ITU-T

H.845.2

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU (08/2018)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

E-health multimedia services and applications – Interoperability compliance testing of personal health systems (HRN, PAN, LAN, TAN and WAN)

Conformance of ITU-T H.810 personal health system: Personal Health Devices interface Part 5B: Glucose meter

Recommendation ITU-T H.845.2



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## Recommendation ITU-T H.845.2

# Conformance of ITU-T H.810 personal health system: Personal Health Devices interface Part 5B: Glucose meter

## **Summary**

Recommendation ITU-T H.845.2 provides a test suite structure (TSS) and the test purposes (TPs) for glucose meters in the Personal Health Devices (PHD) interface, based on the requirements defined in the Recommendations of the ITU-T H.810 sub-series, of which Recommendation ITU-T H.810 (2017) is the base Recommendation. The objective of this test specification is to provide a high probability of interoperability at this interface.

Recommendation ITU-T H.845.2 is a transposition of Continua Test Tool DG2016, Test Suite Structure & Test Purposes, Personal Health Devices Interface; Part 5B: Device Specializations. Personal Health Device (Glucose Meter) (Version 1.6, 2016-09-20), which was developed by the Personal Connected Health Alliance. A number of versions of this specification existed before transposition.

This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICSs) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

#### **History**

Edition	Recommendation	Approval	Study Group	Unique ID*
1.0	ITU-T H.845.2	2015-01-13	16	11.1002/1000/12263
2.0	ITU-T H.845.2	2016-07-14	16	11.1002/1000/12939
3.0	ITU-T H.845.2	2017-04-13	16	11.1002/1000/13220
4.0	ITU-T H.845.2	2018-08-29	16	11.1002/1000/13682

## **Keywords**

Conformance testing, Continua Design Guidelines, e-health, glucose meter, IEEE 11073 device specialization, ITU-T H.810, personal area network, personal connected health devices, Personal Health Devices interface, touch area network.

<sup>\*</sup> To access the Recommendation, type the URL http://handle.itu.int/ in the address field of your web browser, followed by the Recommendation's unique ID. For example, <a href="http://handle.itu.int/11.1002/1000/11830-en">http://handle.itu.int/11.1002/1000/11830-en</a>.

#### **FOREWORD**

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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Compliance with this Recommendation is voluntary. However, the Recommendation may contain certain mandatory provisions (to ensure, e.g., interoperability or applicability) and compliance with the Recommendation is achieved when all of these mandatory provisions are met. The words "shall" or some other obligatory language such as "must" and the negative equivalents are used to express requirements. The use of such words does not suggest that compliance with the Recommendation is required of any party.

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As of the date of approval of this Recommendation, ITU had not received notice of intellectual property, protected by patents, which may be required to implement this Recommendation. However, implementers are cautioned that this may not represent the latest information and are therefore strongly urged to consult the TSB patent database at <a href="http://www.itu.int/ITU-T/ipr/">http://www.itu.int/ITU-T/ipr/</a>.

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**Electronic attachment**: This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICSs) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

## Introduction

This Recommendation is a transposition of Continua Test Tool DG2016, Test Suite Structure & Test Purposes, Personal Health Devices Interface; Part 5B: Device Specializations. Personal Health Device (Glucose Meter) (Version 1.6, 2016-09-20), that was developed by the Personal Connected Health Alliance. The table below shows the revision history of this test specification; it may contain versions that existed before transposition.

Version	Date	Revision history
1.2	2012-10-05	Initial release for Test Tool DG2011. This is the same version as "TSS&TP_1.5_PAN-LAN_PART_5B_v1.2.doc" because new features included in [b-CDG 2011] do not affect the test procedures specified in this document
1.3	2013-05-24	Initial release for Test Tool DG2012. This uses "TSS&TP_DG2011_PAN-LAN_PART_5B_v1.2.doc" as a baseline and adds new features included in [b-CDG 2012]:  • New GM spec version  • Max APDU size for GM, BCA and ECG
1.4	2014-01-24	Initial release for Test Tool DG2013. This uses "TSS&TP_DG2012_PAN-LAN_PART_5B_v1.3.doc" as a baseline and adds new features included in [b-ITU-T H.810 (2013)]/[b-CDG 2013]:  • Adds glucose meter BLE  • Adds BLE SSP support  • Adds NFC new transport  • Adds INR device specialization
1.5	2014-04-24	TM Lite & Doc Enhancements (Test Tool v4.0 Maintenance Release 1). It uses "TSS&TP_DG2013_PLT_PART_5B_v1.4.doc" as a baseline and adds new features included in Documentation Enhancements:  • "Other PICS" row added
1.5	2015-07-01	Initial release for Test Tool DG2015. It is the same version as "TSS&TP_DG2013_PLT_PART_5B_v1.4.doc" because the new features included in [ITU-T H.810 (2015)]/[b-CDG 2015] do not affect the test procedures specified in this document.
1.6	2016-09-20	Initial release for Test Tool DG2016. It uses "TSS&TP_DG2015_PLT_PART_5B_v1.5.doc" as a baseline and adds new features included in [ITU-T H.810 (2016)]/[b-CDG 2016]
1.7	2018-02-27	Initial release for Test Tool DG2017. It adds updates and new features included in [ISO/IEEE 11073-10417:2017]

## **Recommendation ITU-T H.845.2**

# Conformance of ITU-T H.810 personal health system: Personal Health Devices interface Part 5B: Glucose meter

## 1 Scope

The scope of this Recommendation<sup>1</sup> is to provide a test suite structure (TSS) and the test purposes (TPs) for the Personal Health Devices (PHD) interface based on the requirements defined in the Continua Design Guidelines (CDG) [ITU-T H.810 (2017)]. The objective of this test specification is to provide a high probability of interoperability at this interface.

The TSS and TPs for the Personal Health Devices interface have been divided into the parts specified below. This Recommendation covers Part 5, subpart 5B.

- Part 1: Optimized Exchange Protocol. Personal Health Device
- Part 2: Optimized Exchange Protocol. Personal Health Gateway
- Part 3: Continua Design Guidelines. Personal Health Device
- Part 4: Continua Design Guidelines. Personal Health Gateway
- Part 5: Device specializations. Personal Health Device. This document is divided into the following subparts:
  - Part 5A: Weighing scales
  - Part 5B: Glucose meter
  - Part 5C: Pulse oximeter
  - Part 5D: Blood pressure monitor
  - Part 5E: Thermometer
  - Part 5F: Cardiovascular fitness and activity monitor
  - Part 5G: Strength fitness equipment
  - Part 5H: Independent living activity hub
  - Part 5I: Adherence monitor
  - Part 5J: Insulin pump
  - Part 5K: Peak expiratory flow monitor
  - Part 5L: Body composition analyser
  - Part 5M: Basic electrocardiograph
  - Part 5N: International normalized ratio monitor
  - Part 5O: Sleep apnoea breathing therapy equipment (SABTE)
  - Part 5P: Continuous glucose monitor (CGM)
  - Part 5Q: Power status monitor (PSM)
- Part 6: Device specializations. Personal Health Gateway
- Part 7: Continua Design Guidelines. Personal Health Device BLE
- Part 8: Continua Design Guidelines. Personal Health Gateway BLE

<sup>&</sup>lt;sup>1</sup> This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICSs) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

- Part 9: Personal Health Devices Transcoding Whitepaper. Personal Health Device
- Part 10: Personal Health Devices Transcoding Whitepaper. Personal Health Gateway

#### 2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

[ITU-T H.810 (2017)] Recommendation ITU-T H.810 (2017), Interoperability design

guidelines for personal connected health systems: Introduction.

[ISO/IEEE 11073-10417] ISO/IEEE 11073-10417:2017, *Health informatics – Personal* 

health device communication – Part 10417: Device

*specialization – Glucose meter.* https://www.iso.org/standard/70739.html

[ISO/IEEE 11073-20601-2016C] ISO/IEEE 11073-20601:2016, *Health informatics – Personal* 

health device communication – Part 20601: Application profile

- Optimized exchange protocol, including ISO/IEEE

11073-20601:2016/Cor.1:2016. https://www.iso.org/standard/66717.html with https://www.iso.org/standard/71886.html

#### 3 Definitions

## 3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

- **3.1.1 agent** [ISO/IEEE 11073-20601:2016C]: A node that collects and transmits personal health data to an associated manager.
- **3.1.2** manager [ISO/IEEE 11073-20601:2016C]: A node receiving data from one or more agent systems. Examples of managers include a cellular phone, health appliance, set top box, or a computer system.

## 3.2 Terms defined in this Recommendation

None.

# 4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

DUT Device Under Test

CDG Continua Design Guidelines
CGM Continuous Glucose Monitor
INR International Normalized Ratio

IP Insulin Pump

MDS Medical Device System

NFC Near Field Communication

PAN Personal Area Network

PHD Personal Health Device

PHG Personal Health Gateway

PICS Protocol Implementation Conformance Statement

PIXIT Protocol Implementation extra Information for Testing

PSM Power Status Monitor

SABTE Sleep Apnoea Breathing Therapy Equipment

SCR Static Conformance Review SDP Service Discovery Protocol

TP Test Purpose

TSS Test Suite Structure

USB Universal Serial Bus

#### 5 Conventions

The key words "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "MAY", "MAY NOT" in this Recommendation are to be interpreted as in [b-ETSI SR 001 262].

- SHALL is equivalent to 'must' or 'it is required to'.
- SHALL NOT is equivalent to 'must not' or 'it is not allowed'.
- SHOULD is equivalent to 'it is recommended to'.
- SHOULD NOT is equivalent to 'it is not recommended to'.
- MAY is equivalent to 'is permitted'.
- MAY NOT is equivalent to 'it is not required that'.

NOTE – The above-mentioned key words are capitalized for illustrative purposes only and they do not appear capitalized within this Recommendation.

Reference is made in the ITU-T H.800-series of Recommendations to different versions of the Continua Design Guidelines (CDG) by a specific designation. The list of terms that may be used in this Recommendation is provided in Table 1.

Table 1 – List of designations associated with the various versions of the CDG

CDG release	Transposed as	Vers ion	Description	Designation
2017	-	7.0	Release 2017 of the CDG including maintenance updates of the CDG 2016 and additional guidelines that cover new functionalities.	-
2016 plus errata	[ITU-T H.810 (2016)]	6.1	Release 2016 plus errata noting all ratified bugs [b-CDG 2016].	_
2016	-	6.0	Release 2016 of the CDG including maintenance updates of the CDG 2015 and additional guidelines that cover new functionalities.	Iris
2015 plus errata	[b-ITU-T H.810 (2015)]	5.1	Release 2015 plus errata noting all ratified bugs [b-CDG 2015]. The 2013 edition of [ITU-T H.810] is split into eight parts in the ITU-T H.810-series.	_
2015	_	5.0	Release 2015 of the CDG including maintenance updates of the CDG 2013 and additional guidelines that cover new functionalities.	Genome
2013 plus errata	[b-ITU-T H.810 (2013)]	4.1	Release 2013 plus errata noting all ratified bugs [b-CDG 2013].	_
2013	-	4.0	Release 2013 of the CDG including maintenance updates of the CDG 2012 and additional guidelines that cover new functionalities.	Endorphin
2012 plus errata	-	3.1	Release 2012 plus errata noting all ratified bugs [b-CDG 2012].	_
2012	-	3.0	Release 2012 of the CDG including maintenance updates of the CDG 2011 and additional guidelines that cover new functionalities.	Catalyst
2011 plus errata	-	2.1	CDG 2011 integrated with identified errata.	_
2011	-	2.0	Release 2011 of the CDG including maintenance updates of the CDG 2010 and additional guidelines that cover new functionalities [b-CDG 2011].	Adrenaline
2010 plus errata	_	1.6	CDG 2010 integrated with identified errata	_
2010	_	1.5	Release 2010 of the CDG with maintenance updates of the CDG Version 1 and additional guidelines that cover new functionalities [b-CDG 2010].	1.5
1.0	_	1.0	First released version of the CDG [b-CDG 1.0].	_

## **6** Test suite structure

4

The TPs for the PHD interface have been divided into the main subgroups specified below. Annex A describes the TPs for subgroup 1.3.2: (shown in bold).

- Group 1: Personal Health Device (PHD)
  - Group 1.1: Transport (TR)
    - Subgroup 1.1.1: Design guidelines: Common (DGC)
    - Subgroup 1.1.2: USB design guidelines (UDG)
    - Subgroup 1.1.3: Bluetooth design guidelines (BDG)
    - Subgroup 1.1.4: Pulse oximeter design guidelines (PODG)
    - Subgroup 1.1.5: Cardiovascular design guidelines (CVDG)
    - Subgroup 1.1.6: Activity hub design guidelines (HUBDG)
    - Subgroup 1.1.7: ZigBee design guidelines (ZDG)
    - O Subgroup 1.1.8: Glucose meter design guidelines (GLDG)
    - Subgroup 1.1.9: Bluetooth low energy design guidelines (BLEDG)
    - Subgroup 1.1.10: Basic electrocardiograph design guidelines (ECGDG)
    - Subgroup 1.1.11: NFC design guidelines (NDG)
  - Group 1.2: IEEE 20601 Optimized exchange protocol (OXP)
    - Subgroup 1.2.1: PHD domain information model (DIM)
    - Subgroup 1.2.2: PHD service model (SER)
    - Subgroup 1.2.3: PHD communication model (COM)
  - Group 1.3: Devices class specializations (CLASS)
    - Subgroup 1.3.1: Weighing scales (WEG)
    - Subgroup 1.3.2: Glucose meter (GL)
    - Subgroup 1.3.3: Pulse oximeter (PO)
    - Subgroup 1.3.4: Blood pressure monitor (BPM)
    - Subgroup 1.3.5: Thermometer (TH)
    - Subgroup 1.3.6: Cardiovascular (CV)
    - Subgroup 1.3.7: Strength (ST)
    - O Subgroup 1.3.8: Activity hub (HUB)
    - Subgroup 1.3.9: Adherence monitor (AM)
    - Subgroup 1.3.10: Insulin pump (IP)
    - Subgroup 1.3.11: Peak flow (PF)
    - Subgroup 1.3.12: Body composition analyser (BCA)
    - Subgroup 1.3.13: Basic electrocardiograph (ECG)
    - Subgroup 1.3.14: International normalized ratio (INR)
    - Subgroup 1.3.15: Sleep apnoea breathing therapy equipment (SABTE)
    - Subgroup 1.3.16: Continuous glucose monitor (CGM)
    - Subgroup 1.3.17: Power status monitor (PSM)
  - Group 1.4: Personal Health Device transcoding whitepaper (PHDTW)
    - Subgroup 1.4.1: Whitepaper general requirements (GEN)
    - Subgroup 1.4.2: Whitepaper thermometer requirements (TH)
    - Subgroup 1.4.3: Whitepaper blood pressure requirements (BPM)
    - Subgroup 1.4.4: Whitepaper heart rate requirements (HR)
    - Subgroup 1.4.5: Whitepaper glucose meter requirements (GL)

- Subgroup 1.4.6: Whitepaper weight scale requirements (WS)
- Subgroup 1.4.7: Whitepaper pulse oximeter requirements (PLX)
- Subgroup 1.4.8: Whitepaper continuous glucose monitoring requirements (CGM)
- Group 2: Personal Health Gateway (PHG)
  - Group 2.1: Transport (TR)
    - Subgroup 2.1.1: Design guidelines: Common (DGC)
    - Subgroup 2.1.2: USB design guidelines (UDG)
    - Subgroup 2.1.3: Bluetooth design guidelines (BDG)
    - Subgroup 2.1.4: Cardiovascular design guidelines (CVDG)
    - Subgroup 2.1.5: Activity hub design guidelines (HUBDG)
    - Subgroup 2.1.6: ZigBee design guidelines (ZDG)
    - Subgroup 2.1.7: Bluetooth low energy design guidelines (BLEDG)
    - Subgroup 2.1.8: NFC design guidelines (NDG)
  - Group 2.2: IEEE 20601 Optimized exchange protocol (OXP)
    - Subgroup 2.2.1: General (GEN)
    - Subgroup 2.2.2: PHD domain information model (DIM)
    - Subgroup 2.2.3: PHD service model (SER)
    - Subgroup 2.2.4: PHD communication model (COM)
  - Group 2.3: Devices class specializations (CLASS)
    - Subgroup 2.3.1: Weighing scales (WEG)
    - Subgroup 2.3.2: Glucose meter (GL)
    - Subgroup 2.3.3: Pulse oximeter (PO)
    - Subgroup 2.3.4: Blood pressure monitor (BPM)
    - Subgroup 2.3.5: Thermometer (TH)
    - Subgroup 2.3.6: Cardiovascular (CV)
    - Subgroup 2.3.7: Strength (ST)
    - Subgroup 2.3.8: Activity hub (HUB)
    - Subgroup 2.3.9: Adherence monitor (AM)
    - Subgroup 2.3.10: Insulin pump (IP)
    - Subgroup 2.3.11: Peak flow (PF)
    - Subgroup 2.3.12: Body composition analyser (BCA)
    - Subgroup 2.3.13: Basic electrocardiograph (ECG)
    - Subgroup 2.3.14: International normalized ratio (INR)
    - Subgroup 2.3.15: Sleep apnoea breathing therapy equipment (SABTE)
    - Subgroup 2.3.16: Continuous glucose monitor (CGM)
    - Subgroup 2.3.17: Power status monitor (PSM)
  - Group 2.4: Personal health device transcoding whitepaper (PHDTW)
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    - Subgroup 2.4.3: Whitepaper blood pressure measurement requirements (BPM)
    - Subgroup 2.4.4: Whitepaper heart rate requirements (HR)

- Subgroup 2.4.5: Whitepaper glucose meter requirements (GL)
- Subgroup 2.4.6: Whitepaper weight scale requirements (WS)
- Subgroup 2.4.7: Whitepaper pulse oximeter requirements (PLX)
- Subgroup 2.4.8: Whitepaper continuous glucose monitoring requirements (CGM)

## 7 Electronic attachment

The protocol implementation conformance statements (PICSs) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A can be downloaded from http://handle.itu.int/11.1002/2000/12067. See [b-PHD PICS & PIXIT], [b-PHG PICS & PIXIT] and [b-TI].

In the electronic attachment, letters "C" and "I" in the column labelled "Mandatory" are used to distinguish between "PICSs" and "PIXIT", respectively, during testing. If the cell is empty, the corresponding PICS is "independent". If the field contains a "C", the corresponding PICS is dependent on other PICSs, and the logical expression is detailed in the "SCR\_Expression" field. The static conformance review (SCR) is used in the test tool to assert whether the PICS selection is consistent.

## Annex A

## **Test procedures**

(This annex forms an integral part of this Recommendation.)

## **A.1** Test purpose definition conventions

The TPs are defined according to the following rules:

- **TP Id**: This is a unique identifier (TP/<TT>/<DUT>/<GR>/<SGR>/<XX> <NNN>). It is specified according to the naming convention defined below:
  - Each TP identifier is introduced by the prefix "TP".
  - <TT>: This is the test tool that will be used in the test case.
    - PAN: Personal area network (Bluetooth or USB)
    - LAN: Local area network (ZigBee)
    - PAN-LAN: Personal area network (Bluetooth or USB) Local area network (ZigBee)
    - LP-PAN: Low power personal area network (Bluetooth low energy)
    - TAN: Touch area network (NFC)
    - PLT: Personal area network (Bluetooth or USB) Local area network (ZigBee) Touch area network (NFC)
  - O <DUT>: This is the device under test
    - PHD: Personal Health Device
    - PHG: Personal Health Gateway
  - <GR>: This identifies a group of test cases.
  - <SGR>: This identifies a subgroup of test cases.
  - <XX>: This identifies the type of testing
    - BV: Valid behaviour test
    - BI: Invalid behaviour test
  - <NNN>: This is a sequential number that identifies the TP.
- **TP label**: This is the title of the TP.
- **Coverage**: This contains the specification reference and clause to be checked by the TP.
  - Spec: This indicates the earliest version of the specification from which the testable items to be checked by the TP were included.
  - Testable item: This contains the testable items to be checked by the TP.
- **Test purpose**: This is a description of the requirements to be tested.
- **Applicability**: This contains the PICS items that define if the test case is applicable or not for a specific device. When a TP contains an "ALL" in this field it means that it applies to the DUT within that scope of the test (specialization, transport used, etc.).
- Other PICSs: This contains additional PICS items (apart from the PICS specified in the Applicability row) which are used within the test case implementation and can modify the final verdict. When this row is empty, it means that only the PICS specified in the Applicability row are used within the test case implementation.
- **Initial condition**: This indicates the state to which the DUT needs to be moved at the beginning of TC execution.

- **Test procedure**: This describes the steps to be followed in order to execute the test case.
- **Pass/Fail criteria**: This provides criteria to decide whether the DUT passes or fails the test case.

# A.2 Subgroup 1.3.2: Glucose meter (GL)

TP Id TP/PLT/PHD/CLASS/GL/BV-000_A										
TP label	Get MDS Object for Glucose meter specialization: Mandatory, Conditional and Optional Attributes.									
Coverage	Spec	[ISO/I	[ISO/IEEE 11073-10417]							
	Testable items	MDS	GL Atr	1; M	MDSGL Atr 2; M	MDSGL Atr 4; M				
		MDS	GL Atr	5; M	MDSGL Atr 10; R					
Test purpos	e	Chec	k that:							
		The N		bject contains the a	attributes specified for a Glu	cose Meter Personal Health Device				
Applicability	1	C_AG	S_OXF	2_000 AND C_AG_	OXP_178					
Other PICSs	<b>i</b>	C_AG	G_GL_	024, C_AG_GL_02	25, C_AG_GL_181					
Initial condi	tion	The s	imulat	ed PHG and the Pl	HD under test are in the Op	erating state.				
Test proced	ure	h		set to 0 (to reques		"roiv-cmip-get" command with the ttribute-id-list set to 0 to indicate all				
					a "rors-cmip-get" service r	message in which the attribute-list S Object:				
		N	MDS attributes:							
		a. Attribute System-Type must not be present.								
		b. Mandatory attribute System-Type-Spec_List								
			☐ attribute-id = MDC_ATTR_SYS_TYPE_SPEC_LIST							
				attribute-type = T	ypeVerList					
			☐ attribute-value.length = 4 bytes for each configuration supported							
				attribute-value = in the list	{MDC_DEV_SPEC_PROF	ILE_GLUCOSE , 3} must be found				
		С	. Ma	andatory attribute S	system-model					
				attribute-id = MD	C_ATTR_ID_MODEL (0x09	0x28)				
				attribute-type = S	SystemModel					
				attribute-value.le	ngth = <variable></variable>					
				attribute-value =						
				• Manufacturer =	Check against PIXIT I_AG_	_OXP_003				
				• Model = Check	against PIXIT I_AG_OXP_0	004				
		d	I. Ma	andatory attribute D	ev-Configuration-Id					
				IF C_AG_GL_02	4 THEN attribute-value = 0x	k06A5 (1701)				
				IF C_AG_GL_02	5 THEN attribute-value = 0x	k06A6 (1702)				
			IF C_AG_OXP_1	81 THEN attribute-value =	< between 0x4000 and 0x7FFF >					
	е	. Re	commended attrib	ute Base-Offset-Time						
				attribute-id = MD	C_ATTR_TIME_STAMP_B	0				
				attribute-type = E	BaseOffsetTime					
				attribute-value.le	nath = 8 bytes					

Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-000_B					
TP label		MDS Configuration objects events for Glucose meter specialization.					
Coverage	Spec	[ISO/IEEE 11073-10417]					
	Testable items	MDSEvents 1; M			1; M		
Test purpose	e	Ch	eck t	hat:			
					ter PHD sends the e event-info Config		using a Confirmed event report and
Applicability		C	AG_	OXP	_000 AND C_AG_0	OXP_178	
Other PICSs		C	AG_	OXP	_010, , C_AG_GL_	_024, C_AG_GL_025, C_A0	G_GL_181
Initial condit	ion	The	e sim	ulate	ed PHG and the PH	ID under test are in the Una	associated state.
Test procedu	ıre	1.	The	e sim	ulated PHG receiv	es an association request fi	rom the PHD under test.
Process	•	2.				nds with a result = accepted	
		3.	The	e PH	D responds with a "	Remote Operation Invoke	Confirmed Event Report" message
			a.		MDC_NOTI_CONF DU Type	FIG event to send its config	uration to the PhG.
			a.		field- type = PrstA	undu	
					field-length =2 by		
				_	field-value =0xE7		
			b.	invo	oke-id		
					field- type = Invok	elDType	
					field-length =INT-		
					field- value = <not< td=""><td>relevant for this test&gt;</td><td></td></not<>	relevant for this test>	
			c.	me	ssage		
					field- type = roiv-o	cmip-confirmed-event-repor	t
					field-length =two l	bytes	
					field- value =0x01	0x01 (EventReportArgume	entSimple)
			d.	obj.	handle (EventRep	ortArgumentSimple)	
					field- type = HAN	DLE	
					field-length =INT-	U16	
			e.	eve	nt-time (EventRep	ortArgumentSimple)	
					field- type = Relat	ive Time	
					field-length =INT-	U32	
					field-value =		
					• IF NOT C_AG_0	OXP_010 THEN value = 0x	FF 0xFF 0xFF 0xFF
			f.	eve	nt-type (EventRep	ortArgumentSimple)	
					field- type = OID-	Туре	

		☐ field-length =INT-U16
		☐ field- value=0x0D 0x1C (MDC_NOTI_CONFIG)
	g.	config-report-id (ConfigReport)
		☐ field- type = Configld
		☐ field-length = INT-U16
		☐ field value = <it configuration="" matches="" tested="" the=""></it>
		<ul><li>IF C_AG_GL_024 THEN attribute-value = 0x 06A5 (1701)</li></ul>
		<ul><li>IF C_AG_GL_025 THEN attribute-value = 0x 06A6 (1702)</li></ul>
		<ul> <li>IF C_AG_OXP_181 THEN <between 0x00="" 0x40="" 0x7f="" 0xff="" and=""> for extended configuration.</between></li> </ul>
	h.	obj-class ( ConfigReport → ConfigObjectList (ConfigObject))
		☐ field- type = OID-Type
		☐ field-length = INT-U16
		☐ field- value = At least one MDC_MOC_VMO_METRIC_NU
Pass/Fail criteria	All ched	ked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-000_C					
TP label	el MDS objects events for Glucose meter specialization.						
Coverage	Spec	[ISO/IEEE 11073-10417					
	Testable	MDSEvents 3; M	MDSEvents 4; M	MDSEvents 5; M			
	items	MDSEvents 6; M	MDSEvents 7; M	MDSEvents 8; M			
		MDSEvents 9; M	MDSEvents 10; M	PMStoreObj 4; M			
Test purpos	e	Check that:					
		Agent-initiated mode is reports are used in conf		transmission and all types of event			
		[AND]					
		The PHD sends the MDS-Dynamic-Data-Update-Fixed using a confirmed event report and it includes the event-info ScanReportInfoFixed					
		[OR]					
		The PHD sends the MDS-Dynamic-Data-Update-Var using a confirmed event report and it includes the event-info ScanReportInfoVar					
		[OR]					
			S-Dynamic-Data-Update-MP-Fixedo ScanReportInfoMPFixed	d using a confirmed event report and			
		[OR]					
		The PHD sends the MDS-Dynamic-Data-Update-MP-Var using a confirmed event report are it includes the event-info ScanReportInfoMPVar					
Applicability	,	C_AG_OXP_000 AND C_AG_OXP_178 AND (C_AG_OXP_182 OR C_AG_OXP_183 (C_AG_OXP_184 OR C_AG_OXP_189)					
Other PICSs							

Initial condition	The simulated PHG and the PHD under test are in the Operating state.					
Test procedure	Take measurements for every supported object in the PHD under test.					
	2. Wait to receive every event report and check:					
	a. APDU Type					
	☐ field- type = Event Report					
	☐ field-length = 2 bytes					
	☐ field- value=0x01 0x01 (EventReportArgumentSimple, confirmed)					
	This field identifies the type of message sent by the PHD, for the confirmed event configuration, roiv-cmip-confirmed-event-report.					
Pass/Fail criteria	Check that every received report is one of the following confirmed Data APDU					
	MDC_NOTI_SCAN_REPORT_FIXED					
	MDC_NOTI_SCAN_REPORT_MP_FIXED					
	MDC_NOTI_SCAN_REPORT_VAR					
	MDC_NOTI_SCAN_REPORT_MP_VAR					
Notes						

TP ld		TP/PLT/PHD/CLASS/GL/BV-001						
TP label		Objects for Glucose	Objects for Glucose meter specialization - Standard Configuration (1701 or 1702)					
Coverage	Spec	[ISO/IEEE 11073-10	[ISO/IEEE 11073-10417]					
	Testable	BloodGL 1; M	BloodGL 4; M	BloodGL 4b; M				
	items	CtrlSol 1; M	ContextMeal 4; M					
Test purpos	e	Check that:						
				NC_GLU_UNDETERMINED_PLASMA is Configurations 1701 (0x06A5) and 1702				
		[AND]						
		Control solution Numeric Object is supported by a Glucose Meter PHD for Standard Configurations 1701 (0x06A5) and 1702 (0x06A6).						
		[AND]						
		Context meal Enumeration Object is supported by a Glucose Meter PHD for Standard Configuration 1702 (0x06A6)						
Applicability	1	C_AG_OXP_000 AND C_AG_OXP_178 AND (NOT_C_AG_OXP_181)						
Other PICSs								
Initial condit	ion	The simulated PHG	and the PHD are in the Unasso	siated state.				
Test proced	ure	The simulated PHG receives an association request from the PHD under test.						
		2. The simulated PHG responds with a result = accepted-unknown-config.						
			nds with a "Remote Operation In OTI_CONFIG event to send its	voke   Confirmed Event Report" message configuration to the PHG.				
		4. Check that the field Dev-Config-Id is set to 0x06A5 (1701) OR 0x06A6 (1702), if it is not, the PHG responds with an "unsupported-config" and waits for a new configuration.						
		5. Once the PHD u	5. Once the PHD under test sends a standard configuration, check that:					

	IF Dev-Config-Id = 0x06A5 THEN Attribute-List:
	<ul> <li>a. attribute-value (ConfigReport → ConfigObjectList (ConfigObject) → Attribute List), this value depends on the attribute Type. The values we have to check are:</li> </ul>
	□ Blood glucose Object is present → MDC_PART_SCADA (0x00 0x02), MDC_CONC_GLU_UNDETERMINED_PLASMA (0x72 0x70)
	□ Control solution Object is present → MDC_PART_SCADA (0x00 0x02), MDC_CONC_GLU_CONTROL (0x71 0xD0)
	IF Dev-Config-Id = 0x06A5 THEN Attribute-List:
	<ul> <li>b. attribute-value (ConfigReport → ConfigObjectList (ConfigObject) → Attribute List), this value depends on the attribute Type. The values we have to check are:</li> </ul>
	□ Blood glucose Object is present → MDC_PART_SCADA (0x00 0x02), MDC_CONC_GLU_UNDETERMINED_PLASMA (0x72 0x70)
	□ Control solution Object is present → MDC_PART_SCADA (0x00 0x02), MDC_CONC_GLU_CONTROL (0x71 0xD0)
	□ Context meal Object is present → MDC_PART_PHD_DM (0X00 0X80), MDC_CTXT_GLU_MEAL (0x72 0x48)
Pass/Fail criteria	All checked values are as specified in the test procedure and no other object listed.
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-002						
TP label		Objects for Glucose meter spe	cialization - Extended Configura	ation				
Coverage	Spec	[ISO/IEEE 11073-10417]						
	Testable items	BloodGL 1; M	DevSenAn 3; R	BloodGL 28; M				
Test purpose	•	Check that:						
		The Blood Glucose Numeric O	bject is supported by a Glucose	e Meter PHD.				
		[AND]						
		HbA1c, Context Exercise, Co Numeric Objects can be imple		pohydrates or Control Solution				
		[AND]						
		PHD should support Device and sensor status annunciation object to transmit these occurrences.						
		[AND]						
		In case that a blood glucose measurement needs to be further associated with me location, and tester information, the additional Enumeration objects, i.e Carbohydrates, Context Sample Location and Context Tester can be used.						
Applicability		C_AG_OXP_000 AND C_AG_	OXP_178 AND C_AG_OXP_18	31				
Other PICSs		C_AG_GL_012, C_AG_GL_	008, C_AG_GL_009, C_A	AG_GL_004, C_AG_GL_005, AG_GL_010, C_AG_GL_011, AG_GL_015, C_AG_GL_016, 021				
Initial conditi	ion	te.						
Test procedu	ıre	The simulated PHG receives an association request from the PHD under test.						
		2. The simulated PHG respo	nds with a result = accepted-un	known-config.				
		3. The PHD responds with a	"Remote Operation Invoke   Cor	nfirmed Event Report" message				

- with an MDC NOTI CONFIG event to send its configuration to the PHG.
- 4. Check that the field Dev-Config-Id is in the extended range; if it is not, the PHG responds with an "unsupported-config" and waits for a new configuration.
- 5. Once the PHD under test sends an extended configuration, check that:

#### Attribute-List:

- a. attribute-value( ConfigReport → ConfigObjectList (ConfigObject) → Attribute List), this value depends on the attribute type. The values we have to check are:
  - Blood Glucose Numeric Object is present → MDC\_PART\_SCADA (0x00 0x02),
    - IF C\_AG\_GL\_014 THEN MDC\_CONC\_GLU\_CAPILLARY\_WHOLEBLOOD (0x71 0xB8)
    - IF C\_AG\_GL\_015 THEN MDC\_CONC\_GLU\_CAPILLARY\_PLASMA (0x71 0xBC)
    - IF C\_AG\_GL\_016 THEN MDC\_CONC\_GLU\_VENOUS\_WHOLEBLOOD (0x71 0xC0)
    - IF C\_AG\_GL\_017 THEN MDC\_CONC\_GLU\_VENOUS\_PLASMA (0x71 0xC4)
    - •IF C\_AG\_GL\_018 THEN MDC\_CONC\_GLU\_ARTERIAL\_WHOLEBLOOD (0x71 0xC8)
    - •IF C\_AG\_GL\_019 THEN MDC\_CONC\_GLU\_ARTERIAL\_PLASMA (0x71 0xCC)
    - IF C\_AG\_GL\_012 THEN MDC\_CONC\_GLU\_UNDETERMINED\_WHOLEBLOOD (0x72 0x6C)
    - IF C\_AG\_GL\_013 THEN MDC\_CONC\_GLU\_UNDETERMINED\_PLASMA (0x72 0x70)
    - IF C\_AG\_GL\_021 THEN MDC\_CONC\_GLU\_ISF (0x71 0xD4)
  - ☐ Any of these objects may be present:
    - IF C\_AG\_GL\_001 THEN Control Solution numeric Object is present → MDC\_PART\_SCADA (0x00 0x02), MDC\_CONC\_GLU\_CONTROL (0x71 0xD0)
    - IF C\_AG\_GL\_002 THEN HbA1c numeric Object is present → MDC\_PART\_SCADA (0x00 0x02), MDC\_CONC\_HBA1C (0x71 0xDC)
    - IF C\_AG\_GL\_003 THEN Context Exercise numeric Object is present → MDC\_PART\_PHD\_DM (0X00 0X80), MDC\_CTXT\_GLU\_EXERCISE (0x71 0xE0)
    - IF C\_AG\_GL\_004 THEN Context Medication numeric Object is present → MDC\_PART\_ PHD\_DM (0x00 0x80), MDC\_CTXT\_MEDICATION (0x72 0x04)
    - IF C\_AG\_GL\_005 THEN Context Carbohydrates numeric Object is present → MDC\_PART\_ PHD\_DM (0x00 0x80), MDC\_CTXT\_GLU\_CARB (0x71 0xE4)
    - IF C\_AG\_GL\_007 THEN Device and Sensor annunciation status Enumeration Object is present → MDC\_PART\_ PHD\_DM (0x00 0x80), MDC\_GLU\_METER\_DEV\_STATUS (0x71 0xD8)
    - IF C\_AG\_GL\_008 THEN Context Meal enumeration Object is present → MDC\_PART\_PHD\_DM (0x00 0x80), MDC\_CTXT\_GLU\_MEAL (0x72 0x48)
    - IF C\_AG\_GL\_009 THEN Context Sample Location enumeration Object is present → MDC\_PART\_ PHD\_DM (0x00 0x80), MDC\_CTXT\_GLU\_SAMPLELOCATION (0x72 0x34)
    - IF C\_AG\_GL\_010 THEN Context Tester enumeration Object is present → MDC\_PART\_ PHD\_DM (0x00 0x80), MDC\_CTXT\_GLU\_TESTER (0x72 0x5C)
    - IF C\_AG\_GL\_011 THEN Context Health enumeration Object is present → MDC\_PART\_ PHD\_DM (0x00 0x80), MDC\_CTXT\_GLU\_HEALTH (0x72 0x1C)

Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld	TP/PLT/PHD/CLASS/GL/BV-004							
TP Label		Blood Glucose Numeric Object - Standard Configuration (1701 or 1702)						
Coverage	Spec	[ISO/IEEE 11			1073-10417]			
	Testable	Blo	odG	L 2; I	M	BloodGL 4; M	BloodGL 6; M	
	items	Blo	odG	L 8; I	M	BloodGL 10; M	BloodGL 12; C	
			BloodGL 14: R			BloodGL 18; R	BloodGL 20; M	
					<u>'</u>	,		
		Blo	odG	L 22;	; C	BloodGL 24; R	BloodGL 26; R	
		Mea	asDa	atTx	6;M	BloodGL 31; M	BloodGL 32; M	
Test purpos	Check that:  The Blood Glucose Numeric Object contains the attributes specified for Configuration 0x06A5 or 0x06A6.						ributes specified for Standard	
Applicability	/	C_A	AG_	OXP.	_000 AND C_AG_	OXP_178 AND (NOT C_AG_	OXP_181)	
Other PICSs	<b>:</b>							
Initial condi	tion	ion The sim			The simulated PHG and the PHD under are in the Unassociated state.			
Test proced			The simulated PHG receives an association request from the PHD under test.					
Tool procedure		2.	<ol> <li>The simulated PHG responds with a result = accepted-unknown-config. The PI responds with a "Remote Operation Invoke   Confirmed Event Report" message with MDC_NOTI_CONFIG event to send its configuration to the PHG.</li> </ol>					
		3.	3. Check that the field Dev-Config-Id is set to 0x06A5 (1701) or 0x06A6 (1702); if it is the PHG responds with an "unsupported-config" and waits for a new configuration.					
		4.			ne PHD under tes attributes are:	t sends a Standard Configur	ation, check that Blood Glucose	
			a.	Ma	ndatory attribute H	andle		
					attribute-id = MD	C_ATTR_ID_HANDLE		
					attribute-type = H			
					attribute-value =			
			b.	_	ndatory attribute T			
						C_ATTR_ID_TYPE		
						TPE MDC_PART_SCADA (0x00 0 .U_UNDETERMINED_PLASN		
			C.	Mai	ndatory attribute M		(···· = ···· •/	
					-	C_ATTR_METRIC_SPEC_SN	/ALL	
						MetricSpecSmall (BITS-16)		
					attribute-value.le			
					attribute-value ≠			

		<ul> <li>Bit 0 (mss-avail-intermittent(0)), must be set</li> </ul>
		• • • • • • • • • • • • • • • • • • • •
		<ul> <li>Bit 1 (mss-avail-stored-data(1)), must be set</li> </ul>
		<ul> <li>Bit 2 (mss-upd-aperiodic(2)), must be set</li> </ul>
		<ul> <li>Bit 3 (mss-msmt-aperiodic(3)), must be set</li> </ul>
		<ul> <li>Bit 9 (mss-acc-agent-initiated(9)), must be set</li> </ul>
		• The other bits have to be 0.
	d.	Mandatory attribute Unit-Code
		□ attribute-id = MDC_ATTR_UNIT_CODE
		□ attribute-type = OID-Type(INT-U16)
		☐ attribute-value.length = 2 bytes
		□ attribute-value= MDC_DIM_MILLI_G_PER_DL
	e.	Mandatory attribute Attribute-Value-Map
	IF D	Dev-Config-Id = 0x06A5:
		☐ attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
		■ attribute-type = AttrValMap (sequence of attribute-id(OID-Type) and attribute-length(INT-U16))
		☐ attribute-value.length= <variable></variable>
		attribute-value= MDC_ATTR_NU_VAL_OBS_BASIC MDC_ATTR_TIME_STAMP_ABS
	IF D	Dev-Config-Id = 0x06A6:
		□ attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
		□ attribute-type = AttrValMap (sequence of attribute-id(OID-Type) and attribute-length(INT-U16))
		☐ attribute-value.length= <variable></variable>
	attri	ribute-value= MDC_ATTR_NU_VAL_OBS_BASIC MDC_ATTR_TIME_STAMP_BO
	f.	No other attribute shall be present at configuration.
Pass/Fail criteria	All chec	cked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-005						
TP label		Blood Glucose Numeric Object- Extended Configuration						
Coverage Spec		[ISO/IEEE 11073-1041	[ISO/IEEE 11073-10417]					
	Testable	NumObj 3; C	NumObj 5; R	NumObj 6; R				
items	items	NumObj 7; R	NumObj 8; R	NumObj 9; R				
		NumObj 12; R	NumObj 22; R	NumObj 23; R				
		NumObj 24; R	BloodGL 5; M	BloodGL 7; M				
		BloodGL 9; M	BloodGL 15; R	BloodGL 19; R				
		BloodGL 25; R	BloodGL 27; R	NumObj 25; R				
		NumObj 2; M	NumObj 27; R					
Test purpose		Check that:						

	The Blood Glucose Numeric Object contains the attributes specified for Extended Configuration.					
Applicability	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181					
Other PICSs	C_AG_GL_012, C_AG_GL_013, C_AG_GL_014, C_AG_GL_015, C_AG_GL_016, C_AG_GL_017, C_AG_GL_018, C_AG_GL_019, C_AG_GL_021					
Initial condition	The simulated PHG and the PHD under test are in the Unassociated state.					
Test procedure	1. The simulated PHG receives an association request from the PHD under test.					
	<ol> <li>The simulated PHG responds with a result = accepted-unknown-config. The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the PHG.</li> </ol>					
	3. Check that the field Dev-Config-Id is set in the extended range; if it is not, the PHG responds with an "unsupported-config" and waits for a new configuration.					
	4. Once the PHD under test sends an Extended Configuration, check that Blood Glucose Object attributes are:					
	a. Mandatory attribute Type					
	☐ attribute-id = MDC_ATTR_ID_TYPE					
	☐ attribute-type = TYPE					
	☐ attribute-value = MDC_PART_SCADA (0x00 0x02), followed by one of the next					
	• IF C_AG_GL_014 THEN MDC_CONC_GLU_CAPILLARY_WHOLEBLOOD (0x71 0xB8)					
	•IF C_AG_GL_015 THENMDC_CONC_GLU_CAPILLARY_PLASMA (0x71 0xBC)					
	•IF C_AG_GL_016 THEN MDC_CONC_GLU_VENOUS_WHOLEBLOOD (0x71 0xC0)					
	• IF C_AG_GL_017 THEN MDC_CONC_GLU_VENOUS_PLASMA (0x71 0xC4)					
	•IF C_AG_GL_018 THEN MDC_CONC_GLU_ARTERIAL_WHOLEBLOOD (0x71 0xC8)					
	•IF C_AG_GL_019 THEN MDC_CONC_GLU_ARTERIAL_PLASMA (0x71 0xCC)					
	• IF C_AG_GL_012 THEN MDC_CONC_GLU_UNDETERMINED_WHOLEBLOOD (0x72 0x6C)					
	• IF C_AG_GL_013 THEN MDC_CONC_GLU_UNDETERMINED_PLASMA (0x72 0x70)					
	• IF C_AG_GL_021 THEN MDC_CONC_GLU_ISF (0x71 0xD4)					
	b. Not recommended Supplemental –Types Attribute					
	☐ attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES					
	□ attribute-type = SupplementalTypeList					
	☐ attribute-value.length = <variable> (Sequence of TYPE (TYPE.length= 4 bytes</variable>					
	c. Mandatory attribute Metric-Spec-Small					
	☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL					
	□ attribute-type = MetricSpecSmall (BITS-16)					
	☐ attribute-value.length = 2 bytes					
	☐ attribute-value ≠ 0x00 0x00					
	<ul> <li>Bit 0 must be set (mss-avail-intermittent(0))</li> </ul>					
	<ul><li>Bit 1 must be set (mss-avail-stored-data(1))</li></ul>					
	<ul> <li>Bit 2 must be set (mss-upd-aperiodic(2))</li> </ul>					
	<ul><li>Bit 3 must be set (mss-msmt-aperiodic(3))</li></ul>					

		Bit 9 must be set (mss-acc-agent-initiated(9))
		• Bit 12 may be set (mss-cat-manual(12)) if the reading is entered manually
d.	IF N	Not recommended attribute Metric-Structure-Small is present
		attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL
		attribute-type = MetricStructureSmall
		attribute-value.length = < variable> (Sequence of (ms-struct.length = 1 byte (INT-U8) + ms-comp-no = 1 byte (INT-U8)))
e.	IF N	Not recommended attribute Measurement-Status is present
		attribute-id = MDC_ATTR_MSMT_STAT
		attribute-type = MeasurementStatus (BITS-16)
		attribute-value.length =2 bytes
f.	Cor	nditional attribute Metric-Id is present
		attribute-id = MDC_ATTR_ID_PHYSIO
		attribute-type = OID-Type (INT-U16)
		attribute-value.length= 2 bytes
g.	IF N	Not recommended attribute Metric-Id-List is present
		attribute-id = MDC_ATTR_ID_PHYSIO_LIST
		attribute-type = MetricIdList
		attribute-value.length= SEQUENCE OF OID-Type (INT-U16)
h.	IF N	Not recommended attribute Metric-Id-Partition is present
		attribute-id = MDC_ATTR_METRIC_ID_PART
		attribute-type = NomPartition (INT-U16)
		attribute-value.length = 2 bytes
i.	Ma	ndatory attribute Unit-Code
		attribute-id = MDC_ATTR_UNIT_CODE
		attribute-type = OID-Type(INT-U16)
		attribute-value.length = 2 bytes
		attribute-value= MDC_DIM_MILLI_G_PER_DL OR MDC_DIM_MILLI_MOLE_PER_L
j.	IF N	Not recommended attribute Source-Handle-Reference is present
		attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
		attribute-type = HANDLE (INT-U16)
		attribute-value.length = 2 bytes
k.	IF r	ecommended attribute Base-Offset-Time is present
		attribute-id = MDC_ATTR_TIME_STAMP_BO
		attribute-type = BaseOffsetTime
		attribute-value.length = 8 bytes
I.	IF N	Not recommended attribute Relative-Time-Stamp is present
		attribute-id = MDC_ATTR_TIME_STAMP_REL
		attribute-type = RelativeTime(INT-U32)
		attribute-value.length = 4 bytes
m.	IF N	Not recommended attribute Measure-Active-Period
		attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
		attribute-type = FLOAT type

		☐ attribute-value.length = 4 bytes
	n.	IF Not recommended Compound-Simple-Nu-Observed-Value is present
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = SimpleNuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	0.	IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC
		☐ attribute-type = BasicNuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	p.	IF Not recommended attribute Compound-Nu-Observed-Value is present
		☐ attribute-id = MDC_ATTR_NU_VAL_OBS
		□ attribute-type = NuObsValue
		☐ attribute-value.length = <variable></variable>
	q.	Not recommended attribute Compound-Nu-Observed-Value
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = NuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	r.	IF Recommended attribute Accuracy is present
		☐ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
		□ attribute-type = FLOAT-Type (INT-U32)
		☐ attribute-value.length = 4 bytes
Pass/Fail criteria	All chec	sked values are as specified in the test procedure.
Notes		

TP ld TP label		TP/PLT/PHD/CLASS/GL/BV-006  HbA1c Numeric Object - Extended Configuration					
	Testable	NumObj 3; C	NumObj 4; M	NumObj 5; R			
	items	NumObj 6; R	NumObj 7; R	NumObj 8; R			
		NumObj 9; R	NumObj 12; R	NumObj 16; O			
		NumObj 17; O	NumObj 20; R	NumObj 22; R			
		NumObj 23; R	NumObj 24; R	NumObj 25; R			
		HbA1c 1; M	HbA1c 2; M	HbA1c 3; M			
		HbA1c 4; M	HbA1c 5; C	NumObj 2; M			
		HbA1c 6; R					
Test purpose		Check that:					
		The HbA1c Numeric Object contains the attributes specified for Extended Configuration.					
Applicabilit	y	C_AG_OXP_000 AND	C_AG_OXP_178 AND C_AG_0	OXP_181 AND C_AG_GL_002			

Other PICSs	C_/	C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189				
Initial condition	The	e sim	ulated PHG and the PHD under test are in the Unassociated state.			
Test procedure	1.	The	e simulated PHG receives an association request from the PHD under test.			
	2.	The	simulated PHG responds with a result = accepted-unknown-config.			
	3.		PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message an an MDC_NOTI_CONFIG event to send its configuration to the PHG.			
	4.		eck that the field Dev-Config-Id is in the extended range, if it is not, the simulated PHG st respond with an "unsupported-config" and wait for a new configuration.			
	5.		ce the PHD under test sends an extended configuration, check that HbA1c Object ibutes are:			
		a.	Mandatory attribute Type			
			□ attribute-id = MDC_ATTR_ID_TYPE			
			□ attribute-type = TYPE			
			□ attribute-value = MDC_PART_SCADA (0x00 0x02), MDC_CONC_HBA1C (0x71 0xDC)			
		b.	Not recommended Supplemental –Types Attribute			
			□ attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES			
			☐ attribute-type = SupplementalTypeList			
			☐ attribute-value.length = <variable> (Sequence of TYPE (TYPE.length= 4 bytes</variable>			
		c.	Mandatory attribute Metric-Spec-Small			
			☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL			
			□ attribute-type = MetricSpecSmall (BITS-16)			
			☐ attribute-value.length = 2 bytes			
			☐ attribute-value ≠ 0x00 0x00			
			<ul><li>Bit 0 must be set (mss-avail-intermittent(0))</li></ul>			
			<ul> <li>Bit 1 must be set (mss-avail-stored-data(1))</li> </ul>			
			<ul> <li>Bit 2 must be set (mss-upd-aperiodic(2))</li> </ul>			
			<ul> <li>Bit 3 must be set (mss-msmt-aperiodic(3))</li> </ul>			
			<ul><li>Bit 9 must be set (mss-acc-agent-initiated(9))</li></ul>			
			Bit 12 may be set (mss-cat-manual(12)) if the reading is entered manually			
		d.	IF Not recommended attribute Metric-Structure-Small is present			
			☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL			
			□ attribute-type = MetricStructureSmall			
			□ attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8)))</variable>			
		e.	IF Not recommended attribute Measurement-Status is present			
			☐ attribute-id = MDC_ATTR_MSMT_STAT			
			□ attribute-type = MeasurementStatus (BITS-16)			
			☐ attribute-value.length =2 bytes			
		f.	Conditional attribute Metric-Id is present			
			☐ attribute-id = MDC_ATTR_ID_PHYSIO			
			□ attribute-type = OID-Type (INT-U16)			
			☐ attribute-value.length= 2 bytes			
			☐ The [Metric-Id-List] attribute shall be used if a compound observed value is used, which does not incorporate the Metric-Id directly. The order of the Metric-Id-List			

		shall correspond to the order of the elements in the compound observed value. Only one attribute of Metric-Id and Metric-Id-List shall be present.
g.	IF I	Not recommended attribute Metric-Id-List is present
		attribute-id = MDC_ATTR_ID_PHYSIO_LIST
		attribute-type = MetricIdList
		attribute-value.length= SEQUENCE OF OID-Type (INT-U16)
		The [Metric-Id-List] attribute shall be used if a compound observed value is used, which does not incorporate the Metric-Id directly. The order of the Metric-Id-List shall correspond to the order of the elements in the compound observed value. Only one attribute of Metric-Id and Metric-Id-List shall be present.
h.	IF I	Not recommended attribute Metric-Id-Partition is present
		attribute-id = MDC_ATTR_METRIC_ID_PART
		attribute-type = NomPartition (INT-U16)
		attribute-value.length = 2 bytes
i.	Ма	ndatory attribute Unit-Code
		attribute-id = MDC_ATTR_UNIT_CODE
		attribute-type = OID-Type (INT-U16)
		attribute-value.length = 2 bytes
		attribute-value= MDC_DIM_PERCENT
j.	IF I	Not recommended attribute Source-Handle-Reference is present
		attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
		attribute-type = HANDLE (INT-U16)
		attribute-value.length = 2 bytes
k.	Co	nditional attribute Absolute-Time-Stamp
		attribute-id = MDC_ATTR_TIME_STAMP_ABS
		attribute-type = AbsoluteTime
		attribute-value.length = 8 bytes
l.	IF	Recommended attribute Base-Offset-Time is present
		attribute-id = MDC_ATTR_TIME_STAMP_BO
		attribute-type = BaseOffsetTime
		attribute-value.length = 8 bytes
m.	Op	tional attribute Relative-Time-Stamp
		attribute-id = MDC_ATTR_TIME_STAMP_REL
		attribute-type = RelativeTime (INT-U32)
		attribute-value.length = 4 bytes
n.		nditional attribute HiRes-Time-Stamp
		attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
		attribute-type = HighResRelativeTime
		attribute-value.length = OCTET STRING (SIZE(8))
0.		Not recommended Compound-Simple-Nu-Observed-Value is present
٠.		attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
	_	attribute-type = SimpleNuObsValueCmp
	_	attribute-value.length = <variable></variable>
p.	IF I	PHD supports fixed or variable format MDS event report and it does not support l-Store THEN Mandatory attribute Basic-Nu-Observed-Value
		attribute-id = MDC ATTR NU VAL OBS BASIC

	1	
		□ attribute-type = BasicNuObsValue
		□ attribute-value.length = SFLOAT-Type (INT-U16)
	q.	IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC
		□ attribute-type = BasicNuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	r.	IF Not recommended attribute Compound-Nu-Observed-Value is present
		□ attribute-id = MDC_ATTR_NU_VAL_OBS
		□ attribute-type = NuObsValue
		☐ attribute-value.length = <variable></variable>
	s.	Not recommended attribute Compound-Nu-Observed-Value
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = NuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	t.	Recommended attribute Accuracy
		□ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
		□ attribute-type = FLOAT-Type (INT-U32)
		□ attribute-value.length = 4 bytes
Pass/Fail criteria	All ched	cked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-007				
TP label		Context Exercise Numeric Object - Extended Configuration				
Coverage	Spec	[ISO/IEEE 11073-1041	7]			
	Testable	NumObj 3; C	NumObj 4; M	NumObj 5; R		
	items	NumObj 6; R	NumObj 7; R	NumObj 8; R		
		NumObj 9; R	NumObj 12; R	NumObj 16; O		
		NumObj 17; O	NumObj 20; R	NumObj 22; R		
		NumObj 23; R	NumObj 24; R	NumObj 25; R		
		ContextEx 1; M	ContextEx 2; M	ContextEx 3; C		
		ContextEx 4; M	ContextEx 5; M	NumObj 2; M		
		ContextEx 6; M	ContextEx 7; R			
Test purpose		Check that:				
		The Context Exercise Numeric Object contains the attributes specified for Extended Configuration.				
Applicability	у	C_AG_OXP_000 AND	C_AG_OXP_178 AND C_AG_C	OXP_181 AND C_AG_GL_003		
Other PICS	6	C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189				

Initial condition	The	The simulated PHG and the PHD under test are in the Unassociated state.		
Test procedure	1.	The simulated PHG receives an association request from the PHD under test.		
	2.	The	e simulated PHG responds with a result = accepted-unknown-config.	
	3.		e PHD responds with a "Remote Operation Invoke   Confirmed Event Report" messagh an MDC_NOTI_CONFIG event to send its configuration to the PHG.	
	4.		eck that the field Dev-Config-Id is in the extended range, if it is not, the simulated PHost respond with an "unsupported-config" and wait for a new configuration.	
	5.		ce the PHD under test sends an Extended Configuration, check that Context Exercis ject attributes are:	
		a.	Mandatory attribute Type	
			☐ attribute-id = MDC_ATTR_ID_TYPE	
			☐ attribute-type = TYPE	
			□ attribute-value =MDC_PART_PHD_DM (0x00 0x02), MDC_CTXT_GLU_EXERCISE (0x71 0xE0)	
		b.	Not recommended Supplemental-Types Attribute	
			□ attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES	
			□ attribute-type = SupplementalTypeList	
			□ attribute-value.length = <variable> (Sequence of TYPE (TYPE.length= 4 bytes</variable>	
		c.	Mandatory attribute Metric-Spec-Small	
			□ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL	
			□ attribute-type = MetricSpecSmall (BITS-16)	
			☐ attribute-value.length = 2 bytes	
			☐ attribute-value ≠ 0x00 0x00	
			<ul><li>Bit 0 must be set (mss-avail-intermittent(0))</li></ul>	
			<ul><li>Bit 1 must be set (mss-avail-stored-data(1))</li></ul>	
			<ul> <li>Bit 2 must be set (mss-upd-aperiodic(2))</li> </ul>	
			<ul> <li>Bit 3 must be set (mss-msmt-aperiodic(3))</li> </ul>	
			<ul> <li>Bit 9 must be set (mss-acc-agent-initiated(9))</li> </ul>	
			Bit 12 must be set (mss-cat-manual(12)) if the reading is entered manually	
		d.	IF Not recommended attribute Metric-Structure-Small is present	
			☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL	
			□ attribute-type = MetricStructureSmall	
			attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8)) + ms-comp-no =1byte(INT-U8)))</variable>	
		e.	IF Not recommended attribute Measurement-Status is present	
			□ attribute-id = MDC_ATTR_MSMT_STAT	
			□ attribute-type = MeasurementStatus(BITS-16)	
			☐ attribute-value.length = 2 bytes	
		f.	Conditional attribute Metric-Id is present	
			□ attribute-id = MDC_ATTR_ID_PHYSIO	
			□ attribute-type = OID-Type(INT-U16)	
			☐ attribute-value.length= 2 bytes	
			☐ The [Metric-Id-List] attribute shall be used if a compound observed value is used which does not incorporate the Metric-Id directly. The order of the Metric-Id-List shall correspond to the order of the elements in the compound observed value Only one attribute of Metric-Id and Metric-Id-List shall be present.	

g.	IF Not recommended attribute Metric-Id-List is present
	☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
	☐ attribute-type = MetricIdList
	□ attribute-value.length= SEQUENCE OF OID-Type (INT-U16)
	☐ The [Metric-Id-List] attribute shall be used if a compound observed value is used, which does not incorporate the Metric-Id directly. The order of the Metric-Id-List shall correspond to the order of the elements in the compound observed value. Only one attribute of Metric-Id and Metric-Id-List shall be present.
h.	IF Not recommended attribute Metric-Id-Partition is present
	□ attribute-id = MDC_ATTR_METRIC_ID_PART
	□ attribute-type = NomPartition (INT-U16)
	☐ attribute-value.length = 2 bytes
i.	Mandatory attribute Unit-Code
	☐ attribute-id = MDC_ATTR_UNIT_CODE
	□ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length = 2 bytes
	☐ attribute-value= MDC_DIM_PERCENT
j.	IF Not recommended attribute Source-Handle-Reference is present
	☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
	□ attribute-type = HANDLE (INT-U16)
	☐ attribute-value.length = 2 bytes
k.	Conditional attribute Absolute-Time-Stamp
	☐ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	☐ attribute-type = AbsoluteTime
	☐ attribute-value.length = 8 bytes
l.	IF Recommended attribute Base-Offset-Time is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_BO
	□ attribute-type = BaseOffsetTime
	☐ attribute-value.length = 8 bytes
m.	Optional attribute Relative-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_REL
	□ attribute-type = RelativeTime (INT-U32)
	□ attribute-value.length = 4 bytes
n.	Conditional attribute HiRes-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
	□ attribute-type = HighResRelativeTime
	□ attribute-value.length = OCTET STRING (SIZE(8))
0.	Mandatory attribute Measure-Active-Period
	□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
	□ attribute-type = FLOAT type
	□ attribute-value.length = 4 bytes
p.	IF Not recommended Compound-Simple-Nu-Observed-Value is present
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
	□ attribute-type = SimpleNuObsValueCmp
	attribute-value length = <variable></variable>

	q.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value
		☐ attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC
		□ attribute-type = BasicNuObsValue
		□ attribute-value.length = SFLOAT-Type (INT-U16)
		□ attribute-value= value within the range:[0,100]
	r.	IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present
		☐ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC
		☐ attribute-type = BasicNuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	S.	IF Not recommended attribute Compound-Nu-Observed-Value is present
		☐ attribute-id = MDC_ATTR_NU_VAL_OBS
		□ attribute-type = NuObsValue
		☐ attribute-value.length = <variable></variable>
	t.	Not recommended attribute Compound-Nu-Observed-Value
		☐ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = NuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	u.	Recommended attribute Accuracy
		☐ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
		☐ attribute-type = FLOAT-Type (INT-U32)
		☐ attribute-value.length = 4 bytes
Pass/Fail criteria	All che	cked values are as specified in the test procedure.
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Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-008				
TP label		Context Medication Numeric Object - Extended Configuration				
Coverage	Spec	[ISO/IEEE 11073-10417	[ISO/IEEE 11073-10417]			
	Testable	NumObj 3; C	NumObj 4; M	NumObj 5; R		
	items	NumObj 6; R	NumObj 8; R	NumObj 9; R		
		NumObj 12; R	NumObj 16; O	NumObj 17; O		
		NumObj 20; R	NumObj 22; R	NumObj 23; R		
		NumObj 24; R	NumObj 25; R	ContextMed 1; M		
		ContextMed 2; M	ContextMed 3; M	ContextMed 5; C		
		ContextMed 6; M	NumObj 2; M	ContextMed 7; M		
		ContextMed 8; R				
Test purpos	se	Check that:				

	The Context Medication Numeric Object contains the attributes specified for Extended Configuration.		
Applicability	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181 AND C_AG_GL_004		
Other PICSs	C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189		
Initial condition	The simulated PHG and the PHD under test are in the Unassociated state.		
Test procedure	The simulated PHG receives an association request from the PHD under test.		
	2. The simulated PHG responds with a result = accepted-unknown-config.		
	<ol><li>The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the PHG.</li></ol>		
	<ol> <li>Check that the field Dev-Config-Id is in the extended range, if it is not, the simulated PHG must respond with an "unsupported-config" and wait for a new configuration.</li> </ol>		
	<ol><li>Once the PHD under test sends an Extended Configuration, check that Context Exercise Object attributes are:</li></ol>		
	a. Mandatory attribute Type		
	☐ attribute-id = MDC_ATTR_ID_TYPE		
	□ attribute-type = TYPE		
	attribute-value =MDC_PART_PHD_DM (0x00 0x80), MDC_CTXT_MEDICATION (0x72 0x04)		
	b. Not recommended Supplemental –Types Attribute		
	□ attribute-id = MDC_ATTR_SUPPLEMENTAL_TYPES		
	□ attribute-type = SupplementalTypeList		
	☐ attribute-value.length = <variable> (Sequence of TYPE (TYPE.length= 4 bytes</variable>		
	c. Mandatory attribute Metric-Spec-Small		
	☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL		
	□ attribute-type = MetricSpecSmall (BITS-16)		
	☐ attribute-value.length = 2 bytes		
	☐ attribute-value ≠ 0x00 0x00		
	<ul><li>Bit 0 must be set (mss-avail-intermittent(0))</li></ul>		
	<ul> <li>Bit 1 must be set (mss-avail-stored-data(1))</li> </ul>		
	<ul><li>Bit 2 must be set (mss-upd-aperiodic(2))</li></ul>		
	<ul> <li>Bit 3 must be set (mss-msmt-aperiodic(3))</li> </ul>		
	<ul><li>Bit 9 must be set (mss-acc-agent-initiated(9))</li></ul>		
	Bit 12 may be set (mss-cat-manual(12)) if the reading is entered manually		
	d. IF Not recommended attribute Metric-Structure-Small is present		
	☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL		
	□ attribute-type = MetricStructureSmall		
	attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8)) + ms-comp-no =1byte(INT-U8)))</variable>		
	e. Not recommended attribute Measurement-Status		
	☐ attribute-id = MDC_ATTR_MSMT_STAT		
	□ attribute-type = MeasurementStatus(BITS-16)		
	☐ attribute-value.length = 2 bytes		
	f. Mandatory attribute Metric-Id		
	☐ attribute-id = MDC_ATTR_ID_PHYSIO		

	□ attribute-type = OID-Type(INT-U16)
	□ attribute-value.length= 2 bytes
	□ attribute-value = One of the following
	MDC_CTXT_MEDICATION_RAPIDACTING (0x72 0x08)
	MDC_CTXT_MEDICATION_SHORTACTING (0x72 0x0C)
	MDC_CTXT_MEDICATION_INTERMEDIATEACTING (0x72 0x10)
	MDC_CTXT_MEDICATION_LONGACTING (0x72 0x14)
	MDC_CTXT_MEDICATION_PREMIX (0x72 0x18)
g.	IF Not recommended attribute Metric-Id-Partition is present
9.	□ attribute-id = MDC_ATTR_METRIC_ID_PART
	attribute-type = NomPartition (INT-U16)
	attribute-value.length = 2 bytes
h.	Mandatory attribute Unit-Code
•••	□ attribute-id = MDC_ATTR_UNIT_CODE
	attribute-type = OID-Type(INT-U16)
	attribute-value.length = 2 bytes
	□ attribute-value= MDC_DIM_MILLI_G OR MDC_DIM_MILLI_L OR MDC_DIM_INTL_UNIT
i.	IF Not recommended attribute Source-Handle-Reference is present
	☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
	□ attribute-type = HANDLE (INT-U16)
	☐ attribute-value.length = 2 bytes
j.	Conditional attribute Absolute-Time-Stamp
	☐ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	□ attribute-type = AbsoluteTime
	☐ attribute-value.length = 8 bytes
k.	IF Recommended attribute Base-Offset-Time is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_BO
	□ attribute-type = BaseOffsetTime
	□ attribute-value.length = 8 bytes
I.	Optional attribute Relative-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_REL
	□ attribute-type = RelativeTime (INT-U32)
	☐ attribute-value.length = 4 bytes
m.	Conditional attribute HiRes-Time-Stamp
	☐ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
	□ attribute-type = HighResRelativeTime
	□ attribute-value.length = OCTET STRING (SIZE(8))
n.	Not recommended attribute Measure-Active-Period
	□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
	☐ attribute-type = FLOAT type
	☐ attribute-value.length = 4 bytes
0.	IF Not recommended Compound-Simple-Nu-Observed-Value is present
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP

		□ attribute-type = SimpleNuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	p.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value
		☐ attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC
		□ attribute-type = BasicNuObsValue
		□ attribute-value.length = SFLOAT-Type (INT-U16)
	q.	IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC
		□ attribute-type = BasicNuObsValueCmp
		□ attribute-value.length = <variable></variable>
	r.	IF Not recommended attribute Compound-Nu-Observed-Value is present
		☐ attribute-id = MDC_ATTR_NU_VAL_OBS
		□ attribute-type = NuObsValue
		□ attribute-value.length = <variable></variable>
	S.	Not recommended attribute Compound-Nu-Observed-Value
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = NuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	t.	Recommended attribute Accuracy
		□ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
		□ attribute-type = FLOAT-Type (INT-U32)
		□ attribute-value.length = 4 bytes
Pass/Fail criteria	All chec	sked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-009				
TP label		Context Carbohydrates I	ohydrates Numeric Object - Extended Configuration			
Coverage	Spec	[ISO/IEEE 11073-10417]				
	Testable	NumObj 3; C	NumObj 4; M	NumObj 5; R		
	items	NumObj 6; R	NumObj 8; R	NumObj 9; R		
		NumObj 12; R	NumObj 16; O	NumObj 17; O		
		NumObj 20; R	NumObj 22; R	NumObj 23; R		
		NumObj 24; R	NumObj 25; R	ContextCarb 1; M		
		ContextCarb 2; M	ContextCarb 3; M	ContextCarb 4; C		
		ContextCarb 5; M	NumObj 2; M	ContextCarb 6; M		
		ContextCarb 7; R				

Test purpose	Check that:		
	The Context Carbohydrates Numeric Object contains the attributes specified for Extended Configuration.		
Applicability	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181 AND C_AG_GL_005		
Other PICSs	C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189		
Initial condition	The simulated PHG and the PHD under test are in the Unassociated state.		
Test procedure	The simulated PHG receives an association request from the PHD under test.		
	2. The simulated PHG responds with a result = accepted-unknown-config.		
	3. The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the PHG.		
	4. Check that the field Dev-Config-Id is in the extended range, if it is not, the simulated PHG must respond with an "unsupported-config" and wait for a new configuration.		
	5. Once the PHD under test sends an extended configuration, check that Context Carbohydrates Object attributes are:		
	a. Mandatory attribute Type		
	☐ attribute-id = MDC_ATTR_ID_TYPE		
	☐ attribute-type = TYPE		
	□ attribute-value =MDC_PART_PHD_DM (0x00 0x80), MDC_CTXT_GLU_CARB (0x71 0xE4)		
	b. Not recommended Supplemental-Types Attribute		
	☐ attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES		
	☐ attribute-type = SupplementalTypeList		
	☐ attribute-value.length = <variable> (Sequence of TYPE (TYPE.length= 4 bytes</variable>		
	c. Mandatory attribute Metric-Spec-Small		
	☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL		
	□ attribute-type = MetricSpecSmall (BITS-16)		
	☐ attribute-value.length = 2 bytes		
	□ attribute-value ≠ 0x00 0x00		
	<ul> <li>Bit 0 must be set (mss-avail-intermittent(0))</li> </ul>		
	<ul><li>Bit 1 must be(mss-avail-stored-data(1))</li></ul>		
	<ul> <li>Bit 2 must be set (mss-upd-aperiodic(2))</li> </ul>		
	<ul> <li>Bit 3 must be set (mss-msmt-aperiodic(3))</li> </ul>		
	<ul> <li>Bit 9 must be set (mss-acc-agent-initiated(9))</li> </ul>		
	<ul> <li>Bit 12 may be set (mss-cat-manual(12)) if the reading is entered manually</li> </ul>		
	d. IF Not recommended attribute Metric-Structure-Small is present		
	☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL		
	□ attribute-type = MetricStructureSmall		
	attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8)))</variable>		
	e. Not recommended attribute Measurement-Status		
	☐ attribute-id = MDC_ATTR_MSMT_STAT		
	☐ attribute-type = MeasurementStatus(BITS-16)		
	☐ attribute-value.length = 2 bytes		
	f. Mandatory attribute Metric-Id		

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☐ attribute-id = MDC_ATTR_ID_PHYSIO
    □ attribute-type = OID-Type(INT-U16)
    ☐ attribute-value.length= 2 bytes
    □ attribute-value = One of the following
       • MDC_CTXT_GLU_CARB_BREAKFAST (0x71 0xE8)

    MDC_CTXT_GLU_CARB_LUNCH (0x71 0xEC)

       • MDC CTXT GLU CARB DINNER (0x71 0xF0)
       MDC_CTXT_GLU_CARB_SNACK (0x71 0xF4)
       • MDC_CTXT_GLU_CARB_DRINK (0x71 0xF8)
       • MDC_CTXT_GLU_CARB_SUPPER (0x71 0xFC)
       • MDC_CTXT_GLU_CARB_BRUNCH (0x72 0x00)
       • MDC_CTXT_GLU_CARB_UNDETERMINED (0x71 0xE5)
       • MDC_CTXT_GLU_CARB_OTHER (0x71 0xE6)
       • MDC_CTXT_GLU_CARB_NO_ENTRY (0x71 0xE7)
       • MDC_CTXT_GLU_CARB_NO_INGESTION (0x71 0xE9)
  IF Not recommended attribute Metric-Id-Partition is present
    ☐ attribute-id = MDC_ATTR_METRIC_ID_PART
    □ attribute-type = NomPartition (INT-U16)
    ☐ attribute-value.length = 2 bytes
h. Mandatory attribute Unit-Code
    ☐ attribute-id = MDC_ATTR_UNIT_CODE
    □ attribute-type = OID-Type(INT-U16)
    ☐ attribute-value.length = 2 bytes
    ☐ attribute-value= MDC_DIM_ G
   IF Not recommended attribute Source-Handle-Reference is present
    ☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
    □ attribute-type = HANDLE (INT-U16)
    ☐ attribute-value.length = 2 bytes
   Conditional attribute Absolute-Time-Stamp
    ☐ attribute-id = MDC_ATTR_TIME_STAMP_ABS
    ■ attribute-type = AbsoluteTime
    ☐ attribute-value.length = 8 bytes
  IF Recommended attribute Base-Offset-Time is present
    ☐ attribute-id = MDC_ATTR_TIME_STAMP_BO
    ■ attribute-type = BaseOffsetTime
    ☐ attribute-value.length = 8 bytes
   Optional attribute Relative-Time-Stamp
    ☐ attribute-id = MDC_ATTR_TIME_STAMP_REL
    □ attribute-type = RelativeTime (INT-U32)
    ☐ attribute-value.length = 4 bytes
m. Conditional attribute HiRes-Time-Stamp
    □ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
    attribute-type = HighResRelativeTime
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attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE  attribute-type = FLOAT type  attribute-value.length = 4 bytes  o. IF Not recommended Compound-Simple-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-value.length = <a href="creation-variable-variable-variable-value">creation-value-val</a>			□ attribute-value.length = OCTET STRING (SIZE(8))
attribute-type = FLOAT type  attribute-value.length = 4 bytes  o. IF Not recommended Compound-Simple-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = SimpleNuObsValueCmp  attribute-value.length = < variable>  p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value  attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC  attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-value.length = < variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = < variable>  attribute-value.length = < variable>  1. Recommended attribute Accuracy  attribute-value.length = < variable>  1. Recommended attribute Accuracy  attribute-value.length = < variable>  attribute-value.length = < variable>  attribute-value.length = < variable>  1. Recommended attribute Accuracy  attribute-value.length = < variable>  attribute-value.length = < variable>  attribute-value.length = < variable>  1. Recommended attribute Accuracy  attribute-value.length = < va		n.	Not recommended attribute Measure-Active-Period
attribute-value.length = 4 bytes  o. IF Not recommended Compound-Simple-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = SimpleNuObsValueCmp attribute-value.length = <variable> p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC attribute-type = BasicNuObsValue attribute-value.length = SFLOAT-Type (INT-U16) q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC attribute-value.length = <variable> r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_VAL_OBS attribute-value.length = <variable> r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-value.length = variable&gt; s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-value.length = variable&gt; s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-value.length = variable&gt; s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-value.length = variable&gt; s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-value.length = variable&gt; s. IF Not recommended attribute Accuracy attribute-value.length = variable&gt; t. Recommended attribute Accuracy attribute-value.length = variable&gt; t. Recommended attribute Accuracy attribute-value.length = Variable&gt; All checked values are as specified in the test procedure.</variable></variable></variable>			□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
O. IF Not recommended Compound-Simple-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = SimpleNuObsValueCmp attribute-value.length = <variable>  p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC attribute-type = BasicNuObsValue attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-value.length = variable&gt;  s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-value.length = <variable>  t. Recommended attribute Accuracy attribute Accuracy attribute-value.length = <variable>  t. Recommended attribute Accuracy attribute-value.length = <variable>  attribute-value.length = (NTR_NU_ACCUR_MSMT attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable></variable></variable></variable></variable>			☐ attribute-type = FLOAT type
attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = SimpleNuObsValueCmp  attribute-value.length = <variable>  p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value  attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC  attribute-type = BasicNuObsValue  attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present  attribute-type = BasicNuObsValueCmp  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-type = NuObsValue  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = NuObsValueCmp  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  All checked values are as specified in the test procedure.</variable></variable></variable></variable>			☐ attribute-value.length = 4 bytes
attribute-type = SimpleNuObsValueCmp  attribute-value.length = <variable>  p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value  attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC  attribute-type = BasicNuObsValue  attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-type = BasicNuObsValueCmp  attribute-type = BasicNuObsValueCmp  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable></variable></variable></variable>		0.	IF Not recommended Compound-Simple-Nu-Observed-Value is present
□ attribute-value.length = <variable> p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value □ attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC □ attribute-type = BasicNuObsValue □ attribute-value.length = SFLOAT-Type (INT-U16) q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present □ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC □ attribute-type = BasicNuObsValueCmp □ attribute-value.length = <variable> r. IF Not recommended attribute Compound-Nu-Observed-Value is present □ attribute-id = MDC_ATTR_NU_VAL_OBS □ attribute-id = MDC_ATTR_NU_VAL_OBS □ attribute-value.length = <variable> s. IF Not recommended attribute Compound-Nu-Observed-Value is present □ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP □ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP □ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP □ attribute-value.length = <variable> t. Recommended attribute Accuracy □ attribute-id = MDC_ATTR_NU_ACCUR_MSMT □ attribute-id = MDC_ATTR_NU_ACCUR_MSMT □ attribute-id = MDC_ATTR_NU_ACCUR_MSMT □ attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.</variable></variable></variable></variable>			□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
p. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value  attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC  attribute-type = BasicNuObsValue  attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-type = BasicNuObsValueCmp  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-type = NuObsValue  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable></variable>			□ attribute-type = SimpleNuObsValueCmp
PM-Store THEN Mandatory attribute Basic-Nu-Observed-Value  attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC  attribute-type = BasicNuObsValue  attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-type = BasicNuObsValueCmp  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable></variable></variable></variable></variable>			☐ attribute-value.length = <variable></variable>
attribute-type = BasicNuObsValue attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC attribute-type = BasicNuObsValueCmp attribute-value.length = <variable> r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_VAL_OBS attribute-type = NuObsValue attribute-value.length = <variable> s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = NuObsValueCmp attribute-value.length = <variable> t. Recommended attribute Accuracy attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.</variable></variable></variable>		p.	
attribute-value.length = SFLOAT-Type (INT-U16)  q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present			□ attribute-id = MDC_ATTR_NU_VAL_OBS_BASIC
q. IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-type = BasicNuObsValueCmp  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-type = NuObsValue  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = NuObsValueCmp  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable>			☐ attribute-type = BasicNuObsValue
attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC  attribute-type = BasicNuObsValueCmp  attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-type = NuObsValue  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = NuObsValueCmp  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable>			□ attribute-value.length = SFLOAT-Type (INT-U16)
attribute-type = BasicNuObsValueCmp attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_VAL_OBS attribute-type = NuObsValue attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = NuObsValueCmp attribute-type = NuObsValueCmp attribute-value.length = <variable>  t. Recommended attribute Accuracy attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable>		q.	IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present
attribute-value.length = <variable>  r. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_VAL_OBS attribute-type = NuObsValue attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = NuObsValueCmp attribute-type = NuObsValueCmp attribute-value.length = <variable>  t. Recommended attribute Accuracy attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable></variable>			□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC
r. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-type = NuObsValue  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = NuObsValueCmp  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable>			□ attribute-type = BasicNuObsValueCmp
attribute-id = MDC_ATTR_NU_VAL_OBS  attribute-type = NuObsValue  attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = NuObsValueCmp  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable>			☐ attribute-value.length = <variable></variable>
attribute-type = NuObsValue attribute-value.length = <variable> s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = NuObsValueCmp attribute-value.length = <variable> t. Recommended attribute Accuracy attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.</variable></variable>		r.	IF Not recommended attribute Compound-Nu-Observed-Value is present
attribute-value.length = <variable>  s. IF Not recommended attribute Compound-Nu-Observed-Value is present attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP attribute-type = NuObsValueCmp attribute-value.length = <variable> t. Recommended attribute Accuracy attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable></variable>			☐ attribute-id = MDC_ATTR_NU_VAL_OBS
s. IF Not recommended attribute Compound-Nu-Observed-Value is present  attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP  attribute-type = NuObsValueCmp  attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable>			☐ attribute-type = NuObsValue
□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP □ attribute-type = NuObsValueCmp □ attribute-value.length = <variable> t. Recommended attribute Accuracy □ attribute-id = MDC_ATTR_NU_ACCUR_MSMT □ attribute-type = FLOAT-Type (INT-U32) □ attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.</variable>			☐ attribute-value.length = <variable></variable>
□ attribute-type = NuObsValueCmp □ attribute-value.length = <variable> t. Recommended attribute Accuracy □ attribute-id = MDC_ATTR_NU_ACCUR_MSMT □ attribute-type = FLOAT-Type (INT-U32) □ attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.</variable>		S.	IF Not recommended attribute Compound-Nu-Observed-Value is present
attribute-value.length = <variable>  t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.</variable>			□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
t. Recommended attribute Accuracy  attribute-id = MDC_ATTR_NU_ACCUR_MSMT  attribute-type = FLOAT-Type (INT-U32)  attribute-value.length = 4 bytes  Pass/Fail criteria  All checked values are as specified in the test procedure.			□ attribute-type = NuObsValueCmp
□ attribute-id = MDC_ATTR_NU_ACCUR_MSMT □ attribute-type = FLOAT-Type (INT-U32) □ attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.			☐ attribute-value.length = <variable></variable>
□ attribute-type = FLOAT-Type (INT-U32) □ attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.		t.	Recommended attribute Accuracy
□ attribute-value.length = 4 bytes  Pass/Fail criteria All checked values are as specified in the test procedure.			☐ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
Pass/Fail criteria All checked values are as specified in the test procedure.			□ attribute-type = FLOAT-Type (INT-U32)
·			☐ attribute-value.length = 4 bytes
N. de la	Pass/Fail criteria	All chec	cked values are as specified in the test procedure.
Notes	Notes		

TP ld						
TP label		Control Solution Numeric Object - Standard Configuration (1701 or 1702)				
Coverage	Spec	[ISO/IEEE 11073-10417]	[ISO/IEEE 11073-10417]			
	Testable items	CtrlSol 2; M	CtrlSol 4; M	CtrlSol 5; M		
		CtrlSol 6; M	CtrlSol 10; M			
		CtrlSol 12; M	CtrlSol 16; R	CtrlSol 18; M		

	CtrlSol 19;	२				
Test purpose	Check that:	Check that:				
		ol Solution Nume on 0x06A5 or 0x06	eric Object contains th A6.	he attribute	s specified	for Standard
Applicability	C_AG_OXF	C_AG_OXP_000 AND C_AG_OXP_178 AND (NOT C_AG_OXP_181)				
Other PICSs						
Initial condition	The simulat	The simulated PHG and the PHD under test are in the Unassociated state.				
Test procedure	1. The sir	nulated PHG recei	ves an association reque	est from the	PHD under to	est.
	respon	ds with a "Remote	ponds with a result = Operation Invoke   Con ent to send its configurati	firmed Even	nt Report" me	
			Config-Id is set to 0x06An "unsupported-config" a			
		he PHD under tes attributes are:	t sends a standard con	ifiguration, c	check that Co	ontrol Solution
	a. Ma	indatory attribute H	landle			
		attribute-id = MD	C_ATTR_ID_HANDLE			
		attribute-type = I	HANDLE			
		attribute-value =	0x00 0x02			
	b. Ma	indatory attribute T	уре			
		attribute-id = MD	C_ATTR_ID_TYPE			
		attribute-type = 7	YPE			
			MDC_PART_SCADA (0 _U_CONTROL (0x71 0x			
	c. Ma	indatory attribute N	Metric-Spec-Small			
		attribute-id = MD	C_ATTR_METRIC_SPE	EC_SMALL		
		attribute-type = I	MetricSpecSmall (BITS-1	16)		
		attribute-value.le	ibute-value.length = 2 bytes			
		attribute-value ≠	0x00 0x00			
		• Bit 0 (mss-avai	l-intermittent(0)), must be	e set		
		• Bit 1 (mss-avai	l-stored-data(1)), must b	e set		
		• Bit 2 (mss-upd-	aperiodic(2)), must be s	et		
		Bit 3 (mss-msn	nt-aperiodic(3)), must be	set		
		• Bit 9 (mss-acc-	agent-initiated(9)), must	be set		
		• The other bits h	nave to be 0.			
	d. Ma	indatory attribute N	Metric-Id			
		attribute-id = MD	C_ATTR_ID_PHYSIO			
		attribute-type = 0	OID-Type(INT-U16)			
		attribute-value.le	ngth = 2 bytes			
		attribute-value = (0x72 0x80)	MDC_CONC_GLU_CO	NTROL_LE	VEL_UNDET	ERMINED
	e. Ma	indatory attribute U	Jnit-Code			
		-	C_ATTR_UNIT_CODE			
		attribute-type = (	DID-Type(INT-U16)			

	1	
		attribute-value.length = 2 bytes
		attribute-value= MDC_DIM_MILLI_G_PER_DL
	f. Ma	ndatory attribute Attribute-Value-Map
	IF Dev-	Config-Id = 0x06A5:
		attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
		$attribute-type = AttrValMap \ (sequence \ of \ attribute-id(OID-Type) \ and \ attribute-length(\ INT-U16) \ )$
		attribute-value.length= <variable></variable>
		attribute-value= MDC_ATTR_NU_VAL_OBS_BASIC MDC_ATTR_ID_PHYSIO MDC_ATTR_TIME_STAMP_ABS
	IF Dev-	Config-Id = $0x06A6$ :
		attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
		attribute-type = AttrValMap (sequence of attribute-id(OID-Type) and attribute-length( INT-U16) ) $$
		attribute-value.length= <variable></variable>
		attribute-value= MDC_ATTR_NU_VAL_OBS_BASIC MDC_ATTR_ID_PHYSIO MDC_ATTR_TIME_STAMP_BO
	g. IF F	Recommended attribute Base-Offset-Time is present
		attribute-id = MDC_ATTR_TIME_STAMP_BO
		attribute-type = BaseOffsetTime
		attribute-value.length = 8 bytes
	h. No	other attribute shall be present at configuration.
Pass/Fail criteria	All checked	values are specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-010_A					
TP label		Control Solution Nu	Control Solution Numeric Object - Extended Configuration				
Coverage	Spec	[ISO/IEEE 11073-1	[ISO/IEEE 11073-10417]				
	Testable	CtrlSol 4; M	CtrlSol 5; M	CtrlSol 7; M			
	items	CtrlSol 17; M	CtrlSol 20; R				
Test purpose		Check that:  The Control Solution Numeric Object contains the attributes specified for Extended Configuration.					
Applicability	y	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_GL_001 AND C_AG_OXP_181					
Other PICS	<b>s</b>						
Initial condi	tion	The simulated PHG and the PHD under test are in the Unassociated state.					
Test procedure		The simulated PHG receives an association request from the PHD under test.					
		2. The simulated PHG responds with a result = accepted-unknown-config. The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the PHG.					
		3. Check that the field Dev-Config-Id is set in the extended range; if it is not, the PHG responds with an "unsupported-config" and waits for a new configuration.					

4.			e PHD under test sends an extended configuration, check that Control Solution attributes are:
	a.	Mar	ndatory attribute Type
			attribute-id = MDC_ATTR_ID_TYPE
			attribute-type = TYPE
			attribute-value = MDC_PART_SCADA (0x00 0x02), MDC_CONC_GLU_CONTROL (0x71 0xD0).
	b.	Not	recommended Supplemental –Types Attribute
			attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES
			attribute-type = SupplementalTypeList
			attribute-value.length = <variable> (Sequence of TYPE (TYPE.length= 4 bytes</variable>
	c.	Mar	ndatory attribute Metric-Spec-Small
			attribute-id = MDC_ATTR_METRIC_SPEC_SMALL
			attribute-type = MetricSpecSmall (BITS-16)
			attribute-value.length = 2 bytes
			attribute-value ≠ 0x00 0x00
			<ul><li>Bit 0 must be set (mss-avail-intermittent(0))</li></ul>
			● Bit 1 must be set (mss-avail-stored-data(1))
			• Bit 2 must be set (mss-upd-aperiodic(2))
			• Bit 3 must be set (mss-msmt-aperiodic(3))
			• Bit 9 must be set (mss-acc-agent-initiated(9))
	d.	IF N	Not recommended attribute Metric-Structure-Small is present
			attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL
			attribute-type = MetricStructureSmall
			attribute-value.length = <variable>(Sequence of (ms-struct.length = 1 byte(INT-U8) + ms-comp-no = 1 byte(INT-U8)))</variable>
	e.	IF N	Not recommended attribute Measurement-Status is present
			attribute-id = MDC_ATTR_MSMT_STAT
			attribute-type = MeasurementStatus (BITS-16)
			attribute-value.length =2 bytes
	f.	Mar	ndatory attribute Metric-Id is present
			attribute-id = MDC_ATTR_ID_PHYSIO
			attribute-type = OID-Type (INT-U16)
			attribute-value.length= 2 bytes
			attribute-value = One of the following
			• MDC_CONC_GLU_CONTROL_LEVEL_LOW (0x72 0x74)
			MDC_CONC_GLU_CONTROL_LEVEL_MEDIUM (0x72 0x78)
			MDC_CONC_GLU_CONTROL_LEVEL_HIGH (0x72 0x7C)
			• MDC_CONC_GLU_CONTROL_LEVEL_UNDETERMINED (0x72 0x80)
	g.	IF N	Not recommended attribute Metric-Id-List is present
			attribute-id = MDC_ATTR_ID_PHYSIO_LIST
			attribute-type = MetricIdList
			attribute-value.length= SEQUENCE OF OID-Type (INT-U16)
	h.	IF N	Not recommended attribute Metric-Id-Partition is present
			attribute-id = MDC_ATTR_METRIC_ID_PART

	□ attribute-type = NomPartition (INT-U16)
	☐ attribute-value.length = 2 bytes
i.	Mandatory attribute Unit-Code
	☐ attribute-id = MDC_ATTR_UNIT_CODE
	□ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length = 2 bytes
	□ attribute-value= MDC_DIM_MILLI_G_PER_DL OR MDC_DIM_MILLI_MOLE_PER_L
j.	IF Recommended attribute Base-Offset-Time is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_BO
	□ attribute-type = BaseOffsetTime
	☐ attribute-value.length = 8 bytes
k.	IF Not recommended attribute Source-Handle-Reference is present
	□ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
	□ attribute-type = HANDLE (INT-U16)
	☐ attribute-value.length = 2 bytes
I.	IF Not recommended attribute Relative-Time-Stamp is present
	□ attribute-id = MDC_ATTR_TIME_STAMP_REL
	□ attribute-type = RelativeTime(INT-U32)
	☐ attribute-value.length = 4 bytes
m.	IF Not recommended attribute Measure-Active-Period
	□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
	□ attribute-type = FLOAT type
	□ attribute-value.length = 4 bytes
n.	IF Not recommended Compound-Simple-Nu-Observed-Value is present
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
	□ attribute-type = SimpleNuObsValueCmp
	□ attribute-value.length = <variable></variable>
0.	IF Not recommended attribute Compound-Basic-Nu-Observed-Value is present
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_BASIC
	□ attribute-type = BasicNuObsValueCmp
	□ attribute-value.length = <variable></variable>
p.	IF Not recommended attribute Compound-Nu-Observed-Value is present
	□ attribute-id = MDC_ATTR_NU_VAL_OBS
	□ attribute-type = NuObsValue
	□ attribute-value.length = <variable></variable>
q.	Not recommended attribute Compound-Nu-Observed-Value
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
	□ attribute-type = NuObsValueCmp
	□ attribute-value.length = <variable></variable>
r.	IF Recommended attribute Accuracy is present
	attribute-id = MDC_ATTR_NU_ACCUR_MSMT
	□ attribute-type = FLOAT-Type (INT-U32)
	□ attribute-value.length = 4 bytes

Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-011				
TP label	bel Device and Sensor annunciation status Enumeration Object - Extended Configurat			bject - Extended Configuration		
Coverage Spec		[ISO/IEEE 11073-10417	7]			
Testable		EnumObj 3; R	DevSenAn 1; M	DevSenAn 5; M		
	items	DevSenAn 6; M	DevSenAn 7; O	DevSenAn 8; R		
		DevSenAn 11; R	DevSenAn 12; R	DevSenAn 13; R		
		DevSenAn 15; R	DevSenAn 21; O	DevSenAn 22; R		
		DevSenAn 23; R	DevSenAn 24; R	DevSenAn 25; R		
		DevSenAn 26; O	DevSenAn 28; O	DevSenAn 9; O		
		DevSenAn 10; R	EnumObj 2; R	EnumObj 4; R		
		EnumObj 5; R	EnumObj 19; O	DevSenAn 30; R		
		DevSenAn 30; R				
Test purpos  Applicability		Device and Sensor annunciation status Enumeration Object contains the attributes specified for Extended Configuration.  C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181 AND C_AG_GL_007				
Other PICSs						
Initial condi		The simulated PHG and the PHD under test are in the Unassociated state.				
Test proced		The simulated PHG receives an association request from the PHD under test.				
. 001 p. 0000		The simulated PHG responds with a result = accepted-unknown-config.				
		3. The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the PHG.				
		4. Check that the field Dev-Config-Id is in the extended range, if it is not, the simulated PHG must respond with an "unsupported-config" and wait for a new configuration.				
		5. Once the PHD under test sends an extended configuration, check that all Device and Sensor annunciation status Objects have:				
		a. Mandatory attribute Type				
		☐ attribute-id = MDC_ATTR_ID_TYPE				
		_	/pe = TYPE			
			alue = MDC_PART_PHD_DM (י J_METER_DEV_STATUS (0x7 <sup>,</sup>			
		b. IF Not recomm	ended attribute Supplemental-T	ypes is present		
		☐ attribute-id = MDC_ATTR_SUPPLEMENTAL_TYPES				
		□ attribute-type = SupplementalTypeList				
		□ attribute-value.length = <variable>(Sequence of TYPE (TYPE.length= 4 bytes))</variable>				
		c. Mandatory attribute Metric-Spec_Small				

	□ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL	
	□ attribute-type = MetricSpecSmall (BITS-16)	
	□ attribute-value.length =2 bytes	
	□ attribute-value ≠ 0x00 0x00	
	<ul> <li>Bit 0 must be set (mss-avail-intermittent(0))</li> </ul>	
	<ul> <li>Bit 1 must be set (mss-avail-stored-data(1))</li> </ul>	
	<ul> <li>Bit 2 must be set (mss-upd-aperiodic(2))</li> </ul>	
	<ul> <li>Bit 3 must be set (mss-msmt-aperiodic(3))</li> </ul>	
	<ul> <li>Bit 9 must be set (mss-acc-agent-initiated(9))</li> </ul>	
d.	IF Not recommended attribute Metric-Structure-Small is present	
	☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL	
	□ attribute-type = MetricStructureSmall	
	attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8)) + ms-comp-no =1byte(INT-U8)))</variable>	
e.	Optional attribute Measurement-Status	
	□ attribute-id = MDC_ATTR_MSMT_STAT	
	□ attribute-type = MeasurementStatus(BITS-16)	
	☐ attribute-value.length =2 bytes	
f.	IF Not recommended attribute Metric-Id is present	
	□ attribute-id = MDC_ATTR_ID_PHYSIO	
	□ attribute-type = OID-Type (INT-U16)	
	☐ attribute-value.length = 2 bytes	
	□ attribute-value = Only one attribute of Metric-Id and Metric-Id-List shall be present.	
g.	IF Not recommended attribute Metric-Id is present-List	
	□ attribute-id = MDC_ATTR_ID_PHYSIO_LIS	
	□ attribute-type = MetricIdList	
	□ attribute-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16))</variable>	
h.	IF Not recommended attribute Metric-Id-Partition is present	
	□ attribute-id = MDC_ATTR_METRIC_ID_PART	
	□ attribute-type = NomPartition (INT-U16)	
	□ attribute-value.length = 2 bytes	
i.	IF Not recommended attribute Unit-Code is present	
	□ attribute-id = MDC_ATTR_UNIT_CODE	
	□ attribute-type = OID-Type (INT-U16)	
	☐ attribute-value.length = 2 bytes	
j.	IF Not recommended attribute Source-Handle-Reference is present	
	☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF	
	□ attribute-type = HANDLE (INT-U16)	
	☐ attribute-value.length = 2 bytes	
k.	IF Recommended attribute Base-Offset-Time is present	
	□ attribute-id= MDC_ATTR_TIME_STAMP_BO	
	□ attribute-type = BaseOffsetTime	
	□ attribute-value.length = 2 bytes	

I.	Optional attribute Enum-Observed-Value-Simple-OID
	□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIMP_OID
	□ attribute-type = OID-Type (INT-U16)
	☐ attribute-value.length = 2 bytes
m.	IF Not recommended attribute Enum-Observed-Value-Simple-Bit-Str
	□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIMP_BIT_STR
	□ attribute-type = BITS-32
	☐ attribute-value.length = 4 bytes
n.	IF recommended attribute Enum-Observed-Value-Basic-Bit-Str is present
	□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR
	□ attribute-type = BITS-16
	☐ attribute-value.length = 2 bytes
0.	IF Not recommended attribute Enum-Observed-Value-Simple-Str is present
	□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_STR
	□ attribute-type = EnumPrintableString
	☐ attribute-value.length = <variable></variable>
p.	IF Not recommended attribute Enum-Observed-Value is present
	□ attribute-id= MDC_ATTR_VAL_ENUM_OBS
	□ attribute-type = EnumObsValue
	☐ attribute-value.length = <variable></variable>
q.	Optional attribute Enum-Observed-Value-Partition
	□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_PART
	□ attribute-type = NomPartition(INT-U16)
	☐ attribute-value.length = 2 bytes
All chec	sked values are as specified in the test procedure.
	n. o.

TP Id		TP/PLT/PHD/CLASS/GL/BV-012				
TP label		Context Meal Enumeration Object - Standard Configuration 1702				
Coverage	Spec	[ISO/IEEE 11073-10417]				
	Testable	ContextMeal 5; M	ContextMeal 6; M	ContextMeal 9; R		
items		ContextMeal 10; M	EnumObj 4; M			
Test purpose		Check that:				
		The Context Meal Enumeration Object contains the attributes specified for Standard Configuration 0x06A6.				
Applicability	1	C_AG_OXP_000 AND C_AG_	OXP_178 AND C_AG_GL_025	S AND (NOT C_AG_OXP_181)		
Other PICSs	i					
Initial condit	tial condition The simulated PHG and the PHD under test are in the Unassociated state.					
Test proced	ure	The simulated PHG receives an association request from the PHD under test.				
		2. The simulated PHG responds with a result = accepted-unknown-config. The PHD				

			ponds with a "Remote Operation Invoke   Confirmed Event Report" message with an C_NOTI_CONFIG event to send its configuration to the PHG.
	3.	Cho an	eck that the field Dev-Config-Id is set 0x06A6 (1702); if it is not, the PHG responds with "unsupported-config" and waits for a new configuration.
	4.		ce the PHD under test sends a standard configuration, check that Context Meal Object ibutes are:
		a.	Mandatory attribute Handle
			☐ attribute-id = MDC_ATTR_ID_HANDLE
			□ attribute-type = HANDLE
			☐ attribute-value = 0x00 0x03
		b.	Mandatory attribute Type
			☐ attribute-id = MDC_ATTR_ID_TYPE
			☐ attribute-type = TYPE
			□ attribute-value = MDC_PART_PHD_DM (0x00 0x80), MDC_CTXT_GLU_MEAL (0x72 0x48).
		c.	Mandatory attribute Metric-Spec-Small
			□ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL
			□ attribute-type = MetricSpecSmall (BITS-16)
			☐ attribute-value.length = 2 bytes
			☐ attribute-value ≠ 0x00 0x00
			<ul> <li>Bit 0 (mss-avail-intermittent(0)), must be set</li> </ul>
			<ul> <li>Bit 1 (mss-avail-stored-data(1)), must be set</li> </ul>
			<ul> <li>Bit 2 (mss-upd-aperiodic(2)), must be set</li> </ul>
			<ul> <li>Bit 3 (mss-msmt-aperiodic(3)), must be set</li> </ul>
			Bit 9 (mss-acc-agent-initiated(9)), must be set
			Bit 12 may be set (mss-cat-manual(12)) if the reading is entered manually
			• The other bits have to be 0.
		d.	IF Recommended attribute Base-Offset-Time is present
			☐ attribute-id = MDC_ATTR_TIME_STAMP_BO
			□ attribute-type = BaseOffsetTime
			☐ attribute-value-length = 2 bytes
		e.	Mandatory attribute Enum-Observed-Value-Simple-OID
			□ attribute-id = MDC_ATTR_ENUM_OBS_VAL_SIMP_OID
			□ attribute-type = OID-Type(INT-U16)
			☐ attribute-value-length = 2 bytes
			☐ attribute-value = One of the following nomenclature values will be used:
			<ul><li>MDC_CTXT_GLU_MEAL_PREPRANDIAL (0x72 0x4C)</li></ul>
			<ul><li>MDC_ CTXT_GLU_MEAL_POSTPRANDIAL (0x72 0x50)</li></ul>
			<ul><li>MDC_ CTXT_GLU_MEAL_FASTING (0x72 0x54)</li></ul>
			<ul><li>MDC_ CTXT_GLU_MEAL_BEDTIME (0x72 0x74)</li></ul>
			<ul><li>MDC_ CTXT_GLU_MEAL_CASUAL (0x72 0x58)</li></ul>
		f.	No other attribute shall be present at configuration.
Pass/Fail criteria	All	chec	ked values are specified in the test procedure.
Notes			

TP Id			TP/PLT/PHD/CLASS/GL/BV-012_A					
TP label			Context Meal Enumeration Object - Extended Configuration					
Coverage	Spec	[ISO	[ISO/IEEE 11073-10417]					
	Testable items	Enu	umO	bj 3;	R	EnumObj 4; M	EnumObj 5 R	
	items	Enι	umO	bj 6;	R	EnumObj 7; R	EnumObj 8; R	
		Enu	umO	bj 9;	R	EnumObj 2; M	EnumObj 12; R	
		Enu	umO	bj 16	s; O	EnumObj 17; O	EnumObj 20; O	
		EnumObj 21			; O	EnumObj 22; O	EnumObj 23; O	
		Enu	umO	bj 24	;; O	ContextMeal 1; M	ContextMeal 2; M	
		Cor	ntext	Meal	I 3; M	ContextMeal 8; R		
Test purpose	•	Che	eck t	hat:				
		Cor	ntext	Mea	l Enumeration Obj	ect contains the attributes spec	cified for Extended Configuration.	
Applicability		C_/	AG_	OXP.	_000 AND C_AG_	OXP_178 AND C_AG_OXP_1	181 AND C_AG_GL_008	
Other PICSs		C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189						
Initial conditi	tial condition			The simulated PHG and the PHD under test are in the Unassociated state.				
Test procedu	ıre	The simulated PHG receives an association request from the PHD under test.						
		2. The simulated PHG responds with a result = accepted-unknown-config.						
				3. The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the PHG.				
		4.	4. Check that the field Dev-Config-Id is in the extended range, if it is not, the simulated must respond with an "unsupported-config" and wait for a new configuration.					
		5.			e PHD under test ation Objects have		tion, check that all Context Meal	
			a.		ndatory attribute T			
						C_ATTR_ID_TYPE		
					attribute-type = T	YPE		
					attribute-value = (0X72 0X48)	MDC_PART_PHD_DM (0x00	0x80), MDC_CTXT_GLU_MEAL	
			b.	IF N	Not recommended	attribute Supplemental-Types	is present	
					attribute-id = MD	C_ATTR_SUPPLEMENTAL_T	YPES	
					attribute-type = S	SupplementalTypeList		
					attribute-value.lei	ngth = <variable> (Sequence o</variable>	f TYPE (TYPE.length= 4 bytes))	
			c.	Maı	ndatory attribute M	letric-Spec-Small		
					attribute-id = MD	C_ATTR_METRIC_SPEC_SM	IALL	
					attribute-type = M	MetricSpecSmall (BITS-16)		
					attribute-value.lei	ngth =2 bytes		
					attribute-value ≠	0x00 0x00		
					Bit 0 must be set	et (mss-avail-intermittent(0))		
					Bit 1 must be set	et (mss-avail-stored-data(1))		

• Bit 2 must be set (mss-upd-aperiodic(2)) • Bit 3 must be set (mss-msmt-aperiodic(3)) • Bit 9 must be set (mss-acc-agent-initiated(9)) • Bit 12 may be set (mss-cat-manual(12)) d. IF Not recommended attribute Metric-Structure-Small is present attribute-id = MDC\_ATTR\_METRIC\_STRUCTURE\_SMALL attribute-type = MetricStructureSmall attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8))) IF Not recommended attribute Measurement-Status is present ☐ attribute-id = MDC\_ATTR\_MSMT\_STAT ☐ attribute-type = MeasurementStatus (BITS-16) ☐ attribute-value.length = 2 bytes IF Not recommended attribute Metric-Id is present ☐ attribute-id = MDC\_ATTR\_ID\_PHYSIO ☐ attribute-type = OID-Type (INT-U16) ☐ attribute-value.length = 2 bytes attribute-value = Only one attribute of Metric-Id and Metric-Id-List shall be present. IF Not recommended attribute Metric-Id is present-List is present ☐ attribute-id = MDC\_ATTR\_ID\_PHYSIO\_LIS ■ attribute-type = MetricIdList □ attribute-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16)) IF Not recommended attribute Metric-Id-Partition is present ☐ attribute-id = MDC\_ATTR\_METRIC\_ID\_PART □ attribute-type = NomPartition (INT-U16) ☐ attribute-value.length = 2 bytes IF Not recommended attribute Unit-Code is present ☐ attribute-id = MDC\_ATTR\_UNIT\_CODE attribute-type = OID-Type(INT-U16) ☐ attribute-value.length = 2 bytes IF Not recommended attribute Source-Handle-Reference is present ☐ attribute-id = MDC\_ATTR\_SOURCE\_HANDLE\_REF □ attribute-type = HANDLE (INT-U16) ☐ attribute-value.length = 2 bytes Conditional attribute Absolute-Time-Stamp ☐ attribute-id = MDC\_ATTR\_TIME\_STAMP\_ABS ■ attribute-type = AbsoluteTime ☐ attribute-value.length = 8 bytes IF Recommended attribute Base-Offset-Time is present ☐ attribute-id = MDC\_ATTR\_TIME\_STAMP\_BO ■ attribute-type = BaseOffsetTime □ attribute-value.length = 8 bytes m. IF Optional attribute Relative-Time-Stamp is present

		□ attribute-id = MDC_ATTR_TIME_STAMP_REL
		□ attribute-type = RelativeTime (INT-U32)
		☐ attribute-value.length = 4 bytes
	n.	IF Optional attribute HiRes-Time-Stamp is present
		□ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
		□ attribute-type = HighResRelativeTime
		□ attribute-value.length = OCTET STRING (SIZE(8))
	0.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store then mandatory attribute Enum-Observed-Value-Simple-OID
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIMP_OID
		□ attribute-type = OID-Type(INT-U16)
		☐ attribute-value.length = 2 bytes
		☐ attribute.value= One of the following nomenclature value will be used:
		<ul><li>MDC_CTXT_GLU_MEAL_PREPRANDIAL (0x72 0x4C)</li></ul>
		<ul><li>MDC_CTXT_GLU_MEAL_POSTPRANDIAL (0x72 0x50)</li></ul>
		<ul><li>MDC_CTXT_GLU_MEAL_FASTING (0x72 0x54)</li></ul>
		<ul><li>MDC_CTXT_GLU_MEAL_BEDTIME (0x72 0x74)</li></ul>
		<ul><li>MDC_CTXT_GLU_MEAL_CASUAL (0x72 0x58)</li></ul>
	p.	IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR
		□ attribute-type = BITS-32
		☐ attribute-value.length = 4 bytes
	q.	IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR
		□ attribute-type = BITS-16
		☐ attribute-value.length = 2 bytes
	r.	IF Optional attribute Enum-Observed-Value-Simple-Str is present
		☐ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_STR
		□ attribute-type = EnumPrintableString
		☐ attribute-value.length= <variable></variable>
	S.	IF Optional attribute Enum-Observed-Value is present
		☐ attribute-id= MDC_ATTR_VAL_ENUM_OBS
		☐ attribute-type = EnumObsValue
		☐ attribute-value.length = <variable></variable>
	t.	IF Optional attribute Enum-Observed-Value-Partition is present
		☐ attribute-id= MDC_ATTR_VAL_ENUM_OBS_VAL_PART
		□ attribute-type = NomPartition (INT-U16)
		☐ attribute-value.length = 2 bytes
Pass/Fail criteria	All chec	ked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-013						
TP label		Context Sample Location Enumeration Object - Extended Configuration						
Coverage	Spec	[ISO/IEEE 11073-10417]						
	Testable	Enum	Obj 3; R	En	umObj 4; M	EnumObj 5 R		
	items	Enum	Obj 6; R	En	umObj 7; R	EnumObj 8; R		
		Enum	Obj 9; R	En	umObj 2; M	EnumObj 12; R		
		Enum	Obj 16; O	En	umObj 17; O	EnumObj 20; O		
		Enum	Obj 21; O	En	umObj 22; O	EnumObj 23; O		
		Enum	Obj 24; O	Со	ntxtSamLoc 1; M	ContxtSamLoc 2; C		
		Contxt	tSamLoc 3; M	Со	ntxtSamLoc 4; R			
Test purpose	)	Check	that:					
			xt Sample Locati guration.	on Enumer	ation Object contail	ns the attributes specified for Extende		
Applicability		C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181 AND C_						
Other PICSs		C_AG	_OXP_041, C_A	G_OXP_18	3, C_AG_OXP_189	)		
Initial condit	ion	The simulated PHG and the PHD under test are in the Unassociated state.						
Test procedu	ıre	The simulated PHG receives an association request from the PHD under test.						
		2. TI	he simulated PH	G responds	with a result = acce	epted-unknown-config.		
						oke   Confirmed Event Report" messa onfiguration to the PHG.		
		4. C	heck that the field	d Dev-Confi	g-Id is in the extend	led range, if it is not, the simulated PF		
			•		•	vait for a new configuration. nfiguration, check that all Context Me		
			numeration Obje					
		a.	,					
					ATTR_ID_TYPE =			
			□ attribute-		- C_PART_PHD_DM :AMPLELOCATION			
		b.	_		ibute Supplemental	,		
					ATTR_SUPPLEMEN			
					lementalTypeList	····=_···· <b>=</b> 5		
						ence of TYPE (TYPE.length= 4 bytes		
		c.		_		, ,		
			_		ATTR_METRIC_SPI	EC_SMALL		
			□ attribute-t	ype = Metri	cSpecSmall (BITS-	16)		
				/alue.length				
			□ attribute-	/alue ≠ 0x0	0 0x00			
			∙ Bit 0 mu	ıst be set (n	nss-avail-intermitter	nt(0))		
			∙ Bit 1 mu	ıst be set (n	nss-avail-stored-dat	a(1))		

• Bit 2 must be set (mss-upd-aperiodic(2)) • Bit 3 must be set (mss-msmt-aperiodic(3)) • Bit 9 must be set (mss-acc-agent-initiated(9)) • Bit 12 may be set (mss-cat-manual(12)) d. IF Not recommended attribute Metric-Structure-Small is present attribute-id = MDC\_ATTR\_METRIC\_STRUCTURE\_SMALL attribute-type = MetricStructureSmall attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8))) IF Not recommended attribute Measurement-Status is present ☐ attribute-id = MDC\_ATTR\_MSMT\_STAT ☐ attribute-type = MeasurementStatus (BITS-16) ☐ attribute-value.length = 2 bytes IF Not recommended attribute Metric-Id is present ☐ attribute-id = MDC\_ATTR\_ID\_PHYSIO □ attribute-type = OID-Type (INT-U16) ☐ attribute-value.length = 2 bytes attribute-value = Only one attribute of Metric-Id and Metric-Id-List shall be present. IF Not recommended attribute Metric-Id-List is present ☐ attribute-id = MDC\_ATTR\_ID\_PHYSIO\_LIS ■ attribute-type = MetricIdList □ attribute-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16)) IF Not recommended attribute Metric-Id-Partition is present ☐ attribute-id = MDC\_ATTR\_METRIC\_ID\_PART □ attribute-type = NomPartition (INT-U16) ☐ attribute-value.length = 2 bytes IF Not recommended attribute Unit-Code is present ☐ attribute-id = MDC\_ATTR\_UNIT\_CODE attribute-type = OID-Type(INT-U16) ☐ attribute-value.length = 2 bytes IF Not recommended attribute Source-Handle-Reference is present ☐ attribute-id = MDC\_ATTR\_SOURCE\_HANDLE\_REF □ attribute-type = HANDLE (INT-U16) ☐ attribute-value.length = 2 bytes IF Recommended attribute Base-Offset-Time is present ☐ attribute-id = MDC\_ATTR\_TIME\_STAMP\_BO ■ attribute-type = BaseOffsetTime ☐ attribute-value.length = 8 bytes IF Optional attribute Relative-Time-Stamp is present ☐ attribute-id = MDC\_ATTR\_TIME\_STAMP\_REL □ attribute-type = RelativeTime (INT-U32) ☐ attribute-value.length = 4 bytes IF Optional attribute HiRes-Time-Stamp is present

		□ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
		□ attribute-type = HighResRelativeTime
		□ attribute-value.length = OCTET STRING (SIZE(8))
	n.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store then mandatory attribute Enum-Observed-Value-Simple-OID
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_OID
		□ attribute-type = OID-Type(INT-U16)
		☐ attribute-value.length = 2 bytes
		☐ attribute.value= One of the following nomenclature value will be used:
		<ul><li>MDC_CTXT_GLU_SAMPLE_LOCATION_FINGER (0x72 0x38)</li></ul>
		<ul><li>MDC_CTXT_GLU_SAMPLE_LOCATION_AST (0x72 0x3C)</li></ul>
		<ul><li>MDC_CTXT_GLU_SAMPLE_LOCATION_EARLOBE (0x72 0x40)</li></ul>
		<ul><li>MDC_CTXT_GLU_SAMPLE_LOCATION_CTRLSOLUTION (0x72 0x44)</li></ul>
		<ul><li>MDC_CTXT_GLU_SAMPLE_LOCATION_OTHER (0x72 0x36)</li></ul>
		<ul><li>MDC_CTXT_GLU_SAMPLE_LOCATION_UNDETERMINED (0x72 0x35)</li></ul>
	0.	IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR
		□ attribute-type = BITS-32
		☐ attribute-value.length = 4 bytes
	p.	IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR
		□ attribute-type = BITS-16
		☐ attribute-value.length = 2 bytes
	q.	IF Optional attribute Enum-Observed-Value-Simple-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_STR
		□ attribute-type = EnumPrintableString
		☐ attribute-value.length= <variable></variable>
	r.	IF Optional attribute Enum-Observed-Value is present
		□ attribute-id= MDC_ATTR_VAL_ENUM_OBS
		□ attribute-type = EnumObsValue
		☐ attribute-value.length = <variable></variable>
	S.	IF Optional attribute Enum-Observed-Value-Partition is present
		□ attribute-id= MDC_ATTR_VAL_ENUM_OBS_VAL_PART
		□ attribute-type = NomPartition (INT-U16)
		☐ attribute-value.length = 2 bytes
Pass/Fail criteria	All chec	ked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/PHD/CLASS/GL/BV-014
TP label		Context Tester Enumeration Object - Extended Configuration
Coverage	Spec	[ISO/IEEE 11073-10417]

	stable	Enu	ımO	bj 3; F	२	EnumObj 4	4; M	EnumObj 5 R
iten	ns	Enu	ımO	bj 6; F	₹	EnumObj	7; R	EnumObj 8; R
		Enu	ımO	bj 9; F	₹	EnumObj 2	2; M	EnumObj 12; R
		Enu	ımO	bj 16;	0	EnumObj	17; O	EnumObj 20; O
		EnumObj 21			0	EnumObj :	22; O	EnumObj 23; O
		Enu	ımO	bj 24;	0	ContextTe	ster 1; M	ContextTester 2; C
		Cor	ntext	Teste	er 3; M	ContextTe	ster 4: R	
Test purpose			eck t		,		<u> </u>	
root parpood		Cor	ntext			bject conta	ins the attributes spe	ecified for Extended
Applicability		C_ <i>F</i>	4G_0	OXP_	000 AND C_AG_	OXP_178 <i>F</i>	AND C_AG_OXP_18	31 AND C_AG_GL_010
Other PICSs		C_ <i>F</i>	4G_0	OXP_	041, C_AG_OXP	_183, C_A	G_OXP_189	
Initial condition		The simulated F			d PHG and the Ph	HD under te	est are in the Unasso	ociated state.
Test procedure		1. The simu			ulated PHG receiv	es an asso	ciation request from	the PHD under test.
		2.	The	e simu	ulated PHG respo	nds with a r	esult = accepted-un	known-config.
		3.					peration Invoke   Cor p send its configurat	nfirmed Event Report" message ion to the PHG.
		4.	Che	eck th	at the field Dev-C	onfig-Id is i	n the extended range	e, if it is not, the simulated PHG
		5.				• •	onfig" and wait for a	new configuration. on, check that all Context Meal
		0.			ation Objects have		Aleriaea coringaran	on, oncor that all context wear
			a.	Man	datory attribute T	ype		
					attribute-id = MD		D_TYPE	
					attribute-type = T	YPE		
					attribute-value MDC_CTXT_GLU	= J_TESTER	MDC_PART_PHD (0x72 0x5C)	_DM (0x00 0x80),
			b.	IF N	ot recommended	attribute Su	ipplemental-Types is	s present
					attribute-id = MD	C_ATTR_S	UPPLEMENTAL_T	/PES
					attribute-type = S	upplementa	alTypeList	
					attribute-value.le	ngth = <vari< th=""><th>able&gt; (Sequence of</th><th>TYPE (TYPE.length= 4 bytes))</th></vari<>	able> (Sequence of	TYPE (TYPE.length= 4 bytes))
			c.	Man	datory attribute M	etric-Spec-	Small	
					attribute-id = MD	C_ATTR_M	IETRIC_SPEC_SMA	ALL
					attribute-type = M	letricSpecS	small (BITS-16)	
					attribute-value.lei	ngth =2 byte	es	
					attribute-value ≠	0x00		
					Bit 0 must be see	et (mss-ava	il-intermittent(0))	
					Bit 1 must be see	et (mss-ava	il-stored-data(1))	
					Bit 2 must be set	et (mss-upd	-aperiodic(2))	
					• Bit 3 must be se	et (mss-msr	nt-aperiodic(3))	
					Bit 9 must be set	et (mss-acc	-agent-initiated(9))	
					Bit 12 may be s	et (mss-cat	-manual(12))	

d.	IF Not recommended attribute Metric-Structure-Small is present
	□ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL
	□ attribute-type = MetricStructureSmall
	□ attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8)) + ms-comp-no =1byte(INT-U8)))</variable>
e.	IF Not recommended attribute Measurement-Status is present
	☐ attribute-id = MDC_ATTR_MSMT_STAT
	□ attribute-type = MeasurementStatus (BITS-16)
	☐ attribute-value.length = 2 bytes
f.	IF Not recommended attribute Metric-Id is present
	□ attribute-id = MDC_ATTR_ID_PHYSIO
	□ attribute-type = OID-Type (INT-U16)
	☐ attribute-value.length = 2 bytes
	☐ attribute-value = Only one attribute of Metric-Id and Metric-Id-List shall be present.
g.	IF Not recommended attribute Metric-Id-List is present
	☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
	□ attribute-type = MetricIdList
	□ attribute-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16))</variable>
h.	IF Not recommended attribute Metric-Id-Partition is present
	☐ attribute-id = MDC_ATTR_METRIC_ID_PART
	□ attribute-type = NomPartition (INT-U16)
	☐ attribute-value.length = 2 bytes
i.	IF Not recommended attribute Unit-Code is present
	☐ attribute-id = MDC_ATTR_UNIT_CODE
	☐ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length = 2 bytes
j.	IF Not recommended attribute Source-Handle-Reference is present
	☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
	☐ attribute-type = HANDLE (INT-U16)
	☐ attribute-value.length = 2 bytes
k.	IF Recommended attribute Base-Offset-Time is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_BO
	☐ attribute-type = BaseOffsetTime
	☐ attribute-value.length = 8 bytes
I.	IF Optional attribute Relative-Time-Stamp is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_REL
	□ attribute-type = RelativeTime (INT-U32)
	☐ attribute-value.length = 4 bytes
m.	IF Optional attribute HiRes-Time-Stamp is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
	☐ attribute-type = HighResRelativeTime
	□ attribute-value.length = OCTET STRING (SIZE(8))
n.	IF the PHD supports fixed or variable format MDS event report and it does not support

<ul> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_OID</li> <li>attribute-type = OID-Type(INT-U16)</li> <li>attribute-value.length = 2 bytes</li> <li>attribute.value= One of the following nomenclature value will be used:         <ul> <li>MDC_CTXT_GLU_TESTER_SELF (0x72 0x60) OR</li> <li>MDC_CTXT_GLU_TESTER_HCP (0x72 0x64) OR</li> <li>MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)</li> </ul> </li> <li>IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>attribute-type = BITS-32</li> <li>attribute-value.length = 4 bytes</li> <li>IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_STR</li> </ul>	
<ul> <li>□ attribute-value.length = 2 bytes</li> <li>□ attribute.value= One of the following nomenclature value will be used:         <ul> <li>MDC_CTXT_GLU_TESTER_SELF (0x72 0x60) OR</li> <li>MDC_CTXT_GLU_TESTER_HCP (0x72 0x64) OR</li> <li>MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)</li> </ul> </li> <li>O. IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>□ attribute-type = BITS-32</li> <li>□ attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>□ attribute-type = BITS-16</li> <li>□ attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>□ attribute.value= One of the following nomenclature value will be used:         <ul> <li>MDC_CTXT_GLU_TESTER_SELF (0x72 0x60) OR</li> <li>MDC_CTXT_GLU_TESTER_HCP (0x72 0x64) OR</li> <li>MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)</li> </ul> </li> <li>o. IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>□ attribute-type = BITS-32</li> <li>□ attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>□ attribute-type = BITS-16</li> <li>□ attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>MDC_CTXT_GLU_TESTER_SELF (0x72 0x60) OR</li> <li>MDC_CTXT_GLU_TESTER_HCP (0x72 0x64) OR</li> <li>MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)</li> <li>O. IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>attribute-type = BITS-32</li> <li>attribute-value.length = 4 bytes</li> <li>IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>MDC_CTXT_GLU_TESTER_HCP (0x72 0x64) OR</li> <li>MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)</li> <li>O. IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>attribute-type = BITS-32</li> <li>attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)</li> <li>o. IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>attribute-type = BITS-32</li> <li>attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>o. IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>attribute-type = BITS-32</li> <li>attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR</li> <li>attribute-type = BITS-32</li> <li>attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>□ attribute-type = BITS-32</li> <li>□ attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>□ attribute-type = BITS-16</li> <li>□ attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>□ attribute-value.length = 4 bytes</li> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>□ attribute-type = BITS-16</li> <li>□ attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>p. IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present</li> <li>attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>attribute-type = BITS-16</li> <li>attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR</li> <li>□ attribute-type = BITS-16</li> <li>□ attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
<ul> <li>□ attribute-type = BITS-16</li> <li>□ attribute-value.length = 2 bytes</li> <li>q. IF Optional attribute Enum-Observed-Value-Simple-Str is present</li> </ul>	
□ attribute-value.length = 2 bytes  q. IF Optional attribute Enum-Observed-Value-Simple-Str is present	
q. IF Optional attribute Enum-Observed-Value-Simple-Str is present	
□ attribute-id= MDC ATTR ENUM OBS VAL SIM STR	
□ attribute-type = EnumPrintableString	
□ attribute-value.length= <variable></variable>	
r. IF Optional attribute Enum-Observed-Value is present	
□ attribute-id= MDC_ATTR_VAL_ENUM_OBS	
□ attribute-type = EnumObsValue	
☐ attribute-value.length = <variable></variable>	
s. IF Optional attribute Enum-Observed-Value-Partition is present	
□ attribute-id= MDC_ATTR_VAL_ENUM_OBS_VAL_PART	
□ attribute-type = NomPartition (INT-U16)	
□ attribute-value.length = 2 bytes	
Pass/Fail criteria All checked values are as specified in the test procedure.	
Notes	

ΓP ld		TP/PLT/PHD/CLASS/GL/BV-015						
TP label		Context Health Enumeration Object - Extended Configuration						
Coverage	Spec	[ISO/IEEE 11073-10417]						
	Testable items	EnumObj 3; R	EnumObj 4; M	EnumObj 5 R				
	items	EnumObj 6; R	EnumObj 7; R	EnumObj 8; R				
		EnumObj 9; R	EnumObj 2; M	EnumObj 12; R				
		EnumObj 16; O	EnumObj 17; O	EnumObj 20; O				
		EnumObj 21; O	EnumObj 22; O	EnumObj 23; O				

	EnumO	bj 24; O	ContextHealth 1; M	ContextHealth 2; C			
	Context	Health 3; M	ContextHealth 4; R				
Test purpose	Context	Check that:  Context Health Enumeration Object contains the attributes specified for Extended Configuration.					
Applicability	C_AG_	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181 AND C_AG_GL_011					
Other PICSs	C_AG_	OXP_041, C_AG_	_OXP_183, C_AG_OXP_189				
Initial condition	The sim	nulated PHG and t	the PHD under test are in the U	Unassociated state.			
Test procedure	1. The	e simulated PHG	receives an association reques	st from the PHD under test.			
	2. The	e simulated PHG	responds with a result = accep	oted-unknown-config.			
			vith a "Remote Operation Invok CONFIG event to send its con	ce   Confirmed Event Report" message ifiguration to the PHG.			
			Dev-Config-Id is in the extenden "unsupported-config" and wa	d range, if it is not, the simulated PHG ait for a new configuration.			
		ce the PHD unde umeration Objects		figuration, check that all Context Meal			
	a.	Mandatory attrib	oute Type				
		□ attribute-id	= MDC_ATTR_ID_TYPE				
		□ attribute-typ	e = TYPE				
		□ attribute-val	lue = MDC_PAR7 Γ_GLU_HEALTH (0x72 0x5C)	T_PHD_DM (0x00 0x80),			
	b.	IF Not recomme	nded attribute Supplemental-T	Types is present			
		□ attribute-id	= MDC_ATTR_SUPPLEMENT	TAL_TYPES			
		□ attribute-typ	e = SupplementalTypeList				
		□ attribute-val	lue.length = <variable> (Seque</variable>	nce of TYPE (TYPE.length= 4 bytes))			
	C.	Mandatory attrib	ute Metric-Spec-Small				
		□ attribute-id	= MDC_ATTR_METRIC_SPE	C_SMALL			
		□ attribute-typ	e = MetricSpecSmall (BITS-16	6)			
		□ attribute-val	lue.length =2 bytes				
		□ attribute-val	lue ≠ 0x00 0x00				
		Bit 0 must	be set (mss-avail-intermittent)	(0))			
		<ul><li>Bit 1 must</li></ul>	be set (mss-avail-stored-data	(1))			
		• Bit 2 must	be set (mss-upd-aperiodic(2))				
		Bit 3 must	be set (mss-msmt-aperiodic(3	3))			
		Bit 9 must	be set (mss-acc-agent-initiate	ed(9))			
		■ Bit 12 may	be set (mss-cat-manual(12))				
	d.	IF Not recomme	nded attribute Metric-Structure	e-Small is present			
		□ attribute-id	= MDC_ATTR_METRIC_STRI	UCTURE_SMALL			
		□ attribute-typ	e = MetricStructureSmall				
		□ attribute-val		ence of (ms-struct.length =1byte(INT-			
	e.	·	nded attribute Measurement-S	Status is present			
			= MDC_ATTR_MSMT_STAT	·			
			pe = MeasurementStatus (BITS	S-16)			

	□ attribute-value.length = 2 bytes
f.	IF Not recommended attribute Metric-Id is present
	□ attribute-id = MDC_ATTR_ID_PHYSIO
	□ attribute-type = OID-Type (INT-U16)
	☐ attribute-value.length = 2 bytes
	□ attribute-value = Only one attribute of Metric-Id and Metric-Id-List shall be present.
g.	IF Not recommended attribute Metric-Id-List is present
	☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
	□ attribute-type = MetricIdList
	□ attribute-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16))</variable>
h.	IF Not recommended attribute Metric-Id-Partition is present
	□ attribute-id = MDC_ATTR_METRIC_ID_PART
	□ attribute-type = NomPartition (INT-U16)
	☐ attribute-value.length = 2 bytes
i.	IF Not recommended attribute Unit-Code is present
	□ attribute-id = MDC_ATTR_UNIT_CODE
	□ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length = 2 bytes
j.	IF Not recommended attribute Source-Handle-Reference is present
	□ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
	□ attribute-type = HANDLE (INT-U16)
	☐ attribute-value.length = 2 bytes
k.	IF Recommended attribute Base-Offset-Time is present
	□ attribute-id = MDC_ATTR_TIME_STAMP_BO
	□ attribute-type = BaseOffsetTime
	☐ attribute-type.length = 8 bytes
l.	IF Optional attribute Relative-Time-Stamp is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_REL
	□ attribute-type = RelativeTime (INT-U32)
	☐ attribute-value.length = 4 bytes
m.	IF Optional attribute HiRes-Time-Stamp is present
	☐ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
	□ attribute-type = HighResRelativeTime
	□ attribute-value.length = OCTET STRING (SIZE(8))
n.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store then mandatory attribute Enum-Observed-Value-Simple-OID
	□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_OID
	□ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length = 2 bytes
	□ attribute.value= One of the following nomenclature value will be used:
	• MDC_CTXT_GLU_HEALTH_MINOR (0x72 0x20) OR
	• MDC_CTXT_GLU_HEALTH_MAJOR (0x72 0x24) OR
	MDC_CTXT_GLU_HEALTH_MENSES (0x72 0x28) OR

		• MDC_CTXT_GLU_HEALTH_STRESS (0x72 0x2C) OR
		<ul><li>MDC_CTXT_GLU_HEALTH_NONE (0x72 0x30)</li></ul>
	0.	IF Optional attribute Enum-Observed-Value-Simple-Bit-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_BIT_STR
		□ attribute-type = BITS-32
		☐ attribute-value.length = 4 bytes
	p.	IF Optional attribute Enum-Observed-Value-Basic-Bit-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR
		□ attribute-type = BITS-16
		□ attribute-value.length = 2 bytes
	q.	IF Optional attribute Enum-Observed-Value-Simple-Str is present
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_STR
		□ attribute-type = EnumPrintableString
		☐ attribute-value.length= <variable></variable>
	r.	IF Optional attribute Enum-Observed-Value is present
		□ attribute-id= MDC_ATTR_VAL_ENUM_OBS
		□ attribute-type = EnumObsValue
		☐ attribute-value.length = <variable></variable>
	s.	IF Optional attribute Enum-Observed-Value-Partition is present
		□ attribute-id= MDC_ATTR_VAL_ENUM_OBS_VAL_PART
		□ attribute-type = NomPartition (INT-U16)
		☐ attribute-value.length = 2 bytes
Pass/Fail criteria	All chec	cked values are as specified in the test procedure.
Notes		

TP Id		TP/PLT/PHD/CLASS/GL/BV-016			
TP label		PM-Store Attributes for Extended Configuration			
Coverage	Spec	[ISO/IEEE 11073-10417]			
	Testable	PMStrObjAtt 1; M	PMStrObjAtt 5; M	PMStrObjAtt 6; M	
	items	PMStrObjAtt 8; M	PMStrObjAtt 9; R	PMStrObjAtt 12; M	
Test purpos	е	Check that:			
		PM-Store Object contains the attributes specified for Extended Configuration.			
Applicability	,	C_AG_OXP_000 AND C_AC	S_OXP_178 AND C_AG_OXP_	041 AND C_AG_OXP_181	
Other PICS	her PICSs				
Initial condi	tion	The simulated PHG and the PHD under test are in the Unassociated state.			
Test procedure		The simulated PHG receives an association request from the PHD under test.			
		2. The simulated PHG responds with a result = accepted-unknown-config.			
		3. The PHD responds with a "Remote Operation Invoke   Confirmed Event Report" message			

		with	n an	MDC_NOTI_CONFIG event to send its configuration to the PHG.
	4.	The	e har	ndle for the PM-Store attribute must be:
		a.	Mai	ndatory attribute Handle
				attribute-type = HANDLE
				attribute-value.length = 2 bytes
				attribute-value = must be unique and non-zero. Actual value may be specified by the device specialization.
	5.	The list	e sim set t	sulated PHG shall send a Get request for the PM-Store object with an attribute-id- o 0 to indicate all PM-Store attributes.
	6.	The	e PH	D issues a GET response with the PM-Store attributes it supports:
		a.	Mai	ndatory Store-Capacity-Count
				attribute-id = MDC_ATTR_METRIC_STORE_CAPAC_CNT
				attribute-type = INT-U32
				attribute-value.length = 4 bytes
				attribute-value = See relation with next attribute
		b.	Mai	ndatory attribute Store-Usage-Count
				attribute-id = MDC_ATTR_METRIC_STORE_USAGE_CNT
				attribute-type = INT-U32
				attribute-value.length = 4 bytes
				attribute-value = consistent with actual number of segments present and always ≤ than Storage-Capacity-Count
		C.	Mai	ndatory attribute PM-Store-Label
				attribute-id = MDC_ATTR_PM_STORE_LABEL_STRING
				attribute-type = OCTET STRING
				attribute-value.length = <variable></variable>
				attribute-value = Printable ASCII
		d.	IF N	Not Recommended attribute Sample-Period is present
				attribute-id = MDC_ATTR_TIME_PD_SAMP
				attribute-type = RelativeTime
				attribute-value.length = 4 bytes
				attribute-value = <not in="" relevant="" test="" this=""></not>
Pass/Fail criteria	All	chec	ked	values are as specified in the test procedure.
Notes				

TP Id		TP/PLT/PHD/CLASS/GL/BV-017					
TP label		PM Segment Object for Extended Configuration					
Coverage	Spec	[ISO/IEEE 11073-10417]					
Testable items		PMStoreObj 8; M	PMStoreObj 9; O	PMStoreObj 10; M			
		PMStoreObj 11; O	PMSegObj 6; M	PMSegObj 10; M			
		PMSegObj 14; R	PMSegObj 15; R				
Test purpose		Check that:					
		PM-Segment contains the attributes specified for Extended Configuration.					

Applicability	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_041 AND C_AG_OXP_181
Other PICSs	
Initial condition	The simulated PHG and the PHD under test are in the Operating state.
Test procedure	The simulated PHG shall send a Get request for the PM-Store object with an attribute-id list set to 0 to indicate all PM-Store attributes.
	2. The simulated PHG shall send a Get-Segment-Info object action for the PM-Segment object with SegmSelection = all-segments to indicate the PM-Segments attributes of all available PM-Segments.
	3. The PHD issues a response with the PM-Segment attributes it supports:
	a. Mandatory attribute Segment-Label
	☐ attribute-id = MDC_ATTR_PM_SEG_LABEL_STRING
	☐ attribute-type = OCTET STRING
	☐ attribute-value.length = consistent with value
	☐ attribute-value = <printable ascii=""></printable>
	b. Recommended attribute Segment-Start-BO-Time
	☐ attribute-id = MDC_ATTR_TIME_START_SEG_BO
	☐ attribute-type = BaseOffsetTime
	□ attribute-value.length = 8 bytes
	c. Recommended attribute Segment-End-BO-Time
	☐ attribute-id = MDC_ATTR_TIME_END_SEG_BO
	☐ attribute-type = BaseOffsetTime
	□ attribute-value.length = 8 bytes
	d. Mandatory attribute Segment-Usage-Count
	☐ attribute-id = MDC_ATTR_SEG_USAGE_CNT
	☐ attribute-type = INT-U32
	□ attribute-value.length = 4 bytes
	□ attribute-value = <not in="" relevant="" test="" this=""></not>
	e. Mandatory attribute PM-Segment-Entry-Map
	□ SegmentEntryHeader.value = One of the next must be set:
	• seg-elem-hdr-absolute-time(0)
	• seg-elem-hdr-relative-time(1)
	• seg-elem-hdr-hires-relative-time(2)
	<ul> <li>seg-elem-hdr-bo-time (3)</li> <li>SegmEntryElem: &lt; Record the fields for later comparison&gt;</li> </ul>
Dana/Fail autoria	4. Repeat step 3 and 4 for every Segment.
Pass/Fail criteria	All checked values are as specified in the test procedure
	Every segm-entry-header must contain one of the time formats
	<ul> <li>At least one PM-Segment must reference the Common Glucose in its PM-Segm-Entry Map</li> </ul>
	If there are more than one PM-Segment, the rest of them must reference one of the objects defined in the spec in its PM-Segm-Entry-Map
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-017_A				
TP label	PM-Segment Object for Extended Configuration.MDS Event Reports					
Coverage	Spec	[ISO/IEEE 11073-10417	7]			
	Testable Items	PMStoreObj 5; M	PMStoreObj 6; M	PMStoreObj 7; M		
Test purpos	s <b>e</b>	Check that: Any configuration with a	a PM Store for persistent storag	ge shall disable PHD-initiated		
			e access to PM-Store transmiss			
Applicability	y	C_AG_OXP_000 AND	C_AG_OXP_178 AND C_AG_0	OXP_041 AND C_AG_OXP_181		
Other PICS	<b>S</b>					
Initial condi	tion	The simulated PHG and	the PHD under test are in the	Operating state.		
Test proced	ure	The simulated PHG shall send a Get request for the PM-Store object with an attribute-id-list set to 0 to indicate all PM-Store attributes.				
		2. The simulated PHG shall send a Get-Segment-Info object action for the PM-Segment object with SegmSelection = all-segments to indicate the PM-Segments attributes of all available PM-Segments.				
		3. The simulated PHG asks for a measurement.				
Pass/Fail cr	iteria	In step 4, the PHD shall not send the data with MDS event reports.				
Notes						

TP ld		TP/PLT/PHD/CLASS/GL/BV-018				
TP label		Communication Model: Association Procedure				
Coverage	Spec	[ISO/IEEE 11073-10417]				
	Testable	AgProcAs 1; M	AgProcAs 2; M	AgProcAs 4; M		
	items	AgProcAs 5; M	AgProcAs 6; M	AgProcAs 7; M		
		AgProcAs 8; M	AgProcAs 9; M	AgProcAs 10; M		
		AgProcAs 11; M	AgProcAs 12; M	MDSMethods 3;M		
		AgProcAs 13; M				
Test purpose		Check that: The association procedure data exchange is correct				
Applicability C_AG_OXP_000 AND		C_AG_OXP_000 AND C	ID C_AG_OXP_178			
Other PICSs		C_AG_OXP_002, C_AG_	_OXP_017			
Initial condition The simulated PHG and the PHD under test are in the Unassociated state.				Jnassociated state.		
Test procedure		The PHD sends a message to associate to the simulated PHG, the expected fields sent by the PHD are:				
		a. APDU Type				
	☐ field- type = AarqApdu					

	☐ f	rield-length =2 bytes
	☐ f	ield-value =0xE2 0x00.
b.	asso	c-version
	☐ f	ield- type = AssociationVersion
	☐ f	ield-length =BITS-32
	☐ f	ield- value=0x80 0x00 0x00 0x00
c.	data-	proto-id
	☐ f	ield- type = DataProtold(INT-U16)
	☐ f	ield-length =2 bytes
	☐ f	ield- value=0x50 0x79 (20601)
d.	proto	col-version
	☐ f	ield- type = Protocol Version
	☐ f	ield-length = 4 bytes
	☐ f	ield- value=0x40 0x00 0x00 0x00 or 0x20 0x00 0x00 0x00
e.	enco	ding rules
	☐ f	rield- type = EncodingRules
	☐ f	ield-length = 2 bytes
	☐ f	ield- value=
	•	Bit 0 must be set (support for MDER)
	•	Bits 1 (XER) and 2 (PER) may be set
	•	• All other bits must be 0.
f.	nome	enclature version
	☐ f	ield- type = NomenclatureVersion
	☐ f	ield-length = 4 bytes
	☐ f	ield- value=0x80 0x00 0x00 0x00
		This value indicates version1 is supported (nom-version1(0) is set).
g.	functi	ional – units
	☐ f	rield- type = FunctionalUnits
	☐ f	field-length = 4 bytes
	•	Bit 0 must be 0.
	•	Bits 1 and 2 may be set
	•	The rest of the bits must not be set
h.	Syste	em type
	☐ f	ield- type = SystemType
	☐ f	ield-length = 4 bytes
	☐ f	ield- value = 0x00 0x80 0x00 0x00 (sys-type-agent)
i.	Syste	em-ld
	☐ f	field- type = OCTET STRING
	☐ f	ield-length = 8 bytes
		field- value = 0xXX 0xXX 0xXX 0xXX 0xXX 0xXX 0xXX 0x
		This value will be System Id attribute of MDS Object.
j.	dev-c	config-id
	☐ f	ield- type = Configld(INT-U16)

	☐ field-length = 2 bytes
	☐ field- value =
	<ul> <li>0x06 0xA5 OR 0x06 A6 for Standard Configuration.</li> </ul>
	<ul> <li><between 0x00="" 0x40="" 0x7f="" 0xff="" and=""> for Extended Configuration.</between></li> </ul>
k.	data-req-mode-flags (DataReqModeCapab)
	☐ field- type = DataReqModeFlags
	☐ field-length = 2 bytes
	<ul> <li>If the PHD supports agent-initiated measurement transfer → Bit 15 is set (data-req-supp-init-agent(15))</li> </ul>
	<ul> <li>If the PHD supports requesting objects based on the object handle → Bit 6 will be set (data-req-supp-scope-handle(6)).</li> </ul>
	<ul> <li>If the PHD supports single response → Bit 8 will be set (data-req-supp-mode-single-rsp(8)).</li> </ul>
	<ul> <li>If the PHD supports time unlimited data request →Bit 10 will be set (data-req-supp-mode-time-no-limit(10)).</li> </ul>
l.	data-req-init-agent-count (DataReqModeCapab)
	☐ field- type = INT-U8
	☐ field-length = 2 bytes
	☐ field.value = 0x01
m.	data-req-init-manager-count (DataReqModeCapab)
	☐ field- type = INT-U8
	☐ field-length = 2 bytes
	ifield.value = 0x00
All chec	ked values are as specified in the test procedure.
	l. m.

TP ld		TP/PLT/PHD/CLASS/GL/BV-019			
TP label		PM Segment Object for Extended Configuration			
Coverage	Spec	[ISO/IEEE 11073-10417]			
Testable items		PMStrObjMeth 1; M			
Test purpos	se	Check that:			
		Glucose Meter supports the Clear-Segments method with Confirmed mode			
Applicability	у	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_041 AND C_AG_OXP_071			
Other PICS:	Other PICSs				
Initial condition		The simulated PHG and the PHD under test are in the Operating state and the PHD has at least one PM-Segment with data stored.			
Test proced	lure	Take measurements with the PHD of a value that is stored on a PM-Segment.			
		2. The simulated PHG shall send a Get request for the PM-Store object with an attribute-id-list set to 0 to indicate all PM-Store attributes.			
		3. The PHD issues a GET response with the PM-Store attributes, record the values of the PMStoreCapab attribute.			

4.		simulated PHG shall send a Get-Segment-Info object action with segmSelection set
l l		segments to check that there are no Segments in use.
5.	The	simulated PHG sends a Clear-Segment to all segments:
	a.	Data APDU
		☐ Type = Invoke   Confirmed Action,
		☐ HANDLE = obj-handle
		Action = MDC_ACT_SEG_CLEAR
		☐ SegmSelection = all-segments
6.	The	PHD under test operation response:
	a.	Data APDU
		☐ Type = Response   Confirmed Action,
		☐ HANDLE = obj-handle
		Action = MDC_ACT_SEG_CLEAR
7.	Dela	<b>'</b>
8.		simulated PHG sends a request for the PM-Segment Data with SegmSelection = all- nents to obtain all the segments:
	a.	Data APDU
		☐ Type = Invoke   Confirmed Action,
		☐ HANDLE = obj-handle
		Action = MDC_ACT_SEG_TRIG_XFER
		SegmSelection = <instance action="" before="" clear-segment="" contained="" data="" number="" of="" pm-segment="" selected="" that="" the=""></instance>
9.	The	PHD issues an action response with the Data
	a.	Data APDU
		☐ Type = Response   Confirmed Action,
		☐ HANDLE = obj-handle
		☐ Action = MDC_ACT_SEG_TRIG_XFER
		☐ TrigSegmXferRsp =
		• IF pmsc-clear-segm-remove is NOT set THEN TrigSegmXferRsp = tsxr-fail-segm-empty
		<ul><li>ELSE TrigSegmXferRsp = tsxr-fail-no-such-segment</li></ul>
Pass/Fail criteria Al	l check	ed values are as specified in the test procedure.
Notes		

TP Id TP/PLT/PHD/CLASS/GL/BV-020						
TP label		Config Changes Service. Contextual Attribute.				
Coverage	Spec	[b-ITU-T H.810 (2015)]				
	Testable items	Communication 8; M				
Test purpos	se	Check that: Service component reports configuration changes to future measurements only				
Applicabilit	у	C_AG_OXP_000 AND C_AG_	OXP_178 AND C_AG_GL_022			

Other PICSs	
Initial condition	The simulated PHG and the PHD under test are in the Operating state.
Test procedure	Take some measurements with the PHD under test.
	2. Make a change to the contextual attribute Unit-Code for blood glucose.
	3. The PHD shall send an MDS event report indicating the new contextual attribute value.
	4. Take some more measurements.
	<ol><li>Wait for the PHG to receive new event reports from the PHD, which report the measurements from step 4.</li></ol>
Pass/Fail criteria	The PHD sends an MDS event report to inform on the contextual attribute that has been changed.
	Data has changed accordingly to the new contextual attribute.
Notes	

TP Id		TP/PLT/PHD/CLASS/GL/BV-021					
TP label		Operating State. PHG to PHD Maximum APDU Size					
Coverage	Spec	[ISO/IE	EEE 11073-20601-	2015A] and	ISO/IEEE 11	1073-20601	-2016C]
	Testable items	Comm	onCharac 3; M				
	Spec	[ISO/IE	EEE 11073-10417]				
	Testable items	ComC	har 2; M				
Test purpos	e	Check	that:				
		The total size of the response do not exceed of the maximum APDU size established by the specialization					
		[AND]					
		A glucose PHD implementing only this device specialization shall be capable of receiving any APDU up to the size of Nrx. For this standard, Nrx shall be 224 octets					
Applicability		C_AG_OXP_000 AND C_AG_OXP_178					
Other PICSs		C_AG_OXP_041, C_AG_OXP_100					
Initial condition		The simulated PHG and the PHD are in the Operating state.					
Test proced	ure	The simulated PHG issues a "Remote Operation Invoke   Get" command with:					
		a.	Obj-handle set to	o 0 (to reque	st for MDS o	object)	
		b.	attribute-id-list.co	ount = 103			
		C.		V_CONFIG			FR_SYS_ID, followed by an additional
		2. Cł	neck the response	of the PHD.			
							Get" command with the handle e-id-list to indicate all attributes.
		4. Cl	neck the response	of the PHD.			

Pass/Fail criteria	<ul> <li>In step 2, the PHD under test may respond with a rors-cmip-get listing all the requested attributes, or with a rore message. If PICS C_AG_OXP_100 =TRUE and the PHD does not respond with a rors-cmip-get message, it responds with a roer message or rorj(resource-limitation) message, a WARNING will appear.</li> </ul>
	<ul> <li>If the response is a get response, the total size of the response cannot exceed the sum of the APDU sizes of the supported specializations (limited to an absolute limit of 64512 octets):</li> </ul>
	<ul> <li>Pulse oximeter -&gt; 9216 octets</li> </ul>
	<ul> <li>Weighing scales -&gt; 896 octets</li> </ul>
	<ul> <li>Glucose meter -&gt; 5120 octets or 64512 octets if the PHD supports PM-Store</li> </ul>
	<ul> <li>Blood pressure -&gt; 896 octets</li> </ul>
	■ Thermometer -> 896 octets
	<ul> <li>Independent activity hub -&gt; 5120 octets</li> </ul>
	<ul> <li>Cardiovascular -&gt; 64512 octets or 6624 octets if the PHD under test only supports a Step Counter Profile</li> </ul>
	Strength -> 64512 octets:
	<ul> <li>Adherence monitor -&gt; 1024 octets</li> </ul>
	■ Peak flow -> 2030 octets
	<ul> <li>Body composition analyser -&gt; 7730 octets</li> </ul>
	<ul> <li>Basic ECG/Simple ECG -&gt; 7168 octets or 64512 octets if the PHD supports a PM-Store</li> </ul>
	<ul> <li>Basic ECG/Heart rate -&gt; 1280 octets or 64512 octets if the PHD supports a PM- Store</li> </ul>
	<ul> <li>International normalized ratio -&gt; 896 octets or 64512 if the PHD supports a PM- Store</li> </ul>
	<ul> <li>If it responds with a roer, the reason must not be a protocol-violation (23)</li> </ul>
	In step 4, the PHD must respond with a rors-cmip-get message.
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-022
		Blood Glucose measurement above the capabilities of the device sensor without Device and Sensor Status Annunciation object
Coverage	Spec	[ISO/IEEE 11073-10417]
	Testable items	BloodGL 29; M
Test purpo	ose	Check that:
		In Standard Configurations 1701 (0x06A5) or 1702 (0x06A6), or in an extended configuration that does not include the Device and Sensor Status Annunciation object, a Blood Glucose measurement that is above the capabilities of the device sensor shall be indicated with an observed value of +INFINITY
Applicability		C_AG_OXP_000 AND C_AG_OXP_178 AND ((NOT C_AG_OXP_181) OR ((C_AG_OXP_181) AND ((NOT(C_AG_GL_007))))
Other PICSs		
Initial condition		The simulated PHG and the PHD under test are in the Operating state.
Test procedure		Place a blood sample in the device sensor with a blood glucose level above the capabilities of the device sensor and acquire a measurement with the PHD under test.

		IF C_AG_OXP_041 = FALSE
	2.	The test tool simulated PHG waits to receive an event report from the PHD under test. The event report shall contain the following value:
		a. Data APDU
		event-type = MDC_NOTI_SCAN_REPORT_FIXED (0x0D 0x1D)
		□ obj-handle = 1 (Blood glucose)
		□ obs-val-data =
		<ul><li>Basic-Nu-Observed-Value = 0x07FE</li></ul>
		IF C_AG_OXP_041 = TRUE
	3.	The test tool simulated PHG issues a GET for the PM-Store object (or objects) and a Get-Segment-Info with SegmSelection set to all-segments. Then, the PHG sends a request to the PM-Segments that contains data. The PHD issues an action response and starts data transfer. An event report with the following values shall be present:
		a. Data APDU
		event-type = MDC_NOTI_SEGMENT_DATA (0x0D 0x21)
		□ obj-handle = 1 (Blood glucose)
		□ obs-val-data =
		■ Basic-Nu-Observed-Value = 0x07FE
Pass/Fail criteria	All	checked values are as specified in the test procedure.
Notes		e vendor must provide a blood sample (or a simulated blood solution) with a blood glucose el above the capabilities of device sensor.

TP Id		TP/PLT/PHD/CLASS/GL/BV-022_A			
TP label		Blood Glucose measurement above the capabilities of the device sensor with Device and Sensor Status Annunciation object			
Coverage	Spec	[ISO/IEEE 11073-10417]			
	Testable items	BloodGL 31; M			
Test purpos	ie .	Check that:			
		In extended configuration that includes the Device and Sensor Status Annunciation object, a Blood Glucose measurement that is above the capabilities of the device sensor shall be indicated either with an observed value of +INFINITY or by setting the appropriate flag in GlucoseDevStat			
Applicability	у	C_AG_OXP_000 AND C_AG_OXP_178 AND (C_AG_OXP_181) AND (C_AG_GL_007)			
Other PICSs C_AG_OXP_041		C_AG_OXP_041			
Initial condition		The simulated PHG and the PHD under test are in the Operating state.			
Test procedure		Place a blood sample in the device sensor with a blood glucose level above the capabilities of the device sensor and acquire a measurement with the PHD under test.			
		IIF C_AG_OXP_041 = FALSE			
		2. The test tool simulated PHG waits to receive an event report from the PHD under test. The event report shall contain the following values:			
		a. Data APDU			
		event-type = MDC_NOTI_SCAN_REPORT_FIXED (0x0D 0x1D)			
		with either			

	□ obj-handle = 1 (Blood glucose)
	□ obs-val-data =
	■ Basic-Nu-Observed-Value = 0x07FE
	OR
	□ obj-handle = X (Device and Sensor Annunciation)
	☐ obs-val-data =
	■ Enum-Observed-Value-Basic-Bit-Str = sensor-result-too-high (5)
	IF C_AG_OXP_041 = TRUE
	3. The test tool simulated PHG issues a GET for the PM-Store object (or objects) and a Get-Segment-Info with SegmSelection set to all-segments. Then, the PHG sends a request to the PM-Segments that contains data. The PHD issues an action response and starts data transfer. An event report with the following values shall be present:
	a. Data APDU
	event-type = MDC_NOTI_SEGMENT_DATA (0x0C 0x1C)
	with either
	□ obj-handle = 1 (Blood glucose)
	☐ obs-val-data =
	■ Basic-Nu-Observed-Value = 0x07FE
	OR
	□ obj-handle = X (Device and Sensor Annunciation)
	☐ obs-val-data =
	■ Enum-Observed-Value-Basic-Bit-Str = sensor-result-too-high (5)
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	The vendor must provide a blood sample (or a simulated blood solution) with a blood glucose level above the capabilities of device sensor.

TP Id		TP/PLT/PHD/CLASS/GL/BV-023		
TP label		Blood Glucose measurement below the capabilities of the device sensor without Device and Sensor Status Annunciation object		
Coverage	Spec	[ISO/IEEE 11073-10417]		
	Testable items	BloodGL 30; M		
Test purpose	е	Check that:		
		that does not include the Devi	ice and Sensor Status Annunc	or in an extended configuration iation object, a Blood Glucose nsor shall be indicated with an
Applicability		C_AG_OXP_000 AND C_AG_ ((C_AG_OXP_181) AND ((NO	OXP_178 AND ((NOT C_AG_C T(C_AG_GL_007))))	OXP_181) OR
Other PICSs				
Initial condition		The simulated PHG and the PH	HD under test are in the Operati	ng state.
Test procedure			ensor and acquire a measurem	lood glucose level below the ent with the PHD under test.

	2. The test tool simulated PHG waits to receive an event report from the PHD under test. The event report shall contain the following value:
	a. Data APDU
	event-type = MDC_NOTI_SCAN_REPORT_FIXED (0x0D 0x1D)
	□ obj-handle = 1 (Blood glucose)
	□ obs-val-data =
	■ Basic-Nu-Observed-Value = 0x0802
	IF C_AG_OXP_041 = TRUE
	3. The test tool simulated PHG issues a GET for the PM-Store object (or objects) and a Get-Segment-Info with SegmSelection set to all-segments. Then, the PHG sends a request to the PM-Segments that contains data. The PHD issues an action response and starts data transfer. A event report with the following values shall be present:
	a. Data APDU
	□ event-type = MDC_NOTI_SEGMENT_DATA (0x0D 0x21)
	□ obj-handle = 1 (Blood glucose)
	☐ obs-val-data =
	■ Basic-Nu-Observed-Value = 0x0802
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	The vendor must provide a blood sample (or a simulated blood solution) with a blood glucose level below the capabilities of device sensor.

TP Id		TP/PLT/PHD/CLASS/GL/BV-023_A			
TP label		Blood Glucose measurement below the capabilities of the device sensor with Device and Sensor Status Annunciation object			
Coverage	Spec	[ISO/IEEE 11073-10417]			
	Testable items	BloodGL 32; M			
Test purpose		Check that:  In extended configuration that includes the Device and Sensor Status Annunciation object, a Blood Glucose measurement that is below the capabilities of the device sensor shall be indicated either with an observed value of -INFINITY or by setting the appropriate flag in GlucoseDevStat			
Applicability	1	C_AG_OXP_000 AND C_AG_OXP_178 AND (C_AG_OXP_181) AND (C_AG_GL_007)			
Other PICSs					
Initial condition The simulated PHG and the PHD under test are in the Operating state.					
Test procedure		<ol> <li>Place a blood sample in the device sensor with a blood glucose level below the capabilities of the device sensor and acquire a measurement with the PHD under test.         IF C_AG_OXP_041 = FALSE     </li> <li>The test tool simulated PHG waits to receive an event report from the PHD under test. The event report shall contain the following value:</li> </ol>			
		<ul> <li>a. Data APDU</li> <li>event-type = MDC_NOTI_SCAN_REPORT_FIXED (0x0D 0x1D)</li> <li>with either</li> <li>obj-handle = 1 (Blood glucose)</li> </ul>			

	□ obs-val-data =
	■ Basic-Nu-Observed-Value = 0x0802
	OR
	□ obj-handle = X (Device and Sensor Annunciation)
	☐ obs-val-data =
	■ Enum- Observed-Value-Basic-Bit-Str = sensor-result-too-low (6)
	IF C_AG_OXP_041 = TRUE
	3. The test tool simulated PHG issues a GET for the PM-Store object (or objects) and a Get-Segment-Info with SegmSelection set to all-segments. Then, the PHG sends a request to the PM-Segments that contains data. The PHD issues an action response and starts data transfer. An event report with the following values shall be present:
	a. Data APDU
	<pre>event-type = MDC_ACT_SEG_TRIG_XFER (0x0C 0x1C)</pre>
	with either
	□ obj-handle = 1 (Blood glucose)
	□ obs-val-data =
	■ Basic-Nu-Observed-Value = 0x0802
	OR
	□ obj-handle = X (Device and Sensor Annunciation)
	□ obs-val-data =
	■ Enum-Observed-Value-Basic-Bit-Str = sensor-result-too-low (6)
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	The vendor must provide a blood sample (or a simulated blood solution) with a blood glucose level below the capabilities of device sensor.

TP ld		TP/PLT/PHD/CLASS/GL/BV-024		
TP label		Control Solution measurement above the capabilities of the device sensor without Device and Sensor Status Annunciation object		
Coverage	Spec	[ISO/IEEE 11073-10417]		
	Testable items	CtrlSol 15; M		
Test purpo	ose	Check that:		
		In Standard Configuration 1701 (0x06A5) or 1702 (0x06A6), or in an extended configuration that does not include the Device and Sensor Status Annunciation object, a Control Solution measurement that is above the capabilities of the device sensor shall be indicated with an observed value of +INFINITY		
Applicability		C_AG_OXP_000 AND C_AG_OXP_178 AND ((NOT C_AG_OXP_181) OR ((C_AG_OXP_181) AND ((NOT(C_AG_GL_007)))) C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_GL_024 AND (NOT_C_AG_OXP_181)		
Other PICS	Ss			
Initial condition		The simulated PHG and the PHD under test are in the Operating state.		
Test procedure		<ol> <li>Place a Control Solution sample in the device sensor with a blood glucose level above the capabilities of the device sensor and check it with the PHD under test.</li> <li>IF C_AG_OXP_041 = FALSE</li> </ol>		

	2. The test tool simulated PHG waits to receive an event report from the PHD under test. The event report shall contain the following value:
	a. Data APDU
	event-type = MDC_NOTI_SCAN_REPORT_FIXED (0x0D 0x1D)
	□ obj-handle = 2 (Control solution)
	☐ obs-val-data =
	Basic-Nu-Observed-Value = 0x07FE
	IF C_AG_OXP_041 = TRUE
	3. The test tool simulated PHG issues a GET for the PM-Store object (or objects) and a Get-Segment-Info with SegmSelection set to all-segments. Then, the PHG sends a request to the PM-Segments that contains data. The PHD issues an action response and starts data transfer. A event report with the following values shall be present:
	a. Data APDU
	event-type = MDC_NOTI_SEGMENT_DATA (0x0D 0x21)
	□ obj-handle = 2 (Control solution)
	☐ obs-val-data =
	Basic-Nu-Observed-Value = 0x07FE
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	The vendor must provide a Control Solution with a blood glucose level above the capabilities of the device sensor.

TP Id		TP/PLT/PHD/CLASS/GL/BV-025
TP label		Control Solution measurement below the capabilities of the device sensor without Device and Sensor Status Annunciation object
Coverage	Spec	[ISO/IEEE 11073-10417]
	Testable items	CtrlSol 15; M
Test purpo	ose	Check that:
		In Standard Configuration 1701 (0x06A5) or 1702 (0x06A6), or in an extended configuration that does not include the Device and Sensor Status Annunciation object,, a Control Solution measurement that is below the capabilities of the device sensor shall be indicated with an observed value of -INFINITY
Applicabil	ity	C_AG_OXP_000 AND C_AG_OXP_178 AND ((NOT C_AG_OXP_181) OR ((C_AG_OXP_181) AND ((NOT(C_AG_GL_007))))
Other PIC	Ss	
Initial con	dition	The simulated PHG and the PHD under test are in the Operating state.
Test proce	edure	Place a Control Solution sample in the device sensor with a blood glucose level above the capabilities of the device sensor and check it with the PHD under test.
		IF C_AG_OXP_041 = FALSE
		<ol><li>The test tool simulated PHG waits to receive an event report from the PHD under test. The event report shall contain the following value:</li></ol>
		a. Data APDU
		event-type = MDC_NOTI_SCAN_REPORT_FIXED (0x0D 0x1D)
		□ obj-handle = 2 (Control Solution)

	□ obs-val-data =
	<ul><li>Basic-Nu-Observed-Value = 0x0802</li></ul>
	IF C_AG_OXP_041 = TRUE
	3. The test tool simulated PHG issues a GET for the PM-Store object (or objects) and a Get-Segment-Info with SegmSelection set to all-segments. Then, the PHG sends a request to the PM-Segments that contains data. The PHD issues an action response and starts data transfer. A event report with the following values shall be present:
	a. Data APDU
	event-type = MDC_NOTI_SEGMENT_DATA (0x0D 0x21)
	□ obj-handle = 2 (Control solution)
	□ obs-val-data =
	Basic-Nu-Observed-Value = 0x0802
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	The vendor must provide a Control Solution with a blood glucose level below the capabilities of the device sensor.

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## SERIES OF ITU-T RECOMMENDATIONS

diaccounting principles and international telecommunication/ICT economic and ues etwork operation, telephone service, service operation and human factors whone telecommunication services sion systems and media, digital systems and networks ual and multimedia systems discrvices digital network works and transmission of television, sound programme and other multimedia in against interference ment and ICTs, climate change, e-waste, energy efficiency; construction, installation ction of cables and other elements of outside plant munication management, including TMN and network maintenance
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