_ENUM_GROUPS>
    <TOKEN>UNI</TOKEN>
    <REFID>MDC_IDC_ENUM_POLARITY_UNI</REFID>
    <ECODE10>754305</ECODE10>
    <DisplayName>Unipolar</DisplayName>
    <Description>The lead measurement or setting is between one lead electrode and the device can.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_POLARITY</_ENUM_GROUPS>
    <TOKEN>BI</TOKEN>
    <REFID>MDC_IDC_ENUM_POLARITY_BI</REFID>
    <ECODE10>754306</ECODE10>
    <DisplayName>Bipolar</DisplayName>
    <Description>The lead measurement or setting is between two lead electrodes.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_POLARITY</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_POLARITY_Unknown</REFID>
    <ECODE10>754307</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the polarity is unknown for the electrode.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_MEASUREMENT_METHOD</_ENUM_GROUPS>
    <TOKEN>ProgrammerManual</TOKEN>
    <REFID>MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerManual</REFID>
    <ECODE10>754369</ECODE10>
    <DisplayName>Programmer Manual</DisplayName>
    <Description>A manual measurement made using a programmer. The measurement was made by a clinician programming different device values and noting when
changes were observed.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_MEASUREMENT_METHOD</_ENUM_GROUPS>
    <TOKEN>ProgrammerAutomatic</TOKEN>
    <REFID>MDC_IDC_ENUM_MEASUREMENT_METHOD_ProgrammerAutomatic</REFID>
    <ECODE10>754370</ECODE10>
    <DisplayName>Programmer Automatic</DisplayName>
    <Description>The measurement was made by a clinician using an automatic routine within the programmer. </Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_MEASUREMENT_METHOD</_ENUM_GROUPS>
    <TOKEN>DeviceAutomatic</TOKEN>
    <REFID>MDC_IDC_ENUM_MEASUREMENT_METHOD_DeviceAutomatic</REFID>
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    <ECODE10>754371</ECODE10>
    <DisplayName>Device Automatic</DisplayName>
    <Description>The measurement was made by an automatic routine within the device.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_MEASUREMENT_METHOD</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_MEASUREMENT_METHOD_Unknown</REFID>
    <ECODE10>754372</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the measurement method is unknown.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE</_ENUM_GROUPS>
    <TOKEN>LowVoltage</TOKEN>
    <REFID>MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE_LowVoltage</REFID>
    <ECODE10>754433</ECODE10>
    <DisplayName>Low Voltage Pulse</DisplayName>
    <Description>The measurement was made using voltage levels associated with a cardiac pacing pulses or lower.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE</_ENUM_GROUPS>
    <TOKEN>Shock</TOKEN>
    <REFID>MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE_Shock</REFID>
    <ECODE10>754434</ECODE10>
    <DisplayName>Shock</DisplayName>
    <Description>The measurement was made using high-voltage  energy during delivery of a shock.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_HVCHNL_MEASUREMENT_TYPE_Unknown</REFID>
    <ECODE10>754435</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the measurement type is unknown for the high-voltage  channel measurement.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>RA</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_RA</REFID>
    <ECODE10>754497</ECODE10>
    <DisplayName>Right Atrium</DisplayName>
    <Description>The right atrium of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>RV</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_RV</REFID>
    <ECODE10>754498</ECODE10>
    <DisplayName>Right Ventricle</DisplayName>
    <Description>The right ventricle of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>LA</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_LA</REFID>
    <ECODE10>754499</ECODE10>
    <DisplayName>Left Atrium</DisplayName>
    <Description>The left atrium of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>LV</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_LV</REFID>
    <ECODE10>754500</ECODE10>
    <DisplayName>Left Ventricle</DisplayName>
    <Description>The left ventricle of the heart.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>SVC</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_SVC</REFID>
    <ECODE10>754501</ECODE10>
    <DisplayName>Superior Vena Cava</DisplayName>
    <Description>The superior vena cava.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>Other</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_Other</REFID>
    <ECODE10>754502</ECODE10>
    <DisplayName>Other</DisplayName>
    <Description>Other location.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_LOCATION</_ENUM_GROUPS>
    <TOKEN>Unknown</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_LOCATION_Unknown</REFID>
    <ECODE10>754503</ECODE10>
    <DisplayName>Unknown</DisplayName>
    <Description>An indicator showing that the location is unknown for the electrode.</Description>
</term>
<term>
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    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Tip</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Tip</REFID>
    <ECODE10>754561</ECODE10>
    <DisplayName>Tip</DisplayName>
    <Description>A tip electrode of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Ring</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Ring</REFID>
    <ECODE10>754562</ECODE10>
    <DisplayName>Ring</DisplayName>
    <Description>A ring electrode of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Ring1</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Ring1</REFID>
    <ECODE10>754563</ECODE10>
    <DisplayName>Ring1</DisplayName>
    <Description>The first ring electrode of a multi-electrode lead relative to the distal end of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Ring2</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Ring2</REFID>
    <ECODE10>754564</ECODE10>
    <DisplayName>Ring2</DisplayName>
    <Description>The second ring electrode of a multi-electrode lead relative to the distal end of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Ring3</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Ring3</REFID>
    <ECODE10>754565</ECODE10>
    <DisplayName>Ring3</DisplayName>
    <Description>The third ring electrode of a multi-electrode lead relative to the distal end of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Ring4</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Ring4</REFID>
    <ECODE10>754566</ECODE10>
    <DisplayName>Ring4</DisplayName>
    <Description>The fourth ring electrode of a multi-electrode lead relative to the distal end of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Coil</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Coil</REFID>
    <ECODE10>754567</ECODE10>
    <DisplayName>Coil</DisplayName>
    <Description>A coil electrode of the lead.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>SubQPatch</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_SubQPatch</REFID>
    <ECODE10>754568</ECODE10>
    <DisplayName>Subcutaneous Patch</DisplayName>
    <Description>A subcutaneous patch electrode.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Can</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Can</REFID>
    <ECODE10>754569</ECODE10>
    <DisplayName>Can</DisplayName>
    <Description>The housing electrode of the device.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Other1</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other1</REFID>
    <ECODE10>754570</ECODE10>
    <DisplayName>Other1</DisplayName>
    <Description>Other electrode 1.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Other2</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other2</REFID>
    <ECODE10>754571</ECODE10>
    <DisplayName>Other2</DisplayName>
    <Description>Other electrode 2.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
    <TOKEN>Other3</TOKEN>
    <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other3</REFID>
    <ECODE10>754572</ECODE10>
    <DisplayName>Other3</DisplayName>
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        <Description>Other electrode 3.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other4</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other4</REFID>
        <ECODE10>754573</ECODE10>
        <DisplayName>Other4</DisplayName>
        <Description>Other electrode 4.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other5</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other5</REFID>
        <ECODE10>754574</ECODE10>
        <DisplayName>Other5</DisplayName>
        <Description>Other electrode 5.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other6</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other6</REFID>
        <ECODE10>754575</ECODE10>
        <DisplayName>Other6</DisplayName>
        <Description>Other electrode 6.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other7</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other7</REFID>
        <ECODE10>754576</ECODE10>
        <DisplayName>Other7</DisplayName>
        <Description>Other electrode 7.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other8</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other8</REFID>
        <ECODE10>754577</ECODE10>
        <DisplayName>Other8</DisplayName>
        <Description>Other electrode 8.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other9</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other9</REFID>
        <ECODE10>754578</ECODE10>
        <DisplayName>Other9</DisplayName>
        <Description>Other electrode 9.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Other10</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Other10</REFID>
        <ECODE10>754579</ECODE10>
        <DisplayName>Other10</DisplayName>
        <Description>Other electrode 10.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_ELECTRODE_NAME</_ENUM_GROUPS>
        <TOKEN>Unknown</TOKEN>
        <REFID>MDC_IDC_ENUM_ELECTRODE_NAME_Unknown</REFID>
        <ECODE10>754580</ECODE10>
        <DisplayName>Unknown</DisplayName>
        <Description>An indicator showing that the type is unknown for the electrode.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_SENSING_ADAPTATION_MODE</_ENUM_GROUPS>
        <TOKEN>AdaptiveSensing</TOKEN>
        <REFID>MDC_IDC_ENUM_SENSING_ADAPTATION_MODE_AdaptiveSensing</REFID>
        <ECODE10>754625</ECODE10>
        <DisplayName>Adaptive</DisplayName>
        <Description>The sensing threshold changes automatically.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_SENSING_ADAPTATION_MODE</_ENUM_GROUPS>
        <TOKEN>FixedSensing</TOKEN>
        <REFID>MDC_IDC_ENUM_SENSING_ADAPTATION_MODE_FixedSensing</REFID>
        <ECODE10>754626</ECODE10>
        <DisplayName>Fixed </DisplayName>
        <Description>The sensing threshold is fixed.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_PACING_CAPTURE_MODE</_ENUM_GROUPS>
        <TOKEN>AdaptiveCapture</TOKEN>
        <REFID>MDC_IDC_ENUM_PACING_CAPTURE_MODE_AdaptiveCapture</REFID>
        <ECODE10>754689</ECODE10>
        <DisplayName>Adaptive</DisplayName>
        <Description>The pacing stimulus changes automatically to maintain capture.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_PACING_CAPTURE_MODE</_ENUM_GROUPS>
        <TOKEN>FixedPacing</TOKEN>
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    <REFID>MDC_IDC_ENUM_PACING_CAPTURE_MODE_FixedPacing</REFID>
    <ECODE10>754690</ECODE10>
    <DisplayName>Fixed Pacing</DisplayName>
    <Description>The pacing stimulus is fixed.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_PACING_CAPTURE_MODE</_ENUM_GROUPS>
    <TOKEN>MonitorCapture</TOKEN>
    <REFID>MDC_IDC_ENUM_PACING_CAPTURE_MODE_MonitorCapture</REFID>
    <ECODE10>754691</ECODE10>
    <DisplayName>Monitor</DisplayName>
    <Description>The device measures the stimulus threshold for cardiac pacing but does not automatically change the stimulus.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_PACING_CAPTURE_MODE</_ENUM_GROUPS>
    <TOKEN>Other</TOKEN>
    <REFID>MDC_IDC_ENUM_PACING_CAPTURE_MODE_Other</REFID>
    <ECODE10>754692</ECODE10>
    <DisplayName>Other</DisplayName>
    <Description>A capture mode other than those included in the nomenclature.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>AAI</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_AAI</REFID>
    <ECODE10>754753</ECODE10>
    <DisplayName>AAI</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>AAIR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_AAIR</REFID>
    <ECODE10>754754</ECODE10>
    <DisplayName>AAIR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>AAT</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_AAT</REFID>
    <ECODE10>754755</ECODE10>
    <DisplayName>AAT</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>AATR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_AATR</REFID>
    <ECODE10>754756</ECODE10>
    <DisplayName>AATR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>AOO</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_AOO</REFID>
    <ECODE10>754757</ECODE10>
    <DisplayName>AOO</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>AOOR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_AOOR</REFID>
    <ECODE10>754758</ECODE10>
    <DisplayName>AOOR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>DAD</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_DAD</REFID>
    <ECODE10>754759</ECODE10>
    <DisplayName>DAD</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>DDD</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_DDD</REFID>
    <ECODE10>754760</ECODE10>
    <DisplayName>DDD</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>DDDR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_DDDR</REFID>
    <ECODE10>754761</ECODE10>
    <DisplayName>DDDR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
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<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>DDI</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_DDI</REFID>
<ECODE10>754762</ECODE10>
<DisplayName>DDI</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>DDIR</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_DDIR</REFID>
<ECODE10>754763</ECODE10>
<DisplayName>DDIR</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>DOO</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_DOO</REFID>
<ECODE10>754764</ECODE10>
<DisplayName>DOO</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>DOOR</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_DOOR</REFID>
<ECODE10>754765</ECODE10>
<DisplayName>DOOR</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>DVI</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_DVI</REFID>
<ECODE10>754766</ECODE10>
<DisplayName>DVI</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>DVIR</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_DVIR</REFID>
<ECODE10>754767</ECODE10>
<DisplayName>DVIR</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>VAT</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_VAT</REFID>
<ECODE10>754768</ECODE10>
<DisplayName>VAT</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>VDD</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_VDD</REFID>
<ECODE10>754769</ECODE10>
<DisplayName>VDD</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>VDDR</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_VDDR</REFID>
<ECODE10>754770</ECODE10>
<DisplayName>VDDR</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>VOO</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_VOO</REFID>
<ECODE10>754771</ECODE10>
<DisplayName>VOO</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>VOOR</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_VOOR</REFID>
<ECODE10>754772</ECODE10>
<DisplayName>VOOR</DisplayName>
<Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
<_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
<TOKEN>VVI</TOKEN>
<REFID>MDC_IDC_ENUM_BRADY_MODE_VVI</REFID>
<ECODE10>754773</ECODE10>

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    <DisplayName>VVI</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>VVIR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_VVIR</REFID>
    <ECODE10>754774</ECODE10>
    <DisplayName>VVIR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>VVT</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_VVT</REFID>
    <ECODE10>754775</ECODE10>
    <DisplayName>VVT</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>OOO</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_OOO</REFID>
    <ECODE10>754776</ECODE10>
    <DisplayName>OOO</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>OOOR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_OOOR</REFID>
    <ECODE10>754777</ECODE10>
    <DisplayName>OOOR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>VDI</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_VDI</REFID>
    <ECODE10>754778</ECODE10>
    <DisplayName>VDI</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>VDIR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_VDIR</REFID>
    <ECODE10>754779</ECODE10>
    <DisplayName>VDIR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>ODO</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_ODO</REFID>
    <ECODE10>754780</ECODE10>
    <DisplayName>ODO</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>VVTR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_VVTR</REFID>
    <ECODE10>754781</ECODE10>
    <DisplayName>VVTR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>DDTR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_DDTR</REFID>
    <ECODE10>754782</ECODE10>
    <DisplayName>DDTR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>OVO</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_OVO</REFID>
    <ECODE10>754783</ECODE10>
    <DisplayName>OVO</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
    <TOKEN>DVTR</TOKEN>
    <REFID>MDC_IDC_ENUM_BRADY_MODE_DVTR</REFID>
    <ECODE10>754784</ECODE10>
    <DisplayName>DVTR</DisplayName>
    <Description>The pacing mode per the NBG standard.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
```

```
        <TOKEN>DDT</TOKEN>
        <REFID>MDC_IDC_ENUM_BRADY_MODE_DDT</REFID>
        <ECODE10>754785</ECODE10>
        <DisplayName>DDT</DisplayName>
        <Description>The pacing mode per the NBG standard.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
        <TOKEN>VDTR</TOKEN>
        <REFID>MDC_IDC_ENUM_BRADY_MODE_VDTR</REFID>
        <ECODE10>754786</ECODE10>
        <DisplayName>VDTR</DisplayName>
        <Description>The pacing mode per the NBG standard.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
        <TOKEN>VDT</TOKEN>
        <REFID>MDC_IDC_ENUM_BRADY_MODE_VDT</REFID>
        <ECODE10>754787</ECODE10>
        <DisplayName>VDT</DisplayName>
        <Description>The pacing mode per the NBG standard.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
        <TOKEN>ADIR</TOKEN>
        <REFID>MDC_IDC_ENUM_BRADY_MODE_ADIR</REFID>
        <ECODE10>754788</ECODE10>
        <DisplayName>ADIR</DisplayName>
        <Description>The pacing mode per the NBG standard.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
        <TOKEN>ADI</TOKEN>
        <REFID>MDC_IDC_ENUM_BRADY_MODE_ADI</REFID>
        <ECODE10>754789</ECODE10>
        <DisplayName>ADI</DisplayName>
        <Description>The pacing mode per the NBG standard.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_BRADY_MODE</_ENUM_GROUPS>
        <TOKEN>Unknown</TOKEN>
        <REFID>MDC_IDC_ENUM_BRADY_MODE_Unknown</REFID>
        <ECODE10>754790</ECODE10>
        <DisplayName>Unknown</DisplayName>
        <Description>An indicator showing that the brady mode is unknown for the brady device.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_THERAPY_STATUS</_ENUM_GROUPS>
        <TOKEN>On</TOKEN>
        <REFID>MDC_IDC_ENUM_THERAPY_STATUS_On</REFID>
        <ECODE10>754817</ECODE10>
        <DisplayName>On</DisplayName>
        <Description>An indicator showing that tachy therapies are on.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_THERAPY_STATUS</_ENUM_GROUPS>
        <TOKEN>Off</TOKEN>
        <REFID>MDC_IDC_ENUM_THERAPY_STATUS_Off</REFID>
        <ECODE10>754818</ECODE10>
        <DisplayName>Off</DisplayName>
        <Description>An indicator showing that tachy therapies are off.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_THERAPY_STATUS</_ENUM_GROUPS>
        <TOKEN>Unknown</TOKEN>
        <REFID>MDC_IDC_ENUM_THERAPY_STATUS_Unknown</REFID>
        <ECODE10>754819</ECODE10>
        <DisplayName>Unknown</DisplayName>
        <Description>An indicator showing that the tachy therapy status is unknown for the tachy device.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
        <TOKEN>Epis_VF</TOKEN>
        <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_VF</REFID>
        <ECODE10>754881</ECODE10>
        <DisplayName>VF</DisplayName>
        <Description>An episode type of ventricular fibrillation.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
        <TOKEN>Epis_VT</TOKEN>
        <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_VT</REFID>
        <ECODE10>754882</ECODE10>
        <DisplayName>VT</DisplayName>
        <Description>An episode type of ventricular tachycardia.</Description>
    </term>
    <term>
        <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
        <TOKEN>Epis_ATAF</TOKEN>
        <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_ATAF</REFID>
        <ECODE10>754883</ECODE10>
        <DisplayName>AT/AF</DisplayName>
        <Description>An episode type of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.</Description>
```

```
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
    <TOKEN>Epis_SVT</TOKEN>
    <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_SVT</REFID>
    <ECODE10>754884</ECODE10>
    <DisplayName>SVT</DisplayName>
    <Description>An episode type of supraventricular tachycardia.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
    <TOKEN>Epis_Monitor</TOKEN>
    <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_Monitor</REFID>
    <ECODE10>754885</ECODE10>
    <DisplayName>Monitor</DisplayName>
    <Description>An episode type that is only being observed.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
    <TOKEN>Epis_PeriodicEGM</TOKEN>
    <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_PeriodicEGM</REFID>
    <ECODE10>754886</ECODE10>
    <DisplayName>Periodic EGM</DisplayName>
    <Description>An episode type that is being observed periodically.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
    <TOKEN>Epis_PatientActivated</TOKEN>
    <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_PatientActivated</REFID>
    <ECODE10>754887</ECODE10>
    <DisplayName>Patient Activated</DisplayName>
    <Description>An episode type that is triggered by the patient.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE</_ENUM_GROUPS>
    <TOKEN>Epis_Other</TOKEN>
    <REFID>MDC_IDC_ENUM_EPISODE_TYPE_Epis_Other</REFID>
    <ECODE10>754888</ECODE10>
    <DisplayName>Other</DisplayName>
    <Description>An episode that is not included in the enumerations.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_TYPE</_ENUM_GROUPS>
    <TOKEN>Zone_VF</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_TYPE_Zone_VF</REFID>
    <ECODE10>754945</ECODE10>
    <DisplayName>VF</DisplayName>
    <Description>An zone type of ventricular fibrillation.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_TYPE</_ENUM_GROUPS>
    <TOKEN>Zone_VT</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_TYPE_Zone_VT</REFID>
    <ECODE10>754946</ECODE10>
    <DisplayName>VT</DisplayName>
    <Description>An zone type of ventricular tachycardia.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_TYPE</_ENUM_GROUPS>
    <TOKEN>Zone_ATAF</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_TYPE_Zone_ATAF</REFID>
    <ECODE10>754947</ECODE10>
    <DisplayName>AT/AF</DisplayName>
    <Description>An zone type of atrial tachyarrhythmia without being specific about it being fibrillation, flutter, or tachycardia.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_TYPE</_ENUM_GROUPS>
    <TOKEN>Zone_Other</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_TYPE_Zone_Other</REFID>
    <ECODE10>754948</ECODE10>
    <DisplayName>Other</DisplayName>
    <Description>Indicates a selection other than any in the list of selections.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_STATUS</_ENUM_GROUPS>
    <TOKEN>Active</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_STATUS_Active</REFID>
    <ECODE10>755009</ECODE10>
    <DisplayName>Active</DisplayName>
    <Description>An indicator showing that tachyarrhythmia detection and therapy is on for the designated chamber.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_STATUS</_ENUM_GROUPS>
    <TOKEN>Inactive</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_STATUS_Inactive</REFID>
    <ECODE10>755010</ECODE10>
    <DisplayName>Inactive</DisplayName>
    <Description>An Indicator showing that tachyarrhythmia detection and therapy is off for the designated chamber.</Description>
</term>
<term>
    <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_STATUS</_ENUM_GROUPS>
    <TOKEN>Monitor</TOKEN>
    <REFID>MDC_IDC_ENUM_ZONE_STATUS_Monitor</REFID>
```

```
            <ECODE10>755011</ECODE10>
            <DisplayName>Monitor</DisplayName>
            <Description>An indicator showing that tachyarrhythmia detection is on but therapy is off for the designated chamber.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ZONE_STATUS</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_ZONE_STATUS_Unknown</REFID>
            <ECODE10>755012</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator showing that tachyarrhythmia detection an therapy is unknown for the designated chamber.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ATP_TYPE</_ENUM_GROUPS>
            <TOKEN>Burst</TOKEN>
            <REFID>MDC_IDC_ENUM_ATP_TYPE_Burst</REFID>
            <ECODE10>755073</ECODE10>
            <DisplayName>Burst</DisplayName>
            <Description>A tachyarrhythmia therapy that uses pacing stimulus at a fixed pacing rate for a specific number of pulses.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ATP_TYPE</_ENUM_GROUPS>
            <TOKEN>Ramp</TOKEN>
            <REFID>MDC_IDC_ENUM_ATP_TYPE_Ramp</REFID>
            <ECODE10>755074</ECODE10>
            <DisplayName>Ramp</DisplayName>
            <Description>A tachyarrhythmia therapy that uses pacing stimulus at a pacing rate that increases or decreases.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ATP_TYPE</_ENUM_GROUPS>
            <TOKEN>BurstScan</TOKEN>
            <REFID>MDC_IDC_ENUM_ATP_TYPE_BurstScan</REFID>
            <ECODE10>755075</ECODE10>
            <DisplayName>Burst+Scan</DisplayName>
            <Description>A tachyarrhythmia therapy that uses pacing stimulus at a fixed pacing rate with the time between ATP pulses being reduced with each subsequent
burst.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ATP_TYPE</_ENUM_GROUPS>
            <TOKEN>RampScan</TOKEN>
            <REFID>MDC_IDC_ENUM_ATP_TYPE_RampScan</REFID>
            <ECODE10>755076</ECODE10>
            <DisplayName>Ramp+Scan</DisplayName>
            <Description>A tachyarrhythmia therapy that uses pacing stimulus at a pacing rate with the time between ATP pulses being reduced with each subsequent
burst.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ATP_TYPE</_ENUM_GROUPS>
            <TOKEN>Other</TOKEN>
            <REFID>MDC_IDC_ENUM_ATP_TYPE_Other</REFID>
            <ECODE10>755077</ECODE10>
            <DisplayName>Other</DisplayName>
            <Description>Indicates a selection other than any in the list of selections.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_ATP_TYPE</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_ATP_TYPE_Unknown</REFID>
            <ECODE10>755078</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator showing that ATP type is unknown for the ATP pulses.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_THERAPY_RESULT</_ENUM_GROUPS>
            <TOKEN>Successful</TOKEN>
            <REFID>MDC_IDC_ENUM_EPISODE_THERAPY_RESULT_Successful</REFID>
            <ECODE10>755137</ECODE10>
            <DisplayName>Successful</DisplayName>
            <Description>An indicator that shows the specific therapy was successful in terminating the tachyarrhythmia.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_THERAPY_RESULT</_ENUM_GROUPS>
            <TOKEN>Unsuccessful</TOKEN>
            <REFID>MDC_IDC_ENUM_EPISODE_THERAPY_RESULT_Unsuccessful</REFID>
            <ECODE10>755138</ECODE10>
            <DisplayName>Unsuccessful</DisplayName>
            <Description>An indicator that shows the specific therapy was not successful in terminating the tachyarrhythmia.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_THERAPY_RESULT</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_EPISODE_THERAPY_RESULT_Unknown</REFID>
            <ECODE10>755139</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator that shows the results of the specific therapy was unkown.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_REPROGRAMMED</_ENUM_GROUPS>
            <TOKEN>YES</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_REPROGRAMMED_YES</REFID>
            <ECODE10>755201</ECODE10>
            <DisplayName>YES</DisplayName>
            <Description>An indicator that shows the device was re-programmed during the last session.</Description>
```

```
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_REPROGRAMMED</_ENUM_GROUPS>
            <TOKEN>NO</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_REPROGRAMMED_NO</REFID>
            <ECODE10>755202</ECODE10>
            <DisplayName>NO</DisplayName>
            <Description>An indicator that shows the device was not re-programmed during the last session.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_SESS_REPROGRAMMED</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_SESS_REPROGRAMMED_Unknown</REFID>
            <ECODE10>755203</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator that shows that device re-programming is unknown.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_CRT_PACED_CHAMBERS</_ENUM_GROUPS>
            <TOKEN>RV_Only</TOKEN>
            <REFID>MDC_IDC_ENUM_CRT_PACED_CHAMBERS_RV_Only</REFID>
            <ECODE10>755265</ECODE10>
            <DisplayName>RVOnly</DisplayName>
            <Description>An indicator that shows that only the RV chamber is being paced for resynchronization.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_CRT_PACED_CHAMBERS</_ENUM_GROUPS>
            <TOKEN>LV_Only</TOKEN>
            <REFID>MDC_IDC_ENUM_CRT_PACED_CHAMBERS_LV_Only</REFID>
            <ECODE10>755266</ECODE10>
            <DisplayName>LVOnly</DisplayName>
            <Description>An indicator that shows that only the LV chamber is being paced for resynchronization.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_CRT_PACED_CHAMBERS</_ENUM_GROUPS>
            <TOKEN>BiV</TOKEN>
            <REFID>MDC_IDC_ENUM_CRT_PACED_CHAMBERS_BiV</REFID>
            <ECODE10>755267</ECODE10>
            <DisplayName>BiV</DisplayName>
            <Description>An indicator that shows that both the RV and LV chamber are being paced for resynchronization.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_CRT_PACED_CHAMBERS</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_CRT_PACED_CHAMBERS_Unknown</REFID>
            <ECODE10>755268</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator showing that CRT paced chambers are unknown for the CRT device.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE_INDUCED</_ENUM_GROUPS>
            <TOKEN>YES</TOKEN>
            <REFID>MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_YES</REFID>
            <ECODE10>755329</ECODE10>
            <DisplayName>YES</DisplayName>
            <Description>An indicator that shows that the episode was induced.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE_INDUCED</_ENUM_GROUPS>
            <TOKEN>NO</TOKEN>
            <REFID>MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_NO</REFID>
            <ECODE10>755330</ECODE10>
            <DisplayName>NO</DisplayName>
            <Description>An indicator that shows that the episode was not induced.</Description>
        </term>
        <term>
            <_ENUM_GROUPS>_MDC_IDC_ENUM_EPISODE_TYPE_INDUCED</_ENUM_GROUPS>
            <TOKEN>Unknown</TOKEN>
            <REFID>MDC_IDC_ENUM_EPISODE_TYPE_INDUCED_Unknown</REFID>
            <ECODE10>755331</ECODE10>
            <DisplayName>Unknown</DisplayName>
            <Description>An indicator showing that whether the episode was induced or not unknown for the recorded episode.</Description>
        </term>
    </Enums>
</partition>
```

H.4 XSLT

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="2.0"
 xpath-default-namespace="http://www.ieee.org/11073/nomenclature"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:fo="http://www.w3.org/1999/XSL/Format">
<!--
codeOutput.8f.xsl 2009-05-02T14
Expand IEEE P11073 nomenclature partition of base terms that has zero or more discriminators.
2009-01-14 Added support the "named" discriminator groups, e.g. _[CHAMBER] for IDC nomenclature.
2009-05-01 Changed tag names to match version 8f; added "part" attribute to <xid> output elements.
2009-05-02 Create a dtoken list (rather than subtree) to avoid namespace issues. WORKS with no default IEEE namespace.
2009-05-12 Added number(...) to several variables to work around XSLT type errors.
Paul Schluter and Nate Stoddard, GE Healthcare
- - -
```

```
Outputs xml file containing expanded RefID strings and code values, e.g. <xid part="10" code="256">MDC_ECG_WAVC_PWAVE</xid>
- - -
Limitations:
1. The input file is a single IEEE P1073 nomenclature partition; batch processing of multiple partitions currently not supported.
2. Optimize (speed) by using a xsl:for-each to process least significant discriminator.
- - -
-->
<xsl:output method="xml"/>
<!-- Filename for discriminators (need to add wildcard support for aECG, IDC and other partitions -->
<!-- <xsl:variable name="discrimFileName" select="'ECG_ANN_discrims.8f.xml'"/> -->
<!-- <xsl:variable name="discrimFileName" select="'IDC_discrims.8f.xml'"/> -->
<xsl:variable name="discrimFileName" select="'discrims.8g.xml'"/>
<!-- root template -->
<xsl:template match="/">
<!-- -->
<xsl:text>
</xsl:text>
<xsl:element name="terms">
<!-- Find each <term> find a match -->
<xsl:apply-templates select="/partition/Terms/term" mode="TermSearch"/>
</xsl:element>
</xsl:template>
<!-- Find each term -->
<xsl:template match="term" mode="TermSearch">
<!-- -->
<!-- Build a temporary dtokens list of the idref attribute value for each discriminator. -->
<xsl:variable name="dtokens" as="xs:token*">
<xsl:analyze-string select="./REFID" regex="(_\[(.+?)\])"><!-- regex-group(2) will have desired discrim ID string -->
<xsl:matching-substring>
<xsl:sequence select="xs:token(regex-group(2))"/> <!-- select substring inside [ ... ] -->
</xsl:matching-substring>
</xsl:analyze-string>
<xsl:for-each select="/partition/partitionDescription/discriminatorRef">
<xsl:sequence select="current()/@idref"/>
</xsl:for-each>
</xsl:variable>
<!-- -->
<!-- -->
<xsl:choose>
<xsl:when test="count($dtokens) = 0">
<!-- Discriminators are not used for this term. Just list code and ReferenceID. -->
<xsl:element name="xid">
<xsl:attribute name="part"><xsl:value-of select="(./PART, /partition/partitionDescription/basePart, '?')[1]"/></xsl:attribute>
<xsl:attribute name="code"><xsl:value-of select="(./ECODE10, '?')[1]"/></xsl:attribute>
<xsl:attribute name="sysname"><xsl:value-of select="./SysName"/></xsl:attribute>
<xsl:attribute name="enumvalues"><xsl:value-of select="./Enum_Values"/></xsl:attribute>
<xsl:value-of select="./REFID"/>
</xsl:element>
<!-- Output new line for readability -->
<xsl:text>
</xsl:text>
</xsl:when>
<!-- -->
<xsl:otherwise>
<!-- Discriminators are used with this term: process "named" and "tail-end" discriminators for each term -->
<xsl:call-template name="Discriminator">
<xsl:with-param name="ptokens" as="xs:token*" select="$dtokens"/>
<xsl:with-param name="counter" select="1"/>
<xsl:with-param name="string" select="./REFID"/>
<xsl:with-param name="sysname" select="./SysName"/>
<xsl:with-param name="enumvalues" select="./Enum_Values"/>
<xsl:with-param name="part" select="(./PART, /partition/partitionDescription/basePart, '?')[1]"/>
<xsl:with-param name="code" select="./ECODE10"/>
<xsl:with-param name="runningOffset" select="0"/>
<xsl:with-param name="parentIndex" select="0"/>
<xsl:with-param name="excludeList" select="concat(normalize-space(@exclude),' ')"/>
</xsl:call-template>
</xsl:otherwise>
</xsl:choose>
</xsl:template>
<!-- -->
<!-- Template: Output a row for each Discriminator -->
<!-- -->
<xsl:template name="Discriminator">
<xsl:param name="ptokens"/>
<xsl:param name="counter"/>
<xsl:param name="string"/>
<xsl:param name="sysname"/>
<xsl:param name="enumvalues"/>
<xsl:param name="part"/>
<xsl:param name="code"/>
<xsl:param name="runningOffset"/>
<xsl:param name="parentIndex"/>
<xsl:param name="excludeList"/>
<!-- Walk through all the Discriminators -->
<xsl:for-each select="$ptokens">
<xsl:if test="$counter = position()">
<xsl:variable name="cIDREF" select="current()"/><!-- current discrim IDREF without underscore and braces -->
<xsl:variable name="_cIDREF" select="concat( '_[', $cIDREF, ']')"/><!-- _[IDREF] with underscore and braces -->
<xsl:variable name="rgx_cIDREF" select="concat( '_\[', $cIDREF, '\]')"/><!-- _[IDREF] as a regex target string ("." in "[1..10]" ok ;-) -->
<xsl:variable name="currentBits" select="number(document($discrimFileName)//discriminator[@id=current()]/dBits)"/>
<xsl:variable name="currentSpan" select="number(subsequence(('1', '2', '4', '8', '16', '32', '64', '128', '256'), $currentBits+1, 1))"/>
<xsl:for-each select="document($discrimFileName)//discriminator[@id=current()]/discrim">
```

```
<xsl:variable name="suffix" select="dSuffix"/>
<xsl:variable name="pos" select="dOffset"/>
<!-- Some interesting math here
pos = the position of this Discriminator
currentOffset = using all the parents offsets (index * span), plus the running offset from our direct parent,.
thisOffset = the end offset of this subterm... uses the pos along with previously calculated offsets.
-->
<xsl:variable name="currentOffset" select="($currentSpan * (number($parentIndex) + number($runningOffset)))"/>
<xsl:variable name="thisOffset" select="$currentOffset + number($pos) + 0"/>
<!-- If this is the lowest level discriminator, then output XML, otherwise pass to the next level -->
<xsl:choose>
<xsl:when test="count($ptokens) = $counter">
<!-- Here we have valid combination of a Reference ID and discriminator terms. -->
<!-- Determine whether the Reference ID contains any excluded discriminator terms. -->
<xsl:variable name="has-token">
<xsl:call-template name="contains-token">
<xsl:with-param name="refidString" select="if (contains($string, $_cIDREF)) then replace($string, $rgx_cIDREF, $suffix) else concat($string, $suffix)"/>
<xsl:with-param name="discrimList" select="$excludeList"/>
</xsl:call-template>
</xsl:variable>
<!-- If no excluded terms, then output the <xid> element containing the RefID and numeric code -->
<xsl:if test="$has-token='false'">
<xsl:element name="xid">
<!-- Output partition number -->
<xsl:attribute name="part"><xsl:value-of select="$part"/></xsl:attribute>
<!-- Add the code for this term to the offset -->
<xsl:attribute name="code"><xsl:value-of select="$thisOffset+$code"/></xsl:attribute>
<!-- Join systematic name with this subterm -->
<xsl:attribute name="sysname"><xsl:value-of select="if (contains($sysname, $_cIDREF)) then replace($sysname, $rgx_cIDREF, lower-case($suffix)) else concat($sysname,
lower-case($suffix))"/></xsl:attribute>
<!-- Output enumeration -->
<xsl:attribute name="enumvalues"><xsl:value-of select="$enumvalues"/></xsl:attribute>
<!-- Join the parent string with this subterm -->
<xsl:value-of select="if (contains($string, $_cIDREF)) then replace($string, $rgx_cIDREF, $suffix) else concat($string, $suffix)"/>
</xsl:element>
<!-- Output new line for readability -->
<xsl:text>
</xsl:text>
</xsl:if>
</xsl:when>
<xsl:otherwise>
<!-- Call the template again, with the updated offsets, and joined strings -->
<xsl:call-template name="Discriminator">
<xsl:with-param name="ptokens" select="$ptokens"/>
<xsl:with-param name="counter" select="$counter+1"/>
<xsl:with-param name="string" select="if (contains($string, $_cIDREF)) then replace($string, $rgx_cIDREF, $suffix) else concat($string, $suffix)"/>
<xsl:with-param name="sysname" select="if (contains($sysname, $_cIDREF)) then replace($sysname, $rgx_cIDREF, lower-case($suffix)) else concat($sysname, lower-
case($suffix))"/>
<xsl:with-param name="part" select="$part"/>
<xsl:with-param name="code" select="$code"/>
<xsl:with-param name="runningOffset" select="$currentOffset"/>
<xsl:with-param name="parentIndex" select="$pos"/>
<xsl:with-param name="excludeList" select="$excludeList"/>
</xsl:call-template>
</xsl:otherwise>
</xsl:choose>
</xsl:for-each>
</xsl:if>
</xsl:for-each>
</xsl:template>
<!-- -->
<!-- Template: Test ReferenceID string to see if it contains any excluded discriminators -->
<!-- -->
<xsl:template name="contains-token">
<xsl:param name="refidString"/>
<xsl:param name="discrimList"/>
<xsl:variable name="nlist" select="concat(normalize-space($discrimList), ' ')"/>
<xsl:variable name="first" select="substring-before($nlist, ' ')"/>
<xsl:variable name="rest" select="substring-after($nlist, ' ')"/>
<xsl:choose>
<xsl:when test="$first">
<xsl:choose>
<xsl:when test="contains(concat($refidString, '_'), concat($first, '_'))">true</xsl:when>
<xsl:otherwise>
<xsl:call-template name="contains-token">
<xsl:with-param name="refidString" select="$refidString"/>
<xsl:with-param name="discrimList" select="$rest"/>
</xsl:call-template>
</xsl:otherwise>
</xsl:choose>
</xsl:when>
<xsl:otherwise>false</xsl:otherwise>
</xsl:choose>
</xsl:template>
<!-- Fin -->
</xsl:stylesheet>
```

H.5 XML Discriminators

```
<?xml version="1.0" encoding="UTF-8"?>
<discriminators xmlns="http://www.ieee.org/11073/nomenclature" xsi:schemaLocation="http://www.ieee.org/11073/nomenclature discrims.8g.xsd"
xmlns:v="http://www.vendor.com" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <!-- file: IDC_discrims.8g.xml -->
```

```
<!-- Initial set of IDC "named" discriminators -->
<!-- Nick Steblay and Paul Schluter 2009-05-12T15 -->
<!-- -->
<!-- PACEMAKER CHAMBER "_RA", "_RV", "_LA" , "_LV" and "_MIXED" -->
<!-- -->
<discriminator id="CHAMBER">
    <dDescription1>Pacemaker Chamber</dDescription1>
    <dDescription2>Choices=6, no default permitted.</dDescription2>
    <dCase>CHAMBER</dCase>
    <dBits>3</dBits>
    <discrim>
        <dSuffix>_RA</dSuffix>
        <dOffset>0</dOffset>
        <dDescription>Right Atrial</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_RV</dSuffix>
        <dOffset>1</dOffset>
        <dDescription>Right Ventricular</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_LA</dSuffix>
        <dOffset>2</dOffset>
        <dDescription>Left Atrial</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_LV</dSuffix>
        <dOffset>3</dOffset>
        <dDescription>Left Ventricular</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_MIXED</dSuffix>
        <dOffset>4</dOffset>
        <dDescription>Multiple Chambers</dDescription>
    </discrim>
</discriminator>
<!-- -->
<!-- Statistical Discriminators "", "_MAX", "_MIN" and "_MEAN" -->
<!-- -->
<discriminator id="MMM">
    <dDescription1>Statistical Discriminators max, min, mean </dDescription1>
    <dDescription2>Choices=4, Default=0: null.</dDescription2>
    <dCase>STATISTICAL</dCase>
    <dBits>2</dBits>
    <discrim>
        <dSuffix/>
        <dOffset>0</dOffset>
        <dDescription>not specified</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_MAX</dSuffix>
        <dOffset>1</dOffset>
        <dDescription>maximum value observed over an interval</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_MIN</dSuffix>
        <dOffset>2</dOffset>
        <dDescription>minimum value observed over an interval</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_MEAN</dSuffix>
        <dOffset>3</dOffset>
        <dDescription>mean value observed over an interval</dDescription>
    </discrim>
</discriminator>
<!-- -->
<!-- Discriminators "", "_HIGH" and "_LOW" -->
<!-- -->
<discriminator id="HIGHLOW">
    <dDescription1>Upper and lower limits</dDescription1>
    <dDescription2>Choices=3, Default=0: null.</dDescription2>
    <dCase>HIGHLOW</dCase>
    <dBits>2</dBits>
    <discrim>
        <dSuffix/>
        <dOffset>0</dOffset>
        <dDescription>not specified</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_HIGH</dSuffix>
        <dOffset>1</dOffset>
        <dDescription>upper limit</dDescription>
    </discrim>
    <discrim>
        <dSuffix>_LOW</dSuffix>
        <dOffset>2</dOffset>
        <dDescription>lower limit</dDescription>
    </discrim>
</discriminator>
<!-- -->
<!-- Discriminators "", "_1", "_2", ... "_10" -->
<!-- -->
<discriminator id="1..10">
```

```
        <dDescription1>Instance Counts</dDescription1>
        <dDescription2>Choices=10+null, Default=0: null.</dDescription2>
        <dCase>ICOUNT</dCase>
        <dBits>4</dBits>
        <discrim>
            <dSuffix/>
            <dOffset>0</dOffset>
            <dDescription>not specified</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_1</dSuffix>
            <dOffset>1</dOffset>
            <dDescription>first instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_2</dSuffix>
            <dOffset>2</dOffset>
            <dDescription>second instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_3</dSuffix>
            <dOffset>3</dOffset>
            <dDescription>third instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_4</dSuffix>
            <dOffset>4</dOffset>
            <dDescription>fourth instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_5</dSuffix>
            <dOffset>5</dOffset>
            <dDescription>fifth instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_6</dSuffix>
            <dOffset>6</dOffset>
            <dDescription>sixth instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_7</dSuffix>
            <dOffset>7</dOffset>
            <dDescription>seventh instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_8</dSuffix>
            <dOffset>8</dOffset>
            <dDescription>eighth instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_9</dSuffix>
            <dOffset>9</dOffset>
            <dDescription>ninth instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_10</dSuffix>
            <dOffset>10</dOffset>
            <dDescription>tenth instance</dDescription>
        </discrim>
    </discriminator>
    <!-- -->
    <!-- Discriminators "", "_1", "_2", "_3" -->
    <!-- -->
    <discriminator id="1..3">
        <dDescription1>Instance Counts</dDescription1>
        <dDescription2>Choices=3+null, Default=0: null.</dDescription2>
        <dCase>ICOUNT</dCase>
        <dBits>2</dBits>
        <discrim>
            <dSuffix/>
            <dOffset>0</dOffset>
            <dDescription>not specified</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_1</dSuffix>
            <dOffset>1</dOffset>
            <dDescription>first instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_2</dSuffix>
            <dOffset>2</dOffset>
            <dDescription>second instance</dDescription>
        </discrim>
        <discrim>
            <dSuffix>_3</dSuffix>
            <dOffset>3</dOffset>
            <dDescription>third instance</dDescription>
        </discrim>
    </discriminator>
    <!-- -->
    <!-- Discriminators "", "_START" and "_END" -->
    <!-- -->
    <discriminator id="STRTEND">
```

```
            <dDescription1>Start and end date</dDescription1>
            <dDescription2>Choices=3, Default=0: null.</dDescription2>
            <dCase>STRTEND</dCase>
            <dBits>2</dBits>
            <discrim>
                <dSuffix/>
                <dOffset>0</dOffset>
                <dDescription>not specified</dDescription>
            </discrim>
            <discrim>
                <dSuffix>_START</dSuffix>
                <dOffset>1</dOffset>
                <dDescription>start date</dDescription>
            </discrim>
            <discrim>
                <dSuffix>_END</dSuffix>
                <dOffset>2</dOffset>
                <dDescription>end date</dDescription>
            </discrim>
        </discriminator>
        <!-- -->
    </discriminators>
```

Annex I

(informative)

Bibliography

Bibliographical references are resources that provide additional or helpful material but do not need to be understood or used to implement this standard. Reference to these resources is made for informational use only.

[B1] Hayes, D. L., and S. J. Asirvatham, *Dictionary of Caridac Pacing, Defibrillation, Resynchronization, and Arrhythmias*, Minneapolis, MN, caridotext, 2007.

[B2] ISO/IEEE 11073-10201:2004, Health informatics—Point-of-care medical device communication—Part 10201: Domain information model.[6]

[6] ISO/IEC publications are available from the ISO Central Secretariat (http://www.iso.org/). ISO publications are also available in the United States from the American National Standards Institute (http://www.ansi.org/).

Annex J
(informative)

IEEE list of participants

Participants

At the time this draft standard was submitted to the IEEE-SA Standards Board for approval, the Engineering in Medicine and Biology (EMB/11073/EMBS_WG) Working Group had the following membership:

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The following members of the individual balloting committee voted on this standard. Balloters may have voted for approval, disapproval, or abstention.

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Abstract: ISO/IEEE 11073-10103:2014 extends the base nomenclature provided in IEEE 11073 to support terminology for implantable cardiac devices. Devices within the scope of this nomenclature are implantable devices such as pacemakers, defibrillators, devices for cardiac resynchronization therapy, and implantable cardiac monitors. The discrete terms necessary to convey a clinically relevant summary of the information obtained during a device interrogation are defined in this nomenclature. To improve workflow efficiencies, cardiology and electrophysiology practices require the management of summary interrogation information from all vendor devices and systems in a central system such as an Electronic Health Records (EHR) system or a device clinic management system. To address this requirement, the Implantable Device, Cardiac (IDC) Nomenclature defines a standard-based terminology for device data. The nomenclature facilitates the transfer of data from the vendor proprietary systems to the clinic EHR or device clinic management system.

Keywords: cardiac resynchronization therapy (CRT), codes, follow-up, home monitoring, IEEE 11073-10103, implantable cardioverter defibrillator (ICD), implantable devices, medical device communication, nomenclature, pacemaker, remote follow-up, remote monitoring, terminology

ICS 35.240.80
ISBN (PDF) 978-0-7381-7282-8; ISBN (Print) 978-0-7381-7388-7
Price based on 117 pages