ITU-T

H.842

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU (11/2019)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

E-health multimedia systems, 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 2: Optimized Exchange Protocol: Personal Health Gateway

Recommendation ITU-T H.842



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 $For {\it further details, please refer to the list of ITU-T Recommendations.}$

Recommendation ITU-T H.842

Conformance of ITU-T H.810 personal health system: Personal Health Devices interface Part 2: Optimized Exchange Protocol: Personal Health Gateway

Summary

Recommendation ITU-T H.842 provides a test suite structure (TSS) and the test purposes (TPs) for personal health gateways (PHGs) using the IEEE 11073-20601 optimized exchange protocol in the Personal Health Devices (PHD) interface, based on the requirements defined in the Recommendations of the ITU-T H.810 sub-series, of which Recommendation ITU-T H.810 (2017) is the base Recommendation. The objective of this test specification is to provide a high probability of interoperability at this interface.

Recommendation ITU-T H.842 is a transposition of Continua Test Tool DG2016, Test Suite Structure & Test Purposes, Personal Health Devices Interface; Part 2: Optimized Exchange Protocol: Personal Health Gateway (Version 1.8, 2017-03-14), 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*
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Keywords

Conformance testing, Continua Design Guidelines, e-health, IEEE 11073-20601 optimized exchange protocol, ITU-T H.810, personal area network, personal connected health devices, Personal Health Devices interface, Personal Health Gateway, 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/11.1002/1000/11830-en.

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

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

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

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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 2: Optimized Exchange Protocol: Personal Health Gateway (Version 1.8, 2017-03-14), 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_2_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_2_v1.2.doc" as a baseline and adds new features included in [b-CDG 2012]: • Adds glucose meter new spec version • Adds body composition analyser device specialization • Adds basic electrocardiograph device specialization
1.4	2014-01-24	Initial release for Test Tool DG2013. This uses "TSS&TP_DG2012_PAN-LAN_PART_2_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_2_v1.4.doc" as a baseline and adds new features included in Documentation Enhancements: • "Other PICS" row has been added
1.6	2015-07-01	Initial Release for Test Tool DG2015. It uses "TSS&TP_DG2013_PHT_PART_2_v1.5.doc" as a baseline and adds new features included in [ITU-T H.810 (2015)]/[b-CDG 2015]
1.7	2016-09-20	Initial release for Test Tool DG2016. It uses "TSS&TP_DG2015_PHT_PART_2_v1.6.doc" as a baseline and adds new features included in [ITU-T H.810 (2016)]/[b-CDG 2016]
1.8	2017-03-14	Updates the baseline in "TSS&TP_DG2016_PHD_PART_2_v1.7.doc" as part of the Maintenance 2016 activity: • Update the applicability row for TP/PLT/PHG/OXP/DIM/BV-046
1.9	2018-02-27	Updates related to the inclusion of the power status monitor of Personal Health Devices device specialization [ISO/IEEE 11073-10427] Updates related to the changes included in the glucose meter device specialization [ISO/IEEE 11073-10417]
1.10	2018-10-17	Updates related to the inclusion of the power status monitor of Personal Health Devices device specialization [ISO/IEEE 11073-10427] test cases.
1.11	2019-06-13	Second maintenance release for Test Tool DG2017. It uses ITU-T H.842 (08/2018) as a baseline and adds some updates according to the 2018/2019 maintenance activity.

Recommendation ITU-T H.842

Conformance of ITU-T H.810 personal health system: Personal Health Devices interface Part 2: Optimized Exchange Protocol: Personal Health Gateway

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 (PHD) interface based on the requirements defined in the Continua Design Guidelines (CDG) [ITU-T H.810 (2017)]. The objective of this test specification is to provide a high probability of interoperability at this interface.

The TSS and TP for the Personal Health Devices interface have been divided into the parts specified below. This Recommendation covers Part 2.

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

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 Annex A.

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

2 References

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

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

guidelines for personal health systems.

[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

[ISO/IEEE 11073-104xx] ISO/IEEE 11073-104xx (in force), Health informatics –

Personal health device communication – Device specialization. NOTE – This is shorthand used to refer to the collection of device specialization standards that utilize [ISO/IEEE 11073-20601-2015A], where xx can be any number from 01 to 99,

inclusive.

[ISO/IEEE 11073-10404] ISO/IEEE 11073-10404:2010, *Health informatics – Personal*

health device communication – Part 10404: Device

specialization – Pulse oximeter. https://www.iso.org/standard/54572.html

[ISO/IEEE 11073-10406] ISO/IEEE 11073-10406-2012, Health informatics – Personal

health device communication – Part 10406: Device

specialization – Basic electrocardiograph (ECG) (1- to 3-lead

ECG).

https://www.iso.org/standard/61876.html

[ISO/IEEE 11073-10407] ISO/IEEE 11073-10407:2010, Health informatics – Personal

health device communication – Part 10407: Device

specialization – Blood pressure monitor.

https://www.iso.org/standard/54573.html

[ISO/IEEE 11073-10408] ISO/IEEE 11073-10408:2010, Health informatics – Personal

health device communication – Part 10408: Device

specialization – Thermometer. https://www.iso.org/standard/54310.html [ISO/IEEE 11073-10415] ISO/IEEE 11073-10415:2010, Health informatics – Personal health device communication - Part 10415: Device specialization – Weighing scale. https://www.iso.org/standard/54310.html [ISO/IEEE 11073-10417] ISO/IEEE 11073-10417:2017, Health informatics – Personal health device communication – Part 10417: Device specialization – Glucose meter. https://www.iso.org/standard/70739.html [ISO/IEEE 11073-10418C] ISO/IEEE 11073-10418-2014, Health informatics – Personal health device communication – Part 10418: Device specialization – International Normalized Ratio (INR) monitor, including ISO/IEEE 11073-10418:2014/Cor 1:2016. https://www.iso.org/standard/61897.html with https://www.iso.org/standard/70740.html ISO/IEEE 11073-10419:2016, Health informatics – Personal [ISO/IEEE 11073-10419] health device communication - Part 10419: Device specialization – Insulin pump. https://www.iso.org/standard/69528.html [ISO/IEEE 11073-10420] ISO/IEEE 11073-10420-2012, Health informatics – Personal health device communication – Part 10420: Device specialization – Body composition analyzer. https://www.iso.org/standard/61055.html [ISO/IEEE 11073-10421] ISO/IEEE 11073-10421:2012, Health informatics – Personal health device communication - Part 10421: Device specialization – Peak expiratory flow monitor (peak flow). https://www.iso.org/standard/61056.html ISO/IEEE 11073-10424:2016, Health informatics – Personal [ISO/IEEE 11073-10424] health device communication – Part 10424: Device specialization – Sleep apnoea breathing therapy equipment (SABTE). https://www.iso.org/standard/68906.html NOTE – equivalent to IEEE 11073-10424-2014, Health informatics – Personal health device communication – Part 10424: Device Specialization – Sleep Apnoea Breathing Therapy Equipment (SABTE) http://dx.doi.org/10.1109/IEEESTD.2014.6911927 [ISO/IEEE 11073-10425] ISO/IEEE 11073-10425:2016, Health informatics – Personal health device communication – Part 10425: Device specialization – Continuous glucose monitor (CGM). https://www.iso.org/standard/67821.html [ISO/IEEE 11073-10427] ISO/IEEE 11073-10427:2018, Health informatics – Personal health device communication - Part 10427: Device specialization – Power Status Monitor of Personal Health Devices. https://www.iso.org/standard/73759.html. Same publication as https://standards.ieee.org/findstds/standard/11073-10427-2016.html. [ISO/IEEE 11073-10441] ISO/IEEE 11073-10441-2015, Health informatics – Personal Health Device Communication – Part 10441: Device *Specialization – Cardiovascular fitness and activity monitor,* (Revision of IEEE Std 11073-10441-2008). https://www.iso.org/standard/64868.html

[ISO/IEEE 11073-10442] ISO/IEEE 11073-10442:2015, Health informatics – Personal

health device communication – Part 10442: Device

specialization – Strength fitness equipment.

http://standards.ieee.org/findstds/standard/11073-10442-2008.html

[ISO/IEEE 11073-10471] ISO/IEEE 11073-10471:2010, Health informatics – Personal

health device communication – Part 10471: Device specialization – Independent living activity hub.

https://www.iso.org/standard/54328.html

[ISO/IEEE 11073-10472] ISO/IEEE 11073-10472-2012, *Health informatics – Personal*

health device communication - Part 10472: Device

specialization – Medication monitor. https://www.iso.org/standard/54364.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

MDS Medical Device System

NFC Near Field Communication

PAN Personal Area Network

PCT Protocol Conformance Testing

PHD Personal Health Device

PHDC Personal Healthcare Device Class

PHG Personal Health Gateway

PICS Protocol Implementation Conformance Statement

4 Rec. ITU-T H.842 (11/2019)

PIXIT Protocol Implementation extra Information for Testing

PSM Power Status Monitor

SABTE Sleep Apnoea Breathing Therapy Equipment

SCR Static Conformance Review

SDP Service Discovery Protocol

SOAP Simple Object Access Protocol

TCRL Test Case Reference List

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
2017	_	7.0	Release 2017 of the CDG including maintenance updates of the CDG 2016 and additional guidelines that cover new functionalities.	1
2016 plus errata	[ITU-T H.810 (2016)]	6.1	Release 2016 plus errata noting all ratified bugs [b-CDG 2016].	ı
2016	_	6.0	Release 2016 of the CDG including maintenance updates of the CDG 2015 and additional guidelines that cover new functionalities.	Iris
2015 plus errata	[b-ITU-T H.810 (2015)]	5.1	Release 2015 plus errata noting all ratified bugs [b-CDG 2015]. The 2013 edition of 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	_	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 subgroups 2.2.1, 2.2.2, 2.2.3 and 2.2.4 (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)
 - Subgroup 1.3.17: Power status monitor (PSM)
 - Group 1.4: Personal health device transcoding whitepaper (PHDTW)
 - Subgroup 1.4.1: Whitepaper general requirements (GEN)

- Subgroup 1.4.2: Whitepaper thermometer requirements (TH)
- Subgroup 1.4.3: Whitepaper blood pressure requirements (BPM)
- O 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)
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 - Subgroup 2.3.7: Strength (ST)
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 - O Subgroup 2.3.11: Peak flow (PF)
 - Subgroup 2.3.12: Body composition analyser (BCA)
 - Subgroup 2.3.13: Basic electrocardiograph (ECG)
 - Subgroup 2.3.14: International normalized ratio (INR)
 - Subgroup 2.3.15: Sleep apnoea breathing therapy equipment (SABTE)
 - Subgroup 2.3.16: Continuous glucose monitor (CGM)
 - Subgroup 2.3.17: Power status monitor (PSM)
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- Subgroup 2.4.4: Whitepaper heart rate requirements (HR)
- Subgroup 2.4.5: Whitepaper glucose meter requirements (GL)
- O 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. See [b-PHD PICS & PIXIT] and [b-PHG PICS & PIXIT] and [b-TI].

In the electronic attachment, letters "C" and "I" in the column labelled "Mandatory" are used to distinguish between "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 (DUT) 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 2.2.1: General (GEN)

There are no test cases defined in this subgroup.

A.3 Subgroup 2.2.2: PHD domain information model (DIM)

A.3 Sub	-81 vap 2.2	TP/PLT/PHG/OXP/DIM/BV-000_A								
TP label		Episodic Scanner object not supported								
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]								
	Testable items									
Test purpos	е	Che	ck t	hat:						
			Episodic Scanner object, declared by the vendor as "not supported", is really not supported by the Personal Health Gateway (PHG) under test.							
Applicability	<u>'</u>	C_N	ЛAN	_OXI	P_000 AND NOT(C_MAN_OXP_001)					
Other PICS		C_N	ЛAN	LOXI	P_083, C_MAN_OXP_084, C_MAN_OXP_085					
Initial condit	tion				d Personal Health Device (PHD) and the PHG under test are in the state.					
Test proced	ure	1.	The	e simı	ulated PHD sends an Association Request to the PHG.					
		2.		ort, Tl	HG under test responds with an Association Response (rejected-*) or an HEN the PHG shall not move to the Operating state and the test procedure					
		3.	3. IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to an extended Config-Id, including an episodic scanner object.							
			a.		ne PHG under test responds with rors-cmip-confirmed-event-report supported-config) or Release Request or Abort THEN:					
					IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.					
					IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.					
			b.		ne PHG under test responds with rors-cmip-confirmed-event-report (acceptedig) THEN:					
					IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state and PHG is forced to enable the scanner object.					
					IF C_MAN_OXP_085 THEN:					
					 The PHG under test moves to Configuring/Sending GetMDS substate and issues roiv-cmip-command with handle set to 0 (request for MDS object) and attribute-id-list set to 0 to indicate all attributes. 					
					 The simulated 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 and the mds-time-mgr-set-time bit is not set. 					
				i	iii. Once in Operating state PHG is forced to enable the scanner object.					
		4.	IF t	he Pl	HG under test responds with an Association Response (accepted) THEN:					
			a.		MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating e, PHG is forced to enable the scanner object.					
			b.	IF C	_MAN_OXP_085 THEN:					
					The PHG under test moves to Configuring/Sending GetMDS substate and issues roiv-cmip-command with handle set to 0 (request for MDS object) and attribute-id-list set to 0 to indicate all attributes.					

	The simulated 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 and the mds-time-mgr-set-time bit is not set.					
	Once in operating PHG is forced to enable the scanner object.					
Pass/Fail criteria	 In step 2 or step 3.a, the PHG does not move to the operating or Configuring/Setting GetMDS state. 					
	In step 3.b or step 4, the PHG does not send the Set action to enable the scanner object.					
Notes						

TP Id		TP/PLT/PHG/OXP/DIM/BV-000_B							
TP label		Periodic Scanner object not supported							
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]							
	Testable items								
Test purpos	ie	Check that:							
		Periodic Scanner object, declared by the vendor as "not supported", is really not supported by the PHG under test.							
Applicability	у	C_MAN_OXP_000 AND NOT(C_MAN_OXP_006)							
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085							
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.							
Test proced	lure	1. The simulated PHD sends an Association Request to the PHG.							
		2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN the PHG shall not move to Operating state and the test procedure ends.							
		 IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to an extended Config-Id, including a periodic scanner object. 							
		 a. IF the PHG under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or an Abort THEN: 							
		☐ IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.							
		☐ IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.							
		 IF the PHG under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN: 							
		☐ IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state and PHG is forced to enable the scanner object.							
		☐ IF C_MAN_OXP_085 THEN:							
		 The PHG under test moves to Configuring/Sending GetMDS substate and issues roiv-cmip-command with handle set to 0 (request for MDS object) and attribute-id-list set to 0 to indicate all attributes. 							
		 The simulated 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 and the mds-time-mgr-set-time bit is not set. 							
		iii. Once in Operating state PHG is forced to enable the scanner object.							
		4. IF the PHG under test responds with an Association Response (accepted) THEN:							
		 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state, PHG is forced to enable the scanner object. 							
		b. IF C_MAN_OXP_085 THEN:							

	☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues roiv-cmip-command with handle set to 0 (request for MDS object) and attribute-id-list set to 0 to indicate all attributes.
	The simulated 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 and the mds-time-mgr-set-time bit is not set.
	Once in Operating state PHG is forced to enable the scanner object.
Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the operating or Configuring/Setting GetMDS state
	 In step 3.b or step 4, the PHG does not send the Set action to enable the scanner object
Notes	

TP ld	TP/PLT/PHG/OXP/DIM/BV-000_C											
TP label	PM-Store object not supported											
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]										
	Testable items	Į. C. C.										
Test purpos	ie .	Chec	k that:									
			tore ob under		declared b	y the ve	ndor as "r	not support	ted", is	s really n	ot supporte	d by the
Applicability	/	C_MA	XO_NA	P_000	ON DNA	T(C_MA	N_OXP_	003)				
Other PICS		C_MA	XO_NA	P_083	3, C_MAN	OXP_0	84, C_M	AN_OXP_0	085			
Initial condi	tion	The s	imulate	ed PH	D and the	PHG un	der test a	re in the U	Jnasso	ciated st	tate.	
Test proced	ure	1. T	he sim	ulated	d PHD sen	ids an A	ssociation	Request t	to the	PHG.		
											ejected-*) or est procedu	
		С	3. IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to an extended Config-Id, including a PM-Store object.									
		 a. IF the PHG under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or an Abort THEN: 										
			☐ IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.									
			☐ IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.					Sending				
		b			IG under to d-config) T		onds with	a rors-cmi	ip-con	firmed-e	vent-report	
								N_OXP_0 ed to enab			PHG moves object.	to
				IF C	_MAN_OX	(P_085	THEN:					
				i.	and issue	es roiv-c	mip-comr		handl	e set to C	GetMDS so (request fo cributes.	
				ii.	which the	e attribut	e-list con		of all	impleme	service mes nted attribut ot set.	
				iii.	Once in (Xfer) the			HG is force	ed to t	rigger (T	rig-Segmen	t-Data-
		4. II	F the P	HG ur	nder test r	esponds	with an A	Association	n Resp	onse (ad	ccepted) TH	EN:
		а						XP_084 T Segment-D			moves to C PM-Store.	perating

	b. IF C_MAN_OXP_085 THEN:					
	The PHG under test moves to Configuring/Sending GetMDS substate and issues roiv-cmip-command with handle set to 0 (request for MDS object) and attribute-id-list set to 0 to indicate all attributes.					
	The simulated 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 and the mds-time-mgr-set-time bit is not set.					
	 Once in Operating state PHG is forced to trigger (Trig-Segment-Data-Xfer) the PM-Store. 					
Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the operating or Configuring/Sending GetMDS state					
	In step 3.b or step 4, the PHG does not send the Trig-Segment-Data-Xfer action					
	Once in the Operating state, the PHG does send actions for the PM-Store (Get- Segment-Info, Clear-Segment or GET for PM-Store object)					
Notes						

TP ld		TP/PLT/PHG/OXP/DIM/BV	-001						
TP label		PHG configuring a real-time clock							
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]							
	Testable items	MDSMethod 3;M							
	Spec	[b-ITU-T H.810 (2015)]							
	Testable items	Communication 14;M							
Test purpos	se	Check that:							
		The PHG when invoking the action request.	e Set-Time method shall do so u	sing a roiv-cmip-confirmed-					
		[AND]							
		If the PHD has the mds-time-mgr-set-time bit set, the PHG shall invoke the Set-Time action command to set the absolute time on the PHD							
		[AND]							
		The Set-Time shall be sent within a TO _{config} time period after receiving the attribute from an MDS Get message							
Applicabilit	y	C_MAN_OXP_000							
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085							
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state. The PHD has the MDSTimeInfo attribute with the mds-time-mgr-set-time and mds-time-capab-set-clock bits set.							
Test proced	lure	The simulated PHD sends an Association Request to the PHG under test.							
		2. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN:							
		 a. IF the PHG under test sends a GET request while it is in the Configuring state, within TOconfig seconds the PHG shall set the time of the simulated PHD, ELSE wait until the Operating state is reached. 							
		 If the PHG under test did not send a GET request, then force the PHG under test to request MDS attributes. 							
		 The simulated PHD sends a rors-cmip-get with MDS attributes (with the mds- time-mgr-set-time bit set). 							
		3. IF C_MAN_OXP_085	THEN:						
		PHG under test sends a GET request while it is in Configuring/Sending GetMDS substate.							

		 The simulated PHD sends rors-cmip-get with MDS attributes (with the mds-time- mgr-set-time bit set). 	
	4.	After receiving MDS attributes within TO_{config} seconds, the PHG under test shall set the time of the simulated PHD:	
		a. Data APDU	
		☐ Type = Remote Operation Invoke Confirmed Action	
		☐ Handle = 0 (MDS object)	
		☐ Action = 0x0C 0x17 (MDC_ACT_SET_TIME)	
		□ SetTimeInvoke = SEQUENCE:	
		date-time.length = 8 bytes	
		date-time.value = <record comparison="" for=""></record>	
		Accuracy = 0	
Pass/Fail criteria	•	The format of the received message must be the one specified	
	•	Verify that the time is set to the time of the PHG under test	
	•	Verify that Set-Time is sent within the TOconfig time period after receiving the rors- cmip-get with MDS attributes, in the Configuring state (step 2a or 3b) or the Operating state (step 2c)	
Notes			

TP ld	TP Id TP/PLT/PHG/OXP/DIM/BV-001_A				
TP label		PHG configuring a Base-Offset-Time clock			
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
.	Testable items		lethod 5;M	AbsTime 18; M	
Test purpos	ie	Check	that:		
		The PHG when invoking the Set-Base-Offset-Time method shall do so using a roiv-cmip-confirmed-action request.			
		[AND]			
			et-Base-Offset-Time s te from an MDS Get n	hall be sent within a TO _{config} time nessage	e period after receiving the
Applicability	у	C_MA	N_OXP_000 AND (C	MAN_OXP_029 OR C_MAN_O	XP_030)
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085			
Initial condition		The simulated PHD and the PHG under test are in the Unassociated state. The PHD has the MDSTimeInfo attribute with the mds-time-capab-set-clock(1), mds-time-capab-botime(7) and mds-time-mgr-set-time(11) bits set.			
Test proced	lure	The simulated PHD sends an Association Request to the PHG under test.			
		2. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN:			
		a.	a. If the PHG under test sends a GET request while it is in the Configuring state, within TO _{config} seconds the PHG shall set the time of the simulated PHD, ELSE wait until the Operating state is reached.		
		b.	 If the PHG under test did not send a GET request, then force the PHG under to request MDS attributes. 		then force the PHG under test
		 The simulated PHD sends a rors-cmip-get with MDS attributes (the bits mds-time capab-bo-time(7) and mds-time-mgr-set-time(11) are set). 			
			3. IF C_MAN_OXP_085 THEN:		
			PHG under test ser substate.	nds a GET request while it is in C	Configuring/Sending GetMDS
		 The simulated PHD sends rors-cmip-get with MDS attributes (the bits mds-time-capab-bo-time(7) are mds-time-mgr-set-time(11) are set). 			

	 After receiving MDS attributes within TOconfig seconds, the PHG under test shall set the time of the simulated PHD: 	
	a. Data APDU	
	☐ Type = Remote Operation Invoke Confirmed Action	
	☐ Handle = 0 (MDS object)	
	☐ Action = 0x0C 0x1D (MDC_ACT_SET_BO_TIME)	
	☐ SetBOTimeInvoke = SEQUENCE:	
	date-time.length = 8 bytes	
	date-time.value = <record comparison="" for=""></record>	
Pass/Fail criteria	The format of the received message must be the one specified	
	Verify that the time is set to the time of the PHG under test	
	 Verify that a Set-Base-Offset-Time is sent within the TOconfig time period after receiving the rors-cmip-get with MDS attributes, in the Configuring state (step 2a or 3b) or the Operating state (step 4) 	
Notes		

TP ld		TP/PLT/PHG/OXP/DIM/BV-00)2			
TP label		MDS services. PHG requesting MDS object attributes				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
_	Testable items	MDSService 3;O	MDSService 5; R	ConfEventRep 5; O		
Test purpos	se	Check that:				
		The PHG may request the MDS object attributes of the PHD in which case the PHG shall send the "Remote Operation Invoke Get" command (see roiv-cmip-get in B.10.2) with the reserved handle value of 0				
		[AND]				
			utes reported in the MDS Object after sending the Association F			
		Even if PHG knows the PHD's device configuration, the PHG may ask to enter the Configuring state in order to check attributes from the MDS object before deciding to accept the association.				
Applicability	у	C_MAN_OXP_000				
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085				
Initial condi	tion	The simulated PHD and the F	HG under test are in the Unass	sociated state.		
Test proced	lure	 The simulated PHD sends and Association Request to the PHG under test with an extended dev-config-id previously unknown to the PHG. 				
		2. The PHG under test sends an AARE with an "accepted-unknown-config".				
		3. Check that the PHG under test has sent the GET request while it is in the Configuring state.				
		4. The simulated PHD sends a configuration event report.				
		5. The PHG responds to the configuration event report.				
		6. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG under test reaches the Operating state.				
		7. IF C_MAN_OXP_085 TH	EN:			
		 a. PHG under test send substate. 	ls a GET request while it is in C	configuring/Sending GetMDS		
			sends rors-cmip-get with MDS as mds-time-mgr-set-time(11) are			

	If the PHG under test did not automatically send a GET request for the MDS object or if it has not sent the GET request while in the Configuring state, force the PHG under test to send a GET to the MDS.		
	Whether the above Get request was sent via automatic behavior or was forced, the received message from the PHD shall be:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	☐ field-value= <not for="" relevant="" test="" this=""></not>		
	c. CHOICE		
	☐ field-value = 0x01 0x03 (Remote Operation Invoke Get)		
	d. obj-handle		
	☐ field-type = HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = 0		
	e. attribute-id-list		
	$\Box count = 0x00 \ 0x00$		
	□ length = $0x00 0x00$		
Pass/Fail criteria	The format of the received message shall be the one specified		
	It is recommended that the GET MDS is received while PHG under test is in the Configuring state.		
	NOTE: If the GET request for the MDS object is received from the PHG under test while in the Configuring state, it is checked in accordance step 9 above.		
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-004_A			
TP label		PM-Store object methods. Clear-Segments method 1 (all-segment).			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	PM-StoreMeth 9; O	PM-StoreMeth 18; O	PM-StoreMeth 24; C	
Test purpos	е	Check that:			
		Support for the Clear-Segmer	nts method is optional.		
		[AND]			
		If a PHG invokes the Clear-Segments method, it shall use operation type roiv-cmip-confirmed-action.			
		If a PHG invokes the Clear-Segments method, it shall use the Action-type MDC_ACT_SEG_CLR			
		If a PHG invokes the Clear-Segments method, it shall use the action-info-args SegmSelection structure (all-segments)			
		[AND]			
The PHG shall support at least the all segments choice in the SegmSelection action args of the Clear-Segments method			SegmSelection action-info-		
Applicability	Applicability C_MAN_OXP_000 AND C_MAN_OXP_003 AND (C_MAN_OXP_040 OR C_MAN_OXP_041 OR C_MAN_OXP_042)			OXP_040 OR	
Other PICS					

Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab bits 4 and 10 set.			
Test procedure		feature exists such that the PHG can clear the segments:		
-	1. Ma	ke the PHG under test perform a Clear Segment with parameter all-segments.		
	IF the PHG under test can clear the segments automatically after a transfer, then perform the action to clear the segments.			
	Either v	Either way:		
	2. The	e simulated PHD receives the message:		
	a.	APDU Type		
		ield-length = 2 bytes		
		ield-value = 0xE7 0x00 (PrstApdu)		
	b.	invoke-id		
		☐ field-type = InvokeIDType		
		☐ field-length = 2 bytes		
		ield-value= This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.		
	C.	c. CHOICE		
		□ value = 0x01 0x07 (roiv-cmip-confirmed-action)		
	d.	. obj-handle		
		☐ field-type = HANDLE		
		☐ field-length = 2 bytes		
		☐ field-value = <handle an="" existing="" of="" pm-store=""></handle>		
	e.	action-type		
		☐ field-type = OID-Type		
		☐ field-length = 2 bytes		
		ield-value = 0x0C 0x0C (MDC_ACT_SEG_CLR)		
	f.	action-info-args		
		□ SegmSelection =		
		all-segments (0)		
Pass/Fail criteria	The for	mat of the received message must be the one specified above.		
Notes				

TP ld		TP/PLT/PHG/OXP/DIM/BV-004_B			
TP label	TP label PM-Store Class methods. Clear-Segments method 2 (Time Range).		ange).		
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items				
Test purpos	e	Check that:			
		Support for the Clear-Segments method is optional.			
		[AND]			
		If a PHG invokes the Clear-Segments method, it shall use operation type roiv-cmip-confirmed-action.			
		If a PHG invokes the Clear-Segments method, it shall use the Action-type MDC_ACT_SEG_CLR			
		If a PHG invokes the Clear-Segments method, it shall use the action-info-args SegmSelection structure (AbsTimeRange)			

Applicability	C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_041		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab bits 4, 8 and 10 set.		
Test procedure	 IF a UI feature exists such that the PHG can clear the segments: 1. Make the PHG under test perform a Segment Clear with parameter SegmSelection = AbsTimeRange 		
	IF the PHG under test can clear the segments automatically after a transfer, perform the action.		
	Either way:		
	2. Make the PHG under test perform a Segment Clear by time range.		
	3. The simulated PHD receives the message:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	field-value = This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.		
	c. CHOICE		
	□ value = 0x01 0x07 (roiv-cmip-confirmed-action)		
	d. obj-handle		
	☐ field-type = HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = <handle an="" existing="" of="" pm-store=""></handle>		
	e. action-type		
	☐ field-type = OID-Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0x0C 0x0C (MDC_ACT_SEG_CLR)		
	f. action-info-args		
	☐ SegmSelection = AbsTimeRange		
	from-time = AbsTime		
	■ to-time = AbsTime		
Pass/Fail criteria	The format of the received message must be the one specified above.		
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-004_C		
TP label		PM-Store Class methods. Clear-Segments method 3 (segm-id-list)		
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
Testable items		PM-StoreMeth 9; O	PM-StoreMeth 18; O	
Test purpose		Check that: Support for the Clear-Segments method is optional.		
		[AND]		

	If a PHG invokes the Clear-Segments method, it shall use operation type roiv-cmip-confirmed-action.			
	If a PHG invokes the Clear-Segments method, it shall use the Action-type MDC_ACT_SEG_CLR			
	If a PHG invokes the Clear-Segments method, it shall use the action-info-args SegmSelection structure (segm-id-list)			
Applicability	C_MAN_O	XP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_042		
Other PICS				
Initial condition		ted PHD and the PHG under test are in the Operating state. The simulated PHD one segment with data stored and PMStoreCapab bits 4, 7 and 10 set.		
Test procedure	IF a UI feat	ure exists such that the PHG can clear the segments:		
	Make the segm-in-	he PHG under test perform a Segment Clear with parameter SegmSelection = d-list.		
	IF the PHG action.	under test can clear the segments automatically after a transfer, perform the		
	Either way:			
	2. Make t	he PHG under test perform a Segment Clear of a specific Segment.		
	3. The sir	nulated PHD receives the message:		
	a. AF	PDU Type		
		field-length = 2 bytes		
		field-value = 0xE7 0x00 (PrstApdu)		
	b. inv	voke-id		
		field-type = InvokeIDType		
		field-length = 2 bytes		
		field-value = This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.		
	c. Ch	HOICE		
		value = 0x01 0x07 (roiv-cmip-confirmed-action)		
	d. ob	j-handle		
		field-type = HANDLE		
		field-length = 2 bytes		
		field-value = <handle an="" existing="" of="" pm-store=""></handle>		
	e. ac	tion-type		
		field-type = OID-Type		
	☐ field-length = 2 bytes			
		field-value = 0x0C 0x0C (MDC_ACT_SEG_CLR)		
	f. ac	tion-info-args		
		SegmSelection = segm-id-list (must contain the instance number of the selected Segment)		
Pass/Fail criteria	The format	of the received message must be the one specified above.		
Notes				

TP Id		TP/PLT/PHG/OXP/DIM/BV-004_D		
TP label		PM-Store Class methods. Clear-Segments method 4 (Base-Offset-Time Range)		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	PM-StoreMeth 9; O PM-StoreMeth 18; O		

Test purpose	Check that:		
	Support for the Clear-Segments method is optional.		
	[AND]		
	If a PHG invokes the Clear-Segments method, it shall use operation type roiv-cmip-confirmed-action.		
	If a PHG invokes the Clear-Segments method, it shall use the Action-type MDC_ACT_SEG_CLR		
	If a PHG invokes the Clear-Segments method, it shall use the action-info-args SegmSelection structure (BOTimeRange)		
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_080 AND (C_MAN_OXP_029 OR C_MAN_OXP_030)		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab bits 4, 8 and 10 set.		
Test procedure	IF a UI feature exists such that the PHG can clear the segments:		
	Make the PHG under test perform a Segment Clear with parameter SegmSelection = BOTimeRange.		
	IF the PHG under test can clear the segments automatically after a transfer, perform the action.		
	Either way:		
	2. Make the PHG under test perform a Segment Clear by time range.		
	3. The simulated PHD receives the message:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	field-value = This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.		
	c. CHOICE		
	□ value = 0x01 0x07 (roiv-cmip-confirmed-action)		
	d. obj-handle		
	☐ field-type = HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = <handle an="" existing="" of="" pm-store=""></handle>		
	e. action-type		
	☐ field-type = OID-Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0x0C 0x0C (MDC_ACT_SEG_CLR)		
	f. action-info-args		
	□ SegmSelection = BOTimeRange		
	from-time = BaseOffsetTime		
	 to-time = BaseOffsetTime 		
Pass/Fail criteria	The format of the received message must be the one specified above.		
Notes			

TP ld		TP/PLT	PHG/OXP/DIM/BV-005	_A	
TP label		PM-Store Class methods. Get-Segment-info method (all-Segments)			
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable	PM-Sto	reMeth 12; O	PM-StoreMeth 17; M	PM-StoreMeth 28; M
	items		oreMtrDatTransf 26; O	,	,
Test purpos	e	Check			
			G invokes the Get-Segmeded-action.	ent-Info method, it shall use	e operation type roiv-cmip-
			G invokes the Get-Segmo	ent-Info method, it shall use	e the Action-type
		If a PHG invokes the Get-Segment-Info method, it shall use the action-info-args SegmSelection (all-segments)			
		[AND]			
			G supports the PM-store nt-Data-Xfer methods is	class, the support of the G mandatory	et-Segment-Info and Trig-
		[AND]			
		the cho		egmSelection action-info-a	l, the PHG shall support at least rgs of the Get-Segment-Info
Applicability	1	C_MAN	N_OXP_000 AND C_MAN	N_OXP_003	
Other PICS	•	The section	and a table DUD and the DU	2 dan taat ana in tha One	nation at the Discoulated DID
Initial condition The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The simulated PHD and the PHG under test are in the Operating state. The operation state is the Operating state and the Operating state. The operation state is the Operating state and the Operating state are in the Operating state. The Operating state is the Operating state are in the Operating state. The Operating state is the Operating state are in the Operating state. The Operating state is the Operating state are in the Operating state. The Operating state is the Operating state are in the Operating state. The Operating state is the Operating state are in the Operating state are in the Operating state. The Operating state is the Operating state are in the Operating					
Test procedo	ure	Make the PHG under test perform a GetSegmentInfo action to recover the information of all the segments.			
		2. Th	e simulated PHD receive	s the message:	
		a.	APDU Type		
		☐ field-length = 2 bytes			
			☐ field-value = 0xE7	0x00 (PrstApdu)	
		b. invoke-id			
			☐ field-type = Invoke	IDType	
			☐ field-length = 2 byt	es	
				alue identifies the messag simulated PHD shall have	e; the confirmed response that the same invoke-id.
		C.	obj-handle		
			☐ field-type = HAND	LE	
			☐ field-length = 2 byt	es	
			☐ field-value = <han< td=""><td>dle of an existing PM-Store</td><td>2></td></han<>	dle of an existing PM-Store	2>
		d.	action-type (roiv-cmip-	confirmed-action)	
			☐ field-type = OID-Ty	/pe	
			☐ field-length = 2 byt	es	
			$\Box \text{field-value} = 0 \times 0 \text{C}$	0x0D (MDC_ACT_SEG_G	ET_INFO)
		e.	action-info-args		
			☐ SegmSelection = a		
Pass/Fail cri	teria		IG shall perform a Get Sege must be the one speci		s) and the format of the received
Notes					

TP ld	TP Id TP/PLT/PHG/OXP/DIM/BV-005_B		/PHG/OXP/DIM/BV-005_B		
TP label		PM-Store Class methods. Get-Segment-info method (segment-id-list)			
Coverage Spec		[ISO/IE	EE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	PM-Sto	reMeth 12; O		
Test purpose	е	Check t	hat:		
		A PHG	may invoke the Get-Segment-Info method		
		If a PHG invokes the Get-Segment-Info method, it shall use operation type roiv-cmip-confirmed-action.			
		If a PHG invokes the Get-Segment-Info method, it shall use the Action-type MDC_ACT_SEG_GET_INFO			
			G invokes the Get-Segment-Info method, it shall use the action-info-args election (segm-id-list)		
Applicability	·	C_MAN	I_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_045		
Other PICS					
Initial condit	ion	has at le	nulated PHD and the PHG under test are in the Operating state. The simulated PHD east one segment with data stored and PMStoreCapab indicates that it supports all sible actions.		
Test procedu	ure		ke the PHG under test perform a GetSegmentinfo action to recover only the ormation of one segment:		
		2. The simulated PHD receives the message:			
		a. APDU Type			
			☐ field-length = 2 bytes		
			☐ field-value = 0xE7 0x00 (PrstApdu)		
		b.	invoke-id		
			☐ field-type = InvokeIDType		
			☐ field-length = 2 bytes		
			ifield-value = This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.		
		C.	obj-handle		
			☐ field-type = HANDLE		
			☐ field-length = 2 bytes		
			☐ field-value = <handle an="" existing="" of="" pm-store=""></handle>		
		d.	action-type (roiv-cmip-confirmed-action)		
			☐ field-type = OID-Type		
			☐ field-length = 2 bytes		
			ield-value = 0x0C 0x0D (MDC_ACT_SEG_GET_INFO)		
		e.	action-info-args		
			☐ SegmSelection = segm-id-list		
			SegmIdList = <list instance="" numbers="" of="" segments'="" selected="" the=""></list>		
Pass/Fail cri	teria	The for	mat of the received message must be the one specified.		
Notes					

TP Id		TP/PLT/PHG/OXP/DIM/BV-005_C
TP label PM-Store Class methods. Get-Segment-info method (time range)		PM-Store Class methods. Get-Segment-info method (time range)
Coverage Spec [ISO/IEEE		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]

	Testable items	PM-Sto	reMeth 12; O		
Test purpose		Check t	hat:		
		A PHG	may invoke the Get-Segr	ment-Info method	
		If a PHG invokes the Get-Segment-Info method, it shall use operation type roiv-cmip-confirmed-action.			
		If a PHG invokes the Get-Segment-Info method, it shall use the Action-type MDC_ACT_SEG_GET_INFO			
			G invokes the Get-Segme election (abs-time-range)	ent-Info method, it shall use th	ne action-info-args
Applicability		C_MAN	_OXP_000 AND C_MAN	I_OXP_003 AND C_MAN_AC	G_OXP_044
Other PICS					
Initial conditi	ion	has at I			ting state. The simulated PHD b indicates that it supports all
Test procedu	ire		ke the PHG under test pe a time range.	erform a GetSegmentinfo acti	on to recover the information
		2. The	simulated PHD receives	s the message:	
		a.	APDU Type		
			☐ field-length = 2 byte	es	
			☐ field-value = 0xE7	0x00 (PrstApdu)	
		b.	invoke-id		
			☐ field-type = Invokel	DType	
			☐ field-length = 2 byte	es	
				alue identifies the message; simulated PHD shall have the	
		c.	obj-handle		
			☐ field-type = HANDL	.E	
			☐ field-length = 2 byte	es	
			☐ field-value = <hand< td=""><td>dle of an existing PM-Store></td><td></td></hand<>	dle of an existing PM-Store>	
		d.	action-type (roiv-cmip-c	onfirmed-action)	
			☐ field-type = OID-Ty	ре	
			☐ field-length = 2 byte	es	
			☐ field-value = 0x0C	0x0D (MDC_ACT_SEG_GET	_INFO)
		e.	action-info-args		
			□ SegmentSelectiont	= abs-time-range	
			 AbsTimeRang 	e.from-time = <selected date<="" td=""><td>of beginning></td></selected>	of beginning>
AbsTimeRange.to-time = <selected date="" of<="" p=""></selected>		ending>			
Pass/Fail crit	eria	The for	nat of the received mess	age must be the one specifie	d.
Notes					

TP ld		TP/PLT/PHG/OXP/DIM/BV-005_D	
TP label PM-Store Class methods. Get-Segment-info method 4 (Base-Offset-Time range)		PM-Store Class methods. Get-Segment-info method 4 (Base-Offset-Time range)	
Coverage Spec [ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]	
	Testable items	PM-StoreMeth 12; O	
Test purpose Check that:			

	A PHG may invoke the Get-Segment-Info method		
	If a PHG invokes the Get-Segment-Info method, it shall use operation type roiv-cmip-confirmed-action.		
	If a PHG invokes the Get-Segment-Info method, it shall use the Action-type MDC_ACT_SEG_GET_INFO		
	If a PHG invokes the Get-Segment-Info method, it shall use the action-info-args SegmSelection (bo-time-range)		
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_081 AND (C_MAN_OXP_029 OR C_MAN_OXP_030)		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.		
Test procedure	Make the PHG under test perform a GetSegmentinfo action to recover the information of a time range.		
	2. The simulated PHD receives the message:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	field-value = This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.		
	c. obj-handle		
	☐ field-type = HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = <handle an="" existing="" of="" pm-store=""></handle>		
	d. action-type (roiv-cmip-confirmed-action)		
	☐ field-type = OID-Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0x0C 0x0D (MDC_ACT_SEG_GET_INFO)		
	e. action-info-args		
	☐ SegmentSelectiont = bo-time-range		
	 BOTimeRange.from-time = <selected beginning="" date="" of=""></selected> 		
	 BOTimeRange.to-time = <selected date="" ending="" of=""></selected> 		
Pass/Fail criteria	The format of the received message must be the one specified.		
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-006			
TP label PM-Store Class methods. Trig-Segment-Data-Xfer method					
Coverage Spec [ISO/IEE		[ISO/IEEE 11073-20601-2015	SO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
Testable items		PM-StoreMeth 15; O	PM-StoreMeth 17; M	PersStoreMtrDatTransf 5; M	
Test purpos	е	Check that:			
		If a PHG invokes the Trig-Seg confirmed-action.	ment-Data-Xfer method, it shall	use operation type roiv-cmip-	

Notes	
Pass/Fail criteria	The PHG shall perform a Trig-Segment-Data-Xfer Action and the format of the received message must be the one specified.
	☐ TrigSegmDataXferReq.seg-inst-no = <one existing="" instance="" number="" of="" pm-segments′="" the=""></one>
	e. action-info-args
	☐ field-value = 0x0C 0x1C (MDC_ACT_SEG_TRIG_XFER)
	☐ field-length = 2 bytes
	☐ field-type = OID-Type
	d. action-type (roiv-cmip-confirmed-action)
	☐ field-value = <handle an="" existing="" of="" pm-store=""></handle>
	☐ field-length = 2 bytes
	ifield-type = HANDLE
	c. obj-handle
	field-value = This value identifies the message; the confirmed response that will be sent by the simulated PHD shall have the same invoke-id.
	☐ field-length = 2 bytes
	☐ field-type = InvokeIDType
	b. invoke-id
	ield-value = 0xE7 0x00 (PrstApdu)
	☐ field-length = 2 bytes
	a. APDU Type
•	2. The simulated PHD receives the message:
Test procedure	Make the PHG under test perform a Trig-Segment-Data-Xfer.
Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.
Other PICS	
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_003
	If Protocol Version 3, the PHG must send Get-Segment-Info or Get-Segment-Id-List at the beginning of accessing any PM-Store object
	[AND]
	The PHG sends the ACTION method to the PHD with the handle of the PM-store object to access. The argument to this ACTION method is the instance number of the segment to transfer
	[AND]
	If a PHG supports the PM-store class, the support of the Get-Segment-Info and Trig-Segment-Data-Xfer methods is mandatory.
	[AND]
	If a PHG invokes the Trig-Segment-Data-Xfer method, it shall use the action-info-args TrigSegmDataXferReq
	If a DIJC invalve the Trip Comment Date View method it shall use the action into age

TP Id TP/PLT/PHG/OXP/DIM/BV-007_A				
TP label PM-Store Class methods. Segment-Data-Event 1				
Coverage Spec		[ISO/IEEE 11073-20601-2015	A] and [ISO/IEEE 11073-20601	-2016C]
	Testable	PM-StoreEvent 3; M		

items			
Test purpose	Check that:		
	PHGs must respond to Segment-Data-Event events when received		
	When responding to a Segment-Data-Event event the event-reply-info parameter shall be SegmentDataResult.		
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_003		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.		
Test procedure	Make the PHG under test perform a Trig-Segment-Data-Xfer.		
	2. The simulated PHD responds to the message with a "TrigSegmDataXferRsp".		
	3. The simulated PHD sends a Confirmed event report:		
	a. Data APDU		
	☐ Type = Remote Operation Invoke Confirmed Event ReportAction		
	☐ HANDLE = PM-Store obj-handle		
	☐ Action = 0x0D 0x21 (MDC_NOTI_SEGMENT_DATA)		
	☐ SegmentDataEvent.SegmDataEventDescr = SEQUENCE:		
	segm-instance		
	segmt-evt-entry-index		
	segmt-evt-entry-count		
	segmt-evt-status = Bit 0 must be set		
	4. The PHG under test sends a response to the previous message:		
	a. Data APDU		
	☐ Type = Remote Operation Invoke Confirmed ActionEvent Report		
	☐ HANDLE = obj-handle		
	☐ Action = 0x0D 0x21 (MDC_NOTI_SEGMENT_DATA)		
	☐ SegmentDataResult = SEQUENCE:		
	segm-instance = <the by="" one="" phd="" previously="" sent="" simulated="" the=""></the>		
	segmt-evt-entry-index = <the by="" one="" phd="" previously="" sent="" simulated="" the=""></the>		
	segmt-evt-entry-count = <the by="" one="" phd="" previously="" sent="" simulated="" the=""></the>		
	 segmt-evt-status = Bits 0, 1 must be the same as those previously recorded. Bit 4 must NOT be set. One of bits 8 or 12 must be set. 		
Pass/Fail criteria	The format of the received message must be the one specified.		
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-007_B	
TP label		PM-Store Class methods. Segment-Data-Event 2	
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]	
	Testable items	PM-StoreEvent 3; M	
Applicability C_MAN_OXP_000 AND C_MAN_OXP_003			

Other PICS				
Initial condition	The simulated PHD and the PHG under test are in the Operating state. The simulated PHD has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.			
Test procedure	1. Make the PHG under test perform a Trig-Segment-Data-Xfer.			
	2. The simulated PHD responds to the message with a "TrigSegmDataXferRsp".			
	3. The simulated PHD sends a Confirmed event report:			
	a. Data APDU			
	☐ Type = Invoke Confirmed Event Report			
	☐ HANDLE = PM-Store obj-handle			
	☐ Action = 0x0D 0x21 (MDC_NOTI_SEGMENT_DATA)			
	□ SegmentDataEvent.SegmDataEventDescr = SEQUENCE:			
	segm-instance			
	segm-evt-entry-index			
	 segm-evt-entry-count 			
	segm-evt-status = Bit 4 (sevtsta-agent-abort) must be set			
	4. The PHG under test sends a response to the previous message:			
	a. Data APDU			
	☐ Type = Invoke Confirmed Event Report			
	☐ HANDLE = PM-Store obj-handle			
	☐ Action = 0x0D 0x21 (MDC_NOTI_SEGMENT_DATA)			
	☐ SegmentDataResult = SEQUENCE:			
	segm-instance = <the by="" one="" phd="" previously="" sent="" simulated="" the=""></the>			
	segm-evt-entry-index = <the by="" one="" phd="" previously="" sent="" simulated="" the=""></the>			
	segm-evt-entry-count = <the by="" one="" phd="" previously="" sent="" simulated="" the=""></the>			
	segm-evt-status = Bits 4 and 8 must be set			
Pass/Fail criteria	The format of the received message must be the one specified.			
Notes				

TP Id		TP/PLT/PHG/OXP/DIM/BV-013			
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-Grouped			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	EpiCfgScanEvent 12;C	ObjAccessServ 2;M	EpiCfgScanEvent 34; C	
		ScanClassAttr 3; M			
Test purpose		Check that:			
		If an Episodic Scanner uses Unbuf-Scan-Report-Grouped Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.			
		[AND]			
		The PHG shall use the SET action to request a change in the value of this attribute (Operational State)			
		[AND]			
		If a PHG supports episodic scanners, it shall support all the events identified in Table 16 (Episodic configurable scanner object events).			
Applicability	1	C_MAN_OXP_000 AND C_MAN_OXP_001			
Other PICS					

Initial condition	The simulated PHD and the PHG under test are in the Operating state.		
Test procedure	Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	☐ field-value = It is not relevant		
	c. CHOICE		
	□ value = 0x01 0x05 (roiv-cmip-confirmed-set)		
	d. obj-handle		
	☐ field-type = Scanner HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = 21 <handle episodic="" of="" scanner="" the=""></handle>		
	e. Modification-list		
	☐ modify-operator.count = 1		
	☐ modify-operator.length = 2 bytes		
	☐ modify-operator.value = 0 (replace)		
	☐ attribute.type = 0x09 0x53 (MDC_ATTR_OP_STAT)		
	☐ attribute.value = 1		
	2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".		
	3. The simulated PHD sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_GROUPED) to the PHG under test:		
	4. The PHG under test responds with a "rors-confirmed-event-report":		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	☐ field-value = The same as the one sent by the simulated PHD.		
	c. obj-handle		
	☐ field-type = HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = 21 <handle episodic="" of="" scanner="" the=""></handle>		
	d. event-type (rors-confirmed-event-report)		
	☐ field-type = OID-Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0x0D 0x24 (MDC_NOTI_UNBUF_SCAN_REPORT_GROUPE		
Pass/Fail criteria	The format of the received messages in steps 1 and 4 must be the one specified.		
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-016				
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-MP-Grouped				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	EpiCf	gScanEvent 24;C	ObjAccessServ 2;M	EpiCfgScanEvent 34; C	
Test purpos	е	Checl	k that:			
		If an Episodic Scanner uses Unbuf-Scan-Report-MP-Grouped Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.				
		[AND]				
		If a PHG supports episodic scanners, it shall support all the events identified in Table 16 (Episodic configurable scanner object events).				
Applicability	,	C_MAN_OXP_000 AND C_MAN_OXP_001 AND C_MAN_OXP_037				
Other PICS						
Initial condit	ion	The simulated PHD and the PHG under test are in the Operating state.				
Test procedure		Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1.				
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".				
		The simulated PHD sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_MP_GROUPED) to the PHG under test:				
		4. The PHG under test responds with a "rors-confirmed-event-report":				
		a. APDU Type				
		☐ field-length = 2 bytes				
		☐ field-value = 0xE7 0x00 (PrstApdu)				
		b. invoke-id				
			☐ field-type = InvokeIDType			
			☐ field-length = 2	bytes		
			☐ field-value = Th	e same as the one sent by the s	imulated PHD.	
		c. obj-handle				
			☐ field-type = HAI	NDLE		
			☐ field-length = 2	bytes		
			☐ field-value = 21	<handle episodic="" of="" scanne<="" th="" the=""><th>r'></th></handle>	r'>	
		d	I. event-type (rors-cor	firmed-event-report)		
			☐ field-type = OID	7-Type		
			☐ field-length = 2	bytes		
			☐ field-value = 0x (MDC_NOTI_U	0D 0x27 NBUF_SCAN_REPORT_MP_G	ROUPED)	
Pass/Fail cri	teria	The format of the received message must be the one specified.				
Notes						

TP ld		TP/PLT/PHG/OXP/DIM/BV-019			
TP label		PeriCfgScanner Class events. Buf-Scan-Report-Grouped			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	PeriCfgScanEvent 12;C	ObjAccessServ 2;M	PeriCfgScanEvent 27; C	
Test purpose		Check that:			

	If a Periodic Configurable Scanner uses Buf-Scan-Report-Grouped Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.		
	[AND]		
	If a PHG supports periodic scanners, it shall support all the events identified in Table 18 (Periodic configurable scanner object events).		
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_006		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Operating state.		
Test procedure	Make the PHG under test set the OperationalState attribute of a periodic scanner of the simulated PHD to 1:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	☐ field-value = The same as the one sent by the simulated PHD.		
	c. CHOICE		
	□ value = 0x01 0x05 (roiv-cmip-confirmed-set)		
	d. obj-handle		
	☐ field-type = Scanner HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = 20 <handle of="" periodic="" scanner="" the=""></handle>		
	e. Modification-list		
	☐ modify-operator.count = 1		
	☐ modify-operator.length = 2 bytes		
	☐ modify-operator.value = 0 (replace)		
	□ attribute.type = 0x09 0x53 (MDC_ATTR_OP_STAT)		
	☐ attribute.value = 1		
	2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".		
	 The simulated PHD sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_GROUPED) to the PHG under test: 		
	4. The PHG under test responds with a "rors-confirmed-event-report":		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	☐ field-type = InvokeIDType		
	☐ field-length = 2 bytes		
	☐ field-value = The same as the one sent by the simulated PHD.		
	c. obj-handle		
	☐ field-type = HANDLE		
	☐ field-length = 2 bytes		
	☐ field-value = 20 <handle of="" periodic="" scanner="" the=""></handle>		
	d. event-type (rors-confirmed-event-report)		

	☐ field-type = OID-Type
	☐ field-length = 2 bytes
	☐ field-value = 0x0D 0x2A (MDC_NOTI_BUF_SCAN_REPORT_GROUPED)
Pass/Fail criteria	The format of the received message must be the one specified.
Notes	

TP ld		TP/PLT/PHG/OXP/DIM/BV-022				
TP label		PeriCfgScanner Class events. Buf-Scan-Report-MP-Grouped				
Coverage	Spec			A] and [ISO/IEEE 11073-20		
3	Testable items		anEvent 24;C	ObjAccessServ 2;M	PeriCfgScanEvent 27; C	
Test purpose		Check that:				
		updated da	ata; and it reports da	nner uses Buf-Scan-Report- ata in confirmed mode, a Ph ion to acknowledge the ope		
		[AND]				
		If a PHG supports periodic scanners, it shall support all the events identified in Table 18 (Periodic configurable scanner object events).				
Applicability	1	C_MAN_C	XP_000 AND C_M	AN_OXP_006 AND C_MAN	_OXP_037	
Other PICS						
Initial condit	ion	The simula	ated PHD and the P	HG under test are in the Op	erating state.	
Test proced	ure	Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1.				
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".				
			. The simulated PHD sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_MP_GROUPED) to the PHG under test:			
		4. The P	HG under test resp	onds with a "rors-confirmed-	event-report":	
		a. A	PDU Type			
			field-length = 2 b	oytes		
			field-value = 0xE	7 0x00 (PrstApdu)		
		b. in	voke-id			
			field-type = Invol	keIDType		
			field-length = 2 b	oytes		
			field-value = The	e same as the one sent by the	ne simulated PHD.	
		c. o	bj-handle			
			field-type = HAN	DLE		
			field-length = 2 b	oytes		
			field-value = 20	<handle of="" periodic="" scar<="" th="" the=""><th>nner></th></handle>	nner>	
		d. e	vent-type (rors-conf	irmed-event-report)		
			field-type = OID-	Туре		
			field-length = 2 b	oytes		
			field-value = 0x0 (MDC_NOTI_BL	D 0x2D JF_SCAN_REPORT_MP_G	ROUPED)	
Pass/Fail cri	teria	The forma	•	essage must be the one spec	·	
Notes						

TP Id		TP/PLT/PHG/OXP/DIM/BV-024		
TP label		Information Model Extensibility rules 2		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	InfoExt 2;M		
Test purpose		Check that:		
	An implementation of a PHG system shall process a message fully by skipping any unknown attributes (e.g., vendor specified attributes) and ignoring the assigned data of such attributes, without protocol errors. The implementation may log the occurrence such attributes as appropriate.			
Applicability	r	C_MAN_OXP_000		
Other PICS				
Initial condit	ion	The simulated PHD and the PHG under test are in the Unassociated state.		
Test procedu	ure	 The simulated PHD sends an AARQ with an extended dev-config-id previously unknown to the PHG under test. 		
		2. The PHG under test sends an AARE with an "accepted-unknown-config".		
		 The simulated PHD sends a configuration event report whose first object has a unknown vendor attribute defined (attribute id 0xF0 0x01): 		
		a. 0xF0 0x01		
		□ value.length = 2		
		□ value = 0xFF 0xFF		
		 The rest of the configuration is the same as one of the PHG supported standard configurations. 		
		4. The PHG answers the configuration event report and reaches the Operating state.		
		5. The simulated PHD sends a confirmed fixed event report (sending a known attribute).		
		6. The PHG sends a rors-cmip-confirmed-event-report for data sent in step 5.		
		7. The simulated PHD sends a confirmed Variable event report updating the value of the unknown attribute:		
		a. obj-handle = 1		
		b. 0xF0 0x01		
		□ value.length = 2		
		□ value = 0xFF 0xFE		
		8. The PHG sends a rors-cmip-confirmed-event-report message for data sent in step 7		
		9. The simulated PHD sends a confirmed fixed event report (sending a known attribute).		
	10. The PHG sends a rors-cmip-confirmed-event-report for data sent in step 9			
Pass/Fail cri	teria	The PHG shall ignore the private nomenclature code and moves to Operating state		
		In step 5 the response cannot be an abort message		
		The PHG shall ignore the data received Var Event Report, but without protocol violations, so it has to send a confirmation response for data sent in step 6		
		In step 10 the response cannot be an abort message		
Notes				

TP Id TP/PLT/PHG/OXP/DIM/BV-025				
TP label		Manager State Machine: Association Response Format		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable	ManagerStateMach 65; M	AssocResp 2;M	AssocResp 8; M
	items	AssocResp 9; M	AssocResp 10; M	AssocResp 11; M

S	Spec -	[b-ITU-T H.810 (2015)]			
	estable	General 4; M			
	tems				
Test purpose		Check that:			
		If aarq received while in Unassociated state, a PHG shall move to connected associating state			
		[AND]			
		The encoding-rules field contains the one and only one, DataApdu encoding rule shall be chosen by the PHG, if the result field is equal to accepted or accepted-unknown-config			
		[AND]			
		The dev-config-id field shall be manager-config-response in the response.			
		[AND]			
		The data-req-mode-capab field shall be zero in the response.			
		[AND]			
		The option-list field is not currently used by this standard. This field should be an empty list.			
		[AND]			
		The protocol-version field contains the version of the common data protocol chosen by the PHG if the result field is equal to accepted or accepted-unknown-config			
		The nomenclature-version field contains the version of the nomenclature chosen by the PHG if the result field is equal to accepted or accepted-unknown-config.			
		The functional-units field indicates the common functional units and optional features chosen by the PHG if the result field is equal to accepted or accepted-unknown-config.			
		The system-type field contains the system type.			
		The system-id field has the unique system ID of the PHG			
		[AND]			
		Continua client components shall support associations with Continua LAN service components where only the version 1 bit of the protocol-version is set in the PHDAssociationInformation structure in the AARQ.			
		In that case, the Continua client components shall respond with the version 1 bit of the protocol version set in the PHDAssociationInformation structure in the AARE and shall follow the ISO/IEEE Std 11073-20601-2008 specification along with all corrections and clarifications included in the [ISO/IEEE Std 11073-20601-2015A]			
Applicability		C_MAN_OXP_000			
Other PICS		C_MAN_OXP_016, C_MAN_OXP_018, C_MAN_OXP_019, C_MAN_OXP_020, C_MAN_OXP_024, C_MAN_OXP_025, C_MAN_OXP_026, C_MAN_OXP_027, C_MAN_OXP_029, C_MAN_OXP_067, C_MAN_OXP_069, C_MAN_OXP_071, C_MAN_OXP_072, C_MAN_OXP_076, C_MAN_OXP_021, C_MAN_OXP_022, C_MAN_OXP_023, C_MAN_OXP_030, C_MAN_OXP_077			
Initial condition	n	The simulated PHD and the PHG under test are in the Unassociated state.			
Test procedure	9	The simulated PHD sends an Association Request to the PHG under test:			
		☐ dev-config-id			
		IF (C_MAN_OXP_016 OR C_MAN_OXP_018 OR C_MAN_OXP_019 OR C_MAN_OXP_020 OR C_MAN_OXP_024 OR C_MAN_OXP_025 OR C_MAN_OXP_026 OR C_MAN_OXP_027 OR C_MAN_OXP_029 OR C_MAN_OXP_067 OR C_MAN_OXP_069 OR C_MAN_OXP_071 OR C_MAN_OXP_072 OR C_MAN_OXP_076) THEN dev-config-id set to one of the supported standard configurations			
 IF (C_MAN_OXP_021 OR C_MAN_OXP_022 OR C_MAN_OXP_030 OR C_MAN_OXP_077) THEN dev-configented. 					
		□ encoding rules = 0xE0 0x00			
		□ protocol-version			

- IF the PHG applies for Basic ECG, INR, SABTE or CGM certification only THEN protocol-version = 0x40 0x00 0x00
- IF the PHG applies for Insulin Pump or Glucose Meter certification only THEN protocol-version = 0x20 0x00 0x00 0x00
- IF the PHG applies for Power Status Monitor certification only THEN protocolversion = 0x60 0x00 0x00 0x00
- ELSE protocol-version = 0x80 0x00 0x00 0x00
- \Box nomenclature-version = 0x80 0x00 0x00 0x00
- \Box functional-units = 0x00 0x00 0x00 0x00
- \Box system-type = 0x00 0x80 0x00 0x00
- ☐ data-req-mode-capab =
 - data-reg-mode-flags = 0x00 0x01
 - data-req-init-agent-count = 1
 - data-reg-init-manager-count = 0
- □ option-list = <absent>
- 2. The PHG under test responds with an Association Response:
 - a. APDU Type
 - field-length = 2 bytes
 - field-value = 0xE3 0x00 (AareAdpu)
 - b. Result
 - field-length = 2 bytes
 - field-value = one of :
 - 0x00 0x00 (accepted-config)
 - 0x00 0x03 (accepted-unknown-config)
 - c. Data-Proto-Id
 - field.type = DataProtold
 - field.length = 2 bytes
 - field.value = <The one sent in the AARQ>
 - The DataProto.Info field must contain two bytes indicating the data-protoinfo.length
 - e. protocol-version
 - field-type = Protocol Version
 - field-length = BITS-32
 - IF the PHG applies for Basic ECG, INR, SABTE or CGM certification only THEN
 - field-value = 0x40 0x00 0x00 0x00
 - This value shows that version 2 of the data exchange protocol is supported (protocol-version2(1)=1)

ELSE IF the PHG applies for Insulin Pump or Glucose Meter certification only THEN

- field-value = 0x20 0x00 0x00 0x00
- This value shows that version 3 of the data exchange protocol is supported (protocol-version3(2)=1)

ELSE IF the PHG applies for Power Status Monitor certification only THEN

- field-value = 0x40 0x00 0x00 0x00 OR 0x20 0x00 0x00 0x00 OR 0x60 0x00 0x00 0x00
- This value shows that version 2 OR version 3 of the data exchange

protocol are supported (protocol-version2(1)=1 OR protocol-version3(2)=1)

ELSE

- field-value = 0x80 0x00 0x00 0x00
- This value shows that version 1 of the data exchange protocol is supported (protocol-version1(0)=1).
- f. encoding rules
 - field-type = EncodingRules
 - field-length = BITS-16
 - field-value = One of the following must be set.
 - Bit 0 (mder)
 - Bit 1 (xer)
 - Bit 2 (per)
- g. nomenclature version
 - field-type = NomenclatureVersion
 - field-length = BITS-32
 - field-value = 0x80 0x00 0x00 0x00 (nom-version1)
- h. functional-units
 - field-type = FunctionalUnits
 - field-length = BITS-32
 - filed-value =
 - Bit 0 must be 0
 - Bits 1 and 2 may be set
 - The rest of the bits must not be set
- system type
 - field-type = SystemType
 - field-length = BITS-32
 - field-value = 0x80 0x00 0x00 0x00 (sys-type-manager)
- j. system-id
 - field-type = OCTET STRING
 - field-length = 0x00 0x08
 - field-value = <Check with PIXITs>
- k. dev-config-id
 - field-type = Configld
 - field-length = INT-U16
 - field-value = 0x00 0x00 (manager-config-response)
- I. Data-Req-Mode-Capab:
 - field-type = DataReqModeCapab
 - field-length = INT-U16
 - field-value = 0x00 0x00
- m. option-list should be:
 - field-type: AttributeList
 - list.count = 0
 - list.length = 0

Pass/Fail criteria	The format of the received message must be the one specified.
Notes	

TP ld		TP/PLT/PHG/OXP/DIM/BV-036			
TP label		BCD time format - fixed format event report			
Coverage	Spec	[ISO/IEEE 11073-10415]			
	Testable items	WeightNumClass 30;C			
Spec		[ISO/IEEE 11073-10417]			
	Testable items	BloodGL 12;C			
	Spec	[ISO/IEEE 11073-10407]			
	Testable items	SystDiast_31;C	PulsRat_30;C		
	Spec	[ISO/IEEE 11073-10408]			
	Testable items	Num Objec Temp19;C			
	Spec	[ISO/IEEE 11073-10472]			
	Testable items	VarDosage16; C	UserFeedback16; C	StatReporter16; C	
	Spec	[ISO/IEEE 11073-10421]			
	Testable	PEF16; C	PersBest16; C	FEV1S16; C	
	items	ReadStatus16; C			
	Spec	[ISO/IEEE 11073-10420]	1	1	
	Testable items	BodyFat31; C	BodyHeight30; C	WeightNumClass 29; C	
Test purpos	e	Check that:			
		For Standard-Configuration, the Attribute-Value-Map attribute shall be present			
		The value of the Attribute-Va	lue-Map attribute shall be MDC_/ AMP_ABS	ATTR_NU_VAL_OBS_SIMP,	
Applicability	<i>'</i>	C_MAN_OXP_000 AND (C_MAN_OXP_019 OR C_MAN_OXP_020 OR C_MAN_OXP_024 OR C_MAN_OXP_025 OR C_MAN_OXP_016 OR C_MAN_OXP_018 OR C_MAN_OXP_027)			
Other PICS					
Initial condi	tion	The simulated PHD and the PHG under test are in the Operating state using the standard configuration.			
Test proced	ure	IF C_MAN_OXP_019 (the PHG supports glucose meter specialization)			
		1. The simulated PHD sends a confirmed fixed event report for handle 1 (Blood Glucose object) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75.			
		2. The simulated PHD waits until it receives a confirmation from the PHG under test.			
		IF C_MAN_OXP_020 (the PHG supports blood pressure monitor specialization)			
		1. The simulated PHD sends a confirmed fixed event report for handle 1 (Systolic/Diastolic/MAP object) and handle 2 (Pulse Rate object) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75.			
		2. The simulated PHD waits until it receives a confirmation from the PHG under test.			
		IF C_MAN_OXP_024 (the PHG supports weighing scales specialization)			

The simulated PHD sends a confirmed fixed event report for handle 1 (Body Weight object) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75 2. The simulated PHD waits until it receives a confirmation from the PHG under test. IF C MAN OXP 025 (the PHG supports thermometer specialization) 1. The simulated PHD sends a confirmed fixed event report for handle 1 (Body Temperature object) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75.2. The simulated PHD waits until it receives a confirmation from the PHG under test. IF C_MAN_OXP_016 (the PHG supports adherence monitor specialization) 1. The simulated PHD sends a confirmed fixed event report for handle 2 (Variable Dosage Medication object), handle 3 (Status Reporter) and handle 4 (User Feedback) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75. 2. The simulated PHD waits until it receives a confirmation from the PHG under test. IF C MAN OXP 018 (the PHG supports peak flow specialization) 1. The simulated PHD sends a confirmed fixed event report for handle 1 (PEF), handle 2 (Personal Best), handle 3 (FEV1) and handle 5 (Reading Status) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75. 2. The simulated PHD waits until it receives a confirmation from the PHG under test. IF C_MAN_OXP_027 (the PHG supports body composition analyser specialization) 1. The simulated PHD sends a confirmed fixed event report for handle 1 (Body Weight), handle 2 (Body Height) and handle 3 (Body Fat) containing an observation and a time stamp with century = 0x19, year = 0x99, month = 0x12, day = 0x25, hour = 0x23, minute = 0x59, second = 0x30, sec-fractions = 0x75 The simulated PHD waits until it receives a confirmation from the PHG under test. Pass/Fail criteria Verify that the PHG under test is able to accept the data and time stamps and applies the date properly as 12/25/1999 23:59:30.75 (e.g., if there is a UI verify the date is displayed in some form that indicates the correct date and time as transmitted).

TP ld	TP/PLT/PHG/OXP/DIM/BV-037					
TP label BCD time format - variable format event report						
Coverage	Spec	[ISO/IEEE 11073-10415]				
	Testable items	WeightNumClass 30;C				
	Spec	[ISO/IEEE 11073-10407]				
	Testable items	SystDiast_31;C	PulsRat_30;C			
	Spec	[ISO/IEEE 11073-10404]				
	Testable items	PulseRateNumObjAttr 30;C	SpO2NumObjAttr 13;C			
	Spec	[ISO/IEEE 11073-10408]				
	Testable items Num Objec Temp19;C					
Test purpose		Check that:				
For [Standard-Configuration], If fixed format is used and the standard configuration adjusted, the Absolute-Time-Stamp attribute is mandatory; otherwise, the condition ISO/IEEE P11073-20601 apply.						

Notes

Applicability	C_MAN_OXP_000 AND (C_MAN_OXP_020 OR C_MAN_OXP_024 OR C_MAN_OXP_025 OR C_MAN_OXP_026)		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Operating state using the standard configuration.		
Test procedure	IF C_MAN_OXP_020 (the PHG supports blood pressure monitor specialization)		
	The simulated PHD sends a confirmed variable event report for handle 1 (Systolic/Diastolic/MAP object) and handle 2 (Pulse Rate object) containing a time stamp with century = 0x19, year = 0x20, month = 0x11, day = 0x18, hour = 0x21, minute = 0x22, second = 0x23, sec-fractions = 0x90 and an observation (in that order).		
	2. The simulated PHD waits until it receives a confirmation from the PHG under test.		
	IF C_MAN_OXP_024 (the PHG supports weighing scales specialization)		
	1. The simulated PHD sends a confirmed variable event report for handle 1 (Body Weight object) containing a time stamp with century = 0x19, year = 0x20, month = 0x11, day = 0x18, hour = 0x21, minute = 0x22, second = 0x23, sec-fractions = 0x90 and observation (in that order).		
	2. The simulated PHD waits until it receives a confirmation from the PHG under test.		
	IF C_MAN_OXP_025 (the PHG supports thermometer specialization)		
	1. The simulated PHD sends a confirmed variable event report for handle 1 (Body Temperature object) containing a time stamp with century = 0x19, year = 0x20, month = 0x11, day = 0x18, hour = 0x21, minute = 0x22, second = 0x23, sec-fractions = 0x90 and an observation (in that order).		
	2. The simulated PHD waits until it receives a confirmation from the PHG under test.		
	IF C_MAN_OXP_026 (the PHG supports pulse oximeter specialization)		
	1. The simulated PHD sends a confirmed variable event report for handle 1 (SpO ₂ object) and handle 10 (Pulse Rate object) containing a time stamp with century = 0x19, year = 0x20, month = 0x11, day = 0x18, hour = 0x21, minute = 0x22, second = 0x23, secfractions = 0x90 and an observation (in that order).		
	2. The simulated PHD waits until it receives a confirmation from the PHG under test.		
Pass/Fail criteria	Verify that the PHG under test is able to accept the data and time stamps and applies the date properly as 11/18/1920 21:22:23.90 (e.g., if there is a UI verify the date is displayed in some form that indicates the correct date and time as transmitted).		
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-038			
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-Var			
Coverage	Spec	[ISO/IEEE 11073-20601-2015/	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	EpiCfgScanEvent 4; C			
Test purpos	е	Check that:			
		If an Episodic Scanner uses Unbuf-Scan-Report-Var Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.			
		[AND]			
		If a PHG supports episodic scanners, it shall support all the events identified in Table 16 (Episodic configurable scanner object events).			
Applicability	/	C_MAN_OXP_000 AND C_MA	N_OXP_001		
Other PICS					
Initial condition		The simulated PHD and the PHG under test are in the Operating state.			
Test procedure		Make the PHG under test the simulated PHD to 1.	set the OperationalState attribu	ute of an episodic scanner of	

	2. TI	ne sim	ulated PHD responds to the message with a "rors-cmip-confirmed-set".
			ulated PHD sends a confirmed event report of the episodic scanner NOTI_UNBUF_SCAN_REPORT_VAR) to the PHG under test:
	4. TI	ne PH	G under test responds with a "rors-confirmed-event-report":
	a.	AP	DU Type
			field-length = 2 bytes
			field-value = 0xE7 0x00 (PrstApdu)
	b.	inve	oke-id
			field-type = InvokeIDType
			field-length = 2 bytes
			field-value = The same as the one sent by the simulated PHD.
	C.	obj	-handle
			field-type = HANDLE
			field-length = 2 bytes
			field-value = 21 <handle episodic="" of="" scanner="" the=""></handle>
	d.	eve	ent-type (rors-confirmed-event-report)
			field-type = OID-Type
			field-length = 2 bytes
			field-value = 0x0D 0x24 (MDC_NOTI_UNBUF_SCAN_REPORT_VAR)
Pass/Fail criteria	The fo	rmat c	of the received messages in steps 1 and 4 must be the one specified.
Notes			

TP Id		TP/PLT/PHG/OXP/DIM/BV-039							
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-MP-Var							
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]							
	Testable items	EpiCfgScanEvent 16;C	EpiCfgScanEvent 34; C						
Test purpos	se	Check that:							
		•	Unbuf-Scan-Report-MP-Var Even ned mode, a PHG shall use a rors e operation.						
		[AND]	[AND]						
		If a PHG supports episodic scanners, it shall support all the events identified in Table 16 (Episodic configurable scanner object events).							
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_001 AND C_MAN_OXP_037							
Other PICS									
Initial condi	ition	The simulated PHD and the PHG under test are in the Operating state.							
Test proced	lure	Make the PHG under test set the OperationalState attribute of an Episodic Scanner of the simulated PHD to 1.							
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".							
		 The simulated PHD sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_MP_VAR) to the PHG under test: 							
		4. The PHG under test responds with a "rors-confirmed-event-report":							
		a. APDU Type							
		☐ field-length = 2	bytes						
		☐ field-value = 0x	«E7 0x00 (PrstApdu)						

	b.	invo	ke-id
			field-type = InvokeIDType
			field-length = 2 bytes
			field-value = The same as the one sent by the simulated PHD.
	C.	obj-	handle
			field-type = HANDLE
			field-length = 2 bytes
			field-value = 21 <handle episodic="" of="" scanner="" the=""></handle>
	d.	eve	nt-type (rors-confirmed-event-report)
			field-type = OID-Type
			field-length = 2 bytes
			field-value = 0x0D 0x27 (MDC_NOTI_UNBUF_SCAN_REPORT_MP_VAR)
Pass/Fail criteria	The form	nat o	f the received message must be the one specified.
Notes			

TP Id	TP ld		TP/PLT/PHG/OXP/DIM/BV-040					
TP label		PeriC	PeriCfgScanner Class events. Buf-Scan-Report-Var					
Coverage	verage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
	Testable items	PeriC	CfgScan	Event 4;C	PeriCfgScanEvent 27; C			
Test purpos	е	Chec	ck that:					
		If a Periodic Configurable Scanner uses Buf-Scan-Report-Var Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.						
		[AND)]					
				oports periodic sc nfigurable scanne	anners, it shall support all the e r object events).	vents identified in Table 18		
Applicability	/	C_M	AN_OX	P_000 AND C_M	AN_OXP_006			
Other PICS	Other PICS							
Initial condi	tion	The simulated PHD and the PHG under test are in the Operating state.						
Test proced	ure	 Make the PHG under test set the OperationalState attribute of a periodic scanner of the simulated PHD to 1. 						
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".						
		The simulated PHD sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_VAR) to the PHG under test:						
		4. The PHG under test responds with a "rors-confirmed-event-report":						
		á	a. API	DU Type				
				field-length = 2 k	oytes			
				field-value = 0xE	E7 0x00 (PrstApdu)			
		ı	b. invo	oke-id				
				field-type = Invo	keIDType			
				field-length = 2 k	oytes			
					e same as the one sent by the s	simulated PHD.		
		(c. obj-	-handle				
				field-type = HAN	IDLE			
				field-length = 2 b	oytes			

	☐ fie	eld-value = 20 <handle of="" periodic="" scanner="" the=""></handle>
	d. event-	type (rors-confirmed-event-report)
	☐ fie	eld-type = OID-Type
	☐ fie	eld-length = 2 bytes
	☐ fie	eld-value = 0x0D 0x2A (MDC_NOTI_BUF_SCAN_REPORT_VAR)
Pass/Fail criteria	The format of the	ne received message must be the one specified.
Notes		

TP ld		TP/PLT/PHG/OXP/DIM/BV-041							
TP label	T	Peri	PeriCfgScanner Class events. Buf-Scan-Report-MP-Var						
Coverage	Spec	[ISO	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]						
	Testable items	Peri	CfgSca	anEvent 16;C	PeriCfgScanEvent 27; C				
Test purpos	e	Che	ck that	:					
		If a Periodic Configurable Scanner uses Buf-Scan-Report-MP-Var Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.							
		[ANI	D]						
				upports periodic sca onfigurable scanne	anners, it shall support all the evrobject events).	vents identified in Table 18			
Applicability	/	C_N	/AN_O	XP_000 AND C_M	AN_OXP_006 AND C_MAN_O	XP_037			
Other PICS									
Initial condi	tion	The	simula	ited PHD and the P	HG under test are in the Opera	ting state.			
Test proced	ure		 Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1. 						
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".							
		The simulated PHD sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_MP_VAR) to the PHG under test:							
		4. The PHG under test responds with a "rors-confirmed-event-report":							
			a. A	PDU Type					
				field-length = 2 b	pytes				
				field-value = 0xE	7 0x00 (PrstApdu)				
			b. in	voke-id					
				field-type = Invol	kelDType				
				field-length = 2 b	pytes				
				field-value = The	same as the one sent by the s	imulated PHD.			
			c. ol	oj-handle					
				field-type = HAN	DLE				
				field-length = 2 b	pytes				
				field-value = 20	<handle of="" periodic="" scanne<="" th="" the=""><th>r></th></handle>	r>			
			d. e	vent-type (rors-conf	irmed-event-report)				
				field-type = OID-	Туре				
				field-length = 2 b	pytes				
				field-value = 0x0	D 0x2D (MDC_NOTI_BUF_SC	AN_REPORT_MP_VAR)			
Pass/Fail cr	iteria	The	format	of the received me	ssage must be the one specifie	d.			
Notes									

TP ld		TP/PI T)42			
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-Fixed					
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
Coverage	Testable items		ScanEvent 8; C	EpiCfgScanEvent 34; C	-20160]		
Test purpos	е	Check	that:				
		reports		Unbuf-Scan-Report-Fixed Event de, a PHG shall use a rors-cmip e operation.			
		[AND]					
			G supports episodic s lic configurable scann	canners, it shall support all the e er object events).	vents identified in Table 16		
Applicability	<u>, </u>	C_MAN	N_OXP_000 AND C_N	MAN_OXP_001			
Other PICS							
Initial condit	ion	The sin	nulated PHD and the	PHG under test are in the Opera	ting state.		
Test proced	ure		 Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1. 				
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".					
		 The simulated PHD sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_FIXED) to the PHG under test: 					
		4. Th	e PHG under test res	ponds with a "rors-confirmed-eve	ent-report":		
		a.	APDU Type				
			☐ field-length = 2	bytes			
			☐ field-value = 0x	E7 0x00 (PrstApdu)			
		b.	invoke-id				
			☐ field-type = Inv	okeIDType			
			☐ field-length = 2	bytes			
			☐ field-value = Th	ne same as the one sent by the s	imulated PHD.		
		C.	obj-handle				
			☐ field-type = HA	NDLE			
			☐ field-length = 2	bytes			
			☐ field-value = 21	<handle episodic="" of="" scanne<="" th="" the=""><th>91></th></handle>	91>		
			event-type (rors-cor	nfirmed-event-report)			
			☐ field-type = OIE)-Type			
			☐ field-length = 2	bytes			
			☐ field-value = 0x	0D 0x24 (MDC_NOTI_UNBUF_	SCAN_REPORT_FIXED)		
Pass/Fail cri	teria	The for	mat of the received m	essages in steps 1 and 4 must b	e the one specified.		
Notes							

TP ld		TP/PLT/PHG/OXP/DIM/BV-043				
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-MP-Fixed				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	EpiCfgScanEvent 20;C	EpiCfgScanEvent 34; C			
Test purpose		Check that:				

	If an Episodic Scanner uses Unbuf-Scan-Report-MP-Fixed Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.					
	[AND]					
	If a PHG supports episodic scanners, it shall support all the events identified in Table 16 (Episodic configurable scanner object events).					
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_001 AND C_MAN_OXP_037					
Other PICS						
Initial condition	The simulated PHD and the PHG under test are in the Operating state.					
Test procedure	Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1.					
	2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".					
	The simulated PHD sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_MP_FIXED) to the PHG under test:					
	4. The PHG under test responds with a "rors-confirmed-event-report":					
	a. APDU Type					
	☐ field-length = 2 bytes					
	☐ field-value = 0xE7 0x00 (PrstApdu)					
	b. invoke-id					
	☐ field-type = InvokeIDType					
	☐ field-length = 2 bytes					
	ield-value = The same as the one sent by the simulated PHD.					
	c. obj-handle					
	☐ field-type = HANDLE					
	☐ field-length = 2 bytes					
	☐ field-value = 21 <handle episodic="" of="" scanner="" the=""></handle>					
	d. event-type (rors-confirmed-event-report)					
	☐ field-type = OID-Type					
	☐ field-length = 2 bytes					
	ifield-value = 0x0D 0x27 (MDC_NOTI_UNBUF_SCAN_REPORT_MP_FIXED)					
Pass/Fail criteria	The format of the received message must be the one specified.					
Notes						

TP Id		TP/PLT/PHG/OXP/DIM/BV-044						
TP label		PeriCfgScanner Class events	PeriCfgScanner Class events. Buf-Scan-Report-Fixed					
Coverage	Spec	[ISO/IEEE 11073-20601-2015	A] and [ISO/IEEE 11073-20601	-2016C]				
	Testable items	PeriCfgScanEvent 8;C	PeriCfgScanEvent 27; C					
Test purpos	se	Check that: If an Periodic Configurable Scanner uses Buf-Scan-Report-Fixed Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.						
		[AND]						
		If a PHG supports periodic scanners, it shall support all the events identified in Table 18 (Periodic configurable scanner object events).						
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_006						
Other PICS								

Initial condition	The	simula	ated PHD and the PHG under test are in the Operating state.		
Test procedure	1.		the PHG under test set the OperationalState attribute of a periodic scanner of nulated PHD to 1.		
	2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".				
	3.	 The simulated PHD sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_FIXED) to the PHG under test: 			
	4.	The P	HG under test responds with a "rors-confirmed-event-report":		
		a. A	PDU Type		
			field-length = 2 bytes		
			field-value = 0xE7 0x00 (PrstApdu)		
		b. invoke-id			
		☐ field-type = InvokeIDType			
		☐ field-length = 2 bytes			
			field-value = The same as the one sent by the simulated PHD.		
		c. o	pj-handle		
			field-type = HANDLE		
			field-length = 2 bytes		
			field-value = 20 <handle of="" periodic="" scanner="" the=""></handle>		
		d. e	vent-type (rors-confirmed-event-report)		
			field-type = OID-Type		
			field-length = 2 bytes		
			field-value = 0x0D 0x2A (MDC_NOTI_BUF_SCAN_REPORT_FIXED)		
Pass/Fail criteria	The	forma	of the received message must be the one specified.		
Notes					

TP Id		TP/PLT/PHG/OXP/DIM/BV-045							
TP label		PeriCfgScanner Class events. Buf-Scan-Report-MP-Fixed							
Coverage	Spec		•	-2016Cl					
	Testable items	PeriCfgScanEvent 20;C	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C] PeriCfgScanEvent 20;C PeriCfgScanEvent 27; C						
Test purpos	e	Check that:	owner was Duf Coop Depart M	D. Fired French to report					
		If an Periodic Configurable Scanner uses Buf-Scan-Report-MP-Fixed Events to report updated data; and it reports data in confirmed mode, a PHG shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.							
		[AND]							
		If a PHG supports periodic scanners, it shall support all the events identified in Table 18 (Periodic configurable scanner object events).							
Applicability	/	C_MAN_OXP_000 AND C_MAN_OXP_006 AND C_MAN_OXP_037							
Other PICS									
Initial condi	tion	The simulated PHD and the PHG under test are in the Operating state.							
Test procedure		Make the PHG under test set the OperationalState attribute of an episodic scanner of the simulated PHD to 1.							
		2. The simulated PHD responds to the message with a "rors-cmip-confirmed-set".							
		 The simulated PHD sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_MP_FIXED) to the PHG under test: 							
		4. The PHG under test response	onds with a "rors-confirmed-eve	ent-report":					
		a. APDU Type							

			field-length = 2 bytes
			field-value = 0xE7 0x00 (PrstApdu)
	b.	inv	oke-id
			field-type = InvokeIDType
			field-length = 2 bytes
			field-value = The same as the one sent by the simulated PHD.
	c.	obj	-handle
			field-type = HANDLE
			field-length = 2 bytes
			field-value = 20 <handle of="" periodic="" scanner="" the=""></handle>
	d.	eve	ent-type (rors-confirmed-event-report)
			field-type = OID-Type
			field-length = 2 bytes
			field-value = 0x0D 0x2D (MDC_NOTI_BUF_SCAN_REPORT_MP_FIXED)
Pass/Fail criteria	The form	nat c	of the received message must be the one specified.
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-04	46			
TP label		Scan Handle List - Fixed & Variable format event report				
Coverage	Spec	[ISO/IEEE 11073-20601-2015	5A] and [ISO/IEEE 11073-20601-	-2016C]		
	Testable items	ScanClassAttr 5;M				
Test purpos	e		ute is included in the [Scanner ob tts contained in the event reports			
Applicability	,	(C_MAN_OXP_016 OR C_M. OR C_MAN_OXP_026 OR C C_MAN_OXP_067 OR C_MA OR C_MAN_ST_002 OR C_MA C_MAN_ST_006 OR C_MAN C_MAN_CV_002 OR C_MAN C_MAN_CV_006 OR C_MAN C_MAN_CV_010 OR C_MAN C_MAN_CV_014 OR C_MAN C_MAN_CV_018 OR C_MAN C_MAN_CV_018 OR C_MAN	MAN_OXP_001 OR C_MAN_OXP AN_OXP_018 OR C_MAN_OXP _MAN_OXP_027 OR C_MAN_C N_OXP_071 OR (C_MAN_OXP MAN_ST_003 OR C_MAN_ST_0 _ST_007)) OR (MAN_OXP_023 _CV_003 OR C_MAN_CV_004 _CV_007 OR C_MAN_CV_008 _CV_011 OR C_MAN_CV_012 _CV_015 OR C_MAN_CV_016 _CV_019 OR C_MAN_CV_020 _CV_023 OR C_MAN_CV_024 _CV_027 OR C_MAN_CV_028	_019 OR C_MAN_OXP_020 DXP_030 OR _022 AND (C_MAN_ST_001 04 OR C_MAN_ST_005 OR AND (C_MAN_CV_001 OR OR C_MAN_CV_005 OR OR C_MAN_CV_009 OR OR C_MAN_CV_013 OR OR C_MAN_CV_017 OR OR C_MAN_CV_021 OR OR C_MAN_CV_025 OR		
Other PICS						
Initial condi	tion		PHG under test are in the Operati least two metric objects and one			
Test proced	ure	episodic scanner, whiche	t set the OperationalState attribu ever is supported by the PHG, of	the simulated PHD to 1.		
		·	onds to the message with a "rors	·		
		periodic/episodic scanne MDC_NOTI_UNBUF_SC	Is a Confirmed Variable Scanner r (MDC_NOTI_BUF_SCAN_REF CAN_REPORT_VAR) to the PHG canner Object Event is different f e.	PORT_VAR/ sunder test. The order of the		
·		4. The PHG under test resp	onds with a "rors-confirmed-ever	nt-report".		

Pass/Fail criteria	6. The PHG under test responds with a "rors-confirmed-event-report": Verify that the PHG under test is able to accept the data and assign the measurements correctly to every object when it receives the Scanner Object Event Report in step 4 and step 6.
	5. The simulated PHD sends a Confirmed Fixed Scanner object of the periodic/episodic scanner (MDC_NOTI_BUF_SCAN_REPORT_FIXED/ MDC_NOTI_UNBUF_SCAN_REPORT_FIXED) to the PHG under test. The order of the objects in the Fixed Scanner Event report is different from the order established in the Scan-Handle-List attribute.

TP Id		TP/PLT/PHG/OXP/DIM/BV-047					
TP label		Not configuring a real-time clock					
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
	Testable items	AbsTime 7;M					
Test purpos	е	Check that:					
		In this case, neither the mds-time-mgr-set-time nor the mds-time-capab-set-clock bits shall be set and the PHG shall not attempt to set the clock.					
Applicability	1	C_MAN_OXP_000					
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085					
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state. The PHD has the MDSTimeInfo attribute with the mds-time-mgr-set-time and mds-time-capab-set-clock bits set to 0.					
Test proced	ure	The simulated PHD sends an Association Request to the PHG under test.					
		2. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN:					
		 a. IF the PHG sends a GET request while it is in the Configuring state, the simulated PHD sends rors-cmip-get with MDS attributes. 					
		b. Wait until the Operating state is reached.					
		 If the PHG under test did not set automatically the GET Mds in the Configuring state, force the PHG to request MDS attributes. 					
		d. The simulated PHD sends rors-cmip-get with MDS attributes.					
		3. IF C_MAN_OXP_085 THEN:					
		 PHG sends a GET request while it is in Configuring/Sending GetMDS state, and simulated PHD sends rors-cmip-get with MDS attributes. 					
		4. The PHG under test shall not set the time of the simulated PHD.					
Pass/Fail cri	iteria	Verify that the PHG does not send the Set-Time message.					
Notes							

TP ld		TP/PLT/PHG/OXP/DIM/E	3V-048		
TP label		Not supported specialization - Glucose meter			
Coverage	Spec	[ISO/IEEE 11073-20601-	2015A] and [ISO/IEEE 11073-2060	I-2016C]	
	Testable items	ManagerProc 3;M			
Test purpos	se	Check that: A specialization declared PHG under test.	by the vendor as "not supported" is	really not supported by the	
Applicabilit	y	C_MAN_OXP_000 AND	NOT(C_MAN_OXP_055)		
Other PICS					

Initial condition The simulated PHD and the PHG under test are in the Unassociated state. Test procedure The simulated PHD sends an Association Request to the PHG under test with the devconfig-id set to 0x06 0xA4 (glucose meter). 2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THFN: IF C MAN OXP 083 OR C MAN OXP 084 THEN the PHG shall not move to Operating state and the Test Procedure ends. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. IF the PHG under test responds with an Association Response (accepted-unknownconfig) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x06 0xA4 and including the glucose meter standard configuration objects. IF the PHG under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or Abort THEN IF C_MAN_OXP_083 OR C_MAN_OXP_084 THENthe PHG shall not move to Operating state and the Test Procedure ends. ii. IF C MAN OXP 085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. IF the PHG under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state ii. IF C_MAN_OXP_085 THEN: ☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. ☐ The simulated PHD sends rors-cmip-get with MDS attributes. ☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. ☐ The simulated PHD responds to the PHG under test so it moves to Operating. The simulated PHD sends a confirmed fixed event report with one iii. measurement for every object present in the configuration: ☐ If the PHG under test responds with a roer, rorj, rlrq or Abort then the test procedure ends. ☐ If the PHG under test responds with a rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the test procedure ends. IF the PHG under test responds with an Association Response (accepted) THEN: IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. IF C_MAN_OXP_085 THEN: The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes. ii. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to iv. Operating. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration: If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.

	ii. If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
Pass/Fail criteria	 In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PI	I T/PHG/O	XP/DIM/R\/_0	40				
TP label		TP/PLT/PHG/OXP/DIM/BV-049 Not supported specialization - Blood Pressure Monitor							
Coverage	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]								
Coverage	Spec Testable items		igerProc 3;)/ 3-2000 I·	-20100]		
Test purpos	е	Chec	k that:		1				
				A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.					
Applicability	Applicability			C_MAN_OXP_000 AND NOT(C_MAN_OXP_056)					
Other PICS		C_M/	AN_OXP_0	083, C_MAN_	OXP_084, C_MAN_0	XP_085			
Initial condi	tion	The s	simulated F	PHD and the I	PHG under test are in t	the Unasso	ociated state.		
Test proced	ure				ds an Association Requ C (blood pressure mor		PHG under test with dev-		
			F the PHG THEN:	under test re	sponds with an Associ	ation Resp	ponse (rejected-*) or an Abort,		
		а			3 OR C_MAN_OXP_0 and the test procedure		the PHG shall not move to		
		b			5 THEN the PHG shall nd the Test Procedure		to Configuring/Sending		
		id	config) THE	N the simula	ted PHD sends a confi	iguration e	conse (accepted-unknown- vent report with config-report- restandard configuration		
		а			est responds with a rors) or a Release Reques				
					P_083 OR C_MAN_O> ate and the Test Proce		HEN the PHG shall not move		
					P_085 THEN the PHG ate and the Test Proced		move to Configuring/Sending		
		b		PHG under te ted-config) TI	est responds with a rors HEN:	s-cmip-con	firmed-event-report		
				C_MAN_OX perating state		KP_085 TH	HEN the PHG moves to the		
			ii. IF	C_MAN_OX	P_085:				
					inder test moves to Co a roiv-cmip-get comma		Sending GetMDS substate		
				The simula	ted PHD sends rors-cn	nip-get wit	h MDS attributes.		
					inder test moves to Colaction command.	nfiguring/S	Sending Set Time and issues		
				The simula Operating.	ted PHD responds to the	he PHG ur	nder test so it moves to		
					PHD sends a confirmed or every object present				

	☐ If the PHG under test responds with a roer, rorj, rlrq or Abort then the test procedure ends.
	If the PHG under test responds with a rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the test procedure ends.
	4. IF the PHG under test responds with an Association Response (accepted) THEN:
	 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THENthe PHG moves to Operating state.
	b. IF C_MAN_OXP_085 THEN:
	 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
	ii. The simulated PHD sends rors-cmip-get with MDS attributes.
	iii. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
	iv. The simulated PHD responds to the PHG under test so it moves to Operating.
	 simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If the PHG under test responds with a roer, rorj, rlrq or Abort then the test procedure ends.
	 If the PHG under test responds with a rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the test procedure ends.
Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/PHG/OXP/DIM/BV-050				
TP label		Not supported specialization - Independent living activity hub				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerProc 3;M				
Test purpos	е	Check that:				
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.				
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_057)				
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085				
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.				
Test procedure		The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to an extended Config-Id.				
		2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN:				
		 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to the Operating state and the test procedure ends. 				
		 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 				

IF the PHG under test responds with an Association Response (accepted-unknownconfig) THEN simulated PHD sends a configuration event report including an extended configuration for the independent living activity hub. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or an Abort THEN: IF C MAN OXP 083 OR C MAN OXP 084 THEN the PHG shall not move to Operating state and the Test Procedure ends. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. IF the PHG under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN: IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. IF C MAN OXP 085 THEN: ☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. iii The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration for every object present in the configuration: If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends. If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end IF the PHG under test responds with an Association Response (accepted) THEN: IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to the Operating state. IF C_MAN_OXP_085 THEN: The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command The simulated PHD sends rors-cmip-get with MDS attributes. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration for every object present in the configuration: If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends. Pass/Fail criteria In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii). In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement. **Notes**

TP ld		TP/	/PLT	/PHG/	OXP/DIM/BV-0	 51	
TP label						- Strength fitness equipment	
Coverage	Spec					5A] and [ISO/IEEE 11073-2060	1-2016Cl
	Testable items			erProc			
Test purpos	е	Che	eck t	hat:			
				alization		he vendor as "not supported" is	s really not supported by the
Applicability	/	C_I	MAN	_OXP	_000 AND NOT	(C_MAN_OXP_058)	
Other PICS	Other PICS			_OXP	_083, C_MAN_	OXP_084, C_MAN_OXP_085	
Initial condit	The	e sim	nulated	PHD and the F	PHG under test are in the Unas	sociated state.	
Test proced	Test procedure				lated PHD send set to an extend		e PHG under test with the dev-
		2.		he PH ort, TH		sponds with an Association Re	sponse (rejected-*) or an
			a.			3 OR C_MAN_OXP_084 THE the Test Procedure ends.	N the PHG shall not move to
			b.			5 THEN the PHG shall not moved the Test Procedure ends.	ve to Configuring/Sending
		3.	cor	nfig) Th	HEN the simula	sponds with an Association Re ted PHD sends a configuration or the strength fitness equipme	event report including an
			a.			st responds with a rors-cmip-co) or Release Request or an Abo	
						P_083 OR C_MAN_OXP_084 Tate and the Test Procedure end	
						P_085 THEN the PHG shall not and the Test Procedure ends.	t move to Configuring/Sending
			b.		HG under test reg) THEN:	esponds with rors-cmip-confirm	ed-event-report (accepted-
					F C_MAN_OXF Operating state	P_083 OR C_MAN_OXP_084	THEN the PHG moves to
				ii. I	F C_MAN_OXF	P_085 THEN:	
				Į		nder test moves to Configuring a roiv-cmip-get command.	/Sending GetMDS substate
				[☐ The simula	ted PHD sends rors-cmip-get w	vith MDS attributes.
				(nder test moves to Configuring action command.	/Sending Set Time and issues
				(The simular Operating.	ted PHD responds to the PHG	under test so it moves to
						PHD sends a confirmed fixed expression of the confirmation of the	
				Į	☐ If PHG und Procedure	er test responds with roer, rorj, ends.	rlrq or Abort then Test
				(ore or display the received mea	-confirmed-event-report then it surement and the Test
		4.	IF t	he PH	G under test re	sponds with an Association Re	sponse (accepted) THEN:
			a.	IF C_ state		3 OR C_MAN_OXP_084 THEN	N the PHG moves to Operating
			b.	IF C_	MAN_OXP_08	5 THEN:	

	 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
	ii. The simulated PHD sends rors-cmip-get with MDS attributes.
	 The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
	iv. The simulated PHD responds to the PHG under test so it moves to Operating.
	c. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
	 ii. If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT	/PHG/OXP/DIM/BV-0	52				
TP label	TP label		Not supported specialization - Cardiovascular fitness and activity monitor					
Coverage	Spec	[ISO/IE	EE 11073-20601-201	5A] and [ISO/IEEE 11073-20601	-2016C]			
	Testable items	Manage	erProc 3;M					
Test purpos	е	Check t	hat:					
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.						
Applicability	1	C_MAN	OXP_000 AND NO	Γ(C_MAN_OXP_059)				
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085						
Initial condit	ion	The sim	The simulated PHD and the PHG under test are in the Unassociated state.					
Test proced	ure	 The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to an extended Config-Id. 						
			he PHG under test re ort, THEN:	sponds with an Association Res	ponse (rejected-*) or an			
		a.		33 OR C_MAN_OXP_084 THEN the Test Procedure ends.	the PHG shall not move to			
		b.		35 THEN the PHG shall not move nd the Test Procedure ends.	e to Configuring/Sending			
		cor	nfig) THEN the simula	esponds with an Association Res ted PHD sends a configuration or the cardiovascular fitness and	event report including an			
		a.		est responds with a rors-cmip-co) or Release Request or an Abo				
				P_083 OR C_MAN_OXP_084 T ate and the Test Procedure ends				
				P_085 THEN the PHG shall not ate and the Test Procedure ends				
		b.	IF PHG under test reconfig) THEN:	esponds with rors-cmip-confirme	ed-event-report (accepted-			
			i. IF C_MAN_OXI Operating state	P_083 OR C_MAN_OXP_084 T	HEN the PHG moves to			

4.		iii. si fo	and issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
4.		iii. si fo	and issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. mulated PHD sends a confirmed fixed event report with one measurement or every object present in the configuration: If the PHG under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. If the PHG under test responds with a rors-cmip-confirmed-event-report
4.		iii. si fo	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. mulated PHD sends a confirmed fixed event report with one measurement or every object present in the configuration: If the PHG under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. If the PHG under test responds with a rors-cmip-confirmed-event-report
4.		iii. si fo	a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. mulated PHD sends a confirmed fixed event report with one measurement or every object present in the configuration: If the PHG under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. If the PHG under test responds with a rors-cmip-confirmed-event-report
4.		iii. si fo	Operating. mulated PHD sends a confirmed fixed event report with one measurement or every object present in the configuration: If the PHG under test responds with a roer, rorj, rIrq or an Abort then the test procedure ends. If the PHG under test responds with a rors-cmip-confirmed-event-report
4.		fo □	r every object present in the configuration: If the PHG under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. If the PHG under test responds with a rors-cmip-confirmed-event-report
4.			test procedure ends. If the PHG under test responds with a rors-cmip-confirmed-event-report
4.			
4.			procedure ends.
	3	the PHG	Gunder test responds with an Association Response (accepted) THEN:
	a.	IF C_N state.	MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating
	b.	IF C_N	MAN_OXP_085 THEN:
			ne PHG under test moves to Configuring/Sending GetMDS substate and sues a roiv-cmip-get command.
		ii. Th	ne simulated PHD sends rors-cmip-get with MDS attributes.
			ne PHG under test moves to Configuring/Sending Set Time and issues a et Time action command.
		iv. Th	ne simulated PHD responds to the PHG under test so it moves to Operating
	C.		mulated PHD sends a confirmed fixed event report with one measurement ery object present in the configuration:
			the PHG under test responds with a roer, rorj, rlrq or an Abort then the test rocedure ends.
		it	the PHG under test responds with a rors-cmip-confirmed-event-report then shall not store or display the received measurement and the test procedure nds.
Pass/Fail criteria •			r step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or g/Sending GetMDS (2.b and 3.a.ii).
•	PH		or step 4, the PHG does not accept the received measurement or if the ots the measurement then it shall not store or display the received ent.
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-053				
TP label		Not supported specialization - Weighing scale				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerProc 3;M				
Test purpose		Check that: A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.				
Applicability		C_MAN_OXP_000 AND NOT(C_MAN_OXP_060)				
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085				
Initial condition		The simulated PHD and the PHG under test are in the Unassociated state.				

Test procedure

- The simulated PHD sends an Association Request to the PHG under test with the devconfig-id set to 0x05 0xDC (weighing scales).
- IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THFN:
 - a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.
 - b. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
- IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x05 0xDC and including weighing scales standard configuration objects.
 - a. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN:
 - i. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.
 - ii. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
 - IF the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN:
 - i. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
 - ii. IF C_MAN_OXP_085 THEN:
 - ☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
 - ☐ The simulated PHD sends rors-cmip-get with MDS attributes.
 - ☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
 - ☐ The simulated PHD responds to the PHG under test so it moves to Operating..
 - iii. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
 - ☐ If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
 - ☐ If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end.
- 4. IF the PHG under test responds with an Association Response (accepted) THEN:
 - IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
 - b. IF C_MAN_OXP_085 THEN:
 - i. The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
 - ii. The simulated PHD sends rors-cmip-get with MDS attributes.
 - iii. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
 - iv. The simulated PHD responds to the PHG under test so it moves to Operating.
 - c. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
 - If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
 - If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.

Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP Id		TP/PLT/PHG/OXP/DIM/BV-054						
TP label		Not supported specialization - Thermometer						
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]						
	Testable items	ManagerProc 3;M						
Test purpos	е	Check that:						
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.						
Applicability	1	C_MAN_OXP_000 AND NOT(C_MAN_OXP_061)						
Other PICS		C_I	MAN <u>.</u>	OXP_083,	C_MAN_OXP_084, C_MAN_OXP_085			
Initial condit	ion	The	e sim	lated PHD	and the PHG under test are in the Unassociated state.			
Test proced	ure	1.			PHD sends an Association Request to the PHG under test with the dev- 0x03 0x20 (thermometer).			
		2.						
			a.		_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to state and the Test Procedure ends.			
			b.		_OXP_085 THEN the PHG shall not move to Configuring/Sending ubstate and the Test Procedure ends.			
		3.	3. IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x03 0x20 and including thermometer standard configuration objects.					
			a.		Gunder test responds with rors-cmip-confirmed-event-report red-config) or Release Request or Abort THEN:			
					MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move erating state and the Test Procedure ends.			
					MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending OS substate and the Test Procedure ends.			
			b.	IF the PHG config) TH	G under test responds with rors-cmip-confirmed-event-report (accepted-EN:			
					MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to ting state.			
				ii. IF C_I	MAN_OXP_085 THEN:			
					he PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.			
				υт	he simulated PHD sends rors-cmip-get with MDS attributes.			
					he PHG under test moves to Configuring/Sending Set Time and issues Set Time action command.			
					he simulated PHD responds to the PHG under test so it moves to perating			
					mulated PHD sends a confirmed fixed event report with one urement for every object present in the configuration:			
					the PHG under test responds with roer, rorj, rIrq or Abort then Test rocedure ends.			

			☐ If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end
	4.	IF the F	PHG under test responds with an Association Response (accepted) THEN:
		a. IF (C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating te.
		b. IF	C_MAN_OXP_085 THEN:
		i.	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
		ii.	The simulated PHD sends rors-cmip-get with MDS attributes.
		iii.	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
		iv.	The simulated PHD responds to the PHG under test so it moves to Operating.
			e simulated PHD sends a confirmed fixed event report with one measurement every object present in the configuration:
		i.	If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
		ii.	If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.
Pass/Fail criteria	•		2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or ring/Sending GetMDS (2.b and 3.a.ii).
	•		3.b or step 4, the PHG does not accept the received measurement or if the cepts the measurement then it shall not store or display the received ement.
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-055							
TP label		Not supported specialization - Pulse Oximeter							
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]							
	Testable Items	ManagerProc 3;M							
Test purpos	e	Che	ck that:						
			A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.						
Applicability	y	C_N	IAN_OXP_000 AND NOT(C_MAN_OXP_062)						
Other PICS		C_N	C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085						
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.							
Test proced	ure	The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to 0x01 0x90 (pulse oximeter).							
			2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN:						
			 IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 						
			 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 						
		3.	IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x01 0x90 and including the pulse oximeter standard configuration objects.						
		 a. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN: 							

		i.	IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.
		ii.	IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
	ŀ		he PHG under test responds with rors-cmip-confirmed-event-report (accepted-fig) THEN:
		i.	IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
		ii.	IF C_MAN_OXP_085 THEN:
			☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
			☐ The simulated PHD sends rors-cmip-get with MDS attributes.
			☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
			☐ The simulated PHD responds to the PHG under test so it moves to Operating.
		iii.	The simulated PHD sends a unconfirmed fixed event report with one measurement for every object present in the configuration:
			☐ If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
			☐ If time-out expires and no message is received PHG shall not store or display the received measurement and the Test Procedure end
	4. I	IF the P	HG under test responds with an Association Response (accepted) THEN:
		a. IF C stat	C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating e.
	ŀ	b. IF C	C_MAN_OXP_085 THEN:
		i.	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
		ii.	The simulated PHD sends rors-cmip-get with MDS attributes.
		iii.	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
		iv.	The simulated PHD responds to the PHG under test so it moves to Operating.
	(e simulated PHD sends a unconfirmed fixed event report with one asurement for every object present in the configuration:
		i.	If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
		ii.	If time-out expires and no message is received PHG shall not store or display the received measurement and the Test Procedure ends.
Pass/Fail criteria			2 or step 3.a, the PHG does not move to Operating state (2.a and 3.a.i) or ring/Sending GetMDS (2.b and 3.a.ii).
	I		3.b or step 4, the PHG does not accept the received measurement or if the cepts the measurement then it shall not store or display the received ement.
Notes			

TP Id		TP/PLT/PHG/OXP/DIM/BV-056				
TP label		Not supported specialization - Adherence Monitor				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
Testable items		ManagerProc 3;M				
Test purpose		Check that:				

	A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.					
Applicability	C_MAN_OXP_000 AND NOT(C_MAN_OXP_052)					
Other PICS	C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085					
Initial condition	The simulated PHD and the PHG under test are in the Unassociated state.					
Test procedure	 The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to 0x1C 0x20 (adherence monitor). 					
	2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort THEN:					
	 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 					
	 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 					
	 IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x1C 0x20 and including the adherence monitor standard configuration objects. 					
	 a. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN: 					
	 IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 					
	 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 					
	 IF the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN: 					
	 i. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. 					
	ii. IF C_MAN_OXP_085 THEN:					
	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.					
	☐ The simulated PHD sends rors-cmip-get with MDS attributes.					
	☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.					
	The simulated PHD responds to the PHG under test so it moves to Operating.					
	iii. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:					
	If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.					
	If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end					
	4. IF the PHG under test responds with an Association Response (accepted) THEN:					
	 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. 					
	b. IF C_MAN_OXP_085 THEN:					
	 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. 					
	ii. The simulated PHD sends rors-cmip-get with MDS attributes.					
	 The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. 					
	iv. The simulated PHD responds to the PHG under test so it moves to Operating					

	c. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
	 If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.
Pass/Fail criteria	• In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/PHG/OXP/DIM/BV-058							
TP label	TP label		Not supported specialization - Peak Flow						
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]							
	Testable items	Managei	rProc 3;M						
Test purpos	e	Check th	nat:						
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.							
Applicability	у	C_MAN_OXP_000 AND NOT(C_MAN_OXP_054)							
Other PICS		C_MAN_	OXP_083,	C_MAN_	OXP_084, C_MA	N_OXP_085			
Initial condi	tion	The simu	ulated PHD	and PHG	under test are in	the Unassocia	ted state.		
Test proced	lure				ds an Association 4 (peak flow).	Request to the	PHG under test with the dev-		
		2. IF th		der test re	sponds with an A	ssociation Resp	oonse (rejected-*) or an Abort,		
		 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 							
		b.	e to Configuring/Sending						
		3. IF the PHG under test responds with an Association Response (accepted-unknow config) THEN the simulated PHD sends a configuration event report with the confireport-id set to 0x08 0x34 and including the peak flow standard configuration objective.							
		a.			st responds with) or Release Req		rmed-event-report HEN:		
					P_083 OR C_MA ate and the Test F		HEN the PHG shall not move		
					P_085 THEN the ate and the Test F		move to Configuring/Sending		
			IF the PHO config) TH		st responds with	rors-cmip-confi	rmed-event-report (accepted-		
				MAN_OXI		N_OXP_084 TH	HEN the PHG moves to		
			ii. IF C_I	MAN_OXI	P_085 THEN:				
					nder test moves t a roiv-cmip-get c		Sending GetMDS substate		
			□ T	he simula	ted PHD sends ro	ors-cmip-get wit	h MDS attributes.		
					nder test moves action command		Sending Set Time and issues		

	The simulated PHD responds to the PHG under test so it moves to Operating.
	iii. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
	If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
	If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end
	4. IF the PHG under test responds with an Association Response (accepted) THEN:
	 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
	b. IF C_MAN_OXP_085 THEN:
	 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
	ii. The simulated PHD sends rors-cmip-get with MDS attributes.
	 The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
	iv. The simulated PHD responds to the PHG under test so it moves to Operating
	c. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
	 If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.
Pass/Fail criteria	 In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP Id		TP/PLT/PHG/OXP/DIM/BV-059					
TP label		Not supported specialization - Body Composition Analyser					
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
	Testable items	ManagerProc 3;M					
Test purpos	e e	Check that:					
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.					
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_051)					
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085					
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.					
Test procedure		The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to 0x07 0xD0 (body composition analyser).					
		2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN:					
		IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.					

- IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
- IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x07 0xD0 and including the body composition analyser configuration objects.
 - a. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN:
 - IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.
 - ii. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS and the Test Procedure ends..
 - IF the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN:
 - i. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
 - ii. IF C MAN OXP 085 THEN:
 - ☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
 - ☐ The simulated PHD sends rors-cmip-get with MDS attributes.
 - ☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
 - The simulated PHD responds to the PHG under test so it moves to Operating.
 - iii. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
 - ☐ If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
 - ☐ If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end
- 4. IF the PHG under test responds with an Association Response (accepted) THEN:
 - IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
 - b. IF C_MAN_OXP_085 THEN:
 - The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
 - ii. The simulated PHD sends rors-cmip-get with MDS attributes.
 - The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
 - iv. The simulated PHD responds to the PHG under test so it moves to Operating.
 - c. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
 - If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
 - If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.

Pass/Fail criteria

- In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
- In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.

Notes	

TP ld		TP/	PLT/	/PHG/OX	XP/DIM/BV-060		
TP label					pecialization - Basic ECG specialization/Heart Rate profile		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
_	Testable items	Mar	nage	rProc 3;N	M		
Test purpos	е	Che	eck t	hat:			
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.					
Applicability	1	C_N	C_MAN_OXP_000 AND NOT(C_MAN_OXP_064)				
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085					
Initial condit	ion	The simulated PHD and the PHG under test are in the Unassociated state.					
Test proced	ure	 The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to 0x02 0x58 (heart rate profile). 					
		2.	2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN:				
			a.		MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to ing state and the Test Procedure ends.		
			b.		MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending S substate and the Test Procedure ends.		
		 IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x02 0x58 and including the Heart Rate Profile configuration objects. 					
			a.		PHG under test responds with rors-cmip-confirmed-event-report ported-config) or Release Request or Abort THEN:		
					C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move Operating state and the Test Procedure ends.		
					C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending etMDS substate and the Test Procedure ends.		
			b.	IF the PI config) T	PHG under test responds with rors-cmip-confirmed-event-report (accepted-THEN:		
					C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to perating state.		
					C_MAN_OXP_085 THEN:		
					The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.		
					The simulated PHD sends rors-cmip-get with MDS attributes.		
					The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.		
					The simulated PHD responds to the PHG under test so it moves to Operating.		
					e simulated PHD sends a confirmed fixed event report with one easurement for every object present in the configuration:		
					If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.		
					If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end		
		4.	IF t	he PHG ι	under test responds with an Association Response (accepted) THEN:		

	a.	a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating	
		state.	
	b.	IF C_MAN_OXP_085 THEN:	
		 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. 	
		ii. The simulated PHD sends rors-cmip-get with MDS attributes.	
		iii. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.	
		iv. The simulated PHD responds to the PHG under test so it moves to Operating.	
	c.	The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:	
		 If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends. 	
		 If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends. 	
Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).		
	PH	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement. 	
Notes			

TP ld		TP/PLT/PHG/OXP/DIM/BV-061				
TP label		Not supported specialization - Basic ECG specialization/Simple ECG profile				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerProc 3;M				
Test purpos	е	Check that:				
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.				
Applicability C_MAN_OXP_000 AND NOT(C_MAN_OXP_065)						
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085				
Initial condi	The simulated PHD and the PHG under test are in the Unassociated state.					
Test procedure		The simulated PHD sends an Association Request to the PHG under test with the dev- config-id set to an extended Config-Id.				
		2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN:				
		 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 				
		 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 				
		IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report including an extended configuration for the Simple ECG Profile (one RT-SA object for the ECG Waveform and one scanner referenced to RT-SA):				
		 IF PHG under test responds with rors-cmip-confirmed-event-report (unsupported- config) or Release Request or Abort THEN: 				
		 IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 				
		 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 				

IF PHG under test responds with rors-cmip-confirmed-event-report (acceptedconfig) THEN: i. IF C MAN OXP 083 OR C MAN OXP 084 THEN the PHG moves to Operating state. IF C_MAN_OXP_085THEN: ☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. The Test Tool requests to Test Operator to enable the scanner ☐ If the PHG does not enable the scanner then Test Procedure ends. ☐ If the PHG enables the scanner then simulated PHD sends a confirmed Unbuf-Scan-Report-Fixed with one measurement for RT-SA: If the PHG under test responds with roer, rori, rlrg or Abort then Test Procedure ends. If the PHG under test responds with rors-cmip-confirmed-eventreport then it shall not store or display the received measurement and the Test Procedure end IF the PHG under test responds with an Association Response (accepted) THEN: a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. IF C MAN OXP 085 THEN: The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command. The simulated PHD responds to the PHG under test so it moves to Operating. The Test Tool requests to Test Operator to enable the scanner i. If the PHG does not enable the scanner then Test Procedure ends If the PHG enables the scanner then simulated PHD sends a confirmed Unbuf-Scan-Report-Fixed with one measurement for RT-SA: If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends. If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends. Pass/Fail criteria In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii). In step 3.b or step 4, the PHG does not accept the received measurement or if PHG accepts the measurement then it shall not store or display the received measurement. **Notes**

TP ld		TP/PLT/PHG/OXP/DIM/BV-062				
TP label		Not supported specialization - International Normalized Ratio				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerProc 3;M				

Test purpose	Check that:		
	A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.		
Applicability	C_MAN_OXP_000 AND NOT(C_MAN_OXP_066)		
Other PICS	C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085		
Initial condition	The simulated PHD and the PHG under test are in the Unassociated state.		
Test procedure	 The simulated PHD sends an Association Request to the PHG under test with the de config-id set to 0x07 0x08 (international normalized ratio). 		
	2. IF the PHG under test responds with an Association Response (rejected-*) or an Abort, THEN:		
	 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 		
	 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 		
	3. IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN the simulated PHD sends a configuration event report with the configreport-id set to 0x07 0x08 and including the international normalized ratio configuration objects.		
	 a. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN: 		
	 IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. 		
	 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 		
	 IF the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN: 		
	 i. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. 		
	ii. IF C_MAN_OXP_085 THEN:		
	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.		
	☐ The simulated PHD sends rors-cmip-get with MDS attributes.		
	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.		
	The simulated PHD responds to the PHG under test so it moves to Operating.		
	iii. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:		
	If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.		
	If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end		
	4. IF the PHG under test responds with an Association Response (accepted) THEN:		
	 a. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. 		
	b. IF C_MAN_OXP_085 THEN:		
	 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command. 		
	ii. The simulated PHD sends rors-cmip-get with MDS attributes.		
	iii. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.		

	iv. The simulated PHD responds to the PHG under test so it moves to Operating.
	 The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
	 If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.
Pass/Fail criteria	In step 2 or step 3.a, the PHG does not move to the Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, the PHG does not accept the received measurement or if the PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/PHG/OXP/DIM/BV-063									
TP label		No	Not supported specialization – Sleep Apnoea Breathing Therapy Equipment								
Coverage	Spec	[IS	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]								
	Testable items	Ма	ManagerProc 3;M								
Test purpos	е	Ch	Check that:								
			A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.								
Applicability	1	C_	MAN_(OXP_000 AND NOT(C_MAN_OXP_068)							
Other PICS		C_	MAN_0	OXP_083, C_MAN_OXP_084, C_MAN_OXP_085							
Initial condit	tion	The	e simul	ated PHD and the PHG under test are in Unassociated state							
Test procedure			 The simulated PHD sends an Association Request to the PHG under test with dev-configid set to 0x09 0x60 (Sleep Apnoea Breathing Therapy Equipment) 								
			 IF the PHG under test responds with an Association Response (rejected-*) or Abort, THEN: 								
				F C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.							
				F C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.							
			config	e PHG under test responds with an Association Response (accepted-unknowng) THEN simulated PHD sends a configuration event report with config-report-id set 0.7 0x08 and including International Normalized Ratio configuration objects.							
				F the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN:							
			i	i. IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.							
			i	 IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. 							
				F the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN:							
			i	 IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state. 							
			ii	i. IF C_MAN_OXP_085 THEN:							

T				
				☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
				☐ The simulated PHD sends rors-cmip-get with MDS attributes.
				☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
				☐ The simulated PHD responds to the PHG under test so it moves to Operating.
			iii.	The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
				 If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
				ii. If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure end
	4.	IF	the F	HG under test responds with an Association Response (accepted) THEN:
		a.	IF (C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating e.
		b.	IF (C_MAN_OXP_085 THEN:
			i.	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
			ii.	The simulated PHD sends rors-cmip-get with MDS attributes.
			iii.	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
			iv.	The simulated PHD responds to the PHG under test so it moves to Operating.
		C.		simulated PHD sends a confirmed fixed event report with one measurement for ry object present in the configuration:
			i.	If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
			ii.	If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends.
Pass/Fail criteria	•	In s Co	step infigu	2 or step 3.a, PHG does not move to Operating state (2.a and 3.a.i) or ring/Sending GetMDS (2.b and 3.a.ii).
	•			B.b or step 4, PHG does not accept the received measurement or if PHG accepts surement then it shall not store or display the received measurement.
Notes				

TP Id		TP/PLT/PHG/OXP/DIM/BV-064						
TP label		Not supported specialization – Insulin Pump						
Coverage	Spec	[ISO/IEEE 11073-20601-2015A]						
	Testable items	ManagerProc 3;M						
Test purpos	e	Check that:						
		A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.						
Applicability	1	C_MAN_OXP_000 AND NOT(C_MAN_OXP_070)						
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_C	C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085					

Initial condition	Th	e The	e sim	ulated PHD and the PHG under test are in Unassociated state
Test procedure	1.			ulated PHD sends an Association Request to the PHG under test with dev-config-0x07 0x6C (Insulin Pump)
	2.		he P EN:	HG under test responds with an Association Response (rejected-*) or Abort,
		a.		C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to erating state and the Test Procedure ends.
		b.		C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending MDS substate and the Test Procedure ends.
	3.	cor	nfig) ⁻	HG under test responds with an Association Response (accepted-unknown- FHEN simulated PHD sends a configuration event report with config-report-id set 0x6C and including Insulin Pump configuration objects.
		a.		he PHG under test responds with rors-cmip-confirmed-event-report (unsupported- fig) or Release Request or Abort THEN:
			i.	IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends.
			ii.	IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
		b.		he PHG under test responds with rors-cmip-confirmed-event-report (accepted-fig) THEN:
			i.	IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating state.
			ii.	IF C_MAN_OXP_085 THEN:
				☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
				☐ The simulated PHD sends rors-cmip-get with MDS attributes.
				☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
				☐ The simulated PHD responds to the PHG under test so it moves to Operating.
			iii.	The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
				☐ If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
				☐ If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
	4.	IF t	he P	HG under test responds with an Association Response (accepted) THEN:
		a.	IF (C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating e.
		b.	IF (C_MAN_OXP_085 THEN:
			i.	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
			ii.	The simulated PHD sends rors-cmip-get with MDS attributes.
			iii.	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
			iv.	The simulated PHD responds to the PHG under test so it moves to Operating.
		C.		simulated PHD sends a confirmed fixed event report with one measurement for ry object present in the configuration:
			i.	If the PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.

	ii. If the PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
Pass/Fail criteria	 In step 2 or step 3.a, PHG does not move to Operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	In step 3.b or step 4, PHG does not accept the received measurement or if PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP Id		TP/PLT/PHG/OXP/DIM/BV-065
TP label		Not supported specialization – Continuous Glucose Monitor
Coverage	Spec	[ISO/IEEE 11073-20601-2015A]
	Testable items	ManagerProc 3;M
Test purpos	e	Check that: A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.
Applicability	•	C_MAN_OXP_000 AND NOT(C_MAN_OXP_072)
Other PICS		C_MAN_OXP_083, C_MAN_OXP_084, C_MAN_OXP_085
Initial condit	ion	The simulated PHD and the PHG under test are in Unassociated state
Test procedo	ure	 The simulated PHD sends an Association Request to the PHG under test with dev-configid set to 0x09 0xC4 (Continuous Glucose Monitor) IF the PHG under test responds with an Association Response (rejected-*) or Abort, THEN: IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN simulated PHD sends a configuration event report with config-report-id set to 0x09 0xC4 and including Continuous Glucose Monitor configuration objects. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN: IF C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG shall not move to Operating state and the Test Procedure ends. IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends. IF the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN:
		issues a roiv-cmip-get command. The simulated PHD sends rors-cmip-get with MDS attributes.

	т —			
				☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
				☐ The simulated PHD responds to the PHG under test so it moves to Operating.
			iii.	The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
				☐ If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
				☐ If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
	4.	IF	the P	PHG under test responds with an Association Response (accepted) THEN:
		a.	IF (C_MAN_OXP_083 OR C_MAN_OXP_084 THEN the PHG moves to Operating te.
		b.	IF (C_MAN_OXP_085 THEN:
			i.	The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
			ii.	The simulated PHD sends rors-cmip-get with MDS attributes.
			iii.	The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
			iv.	The simulated PHD responds to the PHG under test so it moves to Operating.
		C.		e simulated PHD sends a confirmed fixed event report with one measurement for ery object present in the configuration:
			i.	If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
			ii.	If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
Pass/Fail criteria	•			2 or step 3.a, PHG does not move to Operating state (2.a and 3.a.i) or ring/Sending GetMDS (2.b and 3.a.ii).
	•			3.b or step 4, PHG does not accept the received measurement or if PHG accepts asurement then it shall not store or display the received measurement.
Notes				

TP ld		TP/PLT/PHG/OXP/DIM/BV-066						
TP label		Not supported specialization – Power Status Monitor with Simple PSM profile						
Coverage	Spec	[ISO/IEEE 11073-20601-2015A]						
	Testable items	ManagerProc 3;M						
Test purpos	se	Check that: A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.						
Applicability	y	C_MAN_OXP_000 AND NOT(C_MAN_OXP_074)						
Other PICS		C_MAN_OXP_084, C_MAN_OXP_085						
Initial condi	tion	The simulated PHD and the PHG under test are in Unassociated state						

Test procedure

- The simulated PHD sends an Association Request to the PHG under test with dev-configid set to 0x0A8C (2700)
- IF the PHG under test responds with an Association Response (rejected-*) or Abort, THEN:
 - IF C_MAN_OXP_084 THEN the PHG shall not move to operating state and the Test Procedure ends.
 - IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
- IF the PHG under test responds with an Association Response (accepted-unknown-config) THEN simulated PHD sends a configuration event report with config-report-id set to one of the ones mentioned in step 1 and including power status monitor configuration objects.
 - a. IF the PHG under test responds with rors-cmip-confirmed-event-report (unsupported-config) or Release Request or Abort THEN:
 - IF C_MAN_OXP_084 THEN the PHG shall not move to operating state and the Test Procedure ends.
 - IF C_MAN_OXP_085 THEN the PHG shall not move to Configuring/Sending GetMDS substate and the Test Procedure ends.
 - IF the PHG under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN:
 - i. IF C_MAN_OXP_084 THEN the PHG moves to operating state.
 - ii. IF C MAN OXP 085 THEN:
 - ☐ The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
 - ☐ The simulated PHD sends rors-cmip-get with MDS attributes.
 - ☐ The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
 - The simulated PHD responds to the PHG under test so it moves to Operating.
 - iii. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
 - If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
 - ☐ If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
- 4. IF the PHG under test responds with an Association Response (accepted) THEN:
 - a. IF C_MAN_OXP_084 THEN the PHG moves to operating state.
 - b. IF C_MAN_OXP_085 THEN:
 - The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
 - ii. The simulated PHD sends rors-cmip-get with MDS attributes.
 - iii. The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
 - iv. The simulated PHD responds to the PHG under test so it moves to Operating.
 - c. The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
 - If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
 - If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends

Pass/Fail criteria	 In step 2 or step 3.a, PHG does not move to operating state (2.a and 3.a.i) or Configuring/Sending GetMDS (2.b and 3.a.ii).
	 In step 3.b or step 4, PHG does not accept the received measurement or if PHG accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/PHG/OXP/DIM/BV-067											
TP label		Not supported specialization – Power Status Monitor with Advanced PSM pro								nced PSM profile			
Coverage	Spec	[IS	O/IEE	E 11	073	3-20601-2015	[A]						
	Testable items	Ма	ManagerProc 3;M										
Test purpose	9	Ch	Check that:										
			A specialization declared by the vendor as "not supported" is really not supported by the PHG under test.										
Applicability	,	C_	MAN_	_OXF	- _00	00 AND NOT	(C_MAN_O	XP_075)					
Other PICS		C_	MAN_	OXF	2_08	84, C_MAN_	OXP_085						
Initial condit	ion	The	e simı	ulate	d Pl	HD and the P	HG under te	est are in Unassoc	ciated	d state			
Test procedu	ure	1.	The simulated PHD sends an Association Request to the PHG under tes id set to an extended configuration between 0x4000-0x7FFF (Power Star Advanced PSM profile)										
		2.	2. IF the PHG under test responds with an Association Response THEN:						nse (rejected-*) or Abort,				
						AN_OXP_08 ure ends.	1 THEN the	PHG shall not mo	ve to	o operating state and the Test			
								PHG shall not mo rocedure ends.	ove to	o Configuring/Sending			
			conf	fig) T ne of	HE	N simulated I	PHD sends a	configuration even	ent re	nse (accepted-unknown- eport with config-report-id set status monitor configuration			
						HG under te or Release R			nfirm	ed-event-report (unsupported-			
				i.		C_MAN_OXF st Procedure		the PHG shall no	ot mo	ve to operating state and the			
				ii.				the PHG shall no est Procedure end		ve to Configuring/Sending			
						HG under te: THEN:	st responds v	with rors-cmip-cor	nfirm	ed-event-report (accepted-			
				i.	IF (C_MAN_OXF	_084 THEN	the PHG moves	to op	perating state.			
				ii.	IF (C_MAN_OXF	_085 THEN	:					
							nder test mo v-cmip-get c		g/Ser	nding GetMDS substate and			
						The simulat	ed PHD sen	ds rors-cmip-get	with I	MDS attributes.			
							nder test mo		g/Ser	nding Set Time and issues a			

			☐ The simulated PHD responds to the PHG under test so it moves to Operating.
		ii	 The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
			If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
			If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
	4.	IF the	PHG under test responds with an Association Response (accepted) THEN:
		a. I	F C_MAN_OXP_084 THEN the PHG moves to operating state.
		b. I	F C_MAN_OXP_085 THEN:
			 The PHG under test moves to Configuring/Sending GetMDS substate and issues a roiv-cmip-get command.
		i	i. The simulated PHD sends rors-cmip-get with MDS attributes.
		ii	 The PHG under test moves to Configuring/Sending Set Time and issues a Set Time action command.
		iv	7. The simulated PHD responds to the PHG under test so it moves to Operating.
			The simulated PHD sends a confirmed fixed event report with one measurement for every object present in the configuration:
			 If PHG under test responds with roer, rorj, rlrq or Abort then Test Procedure ends.
		i	 If PHG under test responds with rors-cmip-confirmed-event-report then it shall not store or display the received measurement and the Test Procedure ends
Pass/Fail criteria	•		ep 2 or step 3.a, PHG does not move to operating state (2.a and 3.a.i) or guring/Sending GetMDS (2.b and 3.a.ii).
	•		ep 3.b or step 4, PHG does not accept the received measurement or if PHG accepts neasurement then it shall not store or display the received measurement.
Notes			

A.4 Subgroup 2.2.3: PHD service model (SER)

TP Id		TP/PLT/PHG/OXP/SER/BV-000				
TP label		Configuration event report. Configuration Response Format				
Coverage	Spec	[ISO/IE	EEE 11073-20601-201	5A] and [ISO/IEEE 11073-20601	-2016C]	
	Testable items	ObjAco	cessServ 2;M	ConfNormalProc 8;M		
Test purpos	e	Check	that:			
		The PHG shall respond (to the configuration event) with a "Remote Operation Response Confirmed Event Report" message with an event-type of MDC_NOTI_CONFIG filling in the ConfigReportRsp structure or with an appropriate roer error message with a suitable return code.				
Applicability	/	C_MAI	N_OXP_000			
Other PICS						
Initial condi	tion		mulated PHD and the Five any configuration me	PHG under test are in the Unass emorised.	ociated state. The PHG must	
Test proced	ure			sends an Association Request to the PHG dev-config-id in the ex		
			ne PHG under test resp nfig".	onds with an Association Respo	onse with "accepted-unknown-	
		3. Th	ith an extended configuration			
		4. The PHG under test must respond with:				
		5. Received message by the PHD must be:				
		a. APDU Type				
			☐ field-length = 2			
			☐ field-value = 0xl	E7 0x00 (PrstAdpu)		
		b. Invoke-id				
			☐ field-type = INT-	-U16		
			☐ field-length = 2	bytes		
			field-value = It n message.	nust be the same as the invoke-	id of the simulated PHD's	
		C.	Obj-Handle:			
			☐ field-type = HAN	NDLE		
			☐ field-length = 2	bytes		
			☐ field-value = 0x0	00 0x00		
		d.	Event-time:			
			☐ field-type = INT-	-U32		
			☐ field-length = 4	bytes		
			☐ field-value: <re< td=""><td>lative time> OR <0xFF 0xFF 0xI</td><td>FF 0xFF></td></re<>	lative time> OR <0xFF 0xFF 0xI	FF 0xFF>	
		e.	Event-type:			
			☐ field-length = 2	bytes		
			☐ field-value = 0x0	DD 0x1C (MDC_NOTI_CONFIG		
		f.	The following six byt	es indicates:		
			Event-replay-inf	o.length (2 bytes)		
				sp.config-report-id:it must be the PHD's message	same as the config-report-id	

	☐ ConfigReportRsp.config-result:One of:
	accepted-config:0x00 0x00
Pass/Fail criteria	The message sent by the PHG under test must be the one specified.
Notes	We just want to test the format of the report, the unsupported-config behaviour is tested in TP/PLT/PHG/OXP/COM/BV-005

TP ld		TP/PLT/PHG/OXP/SER/BV-003_A					
TP label		Fixed format event report. Single-person unconfirmed event report.					
Coverage	Spec	•	1-2015A] and [ISO/IEEE 11073-20				
cororago	Testable	ObjAccessServ 2;M	MeasureDataTransf 8:C	PersonEventRep 1;M			
	items	FormatEventRep 3;M	moderne attantore, e	T GIGGILE TOTAL TOP 1,111			
	Spec	[b-ITU-T H.810 (2015)]					
	Testable items	Conformance 1; M					
Test purpos	e	Check that:					
		A PHG receiving a confirmed event report from the PHD shall respond with either a rors- cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.					
		[AND]					
		If a PHD uses agent-initiated measurements and if the Unconfirmed Event Report is used, the PHG shall not respond.					
		[AND]					
		A PHG shall support single-person event reports.					
		[AND]					
		A PHG shall support fixed format event reports.					
Applicability	y	C_MAN_OXP_000					
Other PICS							
Initial condition		The simulated PHD and the PHG under test are in the Operating state.					
Test procedure		The simulated PHD test sends an unconfirmed Fixed event report to the PHG under test.					
		Verify that the PHG under test does not send a confirmation.					
Pass/Fail criteria		In step 2 no confirmation can be received by the simulated PHD.					
Notes							

TP ld		TP/PLT/PHG/OXP/SER/BV-003_B				
TP label		Fixed format event report. Single-person confirmed event report.				
Coverage	Spec	[ISO/IEEE 11073-20601-2015	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable	ObjAccessServ 2;M	MeasureDataTransf 7;C	PersonEventRep 1;M		
	items	FormatEventRep 3;M				
	Spec	[b-ITU-T H.810 (2015)]				
	Testable items	Conformance 1; M				
Test purpose		Check that:				
			event report from the PHD shal or an appropriate roer error mes			

	[AND]					
	A PHG shall support single-person event reports.					
	[AND]					
	A PHG shall support fixed format event reports.					
Applicability	C_MAN_OXP_000					
Other PICS						
Initial condition	The simulated PHD and the PHG under test are in the Operating state.					
Test procedure	The simulated PHD sends a confirmed Fixed event report to the PHG under test.					
- 	2. The PHG under test sends a confirmation:					
	a. APDU Type					
	☐ field-length = 2 bytes					
	☐ field-value = 0xE7 0x00 (PrstAdpu)					
	b. Invoke-id					
	☐ field-type = INT-U16					
	☐ field-length = 2 bytes					
	field-value = It must be the same as the invoke-id of the simulated PHD's message.					
	c. The following two bytes indicate:					
	message type = 0x02 0x01 (Remote Operation Response Confirmed Event Report)					
	d. Obj-Handle:					
	☐ field-type = HANDLE					
	☐ field-length = 2 bytes					
	☐ field-value = 0 (MDS object)					
	e. Event-time:					
	☐ field-type = INT-U32					
	☐ field-length = 4 bytes					
	☐ field-value: <not for="" relevant="" test="" this=""></not>					
	f. Event-type:					
	☐ field-length = 2 bytes					
	☐ field-value = 0x0D 0x1D (MDC_NOTI_SCAN_REPORT_FIXED)					
	g. event-reply-info					
	☐ field-length = 0 bytes (0x00 0x00)					
	☐ field-value = empty (0x00 0x00)					
Pass/Fail criteria	The confirmation message must be like the one specified.					
Notes						

TP Id		TP/PLT/PHG/OXP/SER/BV-003_C				
TP label		Fixed format event report. Multi-person unconfirmed event report.				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable	ObjAccessServ 2;M	MeasureDataTransf 8;C	PersonEventRep 1;M		
	items	FormatEventRep 3;M				
	Spec	[b-ITU-T H.810 (2015)]				
	Testable items	Conformance 1; M				

Test purpose	Check that:			
	A PHG receiving a confirmed event report from the PHD shall respond with either a rors- cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.			
	[AND]			
	If a PHD uses agent-initiated measurements and if the Unconfirmed Event Report is used, the PHG shall not respond.			
	[AND]			
	A PHG shall support multi-person event reports.			
	[AND]			
	A PHG shall support fixed format event reports.			
Applicability	C_MAN_OXP_000			
Other PICS				
Initial condition	The simulated PHD and the PHG under test are in the Operating state.			
Test procedure	The simulated PHD test sends a unconfirmed Fixed Multiple Person event report to the PHG under test.			
	2. The PHG under test does not send a confirmation.			
Pass/Fail criteria	In step 2 no confirmation can be received by the simulated PHD.			
Notes				

TP Id	IP IO		TP/PLT/PHG/OXP/SER/BV-003_D					
TP label	TP label		Fixed format event report. Multi-person confirmed event report.					
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]						
	Testable items	ObjAccess	Serv 2;M	PersonEventRep 1;M	FormatEventRep 3;M			
	Spec	[b-ITU-T H.	810 (2015)]					
	Testable items	Conforman	ce 1; M					
Test purpos	е	Check that:						
		A PHG receiving a confirmed event report from the PHD shall respond with either a rors- cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.						
		[AND]						
		A PHG shall support multi-person event reports.						
		[AND]						
		A PHG shall support fixed format event reports.						
Applicability	•	C_MAN_OXP_000						
Other PICS								
Initial condit	ion	The simulated PHD and the PHG under test are in the Operating state.						
Test proced	ure	The simulated PHD test sends a confirmed Fixed Multi Person event report to the PHG under test.						
		2. The PHG under test sends a confirmation:						
		a. APDU Type						
		☐ field-length = 2 bytes						
		☐ field-value = 0xE7 0x00 (PrstAdpu)						
			voke-id					
			field-type = IN	NT-U16				

Notes			
Pass/Fail criteria	The con	nfirma	ation message must be like the one specified.
			field-value = 0x0D 0x1F (MDC_NOTI_SCAN_REPORT_MP_FIXED)
			field-length = 2 bytes
	f.	Eve	ent-type:
			field-value: <not for="" relevant="" test="" this=""></not>
			field-length = 4 bytes
			field-type = INT-U32
	e.	Eve	ent-time:
			field-value = 0 (MDS object)
			field-length = 2 bytes
			field-type = HANDLE
	d.	Obj	-Handle:
			message type = 0x02 0x01 (Remote Operation Response Confirmed Event Report)
	C.	The	e following two bytes indicate:
			field-value = It must be the same as the invoke-id of the simulated PHD's message.
			field-length = 2 bytes

Г		T					
TP Id		TP/PLT/PHG/OXP/SER/BV-003_E					
TP label		Variable format event report. Single-person unconfirmed event report.					
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
	Testable	ObjAccessServ 2;M MeasureDataTransf 8;C PersonEventRep 1;M					
	items	FormatEventRep 3;M					
	Spec	[b-ITU-T H.810 (2015)]					
	Testable items	Conformance 1; M					
Test purpos	e	Check that:					
		A PHG receiving a confirmed event report from the PHD shall respond with either a rors- cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.					
		[AND]					
		If a PHD uses agent-initiated measurements and if the Unconfirmed Event Report is used, the PHG shall not respond.					
		[AND]					
		A PHG shall support single-person event reports.					
		[AND]					
		A PHG shall support variable format event reports.					
Applicability	/	C_MAN_OXP_000					
Other PICS							
Initial condition		The simulated PHD and the PHG under test are in the Operating state.					
Test procedure		The simulated PHD test sends an unconfirmed variable event report to the PHG under test. The unconfirmed variable event report contains just one Observation Scan with information about Metric-Spec-Small attributes for metric objects that are present in the PHD's configuration.					
		The PHG under test cannot send a confirmation.					

Pass/Fail criteria	In step 2 no confirmation can be received by the simulated PHD.
Notes	

TP ld		TP/PLT/PHG/OXP/SER/BV-003_F					
TP label		Variable format event report. Single-person confirmed event report.					
Coverage	Spec	[ISO/IE	EE 11073-20601-2015	A] and [ISO/IEEE 11073-206	01-2016C]		
	Testable	ObjAcc	essServ 2;M	MeasureDataTransf 7;C	PersonEventRep 1;M		
	items	Formati	EventRep 3;M				
	Spec	[b-ITU-T H.810 (2015)]					
	Testable		nance 1; M				
	items		· 				
Test purpose	е	Check t	hat:				
				event report from the PHD sh or an appropriate roer error me			
		[AND]					
		A PHG	shall support single-pe	erson event reports.			
		[AND]					
		A PHG	shall support variable	format event reports.			
Applicability	1	C_MAN	_OXP_000				
Other PICS							
Initial condit	ion	The simulated PHD and the PHG under test are in the Operating state.					
Test procedu	ure	The simulated PHD test sends a confirmed variable event report to the PHG under test.					
		2. The	e PHG under test send	ls a confirmation:			
		a. APDU Type					
			☐ field-length = 2 b	pytes			
		☐ field-value = 0xE7 0x00 (PrstAdpu)					
		b. Invoke-id					
		☐ field-type = INT-U16					
		☐ field-length = 2 bytes					
		field-value = It must be the same as the invoke-id of the simulated PHD's message.					
		c. The following two bytes indicates					
		 message type= 0x02 0x01 (Remote Operation Response Confirmed Event Report) 					
		d. Obj-Handle:					
		ield-type = HANDLE					
			☐ field-length = 2 b	pytes			
			☐ field-value = 0 (MDS object)				
		e.	Event-time:				
			☐ field-type = INT-	U32			
			☐ field-length = 4 b	pytes			
			☐ field-value: <not< th=""><th>relevant for this Test></th><th></th></not<>	relevant for this Test>			
		f.	Event-type:				
		☐ field-length = 2 bytes					

	☐ field-value = 0x0D 0x1E (MDC_NOTI_SCAN_REPORT_VAR)
Pass/Fail criteria	The confirmation message must be like the one specified.
Notes	

TP ld		TP/PLT/PHG/OXP/SER/B	V-003 G			
TP label		Variable format event report. Multi-person unconfirmed event report.				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable		ObjAccessServ 2;M MeasureDataTransf 8;C PersonEventRep 1;N			
	items	FormatEventRep 3;M				
	Spec	[b-ITU-T H.810 (2015)]				
	Testable items	Conformance 1; M				
Test purpos	se	Check that:				
		A PHG receiving a confirmed event report from the PHD shall respond with either a rors- cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.				
		[AND]				
		If a PHD uses agent-initiated measurements and if the Unconfirmed Event Report is used, the PHG shall not respond.				
		[AND]				
		A PHG shall support multi-person event reports.				
		[AND]				
		A PHG shall support variable format event reports.				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated PHD and the PHG under test are in the Operating state.				
Test procedure		The simulated PHD sends an unconfirmed Variable Multiple Person event report to the PHG under test.				
		2. The PHG under test cannot send a confirmation.				
Pass/Fail cr	iteria	In step 2 no confirmation can be received by the simulated PHD.				
Notes						

TP Id		TP/PLT/PHG/OXP/SER/BV-003_H			
TP label Variable format event report. Multi-person confirmed event report			report		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ObjAccessServ 2;M	PersonEventRep 1;M	FormatEventRep 3;M	
	Spec	[b-ITU-T H.810 (2015)]			
	Testable items Conformance 1; M				
Test purpos	se	Check that:			
		A PHG receiving a confirmed event report from the PHD shall respond with either a rors- cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.			
		[AND]			
		A PHG shall support multi-person event reports.			
		[AND]			

	A PHG shall support variable format event reports.			
Applicability	C_MAN_OXP_000			
Other PICS				
Initial condition	The simulated PHD and the PHG under test are in the Operating state.			
Test procedure	The simulated PHD sends a confirmed Variable Multi Person event report to the PHG under test.			
	2. The PHG under test sends a confirmation:			
	a. APDU Type			
	☐ field-length = 2 bytes			
	☐ field-value = 0xE7 0x00 (PrstAdpu)			
	b. Invoke-id			
	☐ field-type = INT-U16			
	☐ field-length = 2 bytes			
	field-value = It must be the same that the invoke-id of the simulated PHD's message.			
	c. The following two bytes indicate:			
	message type= 0x02 0x01 (Remote Operation Response Confirmed Event Report)			
	d. Obj-Handle:			
	☐ field-type = HANDLE			
	☐ field-length = 2 bytes			
	☐ field-value = 0 (MDS object)			
	e. Event-time:			
	☐ field-type = INT-U32			
	☐ field-length = 4 bytes			
	☐ field-value: <not for="" relevant="" test="" this=""></not>			
	f. Event-type:			
	☐ field-length = 2 bytes			
	☐ field-value= 0x0D 0x20 (MDC_NOTI_SCAN_REPORT_MP_VAR)			
Pass/Fail criteria	The confirmation message must be like the one specified.			
Notes				

TP ld		TP/PLT/PHG/OXP/SER/BV-004			
TP label		Multi-person support			
Coverage	Spec	[ISO/IEEE 11073-20601-2015	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	PersonEventRep 1;M	FormatEventRep 3;M		
Test purpos	se .	Check that:			
		A PHG shall support both single-person and multi-person event reports.			
		[AND]			
		A PHG shall support variable format and fixed format, and if the PHG supports scanners, it shall support grouped format event reports.			
Applicability		C_MAN_OXP_000			
Other PICS		C_MAN_OXP_037			
Initial condition		The simulated PHD and the PHG under test are in the Operating state.			

Test procedure	The simulated PHD sends a confirmed Fixed Multi Person event report to the PHG under test with two different measurements assigned to different person-ids.	
	2. The PHG under test sends a confirmation.	
	 The simulated PHG sends a new confirmed Fixed Multi Person with two different measurements from those in step 1 to the PHG under test. 	
	4. The PHG under test sends a confirmation.	
Pass/Fail criteria	IF C_MAN_OXP_037 = TRUE THEN the PHG under test correctly assigns the measurements to the correct person, ELSE the PHG under test does not assign the measurements correctly to every person.	
Notes		

TP Id		TP/PLT/PHG/OXP/SER/BV-005					
TP label		Reserved Value Standard Configuration					
Coverage	Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			-2016Cl	
3	Testable items			ep 17;M	,		
Test purpose	9	Check that:					
		All unused values in the standard range are reserved for future use, A PHG encountering such a reserved value shall assume the value to be an extended unsupported unrecognized standard configuration and use it as described in 8.7.3.3 and 8.8.3.					
Applicability		C_MAN_OXP_000 AND (C_MAN_OXP_016 OR C_MAN_OXP_018 OR C_MAN_OXP_019 OR C_MAN_OXP_020 OR C_MAN_OXP_024 OR C_MAN_OXP_026 OR C_MAN_OXP_027 OR C_MAN_OXP_029 OR C_MAN_OXP_067 OR C_MAN_OXP_071 OR C_MAN_OXP_073 OR C_MAN_OXP_076			_024 OR C_MAN_OXP_025 DXP_029 OR		
Other PICS							
Initial condit	ion	The	simulate	ed PHD and the P	HG under test are in th	ne Unass	ociated state.
Test procedu	ıre	 The simulated PHD sends an Association Request to the PHG under test with a dev- config-id set to an id in the standard range (reserved value). 					
		2. The PHG under test responds with an Association Response:					
		;	a. AP	DU Type			
				field-length = 2 b	ytes		
				field-value = 0xE	3 0x00 (AareAdpu)		
		1	b. Re	sult			
				field-length = 2 b	ytes		
					jected-unauthorized) c		ofig) or 0x00 0x00 (accepted) or (rejected-permanent) or
			IF the P configu		"accepted-unknown-o	config", th	ne simulated PHD sends its
				G under test send orted-config.	s a configuration respo	onse with	accepted-config or
Pass/Fail cri	teria				nall have a value = "ac " or "rejected-permane		nknown-config" or "accepted" jected-unknown".
			The res config".	ponse of step 4 st	nall have a config-resu	lt = "unsu	pported-config" or "accepted-
Notes							

A.5 Subgroup 2.2.4: PHD communication model (COM)

	8- 0 t-b -t-		(001/1)		
TP Id		TP/PLT/PHG/OXP/COM/BV-004			
TP label		Manager State Machine:TO _{config}			
Coverage	Spec	[ISO/IEEE 11073-20601-2015	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 1;M	ConfErrorCond 3;M		
Test purpos	е	Check that:			
		The PHG shall wait in the Waiting for Config state for at least TOconfig seconds before sending an Association Abort message			
		[AND]			
	The PHG shall wait at least TOconfig seconds in the Waiting for Configuration state configuration information prior to sending an Abort message and returning to the Unassociated state.				
Applicability C_MAN_OXP_000					
Other PICS	Other PICS				
Initial condit	Initial condition The simulated PHD and the PHG under test are in the Unassociated state.			ociated state.	
Test procedure		The simulated PHD sends an Association Request to the PHG under test with a dev- config-id unknown to the PHG and set on the extended range.			
		2. The PHG under test responds with an Association Response with AssociateResult = "accepted-unknown-config".			
3. The simulated PHD intentionally does not send its configuration at all.			uration at all.		
Pass/Fail cri	teria	The PHG under test waits for I_MAN_OXP_008 us and then sends an Abort message			
Notes			the transport layer and decode enough to measure this time-ou using a hardware sniffer.		

TP ld		TP/PLT/PHG/OXP/COM/BV-005				
TP label		Manager State Machine:Unsupported Config				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 2;M ConfNorr				
Test purpos	е	Check that:				
		If the PHG does not accept the configura unsupported-config result	tion, it shall send a c	onfiguration response with an		
Applicability	1	C_MAN_OXP_000				
Other PICS						
Initial condit	ion	The simulated PHD and the PHG under test are in the Unassociated state.				
Test proced	ure	1. Configure the simulated PHD to support one specialization that is not supported by the PHG and a second specialization that is supported by the PHG. In particular, make sure the following two attributes have values corresponding at least to the supported specialization in the MDS object:System-Type-Spec-List and Reg-Cert-Data-List.				
		2. The simulated PHD sends an Association Request to the PHG under test with a dev- config-id set to the unsupported device specialization (preferably a standard config).				
		3. The PHG under test responds with an Association Response with AssociateResult = "accepted-unknown-config".				
		4. If the PHG under test sends a GET request for the MDS object, the simulated PHD shall respond with the MDS information.				
		 If PHG supports all specializations, t config-id and only OEM Objects; oth from the selected specialization that 	erwise, the simulated	d PHD sends a Config report		

	6. The PHG under test sends a config response.	
Pass/Fail criteria	The response of step 6 shall have a config-result = "unsupported-config". IF the configresult is not unsupported-config, the verdict is inconc.	
Notes	There is no guarantee that the PHG will not accept the configuration.	

TP Id		TP/PLT/PHG/OXP/COM/	/BV-006			
TP label		Manager State Machine:Accepted Config				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable	ConfEventRep 5;M	ConfEventRep 23;M	ManagerStateMach 3;M		
	items	ManagerProc 4;M	ConfNormalProc 11; M			
Test purpos	se	Check that:				
		If the PHG does not already know the PHD's device configuration (e.g., based on a previous association phase), the PHG asks for the PHD's device configuration.				
		[AND]				
		If the configuration is not response	known, the PHG shall respond v	vith an accepted-unknown-config		
		[AND]				
		If the PHG accepts the caccepted-config result	onfiguration, it shall send a config	guration response with an		
		[AND]				
		If the PHG does not recognize the value in the dev-config-id field, the PHG shall send an Association Response message with the result field set to accepted-unknown-config and transition to the Configuring state.				
		[AND]				
		If the PHG accepts the configuration, it responds with an accepted-config message and both PHG and PHD move to the Operating state.				
Applicabilit	у	C_MAN_OXP_000				
Other PICS		C_MAN_OXP_046				
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.				
Test proced	lure	The simulated PHD sends an Association Request to the PHG under test with a previously unknown dev-config-id set in the extended range.				
		2. The PHG under test responds with an Association Response with result = "accepted-unknown-config".				
		3. Wait until Operating state is reached.				
		4. The PHD sends an abort message.				
		5. The simulated PHD sends the same Association Request to the PHG as in si				
		6. IF C_MAN_OXP_04 Response:	6 = TRUE the PHG under test re	esponds with an Association		
		a. APDU Type				
		☐ field-length	= 2 bytes			
		☐ field-value	= 0xE3 0x00 (AareAdpu)			
		b. Result				
		☐ field-length	= 2 bytes			
		☐ field-value	= 0x00 0x00 (accepted)			
		IF C_MAN_OXP_04 Response:	6 = FALSE the PHG under test r	esponds with an Association		
		a. APDU Type				
		☐ field-length	= 2 bytes			

	☐ field-value = 0xE3 0x00 (AareAdpu)
	b. Result
	☐ field-length = 2 bytes
	☐ field-value = 0x00 0x03 (accepted-unknown-config)
Pass/Fail criteria	The format of the received message in step 6 must be the one specified.
Notes	

TP ld		TP/PLT/PHG/OXP/COM/BV-007_A			
TP label		Manager State machine:Operating - Unassociated 1			
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable	ConfEv	entRep 22;M	ManagerStateMach 49;M	ManagerProc 3;M
	items	ConfEx	itCond 1;M		
Test purpos	е	Check t	hat:		
		If the PHG already understands that configuration either because it was preloaded via an installation program or the PHD previously associated with the PHG, then the PHG shall respond with the configuration accepted response			
		[AND]			
		If PHG receives rlrq while in Operating state, the PHG shall transmit rlre(normal) and move to the Unassociated state.			
		[AND]			
		If the PHG recognizes the value in the dev-config-id field as representing a known standard device specialization, or a configuration from a previous association, the PHG shall send an Association Response message with a result field of accepted and transition to the Operating state or may send an Association Response message with a result field of accepted-unknown-config to force the PHD to enter Configuring state in order to check attributes from the MDS object prior to final acceptance of the association.			
Applicability	,	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The sim	nulated PHD and the P	HG under test are in the Opera	ting state.
Test proced	ure	1. The	e simulated PHD sends	s a Release Request with reaso	on = "normal".
			e PHG under test responsible entre e	onds with a Release Response	and moves to the
		a.	APDU Type:		
			☐ field-length = 2 b	pytes	
			☐ field-value = 0xE	5 0x00 (RlreApdu)	
		b.	ReleaseResponseRe	eason:	
			☐ field-length = 2 b	pytes	
			$\Box \text{field-value} = 0x0$	0 0x00 (normal)	
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.			
Notes	Notes				

TP ld		TP/PLT/PHG/OXP/COM/BV-007_B
TP label		Manager State machine:Unassociated - Unassociated 2
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]
	Testable items	ManagerStateMach 12;M

Test purpose	Check that:	
	If aare received while in Unassociated state, a PHG shall transmit an abrt (reason undefined) and remain in the Unassociated state.	
Applicability	C_MAN_OXP_000	
Other PICS		
Initial condition	The simulated PHD and the PHG under test are in the Unassociated state.	
Test procedure	1. The simulated PHD sends an Association Response to the PHG under test.	
	2. The PHG under test responds with and Association Abort message:	
	a. APDU Type:	
	☐ field-length = 2 bytes	
	☐ field-value = 0xE6 0x00	
	b. Abort-Reason:	
	☐ field-length = 2 bytes	
	☐ field-value = 0x00 0x00 (undefined)	
Pass/Fail criteria	The format of the received message in step 2 must be the one specified.	
Notes		

TP Id		TR/DLT/DLIC/OVR/COM/DV 007 C			
		TP/PLT/PHG/OXP/COM/BV-007_C			
TP label		Manager State machine:Unassociated - Unassociated 3			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 13;M			
Test purpos	е	Check that:			
		If rlrq received while in Unassociated state, a PHG shall transmit an abrt (reason undefined) and remain in the Unassociated state.			
Applicability	1	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.			
Test proced	ure	The simulated PHD sends a Release Request message to the PHG under test.			
		2. The PHG under test responds with an Association Abort message:			
		a. APDU Type:			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00			
		b. Abort-Reason:			
		☐ field-length = 2 bytes			
		☐ field-value = 0x00 0x00 (undefined)			
Pass/Fail cri	iteria	The format of the received message in step 2 must be the one specified.			
Notes					

TP Id		TP/PLT/PHG/OXP/COM/BV-007_D		
TP label		Manager State machine:Unassociated - Unassociated 4		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 16;M		
Test purpose		Check that:		

	If prst (Any APDU not covered in 2.* (corrupt, unknown, unexpected, etc.) received while in Unassociated state, a PHG shall transmit an abrt(Abort-reason undefined) and remain in the Unassociated state.		
Applicability	C_MAN_OXP_000		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Unassociated state.		
Test procedure	 The simulated PHD sends a Configuration Event report to the PHG under test. The PHG under test responds with an Association Abort message: APDU Type: 		
	field-length = 2 bytes field-value = 0xE6 0x00		
	 b. Abort-Reason: ☐ field-length = 2 bytes ☐ field-value = 0x00 0x00 (undefined) 		
Pass/Fail criteria	The format of the received message in step 2 must be the one specified.		
Notes			

TDII		TD/DLT/DUO/OVD/OOM/DV/ 007 F		
TP ld		TP/PLT/PHG/OXP/COM/BV-007_E		
TP label		Manager State machine:Unassociated. Corrupt-unknown-unexpected APDU		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 16;M		
Test purpos	e	Check that:		
		If prst (Any APDU not covered in 2.* (corrupt, unknown, unexpected, etc.) received while in Unassociated state, a PHG shall transmit an abrt(Abort-reason undefined) and remain in the Unassociated state.		
Applicability	<i>I</i>	C_MAN_OXP_000		
Other PICS				
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.		
Test proced	ure	The simulated PHD sends an invalid APDU.		
		2. The PHG under test responds with an Association Abort message:		
		a. APDU Type:		
		☐ field-length = 2 bytes		
		☐ field-value = 0xE6 0x00		
		b. Abort-Reason:		
		☐ field-length = 2 bytes		
		☐ field-value = 0x00 0x00 (undefined)		
Pass/Fail cr	iteria	The format of the received message in step 2 must be the one specified.		
Notes				

TP ld		TP/PLT/PHG/OXP/COM/BV-008_A	
TP label		Manager State machine:Configuring Waiting 1	
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601	-2016C]
	Testable items	ManagerStateMach 27;M	

Test purpose Check that:			
	If PHG receives Rx roiv-* but not matching in any other 6* state, while in Waiting state, the PHG shall transmit an abrt(Abort-reason undefined) and moves to Unassociated state.		
Applicability	C_MAN_OXP_000		
Other PICS			
Initial condition	The simulated PHD and the PHG under test are in the Unassociated state.		
Test procedure	 The simulated PHD sends an Association Request to the PHG under test with a dev- config-id set to an id in the extended range unknown to the PHG. 		
	2. The PHG under test responds with an Association Response:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE3 0x00 (AareAdpu)		
	b. Result		
	☐ field-length = 2 bytes		
	☐ field-value = 0x00 0x03 (accepted-unknown-config)		
	3. The simulated PHD sends a "roiv-cmip-get".		
	4. The PHG under test responds with an Association Abort message:		
	a. APDU Type:		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE6 0x00		
	b. Abort-Reason:		
	☐ field-length = 2 bytes		
	☐ field-value = 0x00 0x00 (undefined)		
Pass/Fail criteria	The format of the received message in step 4 must be the one specified and the PHG moves to the Unassociated state.		
Notes			

TP ld		TP/PLT/PHG/OXP/COM/BV-008_B		
TP label		Manager State machine:Configuring Waiting 2		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 27;M		
Test purpos	е	Check that:		
		If PHG receives Rx roiv-* but not matching in any other 6* state, while in Waiting state, the PHG shall transmit an abrt(Abort-reason undefined) and moves to Unassociated state.		
Applicability	/	C_MAN_OXP_000		
Other PICS				
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.		
Test proced	ure	The simulated PHD sends an Association Request to the PHG under test with a dev- config-id set to an id in the extended range unknown to the PHG.		
		2. The PHG under test responds with an Association Response:		
		a. APDU Type		
		☐ field-length = 2 bytes		
		☐ field-value = 0xE3 0x00 (AareAdpu)		
		b. Result		
		☐ field-length = 2 bytes		

	☐ field-value = 0x00 0x03 (accepted-unknown-config)	
	3. The simulated PHD sends a "roiv-cmip-set".	
	4. The PHG under test responds with an Association Abort message:	
	a. APDU Type:	
	☐ field-length = 2 bytes	
	☐ field-value = 0xE6 0x00	
	b. Abort-Reason:	
	☐ field-length = 2 bytes	
	☐ field-value = 0x00 0x00 (undefined)	
Pass/Fail criteria	The format of the received message in step 4 must be the one specified and the PHG moves to the Unassociated state.	
Notes		

TP ld		TP/PLT/PHG/OXP/COM/BV-008_C		
TP label		Manager State machine:Configuring Waiting 3		
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 27;M		
Test purpos	е	Check that:		
		If PHG receives Rx roiv-* but not matching in any other 6* state while in Waiting state, the PHG shall transmit abrt(Abort-reason undefined) and moves to Unassociated state		
Applicability	•	C_MAN_OXP_000		
Other PICS				
Initial condit	ion	The simulated PHD and the PHG under test are in the Unassociated state.		
Test proced	ure	The simulated PHD sends an Association Request to the PHG under test with a dev- config-id set to an id in the extended range unknown to the PHG.		
		2. The PHG under test responds with an Association Response:		
		a. APDU Type		
		☐ field-length = 2 bytes		
		☐ field-value = 0xE3 0x00 (AareAdpu)		
		b. Result		
		☐ field-length = 2 bytes		
		☐ field-value = 0x00 0x03 (accepted-unknown-config)		
		3. The simulated PHD sends a "roiv-cmip-confirmed-set".		
		4. The PHG under test responds with an Association Abort message:		
		a. APDU Type:		
		☐ field-length = 2 bytes		
		☐ field-value = 0xE6 0x00		
		b. Abort-Reason:		
		☐ field-length = 2 bytes		
		☐ field-value = 0x00 0x00 (undefined)		
Pass/Fail cri	teria	The format of the received message in step 4 must be the one specified and the PHG moves to the Unassociated state.		
Notes				

TP Id		TP/PLT/PHG/OXP/COM/BV-008_D				
TP label		Manager State machine:Configuring Waiting 4				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	Ма	nage	StateMach 27;M		
Test purpos	е	Check that:				
		If PHG receives Rx roiv-* but not matching in any other 6* state while in Waiting state, the PHG shall transmit an abrt(Abort-reason undefined) and moves to Unassociated state				
Applicability	,	C_I	MAN <u>.</u>	_OXP_000		
Other PICS						
Initial condit	ion	The	e sim	ulated PHD and the PHG under test are in the Unassociated state.		
Test proced	ure	1.				
		2.	The	PHG under test responds with an Association Response:		
			a.	APDU Type		
				☐ field-length = 2 bytes		
				☐ field-value = 0xE3 0x00 (AareAdpu)		
			b.	Result		
				☐ field-length = 2 bytes		
				☐ field-value = 0x00 0x03 (accepted-unknown-config)		
		3.	The	simulated PHD sends a "roiv-cmip-action".		
		4.	The	PHG under test responds with an Association Abort message:		
			a.	APDU Type:		
				☐ field-length = 2 bytes		
				☐ field-value = 0xE6 0x00		
			b.	Abort-Reason:		
				☐ field-length = 2 bytes		
				☐ field-value = 0x00 0x00 (undefined)		
Pass/Fail cri	teria			nat of the received message in step 4 must be the one specified and the PHG of the Unassociated state.		
Notes						

TP Id		TP/PLT/PHG/OXP/COM/BV-008_E				
TP label		Manager State machine:Configuring Waiting 5				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerStateMach 27;M				
Test purpos	se	Check that:				
		If PHG receives Rx roiv-* but not matching in any other 6* state while in Waiting state, the PHG shall transmit an abrt(Abort-reason undefined) and moves to Unassociated state				
Applicabilit	у	C_MAN_OXP_000				
Other PICS						
Initial condition		The simulated PHD and the PHG under test are in the Unassociated state.				
Test procedure		 The simulated PHD sends an Association Request to the PHG under test with a dev- config-id set to an id in the extended range unknown to the PHG. 				
		The PHG under test responds with an Association Response:				

·		
	a.	APDU Type
		☐ field-length = 2 bytes
		☐ field-value = 0xE3 0x00 (AareAdpu)
	b.	Result
		☐ field-length = 2 bytes
		☐ field-value = 0x00 0x03 (accepted-unknown-config)
	3. Th	e simulated PHD sends a "roiv-cmip-confirmed-action".
	4. Th	e PHG under test responds with an Association Abort message:
	a.	PDU Type:
		☐ field-length = 2 bytes
		☐ field-value = 0xE6 0x00
	b.	Abort-Reason:
		☐ field-length = 2 bytes
		☐ field-value = 0x00 0x00 (undefined)
Pass/Fail criteria		rmat of the received message in step 4 must be the one specified and the PHG to the Unassociated state.
Notes		

TP ld		TP/PLT/PHG/OXP/COM/BV-009				
TP label		Invalid Association Request management.				
Coverage	Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	Mana	agerPro	oc 1; M	ManagerProc 2; M	
Test purpos	e	Chec	ck that:			
		When a PHG receives an Association Request, it shall compare the protocol and operating parameters with its own and determine whether the PHD is compatible with the PHG. If the connection is bi-directional, the PHG shall report the outcome of this assessment in the result field of an Association Response.				
		[AND)]			
					tion for any of the possible reject Association, it shall transition to	
Applicability	у	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated PHD and the PHG under test are in the Unassociated state.				
Test proced	lure				s an Association Request to the ocol unknown to the PHG.	PHG under test with the
		2.	The PH	G under test respo	onds with an Association Respo	nse:
			a. AP	DU Type		
				field-length = 2 b	pytes	
				field-value = 0xE	3 0x00 (AareAdpu)	
		I	b. Re	sult		
				field-length = 2 b	pytes	
				field-value = 0x0	0 0x04 (rejected-no-common-pr	rotocol)
			c. Da	ta-Proto		
				data-proto-id = 0	x00 0x00 (data-proto-id-empty)	
				data-proto-info =	<empty></empty>	

3.	pro	e simulated PHD sends an Association Request to the PHG under test with the data to-id set to data-proto-id set to "data-proto-id-20601"data-proto-info containing an alid attribute (encodingRules='0000000000000000'O)	l
4.	The	e PHG under test responds with an Association Response:	
	a.	APDU Type	
		☐ field-length = 2 bytes	
		☐ field-value = 0xE3 0x00 (AareAdpu)	
	b.	Result	
		☐ field-length = 2 bytes	
		☐ field-value = 0x00 0x05 (rejected-no-common-parameters)	
	c.	Data-Proto	
		☐ data-proto-id = 0x00 0x00 (data-proto-id-empty)	
		☐ data-proto-info = <empty></empty>	
5.		e simulated PHD sends an Association Request to the PHG under test with association set to an incorrect AssociationVersion	
6.	The	e PHG under test responds with an Association Response:	
	a.	APDU Type	
		☐ field-length = 2 bytes	
		☐ field-value = 0xE3 0x00 (AareAdpu)	
	b.	Result	
		☐ field-length = 2 bytes	
		☐ field-value = 0x00 0x08 (rejected-unsupported-assoc-version)	
	c.	Data-Proto	
		data-proto-id = 0x00 0x00 (data-proto-id-empty)	
		data-proto-info = <empty></empty>	
7.	pro	e simulated PHD sends an Association Request to the PHG under test with data- to-id set to a protocol unknown to the PHG and a data-proto-id set to data-proto-id- 601 as a second option	
8.	The	e PHG under test responds with an Association Response:	
	a.	APDU Type	
		☐ field-length = 2 bytes	
		☐ field-value = 0xE3 0x00 (AareAdpu)	
	b.	Result	
		☐ field-length = 2 bytes	
		☐ field-value = 0x00 0x00 (accepted) OR 0x00 0x03 (accepted-unknown)	
	c.	Data-Proto	
		data-proto-id = 0x00 0x00 (data-proto-id-20601)	
9.	The	e simulated PHD sends a Release Request message.	
10.	The	e PHG under test responds with a Release Response message.	
11.	pro	e simulated PHD sends an Association Request to the PHG under test with a data-to-id set to data-proto-id-20601 to the PHG and a data-proto-id set to a protocol known as a second option.	
12.	The	e PHG under test responds with an Association Response:	
	a.	APDU Type	
		☐ field-length = 2 bytes	
		☐ field-value = 0xE3 0x00 (AareAdpu)	
	b.	Result	

	☐ field-length = 2 bytes ☐ field-value = 0x00 0x00 (accepted) OR 0x00 0x03 (accepted-unknown) c. Data-Proto
	data-proto-id = 0x00 0x00 (data-proto-id-20601)
Pass/Fail criteria	 The format of the received message in steps 2, 4, 6, 8 and 12 must be the ones specified
	 In steps4 and 6, Aare must be received from the PHG (after rejecting Aarq, the PHG has transitioned to the Unassociated state)
Notes	

TP Id		TP/PLT/PHG/OXP/COM/BV-010				
TP label		Configuring.Waiting Config state. Association Request				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
_	Testable items	ManagerStateMach 21;M				
Test purpos	e	Check that:				
		If PHG receives aarq while in Waiting state, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The PHG under test is in the waiting for config state.				
Test proced	ure	The simulated PHD sends an Association Request to the PHG under test.				
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:				
		a. APDU Type				
		☐ field-length = 2 bytes				
		☐ field-value = 0xE6 0x00 (AbrtApdu)				
		b. reason				
		☐ field-type = Abort-reason				
		☐ field-length = 2 bytes				
		☐ field-value = One of the following:				
		undefined(0)				
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.				
Notes						

TP ld		TP/PLT/PHG/OXP/COM/BV-011	-		
TP label		Configuring.Waiting Config state. Association Response			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 22;M			
Test purpose		Check that: If PHG receives aare while in Waiting state, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.			
Applicability		C_MAN_OXP_000			
Other PICS					

Initial condition	The PHG under test is in the waiting for config state.		
Test procedure	The simulated PHD sends an Association Response to the PHG under test.		
	The PHG under test responds with an Association Abort message and moves to the Unassociated state:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE6 0x00 (AbrtApdu)		
	b. reason		
	☐ field-type = Abort-reason		
	☐ field-length = 2 bytes		
	☐ field-value = One of the following:		
	undefined(0)		
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.		
Notes			

TP Id		TP/PLT/PHG/OXP/COM/BV-012				
TP label		Configuring.Waiting Config state. Release Request				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerStateMach 23;M				
Test purpos	е	Check that:				
		If PHG receives rlrq while in Waiting state, the PHG shall transmit rlre(normal) and move to the Unassociated state.				
Applicability	1	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The PHG under test is in the waiting for config state.				
Test proced	ure	The simulated PHD sends an Association Release Request to the PHG under test.				
		2. The PHG under test responds with an Release Response message and moves to the Unassociated state:				
		a. APDU Type				
		☐ field-length = 2 bytes				
		☐ field-value = 0xE5 0x00 (RIreApdu)				
		b. reason				
		☐ field-type = ReleaseResponseReason				
		☐ field-length = 2 bytes				
		☐ field-value = normal (0)				
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.				
Notes						

TP ld		TP/PLT/PHG/OXP/COM/BV-013
TP label		Configuring.Waiting Config state. Release Response
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]
	Testable items	ManagerStateMach 24;M

Test purpose	Check that:
	If PHG receives rIre while in Waiting state, the PHG shall transmit an abrt(Abort-reason undefined) and move to the Unassociated state.
Applicability	C_MAN_OXP_000
Other PICS	
Initial condition	The PHG under test is in the waiting for config state.
Test procedure	1. The simulated PHD sends an Association Release Response to the PHG under test.
	2. The PHG under test responds with an Association Abort message and moves to the Unassociated state:
	a. APDU Type
	☐ field-length = 2 bytes
	☐ field-value = 0xE6 0x00 (AbrtApdu)
	b. reason
	☐ field-type = Abort-reason
	☐ field-length = 2 bytes
	☐ field-value = One of the following:
	undefined(0)
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.
Notes	

TP Id		TP/PLT/PHG/OXP/COM/BV-014			
TP label		Operating state. Association Request			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 47;M			
Test purpos	e	Check that:			
		If PHG receives aarq while in Operating state, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The PHG under test is in the Operating state.			
Test proced	ure	The simulated PHD sends an Association Request to the PHG under test.			
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field-type = Abort-reason			
		☐ field-length = 2 bytes			
		☐ field-value = One of the following:			
		undefined(0)			
Pass/Fail cr	iteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.			
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-015			
TP label		Operating state. Association Response			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 48;M			
Test purpos	e	Check that:			
		If PHG receives aare while in Operating state, the PHG shall transmit an abrt(Abort-reason undefined) and move to the Unassociated state.			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The PHG under test is in the Operating state.			
Test proced	ure	The simulated PHD sends an Association Response to the PHG under test.			
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field-type = Abort-reason			
		☐ field-length = 2 bytes			
		☐ field-value = One of the following:			
		undefined(0)			
Pass/Fail cr	iteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.			
Notes					

TP ld		TD/DLT/DUC/OVD/COM/DV 046			
IFIU		TP/PLT/PHG/OXP/COM/BV-016			
TP label	I	Operating state. Release Response			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 50;M			
Test purpos	е	Check that:			
		If PHG receives rire while in Operating state, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.			
Applicability	1	C_MAN_OXP_000			
Other PICS					
Initial condition		The PHG under test is in the Operating state.			
Test proced	ure	The simulated PHD sends a Release Response to the PHG under test.			
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field-type = Abort-reason			

	☐ field-length = 2 bytes
	☐ field-value = One of the following:
	undefined(0)
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.
Notes	

TP ld		TP/PLT/PHG/OXP/COM/BV-017			
TP label		Disassociating state. Association Request			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 58;M			
Test purpos	e	Check that:			
		If aarq is received while in Disassociating state, the PHG shall transmit abrt (reason undefined) and move to the Unassociated state.			
Applicability	/	C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS					
Initial condi	tion	The PHG under test is in the Operating state.			
Test proced	ure	Make the PHG under test release the association.			
		The simulated PHD responds to the Association Release Request with an Association Request.			
		3. The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field-type = Abort-reason			
		☐ field-length = 2 bytes			
		☐ field-value = One of the following:			
		• undefined(0)			
Pass/Fail criteria		The format of the received message in step 3 must be the one specified and the PHG moves to the Unassociated state.			
Notes					

TP Id		TP/PLT/PHG/OXP/COM/BV-018		
TP label		Disassociating state. Association Response		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
Testable items		ManagerStateMach 59;M		
Test purpos	se	Check that:		
		If PHG receives aare while in Disassociating state, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.		
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS				
Initial condition		The PHG under test is in the Operating state.		

Test procedure	Make the PHG under test release the association.	
	The simulated PHD responds to the Association Release Request with an Association Response (AareAPDU).	
	The PHG under test responds with an Association Abort message and moves to the Unassociated state:	
	a. APDU Type	
	☐ field-length = 2 bytes	
	☐ field-value = 0xE6 0x00 (AbrtApdu)	
	b. reason	
	☐ field-type = Abort-reason	
	☐ field-length = 2 bytes	
	☐ field-value = One of the following:	
	undefined(0)	
Pass/Fail criteria	The format of the received message in step 3 must be the one specified and the PHG moves to the Unassociated state.	
Notes		

TP ld		TP/PLT/PHG/OXP/COM/BV-019			
TP label		Disassociating state. Release Request			
Coverage	Spec	[ISO/I	ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	Mana	gerStateMach 60;M	DisassocProc 6;M	DisassocProc 7;M
Test purpos	e	Check that:			
		If PHG receives rlrq while in Disassociating state, the PHG shall transmit rlre(normal) and move to the Unassociated state.			
		[AND]			
		If both the PHG and the PHD simultaneously move to the Disassociating state such that one or both receive an Association Release Request while in the Disassociating state, then the receiver(s) shall respond to the request to avoid deadlock			
		[AND]			
					ciation Release Request while in elease Response shall be sent.
Applicability	/	C_MA	N_OXP_000 AND C_N	MAN_OXP_043	
Other PICS					
Initial condi	tion	The P	HG under test is in the	Operating state.	
Test proced	ure	1. N	lake the PHG under tes	st release the association.	
			he simulated PHD resp telease Request (RIrqA		ase Request with an Association
		3. T	he PHG under test resp	oonds with an Association Re	elease Response
		а	. APDU Type		
			☐ field-length = 2	bytes	
			☐ field-value = 0x	E6 0x00 (RIreApdu)	
		b	. reason		
			☐ field-type = Rel	easeResponseReason	
			☐ field-length = 2	bytes (INT-U16)	
			☐ field-value = no	rmal(0)	
		4. T	he PHD responds to th	e RIrq message with an RIre	message.

Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.
Notes	

TP ld		TP/PLT/PHG/OXP/COM/BV-020_B			
TP label		Dissociating state. Rors-cmip-get			
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
_	Testable items	ManagerStateMach 64;M			
Test purpos	se	Check that:			
		If rors-cmip-get is received while in the Disassociating state, a PHG shall transmit an abrt (reason undefined) and move to Unassociated state.			
Applicabilit	y	C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS					
Initial condi	tion	The PHG under test is in the Operating state.			
Test proced	lure	Make the PHG under test release the association.			
		The simulated PHD responds to the Association Release Request with a "rors-cmipget" (PrstAPDU).			
		3. The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field-type = Abort-reason			
		☐ field-length = 2 bytes			
		☐ field-value = One of the following:			
		undefined(0)			
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.			
Notes					

		T		
TP ld		TP/PLT/PHG/OXP/COM/BV-020_C		
TP label		Dissociating state. Rors-cmip-confirmed-set		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 64;M		
Test purpos	se	Check that:		
		If rors-cmip-confirmed-set is received while in the Disassociating state, a PHG shall transmit an abrt (reason undefined) and move to Unassociated state.		
Applicabilit	y	C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS				
Initial condi	tion	The PHG under test is in the Operating state.		
Test procedure		Make the PHG under test release the association.		
		The simulated PHD responds to the Association Release Request with a "rors-cmip-confirmed-set" (PrstAPDU).		
		3. The PHG under test responds with an Association Abort message and moves to the		

	Unassociated state:
	a. APDU Type
	☐ field-length = 2 bytes
	☐ field-value = 0xE6 0x00 (AbrtApdu)
	b. reason
	☐ field-type = Abort-reason
	☐ field-length = 2 bytes
	☐ field-value = One of the following:
	undefined(0)
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.
Notes	

TP Id		TP/PLT/PHG/OXP/COM/BV-020_D		
TP label		Dissociating state. Rors-cmip-confirmed-action		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 64;M		
Test purpose		Check that: If rors-cmip-confirmed-action is received while in the Disassociating state, a PHG shall transmit an abrt (reason undefined) and move to Unassociated state.		
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS				
Initial condition		The PHG under test is in the Operating state.		
Test proced	ure	 Make the PHG under test release the association. The simulated PHD responds to the Association Release Request with a "rors-cmip-confirmed-action" (PrstAPDU). The PHG under test responds with an Association Abort message and moves to the Unassociated state: APDU Type field-length = 2 bytes field-value = 0xE6 0x00 (AbrtApdu) reason field-type = Abort-reason field-length = 2 bytes field-value = One of the following: undefined(0) 		
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.		
Notes				

TP Id		TP/PLT/PHG/OXP/COM/BV-020_E	
TP label		Dissociating state. Roer	
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]	
	Testable items	ManagerStateMach 64;M	

Test purpose	Check that:		
	If roer is received while in the Disassociating state, a PHG shall transmit an abrt (reason undefined) and move to Unassociated state.		
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS			
Initial condition	The PHG under test is in the Operating state.		
Test procedure	Make the PHG under test release the association.		
	The simulated PHD responds to the Association Release Request with a "roer" (PrstAPDU).		
	3. The PHG under test responds with an Association Abort message and moves to the Unassociated state:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE6 0x00 (AbrtApdu)		
	b. reason		
	☐ field-type = Abort-reason		
	☐ field-length = 2 bytes		
	☐ field-value = One of the following:		
	undefined(0)		
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.		
Notes			

TP ld		TP/PLT/PHG/OXP/COM/BV-020_F		
TP label		Dissociating state. Rorj		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 64;M		
Test purpose		Check that:		
		If rorj is received while in the Disassociating state, a PHG shall transmit an abrt (reason undefined) and move to Unassociated state.		
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS				
Initial condition		The PHG under test is in the Operating state.		

Test procedure	Make the PHG under test release the association.				
	 The simulated PHD responds to the Association Release Request with a "rorj" (PrstAPDU). 				
	The PHG under test responds with an Association Abort message and moves to the Unassociated state:				
	a. APDU Type				
	☐ field-length = 2 bytes				
	☐ field-value = 0xE6 0x00 (AbrtApdu)				
	b. reason				
	☐ field-type = Abort-reason				
	☐ field-length = 2 bytes				
	☐ field-value = One of the following:				
	undefined(0)				
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.				
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-022_A			
TP label		Encoding Rules. MDER and XER			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	AssocResp 2;M			
Test purpos	е	Check that:			
		The encoding-rules field contains the one and only one DataApdu encoding rule shall be chosen by the PHG, if the result field is equal to accepted or accepted-unknown-config			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The PHG under test is in the Unassociated state.			
Test proced	ure	 The simulated PHD sends an Association Request to the PHG under test with the encoding rules filed set to MDER and XER. 			
		2. The PHG under test must respond with an Association Response, the field of interest is:			
		a. Encoding rules			
		☐ field-type = ProtocolVersion			
		☐ field-length = 2 bytes (BITS-16)			
	☐ field-value = only one bit is set				
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the selected encoding rules must be either MDER or XER.			
Notes					

TP Id		TP/PLT/PHG/OXP/COM/BV-022_B		
TP label Encoding Rules. MDER and PER				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
Testable items		AssocResp 2;M		
Test purpose		Check that:		

	The encoding-rules field contains the one and only one DataApdu encoding rule shall be chosen by the PHG, if the result field is equal to accepted or accepted-unknown-config				
Applicability	C_MAN_OXP_000				
Other PICS					
Initial condition	The PHG under test is in the Unassociated state.				
Test procedure	The simulated PHD sends an Association Request to the PHG under test with the encoding rules field set to MDER and PER.				
	2. The PHG under test must respond with an Association Response, the field of interest is:				
	a. Encoding rules				
	☐ field-type = ProtocolVersion				
	☐ field-length = 2 bytes (BITS-16)				
	☐ field-value = only one bit is set				
Pass/Fail criteria	The format of the received message in step 2 must be the one specified and the selected encoding rules must be either MDER or PER.				
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-022_C			
TP label		Encoding Rules. MDER, XER and PER			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	AssocResp 2;M			
Test purpos	se	Check that:			
		The encoding-rules field contains the one and only one DataApdu encoding rule shall be chosen by the PHG, if the result field is equal to accepted or accepted-unknown-config			
Applicability	у	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The PHG under test is in the Unassociated state.			
Test procedure		 The simulated PHD sends an Association Request to the PHG under test with the encoding rules field set to MDER, XER and PER. 			
		2. The PHG under test must respond with an Association Response, the field of interest is:			
		a. Encoding rules			
		☐ field-type = ProtocolVersion			
		☐ field-length = 2 bytes (BITS-16)			
		☐ field-value = only one bit is set			
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the selected encoding rules must be MDER or XER or PER.			
Notes					

TP Id		TP/PLT/PHG/OXP/COM/BV-023			
TP label		Encoding Rules. MDER			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
Testable items		AssocResp 3;M	MessageEncod 1;M		
Test purpose		Check that:			
		The PHG shall always support MDER enabling interoperability.			

	[AND]				
	Both PHG and PHD shall support the Medical Device Encoding Rules (MDER) as defined in ISO/IEEE Std 11073-20101.				
Applicability	C_MAN_OXP_000				
Other PICS					
Initial condition	The PHG under test is in the Unassociated state.				
Test procedure	The simulated PHD sends an Association Request to the PHG under test with the encoding rules field set to MDER.				
	2. The PHG under test must respond with an Association Response, the field of interest is:				
	a. Encoding rules				
	☐ field-type = ProtocolVersion				
	☐ field-length = 2 bytes (BITS-16)				
	☐ field-value = bit 0 must be set				
Pass/Fail criteria	The format of the received message in step 2 must be the one specified.				
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-031				
TP label Operating procedures. Persistently stored metric data transfer 1						
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			 C1	
3.	Testable items			trDatTransf 1;O	PersStoreMtrDatTransf 2;C	PersStoreMtrDatTran sf 26; O
Test purpos	Test purpose		k that:			
		If the PHG queries each PM-Store to determine the number of PM-Segments that exist within the PM-Store, the attribute-id-list shall be left empty to query for all attributes of the PM-store object.				
Applicabilit	у	C_MA	KO_NA	(P_000 AND C_MAI	N_OXP_003 AND C_MAN_OXP_04	8
Other PICS						
Initial cond	ition	The F	PHG ur	nder test is in the Op	perating state. The simulated PHD ha	as one PM-Store.
Test proced	dure	1. N	/lake th	ne PHG under test p	perform a GET service to the PM-Sto	re.
		2. The received message by the simulated PHD must be:				
		a. APDU Type				
				field-length = 2 by	tes	
				field-value = 0xE7	0x00 (PrstApdu)	
		b	. inv	oke-id		
				field-type = Invoke	eIDType	
				field-length = 2 by	tes	
				field-value = <not< th=""><th>relevant for this test></th><th></th></not<>	relevant for this test>	
		C	. CH	CHOICE:		
				☐ field-value = 0x01 0x03 (roiv-cmip-get)		
		d	l. ob	-Handle:		
				field-type = HAND	LE	
				field-length = 2 by	tes	
			☐ field-value = <the handle="" of="" phd's="" pm-store="" simulated="" the=""></the>			
		е	e. att	ribute-Id-List:		
			field-type = Attribu	ıteldList		

	☐ field-count = 0x00 0x00
	ifield-length = 0x00 0x00
Pass/Fail criteria	The format of the received message in step 2 must be the one specified.
Notes	

TP ld		TP/PLT/PHG/OXP/COM/BV-032				
TP label		Operating procedures. Persistently stored metric data transfer 2				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	PersStoreMtrDatTransf 16;M PersStoreMtrDatTransf 17;M				
Test purpos	se	Check that:				
		When the PHG receives an Event report, it shall reply with a SegmentDataResult response that shall contain the same store-handle, segm-instance number, segm-evt-entry-index, and segm-evt-entry-count. [AND] In the segm-evt-status, the PHG shall set the sevtsta-manager-confirm bit.				
Applicability	у	C_MAN_OXP_000 AND C_MAN_OXP_003				
Other PICS						
Initial condi	tion	The PHG under test is in the Operating state. The simulated PHD has one PM-Store with a least one Segment that contains data.				
Test proced	lure	Make the PHG under test retrieve the information stored in a PM-Segment.				
		The simulated PHD responds to the TrigSegmDataXferReq with an appropriate TrigSegmDataXferRsp message.				
		3. The simulated PHD sends a SegmentDataEvent to the PHG.				
		4. The PHG under test must respond with a SegmentDataResult message, the fields of interest are:				
		a. APDU Type				
		☐ field-length = 2 bytes				
		☐ field-value = 0xE7 0x00 (PrstApdu)				
		b. invoke-id				
		☐ field-type = InvokeIDType				
		☐ field-length = 2 bytes				
		☐ field-value = <the of="" same="" segmentdataevent="" sent="" the=""></the>				
		c. CHOICE:				
		☐ field-value = 0x02 0x01 (rors-cmip-confirmed-event-report)				
		d. Obj-Handle:				
		☐ field-type = HANDLE				
		• field-length = 2 bytes				
		field-value = < The same of the sent SegmentDataEvent >				
		e. CurrentTime				
		☐ field-type = RelativeTime				
		☐ field-length = 4 bytes				
		☐ field-value = <not for="" relevant="" test="" this=""></not>				
		f. event-type				
		☐ field-type = OID-Type				
		☐ field-length = 2 bytes				

	☐ field-value = 0x0D 0x21 (MDC_NOTI_SEGMENT_DATA)			
	g. SegmentDataResult			
	☐ field-length = 12 bytes			
	☐ field-value =			
	 segm-instance.value = < The same of the sent SegmentDataEvent > 			
	 segm-evt-entry-index.value = < The same of the sent SegmentDataEvent > 			
	 segm-evt-entry-count.value = < The same of the sent SegmentDataEvent > 			
	segm-evt-status.value = Bit 8 (sevtsta-manager-confirm)			
Pass/Fail criteria	The format of the received message in step 4 must be the one specified.			
Notes				

TP Id		TP/PLT/PHG/OXP/COM/BV-033_A				
TP label		Operating procedures. Error conditions. Timeout confirmed action 1				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	OperErrorCond 3;M	OperErrorCond 4;M			
Test purpos	se	Check that:				
		After sending a Confirmed Action invoke message, the PHG shall wait for a Confirmed Action response message for an TOca (timeout: confirmed action service) period by default unless another timeout applies (e.g., TOcIr-pms overrides TOca as described in 8.9.5.6)				
		[AND]				
		If the TOca expires, the PHG shall send an Association Abort message to the PHD and transition back to the Unassociated state				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condition		The PHG under test is in the Operating state. The PHD has a MDSTimeInfo attribute which indicates that it supports settable time and Absolute Time and Relative Time and the PHG is encouraged to set the time.				
Test proced	lure	Make the PHG under test set the Absolute Time of the simulated PHD.				
		2. The simulated PHD does not answer to the confirmed action for at least TOca time.				
Pass/Fail criteria		The PHG under test must wait for a Confirmed Action Report Response message for a TOca period. When the time expires, the PHG under test must send an abort to the simulated PHD and moves to the Unassociated state.				
Notes		Due to the delay introduced by the transport layer and decoder for the received APDU, the test tool accuracy may not be enough to measure this time-out. To get better accuracy, it is necessary to run this test case using a hardware sniffer.				

TP Id		TP/PLT/PHG/OXP/COM/BV-033_B			
TP label		Operating procedures. Error conditions. Timeout confirmed action 2			
Coverage	Coverage Spec [ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			-2016C]	
	Testable items	OperErrorCond 3;M OperErrorCond 4;M			
Test purpose		Action response message for	cion invoke message, the PHG s a TOca (timeout: confirmed acti s (e.g., TOclr-pms overrides TO	on service) period by default	

	If the TOca expires, the PHG shall send an Association Abort message to the PHD and transition back to the Unassociated state		
Applicability	C_MAN_OXP_000 AND C_MAN_OXP_003		
Other PICS			
Initial condition	The PHG under test is in the Operating state, the PHD has one PM-Store.		
Test procedure	 If the PHG did not perform a GetSegmentInfo on its own, make the PHG under test perform a GetSegmentInfo action. 		
	In both cases the simulated PHD does not answer to the confirmed action for at least TOca time.		
Pass/Fail criteria	The PHG under test must wait for a Confirmed Action Report message for a TOca period. When the time expires, the PHG under test must send an abort to the simulated PHD and moves to the Unassociated state.		
Notes	Due to the delay introduced by the transport layer and decoder for the received APDU, the test tool accuracy may not be enough to measure this time-out. To get better accuracy, it is necessary to run this test case using a hardware sniffer.		

TP ld		TP/PLT/PHG/OXP/COM/BV-035 A			
TP label		Operating procedures. Error conditions. Timeout Get service 1			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
Testable OperErrorCond 8;M		OperErrorCond 8;M			
Test purpos	e e	Check that:			
		If the RTOget expires, the PHG shall send an Association Abort message to its peer and transition back to the Unassociated state.			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The PHG under test is in the Operating state.			
Test proced	ure	 If the PHG under test did not send automatically a GET request for the MDS object, make the PHG under test perform a GET for the MDS object. 			
		Whether it was an automatic behaviour of the PHG under test or a forced one, the simulated PHD does not answer to the GET for at least TOget time.			
Pass/Fail criteria		The PHG under test must wait for a Confirmed Event Report Response message for a TOget period. When the time expires, the PHG under test must send an abort to the simulated PHD and moves to the Unassociated state.			
Notes		Due to the delay introduced by the transport layer and decoder for the received APDU, the test tool accuracy may not be enough to measure this time-out. To get better accuracy, it is necessary to run this test case using a hardware sniffer.			

TP ld		TP/PLT/PHG/OXP/COM/BV-035_B		
TP label		Operating procedures. Error conditions. Timeout Get service 2		
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	OperErrorCond 8;M		
Test purpos	se	Check that:		
		If the TOget expires, the PHG shall send an Association Abort message to its peer and transition back to the Unassociated state.		
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_048		
Other PICS				
Initial condition		The PHG under test is in the Operating state.		

Test procedure	 If the PHG under test did not send automatically a GET Service to the PM-Store object, make the PHG under test perform a GET to the PM-Store object. 		
	2. Whether it was an automatic behaviour of the PHG under test or a forced one, the simulated PHD does not answer to the GET for at least TOget time.		
Pass/Fail criteria The PHG under test must wait for a Confirmed Event Report Response mess TOget period. When the time expires, the PHG under test must send an about simulated PHD and moves to the Unassociated state.			
Notes	Due to the delay introduced by the transport layer and decoder for the received APDL test tool accuracy may not be enough to measure this time-out. To get better accuracy necessary to run this test case using a hardware sniffer.		

TP ld		TP/PLT/PHG/OXP/COM/BV-036_B		
TP label		Operating procedures. Error conditions. Timeout Set service		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	OperErrorCond 10;M		
Test purpos	e	Check that:		
		If the TOcs expires, the PHG shall send an Association Abort message to the PHD and transition back to the Unassociated state		
Applicability	/	C_MAN_OXP_000 AND (C_MAN_OXP_006 OR C_MAN_OXP_001)		
Other PICS				
Initial condi	tion	The PHG under test is in the Operating state, the simulated PHD's scanner is disabled.		
Test proced	ure	Make the PHG under test perform a SET Service to the Scanner's OperationalState.		
		2. The simulated PHD does not answer to the SET for at least TOcs time.		
Pass/Fail criteria		The PHG under test must wait for a Confirmed Event Report Response message for a TOcs period. When the time expires, the PHG under test must send an abort to the simulated PHD and moves to the Unassociated state.		
Notes		Due to the delay introduced by the transport layer and decoder for the received APDU, the test tool accuracy may not be enough to measure this time-out. To get better accuracy, it is necessary to run this test case using a hardware sniffer.		

TP ld		TP/PLT/PHG/OXP/COM/BV-037			
TP label		Operating procedures. Error conditions. Timeout clear-segments			
Coverage	Spec	[ISO/IEEE 11073-20601-20	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	OperErrorCond 12;M StoreClassAttr 10;M			
Test purpos	se	Check that:			
		If, after the PHG sends an Invoke Confirmed Action (Clear Segment) command, the TOclr- pms expires prior to the PHG receiving the corresponding Response Confirmed Action message, the PHG shall send an Association Abort message to the PHD and transition to the Unassociated state.			
Applicability	y	C_MAN_OXP_000 AND C_MAN_OXP_003 AND (C_MAN_OXP_040 OR C_MAN_OXP_041 OR C_MAN_OXP_042)			
Other PICS					
Initial condition		The PHG under test is in the Operating state and the simulated PHD has at least one segment with data.			
Test procedure		Make the PHG under test perform a ClearSegment action to one of the simulated PHD's segments.			
		2. The simulated PHD does not answer to the ClearSegment for at least Tocer-pms time.			

Pass/Fail criteria	The PHG under test must wait for a Confirmed Action Report message for a TOclr-pms period (as stated in the PMS.Clear-Timeout attribute). When the time expires, the PHG under test must send an abort to the simulated PHD.
Notes	Due to the delay introduced by the transport layer and decoder for the received APDU, the test tool accuracy may not be enough to measure this time-out. To get better accuracy, it is necessary to run this test case using a hardware sniffer.

TP Id		TP/PLT/PHG/OXP/COM/BV-039			
TP label		Operating procedures. Error conditions. Timeout special segment transfer of the PM-Store object			
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable	PM-SegmAttr 14;M	PM-SegmAttr 15;M	OperErrorCond 16;M	
	items	OperErrorCond 15; M	OperErrorCond 17; M		
Test purpos	se	Check that:			
		If the TOsp-pms expires (minimum time that the PHG shall wait for the complete transfer of PM-Segment information), the PHG shall send an Association Abort message to the PHD and transition back to the Unassociated state.			
		[AND]			
		After sending a Confirmed Action (MDC_ACT_SEG_TRIG_XFER) invoke message and receiving the response, the PHG shall wait up to a TOsp-pms (timeout: special segment transfer timeout of the PM-store object) period for a Confirmed Event Report (segm-evt-status=sevtsta-last-entry, semg-data-event-entries) invoke message			
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_003			
Other PICS					
Initial condi	ition	The PHG under test is in the Operating state and the simulated PHD has at least one segment with data.			
Test proced	lure	Make the PHG under test perform a Trig-Segment-Data-Xfer.			
		The simulated PHD sends a TriggerResponse with TrigSegmXferRsp = tsxr_successful.			
		3. The PHD does not send any SegmentData Event for at least TOsp-pms time.			
Pass/Fail criteria		The PHG under test must wait for the last SegmentData Event message for a TOsp-pms period (as stated in the Transfer-Timeout attribute). When the time expires, the PHG under test must send an abort to the simulated PHD.			
Notes		Due to the delay introduced by the transport layer and decoder for the received APDU, the test tool accuracy may not be enough to measure this time-out. To get better accuracy, it is necessary to run this test case using a hardware sniffer.			

TP ld		TP/PLT/PHG/OXP/COM/BV-040		
TP label		Disassociating procedure. Association Release Reason		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	DisassocProc 2;M		
Test purpose		Check that: The Association Release Request contains a ReleaseRequestReason to indicate the reason for releasing the association.		
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS				
Initial condition		The PHG under test is in the Operating state.		
Test procedure		Make the PHG under test release the Association. The received message by the simulated PHD must be:		

	a.	APDU Type:	
		☐ field-length = 2 bytes	
		☐ field-value = 0xE4 0x00 (RlrqApdu)	
	b.	Reason	
		☐ field-type = ReleaseRequestReason	
		☐ field-length = 2 bytes (INT-U16)	
		ield-value = One of the following:	
		normal (0)	
Pass/Fail criteria	The format of the received message in step 2 must be the one specified.		
Notes			

TP ld		TP/PLT/PHG/OXP/COM/BV-042			
TP label		Disassociating procedure. Association Release Request Reason 2			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	DisassocProc 8;M	DisassocProc 9;M		
Test purpose		Check that: After sending an Association Release message, the PHG shall wait for an Association Release Response message for a TOrelease (timeout: association release procedure)			
		period. [AND] If the TOrelease expires, the PHG shall send an Association Abort message to its peer and transition back to the Unassociated state.			
Applicability	y	C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS					
Initial condi	tion	The PHG under test is in the Operating state.			
Test procedure		 Make the PHG under test release the Association. The simulated PHD does not send any message for at least the Torelease time. 			
Pass/Fail criteria		The PHG under test must wait for a Release Response message for a Torelease period. When the time expires, the PHG under test must send an abort to the simulated PHD.			
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-043		
TP label		Unrecognized standard configuration		
Coverage	Spec	[ISO/IEEE 11073-20601-2015	5A] and [ISO/IEEE 11073-20601	-2016C]
	Testable items	ConfNormalProc 18;C	ConfNormalProc 24; O	
Test purpos	е	Check that:		
		If the PHG does not recognize the standard configuration (e.g., the PHG was released prior to the device specialization being released), it shall send a response of standard-configurationwn.		
		[AND]		
		that configuration. If the PHG	rate with the provided standard of stores configurations, it may sto s this standard configuration ide agnized.	re this configuration for future
Applicability	1		CC_MAN_OXP_032) AND (C_M N_OXP_019 OR C_MAN_OXP	

	OR C_MAN_OXP_025 OR C_MAN_OXP_026 OR C_MAN_OXP_027 OR C_MAN_OXP_029 OR C_MAN_OXP_067 OR C_MAN_OXP_071 OR C_MAN_OXP_073 OR C_MAN_OXP_076 OR C_MAN_OXP_077)	
Other PICS	C_MAN_OXP_046, C_MAN_OXP_085	
Initial condition	The PHG under test is in the Unassociated state.	
Test procedure	 The simulated PHD sends an Association Request with the attribute dev-config-id set to the standard configuration defined in the device specialization. 	
	2. The PHG under test sends an Association Response with the result = "accepted-unknown-config".	
	3. The simulated PHD sends a Configuration Event Report with the config-report-id set to the same dev-config-id of step 1 and an empty ConfigObjectList.	
	4. The PHG under test must respond with a "rors-cmip-confirmed-event-report and the fields of interest are:	
	a. ConfigReportRsp.config-report-id	
	☐ field-length = 2 bytes	
	field-value = It must be the same as the device-config-id of the simulated PHD's message	
	b. ConfigReportRsp.config-result	
	☐ field-length = 2 bytes	
	☐ field-value = 0x00 0x02 (standard-config-unknown)	
	The simulated PHD sends the full configuration information (ConfigObjectList completed, no empty).	
	6. The PHG under test must respond with a "rors-cmip-confirmed-event-report and the fields of interest are:	
	a. ConfigReportRsp.config-report-id	
	☐ field-length = 2 bytes	
	field-value = It must be the same as the device-config-id of the simulated PHD's message	
	b. ConfigReportRsp.config-result	
	☐ field-length = 2 bytes	
	☐ field-value = 0x00 0x00 (accepted-config) or 0x00 0x01(unsupported-config)	
	7. IF C_MAN_OXP_085 THEN:	
	a. The simulated PHD moves to Configuring/Waiting GetMDS.	
	b. PHG under test issues a roiv-cmip-get command.	
	 The simulated PHD sends a rors-cmip-get with MDS attributes, and moves to Operating. 	
	8. IF the PHG and the simulated PHD are in the Operating state, the simulated PHD sends a RIrq(normal) to the PHG. If the PHG and the simulated PHD are in the Configuring state, the simulated PHD sends an RIrq (no-more-configurations) to the PHG.	
	9. The PHG sends a Release Response.	
	10. IF C_MAN_OXP_046 = TRUE, the simulated PHD sends an aarq with the config- report-id set to the same dev-config-id of step 1, the PHG under test may respond with an Association Response:	
	a. APDU Type	
	☐ field-length = 2 bytes	
	☐ field-value = 0xE3 0x00 (AareAdpu)	
	b. Result	
	☐ field-length = 2 bytes	
	☐ field-value = 0x00 0x00 (accepted-config)	

Pass/Fail criteria	The PHG under test must respond with a "standard-config-unknown" result in step 4. In step 6 and 10, the PHG may accept the configuration.
Notes	At this moment, all Continua Device Specs only support the Standard Dev-Config-id defined in the Device Specialization spec, and according to subsection 7.4.3.5.1 "A PHG that supports one (or more) of the ISO/IEEE 11073-104xx device specialization standards shall be able to accept all the standard device configurations specified in that particular standard."

TP ld		TP/PLT/PHG/OXP/COM/BV-044		
TP label		Extended configuration - Empty ConfigObjectList		
Coverage Spec		[ISO/IE	EEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]	
	Testable items	ConfNo	ormalProc 26;M	
Test purpos	е	Check t	that:	
		A PHD may send an extended configuration with an empty config-object-list. This can happen, for instance, when a PHD accepts plug-in components, but presently does not have any inserted. The PHG responds with either accepted-config or unsupported-config.		
Applicability	1	C_MAN	N_OXP_000	
Other PICS				
Initial condit	ion	The PH	HG under test is in the Unassociated state.	
Test proced	ure		ne simulated PHD sends an Association Request with the attribute dev-config-id set an extended configuration.	
			ne PHG under test sends an Association Response with the result = "accepted- known-config".	
			ne simulated PHD sends a Configuration Event Report with config-report-id set to the time dev-config-id of step 1 and an empty ConfigObjectList.	
		4. The	ne PHG under test must respond with a "rors-cmip-confirmed-event-report and the elds of interest are:	
		a.	ConfigReportRsp.config-report-id	
			☐ field-length = 2 bytes	
			☐ field-value = It must be the same as the device-config-id of the simulated PHD's message	
		b.	ConfigReportRsp.config-result	
			☐ field-length = 2 bytes	
			☐ field-value = 0x00 0x00 (accepted-config) or 0x00 0x01(unsupported-config)	
Pass/Fail criteria			HG under test must respond with an "accepted-config" or an "unsupported-config" n step 4.	
Notes				

TP ld		TP/PLT/PHG/OXP/COM/BV-045
TP label		Get Specific Attribute List PM-Store
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]
	Testable items	PersStoreMtrDatTransf 2;C
Test purpose		Check that: Specific attributes of an object may be queried by listing the desired Attribute IDs found in Table 9
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_049
Other PICS		

Initial condition	The PHG under test is in the Operating state. The simulated PHD has one PM-Store.	
Test procedure	 Make the PHG under test perform a GET request to a specific list of PM-Store attributes. 	
	2. The received message by the simulated PHD must be:	
	a. APDU Type	
	☐ field-length = 2 bytes	
	☐ field-value = 0xE7 0x00 (PrstApdu)	
	b. invoke-id	
	☐ field-type = InvokeIDType	
	☐ field-length = 2 bytes	
	☐ field-value = <not for="" relevant="" test="" this=""></not>	
	c. CHOICE:	
	☐ field-value = 0x01 0x03 (roiv-cmip-get)	
	d. Obj-Handle:	
	☐ field-type = HANDLE	
	☐ field-length = 2 bytes	
	☐ field-value = <the handle="" of="" phd's="" pm-store="" simulated="" the=""></the>	
	e. Attribute-Id-List:	
	☐ field-type = AttributeIdList	
	☐ field-count = <it attribute="" contains="" more="" one="" or=""></it>	
	field-value = <attribute-id attribute-id="" attributes<br="" defined="" for="" match="" pm-store="">(Table 9)></attribute-id>	
Pass/Fail criteria	The format of the received message in step 2 must be the one specified.	
Notes		

TP Id		TP/PLT/PHG/OXP/COM/BV-046		
TP label		Mar	nager State machine:Configuring Waiting. Corrupt-unknown-unexpected APDU	
Coverage	Spec	[ISC	D/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]	
	Testable items	Mar	nagerStateMach 78;M	
Test purpos	е	Che	eck that:	
		If prst (Any APDU not covered in 6.* (corrupt, unknown, unexpected, etc.) received while in Configuring–Waiting state, a PHG shall transmit an abrt(Abort-reason undefined) and remain in the Unassociated state.		
Applicability	1	C_N	MAN_OXP_000	
Other PICS				
Initial condit	tion	The	simulated PHD and the PHG under test are in the Unassociated state.	
Test proced	Test procedure		The simulated PHD sends an Association Request to the PHG under test with a devconfig-id set to an id in the extended range unknown to the PHG.	
		2.	The PHG under test responds with an Association Response:	
			a. APDU Type	
			☐ field-length = 2 bytes	
			☐ field-value = 0xE3 0x00 (AareAdpu)	
			b. Result	
			☐ field-length = 2 bytes	
			☐ field-value = 0x00 0x03 (accepted-unknown-config)	

	3. The simulated PHD sends an invalid apdu.
	4. The PHG under test responds with an Association Abort message:
	a. APDU Type:
	☐ field-length = 2 bytes
	☐ field-value = 0xE6 0x00
	b. Abort-Reason:
	☐ field-length = 2 bytes
	☐ field-value = 0x00 0x00 (undefined)
Pass/Fail criteria	The format of the received message in step 4 must be the one specified.
Notes	

TP Id		TP/PLT/PHG/OXP/COM/BV-047			
TP label		Manager State machine:Operating. Corrupt-unknown-unexpected APDU			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 80;M			
Test purpos	е	Check that:			
		If prst (Any APDU not covered in 8.* (corrupt, unknown, unexpected, etc.) received while in Operating state, a PHG shall transmit an abrt(Abort-reason undefined) and remain in the Unassociated state.			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condition		The PHG under test is in the Operating state.			
Test proced	ure	1. The simulated PHD sends an invalid apdu.			
		2. The PHG under test responds with an Association Abort message:			
		a. APDU Type:			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00			
		b. Abort-Reason:			
		☐ field-length = 2 bytes			
		☐ field-value = 0x00 0x00 (undefined)			
Pass/Fail cri	iteria	The format of the received message in step 2 must be the one specified.			
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-048
TP label		Manager State machine:Disassociating. Corrupt-unknown-unexpected APDU
Coverage Spec		[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]
	Testable items	ManagerStateMach 81;M
Test purpos	se	Check that:
		If prst (Any APDU not covered in 9.* (corrupt, unknown, unexpected, etc.) received while in disassociating state, a PHG shall transmit an abrt(Abort-reason undefined) and remain in the Unassociated state.
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_043
Other PICS		

Initial condition	The PHG under test is in the Operating state.	
Test procedure	Make the PHG under test release the association.	
	The simulated PHD responds to the Association Release Request with an invalid APDU.	
	3. The PHG under test responds with an Association Abort message:	
	a. APDU Type:	
	☐ field-length = 2 bytes	
	☐ field-value = 0xE6 0x00	
	b. Abort-Reason:	
	☐ field-length = 2 bytes	
	☐ field-value = 0x00 0x00 (undefined)	
Pass/Fail criteria	The format of the received message in step 3 must be the one specified.	
Notes		

TP Id					
IFIU		TP/PLT/PHG/OXP/COM/BV-049			
TP label		Configuring.Sending GetMDS substate. Association Request			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 86;M			
Test purpose	9	Check that:			
		If the PHG receives aarq while in Sending GetMDS substate, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.			
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial condit	ion	PHG under test is in Sending GetMDS substate			
Test procedu	ıre	The simulated PHD sends an Association Request to the PHG under test			
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field- type = Abort-reason			
		☐ field-length = 2 bytes			
		☐ field-value = One of the following:			
		undefined(0)			
Pass/Fail cri	teria	The format of the received message in step 2 must be the one specified and the PHG moves to Unassociated state.			
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-050				
TP label		Configuring.Sending GetMDS substate. Association Response				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerStateMach 87;M				
Test purpose		Check that: If the PHG receives aare while in Sending GetMDS substate, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.				
Applicability	,	C_MAN_OXP_000 AND C_MAN_OXP_088				
Other PICS						
Initial condit	tion	The PHG under test is in Sending GetMDS substate				
Test proced	ure	The simulated PHD sends an Association Response to the PHG under test				
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:				
		a. APDU Type				
		☐ field-length = 2 bytes				
		☐ field-value = 0xE6 0x00 (AbrtApdu)				
		b. reason				
		☐ field- type = Abort-reason				
		☐ field-length = 2 bytes				
		☐ field-value = One of the following:				
		undefined(0)				
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to Unassociated state.				
Notes						

TP ld		TP/PLT/PHG/OXP/COM/BV-051			
TP label		Configuring.Sending GetMDS substate. Release Request			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 88;M			
Test purpose		Check that: If the PHG receives rlrq while in Sending GetMDS substate, the PHG shall transmit rlre(normal) and move to the Unassociated state.			
Applicability	,	C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial condition		The PHG under test is in Sending GetMDS substate			
Test procedure		The simulated PHD sends an Association Release Request to the PHG under test The PHG under test responds with an Release Response message and moves to the			

	Unassociated state:		
	a. APDU Type		
	☐ field-length = 2 bytes		
	☐ field-value = 0xE5 0x00 (RIreApdu)		
	b. reason		
	☐ field- type = ReleaseResponseReason		
	☐ field-length = 2 bytes		
	☐ field-value = normal (0)		
Pass/Fail criteria	ormat of the received message in step 2 must be the one specified and PHG moves to lnassociated state.		
Notes			

TP ld		TP/PLT/PHG/OXP/COM/BV-052				
TP label		Configuring.Sending GetMDS substate. Release Response				
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerStateMach 89;M				
Test purpose		Check that: If the PHG receives rire while in Sending GetMDS substate, the PHG shall transmit an abrt(Abort-reason undefined) and move to the Unassociated state.				
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_088				
Other PICS						
Initial conditi	ion	The PHG under test is in Sending GetMDS substate				
Test procedu	ıre	The simulated PHD sends an Association Release Response to the PHG under test				
		The PHG under test responds with an Association Abort message and moves to the Unassociated state:				
		a. APDU Type				
		☐ field-length = 2 bytes				
		☐ field-value = 0xE6 0x00 (AbrtApdu)				
		b. reason				
		☐ field- type = Abort-reason				
		☐ field-length = 2 bytes				
		☐ field-value = One of the following:				
	■ undefined(0)					
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and PHG moves to the Unassociated state.				
Notes						

TP ld	TP/PLT/PHG/OXP/COM/BV-053
TP label	Manager State machine: Configuring Sending GetMDS 1

Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	ManagerStateMach 92;M				
Test purpos	se	Check that:				
		If the PHG receives Rx roiv-cmip-get (handle = 0) while in Sending GetMDS substate, it responds with roiv-cmip-get (handle = 0) and stays in the same state				
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_088				
Other PICS						
Initial condition		The simulated PHD and PHG under test are in Configuring state. The simulated PHD is in Waiting GetMDS substate, and PHG under test is in Sending GetMDS substate.				
Test proced	dure	1. The simulated PHD sends a "roiv-cmip-get" (handle = 0)				
		2. The PHG under test responds with a "roiv-cmip-get" (handle = 0).				
		3. The simulated PHD sends a "rors-cmip-get" (handle = 0) with mds-time-mgr-set-time(0), while in Sending GetMDS substate, PHG moves to Operating state.				
Pass/Fail criteria		In Step 2, the simulated PHD receives a "roiv-cmip-get" (handle = 0) and PHG under test stays in Sending GetMDS substate.				
		In Step 3, PHG moves to Operating state.				
Notes						

TP ld TP label		TP/PLT/PHG/OXP/COM/BV-054 Manager State machine: Configuring Sending GetMDS 2			
	Testable items	ManagerStateMach 93;M			
Test purpos	se	Check that:			
		If the PHG receives Rx roiv-* but not roiv-cmip-get (handle = 0), while in Sending GetMDS substate, the PHG shall stay in the same state			
Applicabilit	y	C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial cond	ition	The simulated PHD and the PHG under test are in the Configuring state. The simulated PHD is in Waiting GetMDS substate, and PHG under test is in Sending GetMDS substate.			
Test proced	dure	The simulated PHD sends a "roiv-cmip-get" (handle = 1)			
		2. The simulated PHD sends a "rors-cmip-get" (handle = 0) with mds-time-mgr-set-time(0), while in Sending GetMDS substate, PHG moves to Operating state.			
Pass/Fail criteria		In Step 1, PHG stays in Sending GetMDS substate.			
		In Step 2, PHG moves to Operating state.			
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-055					
TP label		Manager State machine: Configuring Sending GetMDS 3					
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]					
	Testable items	ManagerStateMach 94;M					
Test purpose	•	Check that:					
		If the PHG receives Rx rors-cmip-get (handle = 0) with mds-time-mgr-set-time(1) while in the Sending GetMDS substate, the PHG shall transmit a roiv-cmip-confirmed-action (set time) and move to Sending SetTime substate.					
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_088					
Other PICS							
Initial condit	ion	The simulated PHD and the PHG under test are in the Configuring state. The simulated PHD is in the Waiting GetMDS substate, and the PHG under test is in Sending GetMDS substate.					
Test procedu	ıre	The simulated PHD sends a "rors-cmip-get" (handle = 0) with mds-time-mgr-set-time (1).					
		The PHG under test shall respond with a roiv-cmip-confirmed-action (set time) and move to Sending SetTime substate:					
		a. Type = Remote Operation Invoke Confirmed Action					
		b. Handle = 0 (MDS object)					
		c. Action = 0x0C 0x17 (MDC_ACT_SET_TIME) OR 0x0C 0x1D (MDC_ACT_SET_BO_TIME)					
		d. SetTimeInvoke = SEQUENCE:					
		☐ date-time.length = 8 bytes					
		☐ date-time.value = <record comparison="" for=""></record>					
		☐ Accuracy = 0.					
Pass/Fail criteria		The simulated PHD receives a roiv-cmip-confirmed-action (set time) and the PHG under test moves to Sending SetTime substate					
Notes							

TP ld		TP/PLT/PHG/OXP/COM/BV-056			
TP label		Manager State machine: Configuring Sending GetMDS 4			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 94;M			
Test purpose		Check that: If the PHG receives Rx rors-cmip-get (handle = 0) with mds-time-mgr-set-time(0) while in the Sending GetMDS substate, the PHG shall move to the Operating substate.			
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial condition			HG under test are in the Configu tate, and the PHG under test is		

Test procedure	1. The simulated PHD sends a "rors-cmip-get" (handle = 0) with mds-time-mgr-set-time(0)		
	2. The PHG under test shall move to the Operating state.		
Pass/Fail criteria	The PHG under test moves to the Operating state.		
Notes			

TP ld		TP/PLT/PHG/OXP/COM/BV-057						
TP label		Configuring.Sending SetTime substate. Association Request						
Coverage	overage Spec			[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]				
	Testable items	Mar	nage	rStateMach 99;M				
Test purpos	e	Che	eck th	nat:				
				eceives aarq while in Sending SetTime substate, the PHG shall transmit an abrt undefined) and move to the Unassociated state.				
Applicability	Ī	C_N	ΛAN_	_OXP_000 AND C_MAN_OXP_088				
Other PICS								
Initial condit	ion	PHG under test is in Sending SetTime substate						
Test proced	ure	Simulated PHD sends an Association Request to the PHG under test						
		PHG under test responds with an Association Abort message and moves to the Unassociated state:						
		a. APDU Type						
				☐ field-length = 2 bytes				
				☐ field-value = 0xE6 0x00 (AbrtApdu)				
			b.	reason				
				☐ field- type = Abort-reason				
				☐ field-length = 2 bytes				
				☐ field-value = One of the following:				
				undefined(0)				
Pass/Fail criteria				nat of the received message in step 2 must be the one specified and PHG moves to ciated state.				
Notes								

TP ld		TP/PLT/PHG/OXP/COM/BV-058			
TP label		Configuring.Sending SetTime substate. Association Response			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
Testable items		ManagerStateMach 100;M			
Test purpose		Check that:			
		If the PHG receives an aare while in Sending SetTime substate, the PHG shall transmit an abrt (reason undefined) and move to the Unassociated state.			

Applicability	C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS				
Initial condition	The	PHG ur	nder test is in the Sending SetTime substate	
Test procedure	1.	The simulated PHD sends an Association Response to the PHG under test		
		2. The PHG under test responds with an Association Abort message and moves to the Unassociated state:		
		a. AP	DU Type	
			field-length = 2 bytes	
			field-value = 0xE6 0x00 (AbrtApdu)	
		b. rea	ason	
			field- type = Abort-reason	
			field-length = 2 bytes	
			field-value = One of the following:	
			undefined(0)	
Pass/Fail criteria			of the received message in step 2 must be the one specified and the PHG moves sociated state.	
Notes				

		Т			
TP ld		TP/PLT/PHG/OXP/COM/BV-059			
TP label		Configuring.Sending SetTime substate. Release Request			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 101;M			
Test purpose	Э	Check that:			
		If the PHG receives rlrq while in Sending SetTime substate, the PHG shall transmit rlre(normal) and move to the Unassociated state.			
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial condition		The PHG under test is in the Sending SetTime substate			
Test procedure		The simulated PHD sends an Association Release Request to the PHG under test			
		2. The PHG under test responds with an Release Response message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE5 0x00 (RIreApdu)			
		b. reason			
		☐ field- type = ReleaseResponseReason			
		☐ field-length = 2 bytes			
		• field-value = normal (0)			

Pass/Fail criteria	The format of the received message in step 2 must be the one specified and PHG moves to the Unassociated state.
Notes	

TP Id		TP/PLT/PHG/OXP/COM/BV-060			
TP label		Configuring.Sending SetTime substate. Release Response			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 102;M			
Test purpose		Check that: If the PHG receives rire while in the Sending SetTime substate, the PHG shall transmit an abrt(Abort-reason undefined) and move to the Unassociated state.			
Applicability	,	C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial condition		The PHG under test is in the Sending SetTime substate			
Test procedure		The simulated PHD sends an Association Release Response to the PHG under test			
		2. The PHG under test responds with an Association Abort message and moves to the Unassociated state:			
		a. APDU Type			
		☐ field-length = 2 bytes			
		☐ field-value = 0xE6 0x00 (AbrtApdu)			
		b. reason			
		☐ field- type = Abort-reason			
		☐ field-length = 2 bytes			
		☐ field-value = One of the following:			
		undefined(0)			
Pass/Fail criteria		The format of the received message in step 2 must be the one specified and the PHG moves to the Unassociated state.			
Notes					

TP ld		TP/PLT/PHG/OXP/COM/BV-06	61	
TP label		Manager State machine: Configuring Sending SetTime 1		
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]		
	Testable items	ManagerStateMach 105;M		
Test purpose		Check that: If the PHG receives Rx rors-cmip-confirmed-action (set time), while in the Sending SetTime substate, the PHG shall move to the Operating state.		
Applicability		C_MAN_OXP_000 AND C_MA	N_OXP_088	

Other PICS	
Initial condition	The simulated PHD and the PHG under test are in the Configuring state. The simulated PHD is in the Waiting SetTime substate, and the PHG under test is in the Sending SetTime substate.
Test procedure	The simulated PHD sends a "rors-cmip-confirmed-action" (set time)
	2. The PHG under test shall move to the Operating state.
Pass/Fail criteria	The PHG under test moves to the Operating state.
Notes	

TP ld		TP/PLT/PHG/OXP/COM/BV-062			
TP label		Manager State machine: Configuring Sending SetTime 2			
Coverage	Spec	[ISO/IEEE 11073-20601-2015A] and [ISO/IEEE 11073-20601-2016C]			
	Testable items	ManagerStateMach 106;M			
Test purpos	e	Check that:			
		If the PHG receives Rx rors-* (other tan rors-cmip-confirmed-action (set time)), roer-* or rorj-*, while in the Sending SetTime substate, the PHG shall stay in the same state.			
Applicability	/	C_MAN_OXP_000 AND C_MAN_OXP_088			
Other PICS					
Initial condition		The simulated PHD and the PHG under test are in the Configuring state. The simulated PHD is in the Waiting SetTime substate, and the PHG under test is in the Sending SetTime substate.			
Test procedure		The simulated PHD sends a "rors-cmip-get" (handle = 0)			
		2. The simulated PHD sends a "rors-cmip-confirmed-action" (set time)			
		The PHG under test shall move to the Operating state.			
Pass/Fail criteria		In Step 1, the PHG stays in the Sending SetTime substate.			
		In Step 3, the PHG moves to the Operating state.			
Notes					

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