ITU-T

H.845.2

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU (04/2017)

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 (TP) 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 (2016) 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), that 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 (PICS) 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

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.

^{*} 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, http://handle.itu.int/11.1002/1000/11 830-en.

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Electronic attachment: This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICS) 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]

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 Recommendation¹ is to provide a test suite structure (TSS) and the test purposes (TP) for the Personal Health Devices interface based on the requirements defined in the Continua Design Guidelines (CDG) [ITU-T H.810 (2016)]. The objective of this test specification is to provide a high probability of interoperability at this interface.

The TSS and TP 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 Devices interface. 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 50: Sleep apnoea breathing therapy equipment (SABTE)
 - Part 5P: Continuous glucose monitor (CGM)
- Part 6: Device specializations. Personal Health Gateway

¹ This Recommendation includes an electronic attachment with the protocol implementation conformance statements (PICS) and the protocol implementation extra information for testing (PIXIT) required for the implementation of Annex A.

- Part 7: Continua Design Guidelines. BLE Personal Health Device
- Part 8: Continua Design Guidelines. BLE Personal Health Gateway
- Part 9: Personal Health Devices Transcoding Whitepaper. Personal Health Devices
- 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 (2016)] Recommendation ITU-T H.810 (2016), Interoperability design

guidelines for personal health systems.

[ISO/IEEE 11073-10417] ISO/IEEE 11073-10417:2014, *Health informatics – Personal*

health device communication - Part 10417: Device

specialization – Glucose meter. https://www.iso.org/standard/61896.html

[ISO/IEEE 11073-20601-2015A] ISO/IEEE 11073-20601:2010, Health informatics – Personal

health device communication – Part 20601: Application profile – Optimized exchange protocol, including ISO/IEEE 11073-

20601:2010 Amd 1:2015.

https://www.iso.org/standard/54331.html with https://www.iso.org/standard/63972.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. Some 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:

ATS Abstract Test Suite

DUT Device Under Test

CDG Continua Design Guidelines

CGM Continuous Glucose Monitor

GUI Graphical User Interface

INR International Normalized Ratio

IP Insulin Pump

IUT Implementation Under Test

MDS Medical Device System

NFC Near Field Communication

PAN Personal Area Network

PCT Protocol Conformance Testing

PCO Point of Control and Observation

PHD Personal Health Device

PHDC Personal Healthcare Device Class

PHG Personal Health Gateway

PICS Protocol Implementation Conformance Statement

PIXIT Protocol Implementation extra Information for Testing

SABTE Sleep Apnoea Breathing Therapy Equipment

SCR Static Conformance Review

SDP Service Discovery Protocol

SOAP Simple Object Access Protocol

TCWG Test and Certification Working Group

TP Test Purpose

TSS Test Suite Structure

USB Universal Serial Bus

WDM Windows Driver Model

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	Version	Description	Designation
2016 plus errata	[ITU-T H.810 (2016)]	6.1	Release 2016 plus errata noting all ratified bugs [b-CDG 2016].	_
2016	1	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 H.810 is split into eight parts in the H.810-series.	ı
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	Т	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 (TSS)

The test purposes (TPs) for the Personal Health Devices 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)
 - 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)
 - 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)
 - 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)
 - Group 2.4: Personal health device transcoding whitepaper (PHDTW)
 - Subgroup 2.4.1: Whitepaper general requirements (GEN)
 - Subgroup 2.4.2: Whitepaper thermometer requirements (TH)
 - 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 (PICS) 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.

In the electronic attachment, letters "C" and "I" in the column labelled "Mandatory" are used to distinguish between "PICS" 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 PICS, 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 purposes

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

A.1 TP definition conventions

The test purposes (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 test purpose 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

 - <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 test purpose.
- **TP label**: This is the TP's title.
- **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 device under test within that scope of the test (specialization, transport used, etc.).
- Other PICS: 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)

A.2 Sul	ogroup 1.	J. <u>Z.</u>	Git	icose 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	[ISC	[ISO/IEEE 11073-10417]					
	Testable	MD	SGL	Atr 1; M		MDSGL Atr 2; M		MDSGL Atr 4; M
	items	MD	SGL	Atr 5; M				
Test purpose	•				ins the a	attributes specified for a	Glucose	Meter Personal Health Device
Applicability		C_A	AG_C	DXP_000 AND	C_AG_	OXP_178		
Other PICS		C_ <i>F</i>	4G_0	GL_023, C_AG	_GL_02	4, C_AG_GL_181		
Initial conditi	on	The	sim	ulated PHG an	d the PF	ID under test are in the	Operatin	g state.
Test procedu	ire	1.						
		2. The PHD responds with a "rors-cmip-get" service message in which the attribute-list contains a list of all implemented attributes of the MDS Object:						
		MDS attributes:						
		a. Attribute System-Type must not be present.						
			b.	Mandatory att	ribute S	ystem-Type-Spec_List		
				□ attribute-i	d = MD0	C_ATTR_SYS_TYPE_S	PEC_LIS	ST
				□ attribute-t	type = T	ypeVerList		
				☐ attribute-	value.ler	ngth = 4 bytes for each o	configura	tion supported
				attribute-vin the list	value = {	MDC_DEV_SPEC_PRO	OFILE_G	ELUCOSE, 2} must be found
			c.	Mandatory att	ribute Sy	ystem-model		
				□ attribute-i	d = MD0	C_ATTR_ID_MODEL (0:	x09 0x28	3)
				□ attribute-t	type = S	ystemModel		
				□ atribute-v	alue.len	gth = <variable></variable>		
				☐ attribute-	value =			
				• Manı	ufacture	r = Check against PIXIT	I_AG_O	XP_003
				• Mode	el = Che	ck against PIXIT I_AG_0	OXP_004	4
			d.	Mandatory att	ribute D	ev-Configuration-Id		
				☐ IF C_AG_	_GL_023	3 THEN attribute-value =	= 0x06A4	(1700)
				☐ IF C_AG_	_GL_024	1 THEN attribute-value =	= 0x06A5	5 (1701)
				☐ IF C_AG_	_OXP_1	81 THEN attribute-value	e = < bet\	ween 0x4000 and 0x7FFF >
Pass/Fail crit	eria	All	check	ked values are	as spec	ified in the test procedur	re.	
Notes								

TP ld		TP/PLT/PHD/CLASS/GL/BV-000_B						
TP label		MDS Configuration objects events for Glucose meter specialization.						
Coverage	Spec	[ISO/	[ISO/IEEE 11073-10417]					
	Testable items	MDS	MDSEvents 1; M					
Test purpose	e	Chec	ck tl	nat:				
	Glucose Meter PHD sends the MDS-Configuration-Event using a Confirmed e it includes the event-info ConfigReport							
Applicability	,	C_A	G_(OXP_000 AND C_AG_OXP_178				
Other PICS		C_A	G_(OXP_010, C_AG_GL_023, C_AG_GL_024, C_AG_GL_181				
Initial condit	ion	The	sim	ulated PHG and the PHD under test are in the Unassociated state.				
Test procedu	ure	1.	The	simulated PHG receives an association request from the PHD under test.				
		2.	The	simulated PHG responds with a result = accepted-unknown-config.				
				PHD responds with a "Remote Operation Invoke Confirmed Event Report" sage with an MDC_NOTI_CONFIG event to send its configuration to the PHG:				
			a.	APDU Type				
			. .	☐ field- type = PrstApdu				
				☐ field-length =2 bytes				
				☐ field-value =0xE7 0x00				
			b.	invoke-id				
				☐ field- type = InvokeIDType				
				☐ field-length =INT-U16				
				☐ field- value = <not for="" relevant="" test="" this=""></not>				
			c.	message				
				☐ field- type = roiv-cmip-confirmed-event-report				
				☐ field-length =two bytes				
				☐ field- value =0x01 0x01 (EventReportArgumentSimple)				
		(d.	obj-handle (EventReportArgumentSimple)				
				☐ field- type = HANDLE				
				☐ field-length =INT-U16				
			e.	event-time (EventReportArgumentSimple)				
				☐ field- type = Relative Time				
				☐ field-length =INT-U32				
				☐ field-value =				
				 IF NOT C_AG_OXP_010 THEN value = 0xFF 0xFF 0xFF 0xFF 				
		1	f.	event-type (EventReportArgumentSimple)				
			☐ field- type = OID-Type					
		☐ field-length =INT-U16						
			☐ field- value=0x0D 0x1C (MDC_NOTI_CONFIG)					
		9	g.	config-report-id (ConfigReport)				
				☐ field- type = Configld				
<u> </u>				☐ field-length = INT-U16				

	☐ field value = <it configuration="" matches="" tested="" the=""></it>			
	IF C_AG_GL_023 THEN attribute-value = 0x 06A4 (1700)			
	IF C_AG_GL_024 THEN attribute-value = 0x 06A5 (1701)			
	 IF C_AG_OXP_181 THEN <between 0x00="" 0x40="" 0x7f="" 0xff="" and=""> for extended configuration.</between> 			
	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 checked values are as specified in the test procedure.			
Notes				

TP ld		TP/PLT/PHD/CLASS/GL/	BV-000_C				
TP label		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	е	Check that:					
		Agent-initiated mode is sureports are used in confirm		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]					
		The PHD sends the MDS-Dynamic-Data-Update-MP-Fixed using a confirmed event report and it includes the event-info ScanReportInfoMPFixed					
		[OR]					
		The PHD sends the MDS-Dynamic-Data-Update-MP-Var using a confirmed event report and it includes the event-info ScanReportInfoMPVar					
Applicability	′	C_AG_OXP_000 AND C_ C_AG_OXP_184 OR C_A		XP_182 OR C_AG_OXP_183 OR			
Other PICS							
Initial condi	tion	The simulated PHG and the PHD under test are in the Operating state.					
Test proced	ure	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 meter specialization - Standard Configuration (1700 or 1701)								
Coverage	Spec	[ISO/IEEE 11073-104	[ISO/IEEE 11073-10417]					
	Testable	BloodGL 1; M	BloodGL 4; M	BloodGL 4b; M				
	items	CtrlSol 1; M						
Test purpos	se	Check that:						
				supported by a Glucose Meter PHD for				
		[AND]						
		Blood Glucose Numeric Object with Type MDC_CONC_GLU_UNDETERMINED_PLASMA is supported by a Glucose Meter PHD for Standard Configuration 1701 (0x06A5).						
		[AND]						
		The Control Solution Numeric Object is supported by a Glucose Meter PHD for Standard Configuration 1701 (0x06A5).						
Applicability	у	C_AG_OXP_000 AND C_AG_OXP_178 AND (NOT_C_AG_OXP_181)						
Other PICS								
Initial condi	tion	The simulated PHG a	nd the PHD are in the Unassocia	ated state.				
Test proced	lure	The simulated Pl	HG receives an association reque	est 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.						
		4. Check that the field Dev-Config-Id is set to 0x06A4 (1700) OR 0x06A5 (1701), if it is the PHG responds with a "unsupported-config" and waits for a new configuration.						
		5. Once the PHD under test sends a standard configuration, check that:						
		IF Dev-Config-Id	= 0x06A4) THEN Attribute-List:					
			ue (ConfigReport $ ightarrow$ ConfigObject pends on the attribute Type. The	tList (ConfigObject) → Attribute List), e values we have to check are:				
			llucose Object is present → MDC ONC_GLU_CAPILLARY_WHOL					
		IF Dev-Config-Id = 0x06A5) THEN 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 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)
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 specialization - Extended Configuration							
Coverage	Spec	[ISO/IEEE 11073-10417]							
	Testable items	BloodGL 1; M		DevSenAn 3; R		BloodGL 28; M			
Test purpos	е	Check that:							
		The Blood Glucose Numeric Object is supported by a Glucose Meter PHD.							
		[AND]							
				ntext Medication, Conte mented by the vendor.	ext Carboh	ydrates Numeric or Control			
		[AND]							
		PHD should suppo occurrences.	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 meal, sample location, and tester information, the additional Enumeration objects, i.e. Context Carbohydrates, Context Sample Location and Context Tester can be used.							
Applicability	1	C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_181							
Other PICS		C_AG_GL_001, C_AG_GL_002, C_AG_GL_003, C_AG_GL_004, C_AG_GL_005, C_AG_GL_007, C_AG_GL_008, C_AG_GL_009, C_AG_GL_010, C_AG_GL_011, 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 condi	tion	The simulated PHG and the PHD are in the Unassociated state.							
Test proced	ure	The simulated PHG receives an association request from the PHD under test.							
		2. The simulated	PHG respo	onds with a result = acc	epted-unk	known-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. 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 PHG responds with a "unsupported-config" and waits for a new configuration.							
		5. Once the PHD under test sends an extended configuration, check that:							
		Attribute-List:							
		 a. atribute-value(ConfigReport → ConfigObjectList (ConfigObject)→Attribute List 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 (1700 or 1701)

Coverage	Spec	[ISO/	IEEE	11073-10417]						
	Testable	Blood	dGL 2;	М	BloodGL 4; M	BloodGL 6; M				
	items	Blood	dGL 8;	М	BloodGL 10; M	BloodGL 12; C				
		Blood	dGL 14	1; R	BloodGL 18; R	BloodGL 20; M				
		Blood	dGL 22	2; C	BloodGL 24; R	BloodGL 26; R				
		Meas	DatTx	: 6;M	BloodGL 31; M					
Test purpos	e	Chec	Check that:							
			Blood (ric Object contains the attribu	ites specified for Standard				
Applicability	1	C_AC	G_OXF	P_000 AND C_	AG_OXP_178 AND (NOT C_	_AG_OXP_181)				
Other PICS										
Initial condit	ion	The	simula	ted PHG and th	ne PHD under are in the Una	ssociated state.				
Test proced	ure	1.	The sir	mulated PHG re	eceives an association reque	st from the PHD under test.				
		r	espon	ds with a "Rem		oted-unknown-config. The PHD rmed Event Report" message with an on to the PHG.				
		(0x06A			(1700) or Dev-Config-Id is set to an "unsupported-config" and waits for				
				he PHD under attributes are:	test sends a Standard Config	guration, check that Blood Glucose				
		a	a. Ma	andatory attribu	te Handle					
				attribute-id =	MDC_ATTR_ID_HANDLE					
				attribute-type	e = HANDLE					
				attribute-valu	e = 0x00 0x01					
		k	o. Ma	andatory attribu	te Type					
				IF Dev-Confi	g-Id = 0x06A4:					
				 attribute 	-id = MDC_ATTR_ID_TYPE					
				 attribute 	-type = TYPE					
					-value = MDC_PART_SCAD ONC_GLU_CAPILLARY_WH					
				IF Dev-Confi	g-Id = 0x06A5:					
				 attribute 	-id = MDC_ATTR_ID_TYPE					
				 attribute 	-type = TYPE					
					-value = MDC_PART_SCAD ONC_GLU_UNDETERMINE					
		C	c. Ma	andatory attribu	te Metric-Spec-Small					
				attribute-id =	MDC_ATTR_METRIC_SPE	C_SMALL				
				attribute-type	e = MetricSpecSmall (BITS-1	6)				
				attribute-valu	e.length = 2 bytes					
				attribute-valu	ue ≠ 0x00 0x00					
				• Bit 0 (ms	ss-avail-intermittent(0)), must	t be set				
				• Bit 1 (ms	ss-avail-stored-data(1)), mus	t be set				

1	
	Bit 2 (mss-upd-aperiodic(2)), must be set
	Bit 3 (mss-msmt-aperiodic(3)), must be set
	 Bit 9 (mss-acc-agent-initiated(9)), must be set
	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
	□ attribute-id = MDC_ATTR_ATRIBUTE_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
f.	No other attribute shall be present at configuration.
All chec	sked values are as specified in the test procedure.
	e.

TP ld		TP/PLT/PHD/CLASS/GL/BV-005						
TP label		Blood Glucose Numeric Object- Extended Configuration						
Coverage	Spec	[ISO/IEEE 11073-10417]						
	Testable	NumObj 3; C	NumObj 5; R	NumObj 6; R				
	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						
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 PICS		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 condit	ion	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 a "unsupported-config" and waits for a new configuration.
- 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
 - \Box 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
 - 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
 - Bit 0 must be set (mss-avail-intermittent(0))
 - 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))
 - 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)))
 - 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
g.	IF 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 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 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 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
I.	IF Not recommended attribute Measure-Active-Period
	☐ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
	□ attribute-type = FLOAT type
	☐ attribute-value.length = 4 bytes
m.	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>
n.	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>
0.	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>
	p.	Not recommended attribute Compound-Nu-Observed-Value
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = NuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	q.	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 Id		TP/PLT/PHD/CLASS/GL/BV-006						
TP label		HbA1c 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 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; M	NumObj 2; M			
Test purpose		Check that: The HbA1c 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_002						
Other PICS		C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189						
Initial condit	ion	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 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.						
		 Once the PHD under test sends an extended configuration, check that HbA1c Object attributes 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.	Ма	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
		Bit 0 must be set (mss-avail-intermittent(0))
		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))
		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 =1byte(INT-U8) + ms-comp-no =1byte(INT-U8)))</variable>
e.	IF I	Not recommended attribute Measurement-Status is present
		attribute-id = MDC_ATTR_MSMT_STAT
		attribute-type = MeasurementStatus (BITS-16)
		attribute-value.length =2 bytes
f.	Coi	nditional 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 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)
		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 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_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.	IF PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	□ attribute-type = AbsoluteTime
	□ attribute-value.length = 8 bytes
l.	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.	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 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)
p.	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>
q.	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>
r.	Not recommended attribute Compound-Nu-Observed-Value
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
	□ attribute-type = NuObsValueCmp
	□ attribute-value.length = <variable></variable>
S.	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.
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-007				
TP label		Context Exercise Numeric Object - Extended Configuration				
Coverage Spec		[ISO/IEEE 11073-104	17]			
	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; M		
		ContextEx 4; M	ContextEx 5; M	NumObj 2; M		
		ContextEx 6; M				
Test purpos	se	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_OXP_181 AND C_AG_GL_003				
Other PICS		C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189				
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. 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. 				
		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.				
		Once the PHD under test sends an Extended Configuration, check that Context Exercise Object attributes are:				
		a. Mandatory attribute Type				
			-id = MDC_ATTR_ID_TYPE			
		□ attribute	-type = TYPE -value =MDC_PART_PHD_DM ((TXT_GLU_EXERCISE (0x71 0xE			
		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	
	Bit 0 must be set (mss-avail-intermittent(0))	
	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))	
	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	
u.	□ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL	
	□ attribute-type = MetricStructureSmall	
	□ attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-</variable>	
	U8) + ms-comp-no =1byte(INT-U8)))	
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.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp
	☐ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	□ attribute-type = AbsoluteTime
	□ attribute-value.length = 8 bytes
l.	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.	Mandatory 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)
	□ attribute-value= value within the range:[0,100]
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 checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/PHD/CLASS/GL/BV-008				
TP label		Context Medication 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	ContextMed 1; M		
		ContextMed 2; M	ContextMed 3; M	ContextMed 5; M		
		ContextMed 6; M	NumObj 2; M	ContextMed 7; M		
A P 1 . 115		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				
	<u> </u>					
Other PICS		C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189				
Initial condi	tion	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.				
		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 Exercise Object attributes are:				
		a. Mandatory attribute Type				
		☐ attribute-id = MDC_ATTR_ID_TYPE				
		☐ attribute-type = TYPE				
			value =MDC_PART_PHD_DM (0 FXT_MEDICATION (0x72 0x04)	0x00 0x80),		
		b. Not recomme	ended Supplemental –Types Attril	bute		
		☐ 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
	 Bit 0 must be set (mss-avail-intermittent(0))
	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))
	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
	□ attrbute-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
	□ 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
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.	IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp
		□ attribute-id = MDC_ATTR_TIME_STAMP_ABS
		□ attribute-type = AbsoluteTime
		□ attribute-value.length = 8 bytes
	k.	Optional attribute Relative-Time-Stamp
		attribute-id = MDC_ATTR_TIME_STAMP_REL
		□ attribute-type = RelativeTime (INT-U32)
		□ attribute-value.length = 4 bytes
	I.	Conditional attribute HiRes-Time-Stamp
		□ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
		□ attribute-type = HighResRelativeTime
		□ attribute-value.length = OCTET STRING (SIZE(8))
	m.	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 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)
	p.	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>
	q.	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>
	r.	Not recommended attribute Compound-Nu-Observed-Value
		□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
		□ attribute-type = NuObsValueCmp
		☐ attribute-value.length = <variable></variable>
	S.	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	ked values are as specified in the test procedure.

Notes		
Notes		

TP Id		TP/PLT/PHD/CLASS/GL/BV-009				
TP label		Context Carbohydrates Numeric Object - Extended Configuration				
Coverage	Spec	[ISO/IEEE 11073-10417]				
	Testable	NumObj 3;	С	NumObj 4; M	NumObj 5; R	
	items	NumObj 6;	R	NumObj 8; R	NumObj 9; R	
		NumObj 12	umObj 12; R NumObj 16; O NumOb		NumObj 17; O	
		NumObj 20); R	NumObj 22; R	NumObj 23; R	
		NumObj 24	; R	NumObj 25; R	ContextCarb 1; M	
		ContextCar	ъ 2; М	ContextCarb 3; M	ContextCarb 4; M	
		ContextCar	ъ 5; М	NumObj 2; M	ContextCarb 6; M	
Test purpose	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 PICS		C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189				
Initial conditi	ion	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. 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. 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. Once the PHD under test sends an extended configuration, check that Context Carbohydrates Object attributes are: Mandatory attribute Type attribute-id = MDC_ATTR_ID_TYPE attribute-value =MDC_PART_PHD_DM (0x00 0x80), MDC_CTXT_GLU_CARB (0x71 0xE4) 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. Ma	andatory 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 Bit 0 must be set (mss-avail-intermittent(0)) Bit 1 must be(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)) if the reading is entered manually 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))) Not recommended attribute Measurement-Status ☐ attribute-id = MDC ATTR MSMT STAT □ attribute-type = MeasurementStatus(BITS-16) ☐ attribute-value.length = 2 bytes Mandatory attribute Metric-Id ☐ attribute-id = MDC_ATTR_ID_PHYSIO □ attribute-type = OID-Type(INT-U16) ☐ attribute-value.length= 2 bytes attrbute-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) 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 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 IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp ☐ attribute-id = MDC_ATTR_TIME_STAMP_ABS

		D. otherbude trans. AbsoluteTime
		attribute-type = AbsoluteTime
		attribute-value.length = 8 bytes
	k.	Optional attribute Relative-Time-Stamp
		□ attribute-id = MDC_ATTR_TIME_STAMP_REL
		□ attribute-type = RelativeTime (INT-U32)
		□ attribute-value.length = 4 bytes
	I.	Conditional attribute HiRes-Time-Stamp
		□ attribute-id = MDC_ATTR_TIME_STAMP_REL_HI_RES
		□ attribute-type = HighResRelativeTime
		□ attribute-value.length = OCTET STRING (SIZE(8))
	m.	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 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)
	p.	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>
	q.	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>
	r.	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></variable>
	S.	Recommended attribute Accuracy
	3.	□ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
		attribute-type = FLOAT-Type (INT-U32)
		attribute-value.length = 4 bytes
Pass/Fail criteria	All chec	ked values are as specified in the test procedure.
Notes		
	1	

TP ld		TP/PLT/PHD/CLASS/GL/BV-010					
TP label		Control Solution Numeric Object - Standard Configuration 1701					
Coverage	Spec	[ISO/IEE	SO/IEEE 11073-10417]				
	Testable	CtrlSol 2	; M	CtrlSol 4; M	CtrlSol 5; M		
	items	CtrlSol 6	; M	CtrlSol 8; M	CtrlSol 10; M		
		CtrlSol 1	2; M				
Test purpose	•	Check that: The Control Solution Numeric Object contains the attributes specified for Standard Configuration 0x06A5.					
Applicability		C_AG_C)XP_000 AND C_AG_0	OXP_178 AND C_AG_	_GL_024 AND (NOT C_AG_OXP_181)		
Other PICS							
Initial condit	ion	The simu	lated PHG and the PH	ID under test are in the	e Unassociated state.		
Test procedu	ıre	1. The	simulated PHG receiv	es an association requ	est from the PHD under test.		
		resp MD0 3. Che with 4. Onc Obje a.	onds with a "Remote O C_NOTI_CONFIG ever ck that the field Dev-C a "unsupported-config e the PHD under test s ect attributes are: Mandatory attribute Ha	Operation Invoke Connt to send its configural onfig-Id is set to 0x06A and waits for a new condition a standard configural on the configuration and the configuration is sended.	A5 (1701); if it is not, the PHG responds		
		b.	□ attribute-type = H □ attribute-value = 0 Mandatory attribute Ty	0x00 0x02			
			□ attribute-type = T □ attribute-value = I MDC_CONC_GL	YPE MDC_PART_SCADA (U_CONTROL (0x71 0)			
			attribute-type = M attribute-value.ler attribute-value ≠ 0 Bit 0 (mss-ava Bit 1 (mss-ava Bit 2 (mss-upo Bit 3 (mss-ms Bit 9 (mss-acc The other bits	C_ATTR_METRIC_SPI detricSpecSmall (BITS- ngth = 2 bytes 0x00 0x00 ail-intermittent(0)), must ail-stored-data(1)), must d-aperiodic(2)), must be mt-aperiodic(3)), must c-agent-initiated(9)), must have to be 0.	t be set t be set e set be set		
		d.	Mandatory attribute U □ attribute-id = MD0	nit-Code C_ATTR_UNIT_CODE			

			attribute-type = OID-Type(INT-U16)
			attribute-value.length = 2 bytes
			attribute-value= MDC_DIM_MILLI_G_PER_DL
	e.	Mar	ndatory attribute Attribute-Value-Map
			attribute-id = MDC_ATTR_ATRIBUTE_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
	f.	No o	other attribute shall be present at configuration.
Pass/Fail criteria	All chec	ked v	values are specified in the test procedure.
Notes			

TP ld		TP/PLT/PHD/CLASS/GL/BV-010_A					
TP label	Control Solution Numeric Object - Extended Configuration			1			
Coverage	Spec	[ISO/IE	[ISO/IEEE 11073-10417]				
	Testable items	CtrlSol	I 4; M		CtrlSol 5; M	CtrlSol 7; M	
Test purpose	Check that: The Control Solution Numeric Object contains the attributes specified for Extended Configuration.						
Applicability		C_AG	_OXP_(000 AND C_AG_	OXP_178 AND C_AG_GL_	_001 AND C_AG_OXP_181	
Other PICS							
Initial conditi	on	The simulated PHG and the PHD under test are in the Unassociated state.				associated state.	
Initial condition Test procedure		2. The re MI 3. Che re 4. On	ne simu sponds DC_NC heck that sponds note the bject att	lated PHG responsivith a "Remote of ITL_CONFIG event the field Dev-Country with a "unsupport PHD under test stributes are: Idatory attribute Type attribute-id = MDO attribute-value = IMDC_CONC_GL ecommended Support of the stribute-id = MDO attribute-id = MDO attribute-type = Second attribute-type = Second attribute-type = Second attribute-id attribu	Operation Invoke Confirment to send its configuration on fig-Id is set in the extended-config" and waits for a sends an extended configuration of the conf	d-unknown-config. The PHD ed Event Report" message with an to the PHG. led range; if it is not, the PHG new configuration. ration, check that Control Solution 0 0x02),	
		C.			etric-Spec-Small	e or TTE (TTELIETIGNE 4 bytes	

	□ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL	
	□ attribute-type = MetricSpecSmall (BITS-16)	
	□ attribute-value.length = 2 bytes	
	attribute-value ≠ 0x00 0x00	
	Bit 0 must be set (mss-avail-intermittent(0))	
	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 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	
g.	IF 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 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 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 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	

ı.	
1.	IF Not recommended attribute Measure-Active-Period
	□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
	☐ attribute-type = FLOAT type
	☐ attribute-value.length = 4 bytes
m.	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>
n.	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>
0.	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>
p.	Not recommended attribute Compound-Nu-Observed-Value
	□ attribute-id = MDC_ATTR_NU_CMPD_VAL_OBS_SIMP
	□ attribute-type = NuObsValueCmp
	□ attribute-value.length = <variable></variable>
q.	IF Recommended attribute Accuracy is present
	□ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
	□ attribute-type = FLOAT-Type (INT-U32)
	□ attribute-value.length = 4 bytes
All chec	ked values are as specified in the test procedure.
_	n. o.

TP ld		TP/PLT/PHD/CLASS/GL/BV-011					
TP label		Device and Sensor annunciation status Enumeration Object - Extended Configuration					
Coverage	Spec	[ISO/IEEE 11073-10417]	[ISO/IEEE 11073-10417]				
	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			
Test purpos	e	Check that:					

	Device and Sensor annunciation status Enumeration 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_007					
Other PICS						
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.					
	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.					
	 Check that the field Dev-Config-Id is in the extended range, if it is not, the simulated PHC must respond with an "unsupported-config" and wait for a new configuration. 					
	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					
	☐ attribute-type = TYPE					
	□ attribute-value = MDC_PART_PHD_DM (0x00 0x80), MDC_GLU_METER_DEV_STATUS (0x71 0xD8)					
	b. IF Not recommended attribute Supplemental-Types 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					
	Bit 0 must be set (mss-avail-intermittent(0))					
	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 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.	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
	l.	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
	m.	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
	n.	IF Not recommended attribute Enum-Observed-Value-Simple-Str is rpesent
		□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_STR
		□ attribute-type = EnumPrintableString
		□ attribute-value.length = <variable></variable>
	0.	IF Not recommended attribute Enum-Observed-Value is present
		□ attribute-id= MDC_ATTR_VAL_ENUM_OBS
		□ attribute-type = EnumObsValue
		□ attribute-value.length = <variable></variable>
	p.	Optional attribute Enum-Observed-Value-Partition
		attribute-id= MDC_ATTR_ENUM_OBS_VAL_PART
		□ attribute-type = NomPartition(INT-U16)
		□ attribute-value.length = 2 bytes
Pass/Fail criteria	All oboo	ked values are as specified in the test procedure
rass/raii Criteria	All chec	ked values are as specified in the test procedure.

Notes			

TP ld		TP/PLT/PHD/CLASS/GL/BV-012					
TP label	TP label		Context Meal Enumeration Object - Extended Configuration				
Coverage	Spec	[ISO/II	EEE 11073-10417]				
	Testable items	Enum	Obj 3; R	EnumObj 4; M	EnumObj 5 R		
	items	Enum	Obj 6; R	EnumObj 7; R	EnumObj 8; R		
		Enum	Obj 9; R	EnumObj 2; M	EnumObj 12; R		
		Enum	Obj 16; O	EnumObj 17; O	EnumObj 20; O		
		Enum	Obj 21; O	EnumObj 22; O	EnumObj 23; O		
		Enum	Obj 24; O	ContextMeal 1; M	ContextMeal 2; M		
		Conte	xtMeal 3; M				
Test purpose)	Check	that:	1	1		
		Check that: Context Meal Enumeration 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_008					
Other PICS		C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189					
Initial conditi	on	The simulated PHG and the PHD under test are in the Unassociated state.					
Test procedu	ire	The simulated PHG receives an association request from the PHD under test.					
		2. TI	he simulated PHG respon	nds with a result = accepted-unl	known-config.		
				"Remote Operation Invoke Co OTI_CONFIG event to send its o			
		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.					
				sends an extended configuration	n, check that all Context Meal		
			Enumeration Objects have: a. Mandatory attribute Type				
		a.		C_ATTR_ID_TYPE			
			□ attribute-type = T				
			• •	MDC_PART_PHD_DM (0x00 0	x80), MDC_CTXT_GLU_MEAL		
		b.		attribute Supplemental-Types is	s present		
				C_ATTR_SUPPLEMENTAL_TY	•		
			□ attribute-type = S	upplementalTypeList			
			□ attribute-value.ler	ngth = <variable> (Sequence of</variable>	TYPE (TYPE.length= 4 bytes))		
		C.	Mandatory attribute M	letric-Spec-Small			
			☐ attribute-id = MD0	C_ATTR_METRIC_SPEC_SMA	LL		
			☐ attribute-type = M	letricSpecSmall (BITS-16)			
			☐ attribute-value.ler	ngth =2 bytes			

	☐ attribute-value ≠ 0x00 0x00
	Bit 0 must be set (mss-avail-intermittent(0))
	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))
	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)))</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 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))</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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	□ attribute-type = AbsoluteTime
	□ attribute-value.length = 8 bytes
I.	IF Optional attribute Relative-Time-Stamp is present
	□ attribute-id = MDC ATTR TIME STAMP REL

		☐ 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_SIMP_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_MEAL_PREPRANDIAL (0x72 0x4C) OR
		 MDC_CTXT_GLU_MEAL_POSTPRANDIAL (0x72 0x50) OR
		 MDC_CTXT_GLU_MEAL_FASTING (0x72 0x54) OR MDC_CTXT_GLU_MEAL_BEDTIME (0x72 0x74) OR
		 MDC_CTXT_GLU_MEAL_CASUAL (0x72 0x58)
	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-013					
TP label	TP label		Context Sample Location Enumeration Object - Extended Configuration				
Coverage	Spec	[ISO/IE	[ISO/IEEE 11073-10417]				
	Testable items	Enum	Obj 3;	R	EnumObj 4; M	EnumObj 5 R	
	items	Enum	Obj 6;	R	EnumObj 7; R	EnumObj 8; R	
		Enum	Obj 9;	R	EnumObj 2; M	EnumObj 12; R	
		Enum	Obj 16	s; O	EnumObj 17; O	EnumObj 20; O	
		Enum	Obj 21	; O	EnumObj 22; O	EnumObj 23; O	
		Enum	Obj 24	;; O	ContxtSamLoc 1; M	ContxtSamLoc 2; M	
		Contxt	SamL	oc 3; M			
Test purpose	e	Check	that:				
		Config			neration Object contains the a	ttributes specified for Extended	
Applicability		C_AG	_OXP	_000 AND C_AG_0	OXP_178 AND C_AG_OXP_1	181 AND C_AG_GL_009	
Other PICS		C_AG	_OXP	_041, C_AG_OXP	_183, C_AG_OXP_189		
Initial condit	ion	The si	mulate	ed PHG and the Ph	ID under test are in the Unass	sociated state.	
Test procedu	ıre	The simulated PHG receives an association request from the PHD under test.					
		2. Th	ne sim	ulated PHG respor	nds with a result = accepted-u	nknown-config.	
					"Remote Operation Invoke C DTI_CONFIG event to send its		
					onfig-Id is in the extended ran upported-config" and wait for	ge, if it is not, the simulated PHG a new configuration.	
			5. Once the PHD under test sends an extended configuration, check that all Context Meal Enumeration Objects have:			on, check that all Context Meal	
		a.		ndatory attribute Ty			
				-	C_ATTR_ID_TYPE		
				attribute-type = T			
					MDC_PART_PHD_DM (0x00 J_SAMPLELOCATION (0x72		
		b.	IF N	Not recommended	attribute Supplemental-Types	is present	
				attribute-id = MD0	C_ATTR_SUPPLEMENTAL_1	TYPES	
				attribute-type = S	upplementalTypeList		
				attribute-value.ler	ngth = <variable> (Sequence o</variable>	f TYPE (TYPE.length= 4 bytes))	
		c.	Ma	ndatory attribute M	etric-Spec-Small		
				attribute-id = MD0	C_ATTR_METRIC_SPEC_SM	MALL	
				attribute-type = M	etricSpecSmall (BITS-16)		
				attribute-value.ler	ngth =2 bytes		
				attribute-value ≠ 0	0x00 0x00		
				Bit 0 must be	set (mss-avail-intermittent(0))	
				Bit 1 must be	set (mss-avail-stored-data(1))	

Bit 2 must be set (mss-msnt-aperiodic(2)) Bit 3 must be set (mss-msnt-aperiodic(3)) Bit 9 must be set (mss-ract-manual(12)) Jet 12 may be set (mss-cat-manual(12)) Jet 12 may be set (mss-cat-manual(12)) Jet 14 must be set (mss-cat-manual(12)) Jet 15 Not recommended attribute Metric-Structure-Small is present attribute-value_length = variables(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8)		
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-value.length = -variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8))) e. IF Not recommended attribute Measurement-Status is present attribute-id = MDC_ATTR_MSMT_STAT attribute-id = MDC_ATTR_MSMT_STAT attribute-value.length = 2 bytes f. IF Not recommended attribute Metric-Id is present attribute-value.length = 2 bytes attribute-value.length = 4 bytes attribute-value.length = 2 bytes attribute-value.length = - variable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-List is present attribute-value.length = - variable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-type = NomPartition (INT-U16) attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present		Bit 2 must be set (mss-upd-aperiodic(2))
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-value.length = cvariable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8))) e. IF Not recommended attribute Measurement-Status is present attribute-id = MDC_ATTR_MSMT_STAT attribute-value.length = 2 bytes IF Not recommended attribute Metric-Id is present attribute-value.length = 2 bytes attribute-value.length = Cattribute of Metric-Id and Metric-Id-List shall be present. g. IF Not recommended attribute Metric-Id-List is present attribute-value.length = cvariable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-PARTIC_ID_PART attribute-value.length = 2 bytes i. IF Not recommended attribute Metric-Id-Partition is present attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time (INT-U32)		Bit 3 must be set (mss-msmt-aperiodic(3))
d. IF Not recommended attribute Metric-Structure-Small is present attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL attribute-value.length = evariable>(Sequence of (ms-struct.length =1byte(INT-UB)) attribute-value.length = evariable>(Sequence of (ms-struct.length =1byte(INT-UB)) hms-comp-no =1byte(INT-UB)) attribute-value.length = 2 bytes attribute-value.length = variable>(SEQUENCE OF OID-Type (INT-U16)) attribute-value.length = variable>(SEQUENCE OF OID-Type (INT-U16)) attribute-id = MDC_ATTR_ID_PHYSIO_LIS attribute-value.length = variable>(SEQUENCE OF OID-Type (INT-U16)) attribute-value.length = 2 bytes iii F Not recommended attribute Metric-Id-Partition is present attribute-value.length = 2 bytes iii F Not recommended attribute Unit-Code is present attribute-value.length = 2 bytes iii F Not recommended attribute Unit-Code is present attribute-value.length = 2 bytes iii F Not recommended attribute Unit-Code is present attribute-value.length = 2 bytes iii F Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes iii F Not recommended attribute Source-Handle-Reference is present attribute-value.length = 2 bytes iii F Not recommended attribute Source-Handle-Reference is present attribute-value.length = 8 bytes iiii F Optional attribute-value.length = 8 bytes iiii F Optional attribute-value.length = 8 bytes iiii F Optional attribute-value.length = 8 bytes iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		Bit 9 must be set (mss-acc-agent-initiated(9))
attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL attribute-type = MetricStructureSmall attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-UB) + ms-comp-no =1byte(INT-UB))) e. IF Not recommended attribute Measurement-Status is present attribute-id = MDC_ATTR_MSMT_STAT attribute-id = MDC_ATTR_MSMT_STAT attribute-value.length = 2 bytes f. IF Not recommended attribute Metric-Id is present attribute-id = MDC_ATTR_ID_PHYSIO 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-value.length = 2 bytes attribute-value.length = < variable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-id = MDC_ATTR_ID_PHYSIO_LIS attribute-value.length = < variable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-id = MDC_ATTR_METRIC_ID_PART attribute-id = MDC_ATTR_METRIC_ID_PART attribute-id = MDC_ATTR_METRIC_ID_PART attribute-id = MDC_ATTR_UNIT_CODE attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present attribute-id = MDC_ATTR_UNIT_CODE attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL</variable>		Bit 12 may be set (mss-cat-manual(12))
attribute-type = MetricStructureSmall attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8))) e. IF Not recommended attribute Measurement-Status is present attribute-id = MDC_ATTR_MSMT_STAT attribute-id = MDC_ATTR_ISMT_STAT attribute-value.length = 2 bytes f. IF Not recommended attribute Metric-Id is present attribute-id = MDC_ATTR_ID_PHYSIO 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-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-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-id = MDC_ATTR_METRIC_ID_PART attribute-id = MDC_ATTR_METRIC_ID_PART attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present attribute-id = MDC_ATTR_UNIT_CODE attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-id = MDC_ATTR_TOURCE_HANDLE_REF attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-value.length = 2 bytes l. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL</variable></variable>	d.	IF Not recommended attribute Metric-Structure-Small is present
□ attribute-value.length = <variable>(Sequence of (ms-struct.length =1byte(INT-U8) + ms-comp-no =1byte(INT-U8))) e. IF Not recommended attribute Measurement-Status is present □ attribute-id = MDC_ATTR_MSMT_STAT □ attribute-value.length = 2 bytes f. IF Not recommended attribute Metric-Id is present □ attribute-value.length = 2 bytes □ attribute-value.length = √avriable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-List is present □ attribute-value.length = √avriable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present □ attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present □ attribute-id = MDC_ATTR_METRIC_ID_PART □ attribute-id = MDC_ATTR_UNIT_CODE □ attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-value.length = 2 bytes k. IF Not recommended attribute Source-Handle-Reference is present □ attribute-value.length = 2 bytes c. If the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL</variable>		☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL
e. IF Not recommended attribute Measurement-Status is present attribute-id = MDC_ATTR_MSMT_STAT attribute-value.length = 2 bytes f. IF Not recommended attribute Metric-Id is present attribute-value.length = 2 bytes attribute-value.length = Cantral Dephysion 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-value.length = cvariable>(SEQUENCE OF OID-Type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-id = MDC_ATTR_METRIC_ID_PART attribute-vipe = NomPartition (INT-U16) attribute-vipe = NomPartition (INT-U16) attribute-vipe = OID-Type(INT-U16) attribute-vipe = OID-Type(INT-U16) attribute-vipe = AIDC_ATTR_SOURCE_HANDLE_REF attribute-vipe = HANDLE (INT-U16) attribute-vipe = HANDLE (INT-U16) attribute-vipe = HANDLE (INT-U16) attribute-vipe = HANDLE (INT-U16) attribute-vipe = AIDC_ATTR_SOURCE_HANDLE_REF attribute-vipe = HANDLE (INT-U16) attribute-vipe = AIDC_ATTR_TIME_STAMP_ABS attribute-vipe = AbsoluteTime attribute-vipe = AbsoluteTime attribute-vipe = AbsoluteTime attribute-vipe = RelativeTime-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-vipe = RelativeTime (INT-U32)		□ attribute-type = MetricStructureSmall
□ 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-value.length = cartra_ID_PHYSIO_LIS □ attribute-value.length = cartra_ID_PART □ attribute-value.length = ptytes □ attribute-value.length = ptytes □ attribute-value.length = ptytes i. IF Not recommended attribute Source-Handle-Reference is present □ attribute-value.length = ptytes □ attribute-value.length = ptytes i. IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-value.length = ptytes □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_PIREL □ attribute-id = MDC_ATTR_T		
□ 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-value.length = creation-war-along-to-th-type (INT-U16)) h. IF Not recommended attribute Metric-Id-Partition is present □ attribute-id = MDC_ATTR_METRIC_ID_PART □ attribute-id = MDC_ATTR_METRIC_ID_PART □ attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present □ attribute-id = MDC_ATTR_UNIT_CODE □ attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-id = MDC_ATTR_TIME_STAMP_REL	e.	IF Not recommended attribute Measurement-Status is present
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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)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-id = MDC_ATTR_METRIC_ID_PART attribute-id = MDC_ATTR_METRIC_ID_PART attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present attribute-id = MDC_ATTR_UNIT_CODE attribute-id = MDC_ATTR_UNIT_CODE attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32)</variable>		□ attribute-type = MeasurementStatus (BITS-16)
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)) h. IF Not recommended attribute Metric-Id-Partition is present attribute-id = MDC_ATTR_METRIC_ID_PART attribute-id = MDC_ATTR_METRIC_ID_PART attribute-value.length = 2 bytes i. IF Not recommended attribute Unit-Code is present attribute-id = MDC_ATTR_UNIT_CODE attribute-id = MDC_ATTR_UNIT_CODE attribute-value.length = 2 bytes j. IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE (INT-U16) attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32)</variable>		☐ attribute-value.length = 2 bytes
 □ 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-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-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-type = RelativeTime (INT-U32) 	f.	IF Not recommended attribute Metric-Id is present
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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)) 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-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32)</variable>		☐ attribute-value.length = 2 bytes
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attribute-value.length= <variable>(SEQUENCE OF OID-Type (INT-U16)) 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime attribute-value.length = 8 bytes l. IF Optional attribute Relative-Time-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32)</variable>		☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime attribute-value.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-type = MetricIdList
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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= <variable>(SEQUENCE OF OID-Type (INT-U16))</variable>
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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) 	h.	IF Not recommended attribute Metric-Id-Partition is present
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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-id = MDC_ATTR_METRIC_ID_PART
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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-type = NomPartition (INT-U16)
 attribute-id = MDC_ATTR_UNIT_CODE attribute-type = OID-Type(INT-U16) attribute-value.length = 2 bytes JF 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 JF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime attribute-value.length = 8 bytes JF Optional attribute Relative-Time-Stamp is present attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) 		☐ attribute-value.length = 2 bytes
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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) 	i.	IF Not recommended attribute Unit-Code is present
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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-id = MDC_ATTR_UNIT_CODE
 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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-type = OID-Type(INT-U16)
 attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE (INT-U16) attribute-value.length = 2 bytes IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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 = 2 bytes
 □ attribute-type = HANDLE (INT-U16) □ attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-type = AbsoluteTime □ 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) 	j.	IF Not recommended attribute Source-Handle-Reference is present
 □ attribute-value.length = 2 bytes k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_ABS □ attribute-type = AbsoluteTime □ 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-id = MDC_ATTR_SOURCE_HANDLE_REF
 k. IF the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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-type = HANDLE (INT-U16)
support PM-Store THEN Mandatory attribute Absolute-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_ABS attribute-type = AbsoluteTime 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 = 2 bytes
 □ attribute-type = AbsoluteTime □ 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) 	k.	
 □ 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-id = MDC_ATTR_TIME_STAMP_ABS
I. IF Optional attribute Relative-Time-Stamp is present □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-type = RelativeTime (INT-U32)		☐ attribute-type = AbsoluteTime
□ attribute-id = MDC_ATTR_TIME_STAMP_REL□ attribute-type = RelativeTime (INT-U32)		☐ attribute-value.length = 8 bytes
□ attribute-type = RelativeTime (INT-U32)	l.	IF Optional attribute Relative-Time-Stamp is present
		□ attribute-id = MDC_ATTR_TIME_STAMP_REL
Destribute value length. Abutes		□ attribute-type = RelativeTime (INT-U32)
☐ attribute-value.length = 4 bytes		☐ attribute-value.length = 4 bytes
m. IF Optional attribute HiRes-Time-Stamp is present	m.	IF Optional attribute HiRes-Time-Stamp is present

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

TP ld		TP/PLT/PHD/CLASS/GL/BV-014				
TP label		Context Tester Enumeration Object - Extended Configuration				
Coverage	Spec	[ISO/IEEE 11073-10417]				
	Testable	EnumObj 3; 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		
		EnumObj 24; O	ContextTester 1; M	ContextTester 2; M		
		ContextTester 3; M				
Test purpose	•	Check that:				
		Configuration.	ation Object contains the attribute	s specified for Extended		
Applicability		C_AG_OXP_000 AND	C_AG_OXP_178 AND C_AG_OX	(P_181 AND C_AG_GL_010		
Other PICS		C_AG_OXP_041, C_AC	G_OXP_183, C_AG_OXP_189			
Initial conditi	ion	The simulated PHG and	the PHD under test are in the U	nassociated state.		
Test procedu	ıre	The simulated PHG	receives an association request	from the PHD under test.		
		2. The simulated PHG	G responds with a result = accepted	ed-unknown-config.		
			with a "Remote Operation Invoke IDC_NOTI_CONFIG event to sen			
		4. Check that the field	I Dev-Config-Id is in the extended	range, if it is not, the simulated PHG		
		•	an "unsupported-config" and wait			
		5. Once the PHD und Enumeration Object		uration, check that all Context Meal		
		a. Mandatory attr	ibute Type			
		☐ attribute-io	d = MDC_ATTR_ID_TYPE			
		☐ attribute-ty	ype = TYPE			
			alue = MDC_PART_PHD_DM (0: XT_GLU_TESTER (0x72 0x5C)	x00 0x80),		
		b. IF Not recomm	ended attribute Supplemental-Ty	pes is present		
		☐ attribute-io	d = MDC_ATTR_SUPPLEMENTA	AL_TYPES		
		☐ attribute-ty	ype = SupplementalTypeList			
		☐ attribute-v	alue.length = <variable> (Sequen</variable>	ce of TYPE (TYPE.length= 4 bytes))		
		c. Mandatory attr	ibute Metric-Spec-Small			
		☐ attribute-io	d = MDC_ATTR_METRIC_SPEC	_SMALL		
		□ attribute-ty	ype = MetricSpecSmall (BITS-16)			
		☐ attribute-v	alue.length =2 bytes			
		☐ attribute-v	alue ≠ 0x00 0x00			
		• Bit 0 r	must be set (mss-avail-intermitter	nt(0))		
		• Bit 1 r	must be set (mss-avail-stored-dat	a(1))		
		• Bit 2 r	must be set (mss-upd-aperiodic(2	(1)		
		• Bit 3 r	must be set (mss-msmt-aperiodic	(3))		
		• Bit 9 r	must be set (mss-acc-agent-initia	ted(9))		
		• Bit 12	may be set (mss-cat-manual(12))		
		d. IF Not recomm	nended attribute Metric-Structure-	Small is present		
L				•		

	□ 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 PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	□ attribute-type = AbsoluteTime
	☐ 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 PM-Store then mandatory attribute Enum-Observed-Value-Simple-OID

	1	
		□ 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_TESTER_SELF (0x72 0x60) OR
		 MDC_CTXT_GLU_TESTER_HCP (0x72 0x64) OR
		 MDC_CTXT_GLU_TESTER_LAB (0x72 0x68)
	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-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		

	EnumC	Obj 24; O	ContextHealth 1; M	ContextHealth 2; M		
	Contex	tHealth 3; M				
Test purpose	Check	Check that:				
	Contex Configu		tion Object contains the attribute	es specified for Extended		
Applicability	C_AG_	OXP_000 AND C	_AG_OXP_178 AND C_AG_O	(P_181 AND C_AG_GL_011		
Other PICS	C_AG_	C_AG_OXP_041, C_AG_OXP_183, C_AG_OXP_189				
Initial condition	The sin	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.			from the PHD under test.		
	The simulated PHG responds with a result = accepted-unknown-config.		ed-unknown-config.			
			with a "Remote Operation Invoko DC_NOTI_CONFIG event to ser			
			Dev-Config-Id is in the extended n "unsupported-config" and wait	I range, if it is not, the simulated PHO for a new configuration.		
		nce the PHD unde numeration Objects		uration, check that all Context Meal		
	a.	Mandatory attrib	oute Type			
		□ attribute-id	= MDC_ATTR_ID_TYPE			
		□ attribute-typ	oe = TYPE			
			lue = MDC_PART_PHD_DM (0. T_GLU_HEALTH (0x72 0x5C)	x00 0x80),		
	b.	IF Not recomme	ended attribute Supplemental-Ty	pes is present		
		□ attribute-id	= MDC_ATTR_SUPPLEMENTA	AL_TYPES		
		□ attribute-typ	e = SupplementalTypeList			
		□ attribute-va	lue.length = <variable> (Sequen</variable>	ce of TYPE (TYPE.length= 4 bytes))		
	c.	Mandatory attrib	oute Metric-Spec-Small			
		□ attribute-id	= MDC_ATTR_METRIC_SPEC	_SMALL		
		□ attribute-typ	pe = MetricSpecSmall (BITS-16)			
		□ attribute-va	lue.length =2 bytes			
		□ attribute-va	lue ≠ 0x00 0x00			
		• Bit 0 m	ust be set (mss-avail-intermitter	nt(0))		
		• Bit 1 m	ust be set (mss-avail-stored-dat	ta(1))		
		• Bit 2 m	ust be set (mss-upd-aperiodic(2	2))		
		• Bit 3 m	ust be set (mss-msmt-aperiodic	:(3))		
		• Bit 9 m	ust be set (mss-acc-agent-initia	ted(9))		
		• Bit 12 i	may be set (mss-cat-manual(12)))		
	d.	IF Not recomme	ended attribute Metric-Structure-	Small is present		
		□ attribute-id	= MDC_ATTR_METRIC_STRU	CTURE_SMALL		
		□ attribute-typ	e = MetricStructureSmall			
			lue.length = <variable>(Sequenomp-no =1byte(INT-U8)))</variable>	ce of (ms-struct.length =1byte(INT-		
	e.	IF Not recomme	nded attribute Measurement-St	atus is present		
		□ attribute-id	= MDC_ATTR_MSMT_STAT			
			pe = 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 the PHD supports fixed or variable format MDS event report and it does not support PM-Store THEN Mandatory attribute Absolute-Time-Stamp
	☐ attribute-id = MDC_ATTR_TIME_STAMP_ABS
	☐ attribute-type = AbsoluteTime
	☐ attribute-value.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

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

TP ld		TP/PLT/PHD/CLASS/GL/BV-016					
TP label		PM-Store Attributes for Extended Configuration					
Coverage	Spec	[ISO/IEEE 11073-10417]	<u> </u>				
	Testable	PMStrObjAtt 1; M	PMStrObjAtt 5; M	PMStrObjAtt 6; M			
	items	PMStrObjAtt 8; M	PMStrObjAtt 9; R	PMStrObjAtt 12; M			
Test purpose	e	Check that: PM-Store Object 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 PICS							
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.			D responds with a "Remote Operation Invoke Confirmed Event Report" e with an MDC_NOTI_CONFIG event to send its configuration to the PHG.
	4.	The	har	ndle for the PM-Store attribute must be:
		a.	Ма	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.			ulated 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	PH	D issues a GET response with the PM-Store attributes it supports:
		a.	Ма	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.	Ма	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.	Ма	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 I	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 ld		TP/PLT/PHD/CLASS/GL/BV-017					
TP label		PM Segment Object for Extended Configuration					
Coverage	Spec	[ISO/IEEE 11073-10417]					
	Testable	PMStoreObj 8; M	PMStoreObj 9; O	PMStoreObj 10; M			
	items	PMStoreObj 11; O	PMSegObj 6; M	PMSegObj 7; M			
		PMSegObj 8; M	PMSegObj 10; M				
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 PICS	
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. Mandatory attribute Segment-Start-Abs-Time
	□ attribute-id = MDC_ATTR_TIME_START_SEG
	□ attribute-type = AbsoluteTime
	attribute-value.length = 8 bytes
	□ attribute-value =
	• century =
	• year ≤ 99
	• month ≤ 12
	• day ≤ 31
	• hour ≤ 24
	• minute ≤ 60
	• second ≤ 60
	• sec-fractions ≤ 100
	c. Mandatory attribute Segment-End-Abs-Time
	attribute-id = MDC_ATTR_TIME_END_SEG
	□ attribute-type = AbsoluteTime
	□ attribute-value.length = 8 bytes
	□ attribute-value =
	• century =
	• year ≤ 99
	• month ≤ 12
	• day ≤ 31
	 hour ≤ 24
	• minute ≤ 60
	• second ≤ 60
	• sec-fractions ≤ 100
	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)			
	☐ SegmEntryElem: < Record the fields for later comparison>			
	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			
	At least one PM-Segment must reference the Common Glucose in its PM-Segm-Entry- Map			
	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 Id		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]					
	Testable Items	PMStoreObj 5; M	PMStoreObj 6; M	PMStoreObj 7; M			
Test purpose	•	Check that:					
		Any configuration with a PM Store for persistent storage shall disable PHD-initiated transmission and enable access to PM-Store transmissions					
Applicability		C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_OXP_041 AND C_AG_OXP_181					
Other PICS							
Initial conditi	on	The simulated PHG and the PHD under test are in the Operating state.					
Test procedu	ire	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.					
		4. Check event reports that are sent by the PHD.					
Pass/Fail criteria		In step 4, the PHD shall not send the data with MDS event reports.					
Notes							

TP Id		TP/PLT/PHD/CLASS/GL/BV-018						
TP label		Communication Model: Association Procedure						
Coverage	Spec	[ISO/IEEI	E 11073-10417]	1073-10417]				
	Testable	AgProcAs	s 1; M	AgProcAs 2; M	AgProcAs 4; M			
	items	AgProcAs	s 5; M	AgProcAs 6; M	AgProcAs 7; M			
		AgProcAs	s 8; M	AgProcAs 9; M	AgProcAs 10; M			
		AgProcAs		AgProcAs 12; M	MDSMethods 3;M			
		AgProcAs		7.19. 100/10 12, 111	z cz c,			
Test purpose		Check the	at: ciation procedure data	a evchange is correct				
A II I- II I			-	-				
Applicability			XP_000 AND C_AG_0					
Other PICS		C_AG_O	XP_002, C_AG_OXP_	_017				
Initial conditi	on	The simu	The simulated PHG and the PHD under test are in the Unassociated state.					
Test procedu	re	by the a	re PHD are: APDU Type field- type = Aarq/ field-length = 2 byt field-value = 0xE2 assoc-version field- type = Assoc field-length = BITS field- value=0x80 data-proto-id field- type = Datal field-length = 2 byt field- value=0x50 protocol-version field- type = Proto field-length = 4 byt field- value=0x80 encoding rules field- type = Enco field-length = 2 byt field- value=0x80 encoding rules field-length = 2 byt field- value=0x80 encoding rules field-length = 2 byt field- value=	Apdu tes 0x00. ciationVersion 3-32 0x00 0x00 0x00 ProtoId(INT-U16) tes 0x79 (20601) col Version rtes 0x00 0x00 0x00 dingRules rtes set (support for MDER) and 2 (PER) may be set must be 0.	PHG, the expected fields sent			

			field-length = 4 bytes
			field- value=0x80 0x00 0x00 0x00
			This value indicates version1 is supported (nom-version1(0) is set).
	g.	fun	ctional – units
			field- type = FunctionalUnits
			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.	Sys	stem type
			field- type = SystemType
			field-length = 4 bytes
			field- value = 0x00 0x80 0x00 0x00 (sys-type-agent)
	i.	Sys	stem-Id
			field- type = OCTET STRING
			field-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	v-config-id
			field- type = ConfigId(INT-U16)
			field-length = 2 bytes
			field- value =
			0x06 0xA4 OR 0x06 A5 for Standard Configuration.
			 <between 0x00="" 0x40="" 0x7f="" 0xff="" and=""> for Extended Configuration.</between>
	k.	dat	a-req-mode-flags (DataReqModeCapab)
			field- type = DataReqModeFlags
			field-length = 2 bytes
			 If the PHD supports agent-initiated measurement transfer → Bit 15 is set (data-req-supp-init-agent(15))
			 If the PHD supports requesting objects based on the object handle → Bit 6 will be set (data-req-supp-scope-handle(6)).
			 If the PHD supports single response → Bit 8 will be set (data-req-supp-mode-single-rsp(8)).
			 If the PHD supports time unlimited data request →Bit 10 will be set (data-req-supp-mode-time-no-limit(10)).
	I.	dat	a-req-init-agent-count (DataReqModeCapab)
			field- type = INT-U8
			field-length = 2 bytes
			field.value = 0x01
	m.	dat	a-req-init-manager-count (DataReqModeCapab)
			field- type = INT-U8
			field-length = 2 bytes
			field.value = 0x00
Pass/Fail criteria	All chec	ked	values are as specified in the test procedure.

Notes	

TP ld		TP	/PI T/PHI	D/CLASS/GL/BV-01	<u> </u>			
TP label								
			PM Segment Object for Extended Configuration					
Coverage	Spec	[ISO/IEEE 11073-10417]						
	Testable items	PM	StrObjM	eth 1; M				
Test purpose)		Check that:					
		Glu	icose Me	ter supports the Cle	ear-Segments method with Cor	nfirmed mode		
Applicability		C_/	AG_OXP	_000 AND C_AG_0	OXP_178 AND C_AG_OXP_04	41 AND C_AG_OXP_071		
Other PICS								
Initial conditi	ion			ed PHG and the PH M-Segment with dat	ID under test are in the Operat a stored.	ing state and the PHD has at		
Test procedu	ıre	1.	Take m	easurements with t	he PHD of a value that is store	d on a PM-Segment.		
		2.		nulated PHG shall s to 0 to indicate all P		Store object with an attribute-id-		
		3.						
		4.	 The simulated PHG shall send a Get-Segment-Info object action with segmSelection set to all-segments to check that there are no Segments in use. 					
		5.	5. The simulated PHG sends a Clear-Segment to all segments:					
			a. Da	ta APDU				
				Type = Invoke C	onfirmed Action,			
				HANDLE = obj-ha	andle			
				Action = MDC_AC	CT_SEG_CLEAR			
				SegmSelection =	all-segments			
		6.	The PH	D under test operat	tion response:			
			a. Da	ta APDU				
				Type = Response	Confirmed Action,			
				HANDLE = obj-ha	andle			
				Action = MDC_AC	CT_SEG_CLEAR			
		7.	Delay					
		8. The simulated PHG sends a request for the PM-Segment Data with SegmSelection = all segments to obtain all the segments:						
			a. Da	ta APDU				
				Type = Invoke C	onfirmed Action,			
				HANDLE = obj-ha	andle			
				Action = MDC_AC	CT_SEG_TRIG_XFER			
					<instance action="" ear-segment="" number="" of="" selece="" the=""></instance>	ted PM-Segment that contained		
		9.	The PH	D issues an action	response with the Data			
			a. Da	ta 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
		ELSE TrigSegmXferRsp = tsxr-fail-no-such-segment
Pass/Fail criteria	All checked	values are as specified in the test procedure.
Notes		

TP ld		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 purpose	e	Check that:					
		Service component reports configuration changes to future measurements only					
Applicability		C_AG_OXP_000 AND C_AG_OXP_178 AND C_AG_GL_022					
Other PICS							
Initial condit	ion	The simulated PHG and the PHD under test are in the Operating state.					
Test procedu	ure	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.					
		Wait for the PHG to receive new event reports from the PHD, which report the measurements from step 4.					
Pass/Fail cri	teria	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 ld		TP/PLT/PHD/CLASS/GL/BV-021		
TP label		Operating State. PHG to PHD Maximum APDU Size		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	CommonCharac 3; M		
	Spec	[ISO/IEEE 11073-10417]		
	Testable items	ComChar 2; M		

Test purpose	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 PICS	C_AG_OXP_041, C_AG_OXP_100				
Initial condition	The simulated PHG and the PHD are in the Operating state.				
Test procedure	The simulated PHG issues a "Remote Operation Invoke Get" command with:				
	a. Obj-handle set to 0 (to request for MDS object)				
	b. attribute-id-list.count = 103				
	 attribute-id-list: (MDC_ATTR_ID_MODEL, MDC_ATTR_SYS_ID, MDC_ATTR_DEV_CONFIG_ID) repeated 34 times followed by an additional MDC_ATTR_ID_MODEL 				
	2. Check the response of the PHD.				
	3. The simulated PHG issues a "Remote Operation Invoke Get" command with the handle set to 0 (to request for MDS object) and an empty attribute-id-list to indicate all attributes.				
	4. Check the response of the PHD.				
Pass/Fail criteria	 In step 2, the PHD under test may respond with a rors-cmip-get listing all the requested attributes, or with a roer 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. 				
	 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): 				
	 Pulse oximeter -> 9216 octets 				
	 Weighing scales -> 896 octets 				
	 Glucose meter -> 5120 octets or 64512 octets if the PHD supports PM-Store 				
	 Blood pressure -> 896 octets 				
	■ Thermometer -> 896 octets				
	 Independent activity hub -> 5120 octets 				
	 Cardiovascular -> 64512 octets or 6624 octets if the PHD under test only supports a Step Counter Profile 				
	■ Strength -> 64512 octets:				
	 Adherence monitor -> 1024 octets 				
	■ Peak flow -> 2030 octets				
	 Body composition analyser -> 7730 octets 				
	 Basic ECG/Simple ECG -> 7168 octets or 64512 octets if the PHD supports a PM-Store 				
	 Basic ECG/Heart rate -> 1280 octets or 64512 octets if the PHD supports a PM- Store 				
	 International normalized ratio -> 896 octets or 64512 if the PHD supports a PM- Store 				
	 If it responds with a roer, the reason must not be a protocol-violation (23) 				
	In step 4, the PHD must respond with a rors-cmip-get message.				
Notes					

TP Id		TP/PLT/PHD/CLASS/GL/BV-022			
TP label		Blood Glucose measurement above the capabilities of the device sensor			
Coverage	Spec	[ISO/IEEE 11073-10417]			
	Testable items	BloodGL 29; M			
Test purpose	9	Check that:			
		In Standard Configuration 1701 (0x06A5), 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 C_AG_GL_024 AND (NOT_C_AG_OXP_181)			
Other PICS					
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.			
		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 = 0x07FE			
		Absolute-Time-Stamp = <not case="" for="" relevant="" test="" this=""></not>			
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.			

TDU		TRIPLE IN TRIPLE (CLASSICAL INV. CO.)		
TP Id		TP/PLT/PHD/CLASS/GL/BV-023		
TP label		Blood Glucose measurement below the capabilities of the device sensor		
Coverage	Spec	[ISO/IEEE 11073-10417]		
	Testable items	BloodGL 30; M		
Test purpose		Check that:		
		In Standard Configuration 1701 (0x06A5), a Blood Glucose measurement that is below 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 C_AG_GL_024 AND (NOT_C_AG_OXP_181)		
Other PICS				
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 below the capabilities of the device sensor and acquire a measurement 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		
	 Absolute-Time-Stamp = <not case="" for="" relevant="" test="" this=""></not> 		
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-024			
TP label		Control Solution measurement above the capabilities of the device sensor			
Coverage	Spec	[ISO/IEEE 11073-10417]			
	Testable items	CtrlSol 15; M			
Test purpose	9	Check that:			
		In Standard Configuration 1701 (0x06A5), 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 C_AG_GL_024 AND (NOT_C_AG_OXP_181)			
Other PICS					
Initial condition		The simulated PHG and the PHD under test are in the Operating state.			
Test procedure		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.			
		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			
		Absolute-Time-Stamp = <not case="" for="" relevant="" test="" this=""></not>			
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
Coverage	Spec	[ISO/IEEE 11073-10417]

	Testable items	CtrlSol 15; M			
Test purpose	•	Check that:			
		In Standard Configuration 1701 (0x06A5), a Control Solution measurement that is below 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 C_AG_GL_024 AND (NOT_C_AG_OXP_181)			
Other PICS					
Initial condition		The simulated PHG and the PHD under test a	re in the Operating state.		
Test procedure		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.			
		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 =	0x0802		
		Absolute-Time-Stamp = <no< th=""><th>ot relevant for this Test Case></th></no<>	ot relevant for this Test Case>		
Pass/Fail criteria All checked values are as specified in the test procedure.		procedure.			
		The vendor must provide a Control Solution will of the device sensor.	ith a blood glucose level below the capabilities		

Bibliography

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Test Case Reference List_DG2016_v1.11

http://handle.itu.int/11.1002/2000/12067

[b-TCRL]

SERIES OF ITU-T RECOMMENDATIONS

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Series E	Overall network operation, telephone service, service operation and human factors
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Series L	Environment and ICTs, climate change, e-waste, energy efficiency; construction, installation and protection of cables and other elements of outside plant
Series M	Telecommunication management, including TMN and network maintenance
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Series O	Specifications of measuring equipment
Series P	Telephone transmission quality, telephone installations, local line networks
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Series R	Telegraph transmission
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Series Z	Languages and general software aspects for telecommunication systems