ITU-T

H.845.9

TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU (07/2016)

SERIES H: AUDIOVISUAL AND MULTIMEDIA SYSTEMS

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

Conformance of ITU-T H.810 personal health devices: PAN/LAN/TAN interface Part 5I: Medication adherence monitor: Agent

Recommendation ITU-T H.845.9



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Recommendation ITU-T H.845.9

Conformance of ITU-T H.810 personal health devices: PAN/LAN/TAN interface Part 5I: Medication adherence monitor: Agent

Summary

Recommendation ITU-T H.845.9 is a transposition of Continua Test Tool DG2013, Test Suite Structure & Test Purposes, PAN-LAN-TAN Interface; Part 5I: Device Specializations. Agent (Adherence Monitor) (Version 1.4, 2014-01-24), that was developed by the Continua 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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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 DG2013, Test Suite Structure & Test Purposes, PAN-LAN-TAN Interface; Part 5I: Device Specializations. Agent (Adherence Monitor) (Version 1.4, 2014-01-24), that was developed by the Continua Health Alliance. A number of versions of this specification existed before transposition and these can be found in the table below.

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_5I_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_5I_v1.2.doc" as a baseline and adds new features included in [b-CDG 2012]: Max APDU size for GM, BCA and ECG.
1.4	2014-01-24	Initial release for Test Tool DG2013. This uses "TSS&TP_DG2012_PAN-LAN_PART_5I_v1.4.doc" as a baseline and adds new features included in [ITU-T H.810 (2015)]:
		Adds glucose meter BLE Add BLE SCR
		Adds BLE SSP supportAdds NFC new transport
		Adds INR device specialization

Recommendation ITU-T H.845.9

Conformance of ITU-T H.810 personal health devices: PAN/LAN/TAN interface Part 5I: Medication adherence monitor: Agent

1 Scope

The scope of this Recommendation¹ is to provide a test suite structure and the test purposes (TSS & TP) for the PAN/LAN/TAN interface based on the requirements defined in the Continua Design Guidelines (CDG) [ITU-T H.810 (2015)]. The objective of this test specification is to provide a high probability of air interface interoperability between different devices.

The TSS and TP for the PAN/LAN/TAN interface document have been divided into ten parts. Each part is listed below:

- Part 1: Optimized exchange protocol [ISO/IEEE 11073-20601A] Agent
- Part 2: Optimized exchange protocol [ISO/IEEE 11073-20601A] Manager
- Part 3: Continua design guidelines. Agent
- Part 4: Continua design guidelines. Manager
- Part 5: Device specializations. Agent. This document is divided into 14 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 (Future development)
 - **Part 5K**: Peak flow
 - Part 5L: Body composition analyser
 - Part 5M: Basic electrocardiograph
 - Part 5N: International normalized ratio monitor
- Part 6: Device specializations. Manager
- Part 7: Continua design guidelines. Agent BLE
- Part 8: Continua design guidelines. Manager BLE
- Part 9: Personal health devices transcoding whitepaper. Agent
- Part 10: Personal health devices transcoding whitepaper. Manager

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.

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 (2015)] Recommendation ITU-T H.810 (2015), Interoperability design

guidelines for personal health systems.

[ITU-T H.810 (2016)] Recommendation ITU-T H.810 (2016), Interoperability design

guidelines for personal health systems.

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

device communication - Part 10472: Device specialization -

Medication monitor.

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

health device communication – Device specialization.

NOTE – Shorthand is used to refer to the collection of device specialization standards that utilize [ISO/IEEE 11073-20601A], where xx can be any

number from 01 to 99, inclusive.

[ISO/IEEE 11073-20601A] 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.

http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=54331

with

http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=63972

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following terms defined elsewhere:

- **3.1.1 agent** [ISO/IEEE 11073-20601A]: A node that collects and transmits personal health data to an associated manager.
- **3.1.2** manager [ISO/IEEE 11073-20601A]: 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.

2

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

ATS Abstract Test Suite

DUT Device Under Test

CDG Continua Design Guidelines

GUI Graphical User Interface

INR International Normalized Ratio

IUT Implementation Under Test

MDS Medical Device System

NFC Near Field Communication

PAN Personal Area Network

PCT Protocol Conformance Testing

PCO Point of Control and Observation

PHD Personal Healthcare Device

PHDC Personal Healthcare Device Class

PHM Personal Health Manager

PICS Protocol Implementation Conformance Statement

PIXIT Protocol Implementation extra Information for Testing

SABTE Sleep Apnoea Breathing Therapy Equipment

SDP Service Discovery Protocol

SOAP Simple Object Access Protocol

TCWG Test and Certification Working Group

TP Test Purpose

TSS Test Suite Structure
USB Universal Serial Bus

WDM Windows Driver Model

5 Conventions

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

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

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

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

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

CDG name	Transposed as	Version	Description	Designation
2016 plus errata	[ITU-T H.810 (2016)]	6.1	Release 2016 plus errata noting all ratified bugs [ITU-T H.810 (2016)].	-
2016	_	6.0	Release 2016 of the CDG including maintenance updates of the CDG 2015 and additional guidelines that cover new functionalities.	Iris
2015 plus errata	[ITU-T H.810 (2015)]	5.1	Release 2015 plus errata noting all ratified bugs [ITU-T H.810 (2015)].	_
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-ITU-T H.810 (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		
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].	
1.0	-	1.0	First released version of the CDG [b-CDG 1.0].	_

6 **Test suite structure (TSS)**

The test purposes (TPs) for the PAN/LAN/TAN interface have been divided into the main subgroups specified below. Annex A describes the TPs for subgroup 1.3.9 (shown in bold).

- Group 1: Agent (AG)
 - 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: 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) (Future development)
 - Subgroup 1.3.11: Peak flow (PF)
 - Subgroup 1.3.12: Body composition analyzer (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)
- Group 1.4: Personal health device transcoding whitepaper (PHDTW)
 - Subgroup 1.4.1: Whitepaper general requirements (GEN)
 - Subgroup 1.4.2: Whitepaper thermometer requirements (TH)
 - Subgroup 1.4.3: Whitepaper blood pressure requirements (BPM)
 - Subgroup 1.4.4: Whitepaper heart rate requirements (HR)
 - Subgroup 1.4.5: Whitepaper glucose meter requirements (GL)
 - Subgroup 1.4.6: Whitepaper weight scale requirements (WS)

- Group 2: Manager (MAN)
 - 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: 20601: Optimized exchange protocol (OXP)
 - Subgroup 2.2.1: General (GEN)
 - Subgroup 2.2.2: PHD domain information model (DIM)
 - Subgroup 2.2.3: PHD service model (SER)
 - Subgroup 2.2.4: PHD communication model (COM)
 - Group 2.3: Devices class specializations (CLASS)
 - Subgroup 2.3.1: Weighing scales (WEG)
 - Subgroup 2.3.2: Glucose meter (GL)
 - Subgroup 2.3.3: Pulse oximeter (PO)
 - Subgroup 2.3.4: Blood pressure monitor (BPM)
 - Subgroup 2.3.5: Thermometer (TH)
 - Subgroup 2.3.6: Cardiovascular (CV)
 - Subgroup 2.3.7: Strength (ST)
 - Subgroup 2.3.8: Activity hub (HUB)
 - Subgroup 2.3.9: Adherence monitor (AM)
 - Subgroup 2.3.10: Insulin pump (IP) (Future development)
 - Subgroup 2.3.11: Peak flow (PF)
 - Subgroup 2.3.12: Body composition analyzer (BCA)
 - Subgroup 2.3.13: Basic electrocardiograph (ECG)
 - Subgroup 2.3.14: International normalized ratio (INR)
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 - Subgroup 2.4.4: Whitepaper heart rate requirements (HR)
 - Subgroup 2.4.5: Whitepaper glucose meter requirements (GL)
 - Subgroup 2.4.6: Whitepaper weight scale requirements (WS)

7 Electronic attachment

The protocol implementation conformance statements (PICS) and the protocol implementation extra information for testing (PIXIT) required for the implementation of this Annex can be downloaded from http://handle.itu.int/11.1002/2000/12067.

In the electronic attachment, letters "C" and "I" in the column labelled "Mandatory" are used to distinguish between "PICS" and "PIXIT" respectively during testing. If the cell is empty, the corresponding PICS is "independent". If the field contains a "C", the corresponding PICS is dependent on other PICS, and the logical expression is detailed in the 3 "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:
 - AG: PAN/LAN Agent
 - MAN: PAN/LAN Manager

 - <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 testable items to be checked by the TP.
- **Test purpose**: This is a description of the requirements to be tested.
- **Applicability**: This contains the PICS items that define if the test case is applicable or not for a specific device. When a TP contains an "ALL" in this field it means that it applies to the device under test within that scope of the test (specialization, transport used, etc.).
- Other PICS: It 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.1 Subgroup 1.3.9: Adherence monitor (AM)

TP Id TP/PLT/AG/CLASS/AM/BV-000							
TP label		Get MDS Object for Adherence Monitor specialization: Mandatory, Conditional and Optional Attributes					
Coverage	Spec	[ISO/IEEE 11073-10472	[ISO/IEEE 11073-10472]				
	Testable	MM_MDSAttr1; M	MM_MDSAttr2; M	MM_MDSAttr3; M			
	items	MM_MDSAttr4; R	MM_MDSAttr5; R	MM_MDSAttr6; R			
		MM_MDSAttr7; M	MM_MDSAttr8; M	MM_GETServ1; M			
		MM_GETServ4; M	MM_OperProc2; M				
Test purpos	se	[AND]	et command that requests all attent of the command that requests all attent of the command that requests all attents are consisted for a N				
Applicability	у	C_AG_OXP_168 AND (C_AG_OXP_000				
Other PICS		C_AG_OXP_181, C_AC	G_AM_001, C_AG_AM_002, C_A	AG_AM_003, C_AG_AM_004			
Initial condi	tion	The simulated manager	and the agent under test are in	the operating state.			
Test proced	lure	The simulated manager issues a "roiv-cmip-get" command with the handle set to 0 (to request for an MDS object) and the attribute-id-list set to 0 to indicate all attributes.					
			s with a "rors-cmip-get" service r implemented attributes of the M	nessage in which the attribute-list DS object:			
		MDS Attributes:					
		a. Mandatory attr	ibute System-model				
			d = MDC_ATTR_ID_MODEL				
			/pe = SystemModel				
			alue.length = <variable></variable>				
			alue ={Manufacturer, Model}				
			ibute Dev-Configuration-Id	ID.			
			d = MDC_ATTR_DEV_CONFIG_	ַטו			
			/pe = Configld				
			alue.length = 2 bytes				
		□ attribute-v	alue = _AG_AM_001 then attribute-valu	ue - 0v1C 0v20			
			E IF C_AG_AM_002 then attribu				
			E IF C_AG_AM_003 then attribu E IF C_AG_AM_004 then attribu				
		- FLSI	- I- I AI- ANI HID TOAN Affribil				

	C.	Recommended attribute Power-Status
		□ attribute-id = MDC_ATTR_POWER_STAT
		□ attribute-type = PowerStatus (BITS-16)
		☐ attribute-value.length = 2 bytes
		□ attribute-value =
		ON_MAINS (0x8000) or ON_BATTERY(0x4000)
		Only one of the following may be active:
		chargingFull(8),
		chargingTrickle(9),
		chargingOff(10).
		 The rest of the bits must not be set
	d.	Recommended attribute Battery-Level
		□ attribute-id = MDC_ATTR_VAL_BATT_CHARGE
		□ attribute-type = INT-U16
		☐ attribute-value.length = 2 bytes
		□ attribute-value = <undefined if="" value="">100 ></undefined>
	e.	Recommended attribute Remaining-Battery-Time
		☐ attribute-id = MDC_ATTR_TIME_BATT_REMAIN
		□ attribute-type = BatMeasure
		☐ attribute-value.length = <variable></variable>
		□ attribute-value = <units be="" mdc_dim_day="" mdc_dim_hr,="" mdc_dim_min,="" of:="" one="" set="" shall="" to=""></units>
	f.	Mandatory attribute System-Type-Spec_List
		□ attribute-id = MDC_ATTR_SYS_TYPE_SPEC_LIST
		□ attribute-type = TypeVerList
		□ attribute-value.length = 4 bytes attribute-value = MDC_DEV_SPEC_PROFILE_AI_MED_MINDER, 1
		☐ Attribute System-Type must not be present.
Pass/Fail criteria	All chec	sked values are as specified in the test procedure.
Notes		

TP ld		TP/PLT/AG/CLASS/AM/BV-001			
TP label		MDS Configuration objects events for Adherence Monitor			
Coverage	verage Spec [ISO/IEEE 11073-10472]				
	Testable items	MedDispensed1; M	StatusRep1; O	UserFeedback1; O	
	items	MM_StandConfig1; C	MM_StandConfig2;C	MM_StandConfig3;C	
		MM_StandConfig4;C	MM_MDSEvent1; M	MM_GenNumObj1;M	
		MM_GenNumObj2: O	FixedDosage1; M	VarDosage1; M	
		StatReporter1; O	MM_EventRepServ1; M	MM_ConfProc1; M	

Test purpose	Check that:		
	A Medication Monitor shall send the [MDS-Configuration-Event] using a [Confirmed] event report. The [MDS-Configuration-Event] shall include the event-info [ConfigReport].		
	[AND]		
	Check objects supported by the Agent (standard /extended configuration)		
Applicability	C_AG_OXP_168 AND C_AG_OXP_000		
Other PICS	C_AG_OXP_010, C_AG_OXP_181, C_AG_AM_001, C_AG_AM_002, C_AG_AM_003, C_AG_AM_004, C_AG_AM_005, C_AG_AM_006, C_AG_AM_007, C_AG_AM_008		
Initial condition	The simulated manager and the agent under test are in the unassociated state.		
Test procedure	The simulated manager receives an association request from the agent under test.		
	The simulated manager responds with a result = accepted-unknown-config.		
	The agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager:		
	a. APDU Type		
	☐ field- type = PrstApdu		
	☐ field-length =2 bytes		
	☐ field-value =0xE7 0x00		
	b. invoke-id		
	☐ field- type = InvokeIDType		
	☐ field-length =INT-U16		
	☐ field- value= <not for="" relevant="" test="" this=""></not>		
	c. message		
	☐ field- type = roiv-cmip-confirmed-event-report		
	☐ field-length =two bytes		
	☐ field- value=0x01 0x01 (EventReportArgumentSimple)		
	d. obj-handle (EventReportArgumentSimple)		
	☐ field- type = HANDLE		
	☐ field-length =INT-U16		
	e. event-time (EventReportArgumentSimple)		
	☐ field- type = Relative Time		
	☐ field-length =INT-U32		
	☐ field-value =		
	 IF NOT C_AG_OXP_010 THEN value = 0xFF 0xFF 0xFF 0xFF 		
	f. event-type (EventReportArgumentSimple)		
	☐ field- type = OID-Type		
	☐ field-length =INT-U16		
	☐ field- value=0x 0D 0x 1C (MDC_NOTI_CONFIG)		
	g. config-report-id (ConfigReport)		
	☐ field- type = Configld		
	☐ field-length = INT-U16		
	☐ field- value =		
	 IF C_AG_AM_001 then attribute-value = 0x1C 0x20 		
	 ELSE IF C_AG_AM_002 then attribute-value = 0x1C 0x21 		

	• ELSE IF C_AG_AM_003 then attribute-value = 0x1C 0x22
	 ELSE IF C_AG_AM_004 then attribute-value = 0x1C 0x23
	 ELSE IF C_AG_OXP_181=TRUE then attribute-value = < between 0x4000 and 0x7FFF >
	 h. obj-class (ConfigReport → ConfigObjectList (ConfigObject)). To check the objects that are supported by the agent, Type Attribute will be checked in AttributeList.
	☐ field- type = OID-Type
	☐ field-length = INT-U16
	☐ field- value =
	 IF C_AG_AM_001 then 1 Fixed Dosage Medication object is present.
	 ELSE IF C_AG_AM_002 then 1 Fixed Dosage Medication, 1 Status Reporter and 1 User Feedback object are present.
	 ELSE IF C_AG_AM_003 then 1 Variable Dosage Medication object is present.
	 ELSE IF C_AG_AM_004 then 1 Variable Dosage Medication, 1 Status Reporter and 1 User Feedback object are present.
	• ELSE:
	 IF C_AG_AM_005 then 1 Fixed Dosage Medication is present, ELSE this object is not present.
	 IF C_AG_AM_006 then 1 Variable Dosage Medication is present, ELSE this object is not present.
	 Exactly one of the fixed dosage medication dispensed numeric object or the variable dosage medication dispensed numeric object shall be supported.
	 IF C_AG_AM_007 then User Feedback is present, ELSE this object is not present.
	 IF C_AG_AM_008 then Status Reporter is present, ELSE this object is not present.
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/AG/CLASS/AM/BV-002			
TP label		MDS objects events Adherence Monitor & PM-Store Object			
Coverage	Spec	[ISO/IEEE 11073-10472]	[ISO/IEEE 11073-10472]		
	Testable	MM_MDSEvent2; M	MM_MDSEvent3; M	MM_MDSEvent4; M	
	items	MM_MDSEvent5; M	MM_MDSEvent6; M	MM_MDSEvent7; M	
		MM_MDSEvent8; M	MM_MDSEvent9; M	MM_MDSEvent10; M	
		MM_EventRepServ1; M	MM_OperProc11; M	MM_OperProc12; M	
		MM_PMStoreGen1; M	MM_PMStoreGen2; M	MM_EventRepServ2; M	
		MM_OperProc5; M	MM_OperProc6; M		

Test purpose	Check that:
	The Agent sends the MDS-Dynamic-Data-Update-Fixed using a confirmed event report and it includes the event-info ScanReportInfoFixed
	[AND/OR]
	The Agent sends the MDS-Dynamic-Data-Update-Var using a confirmed event report and it includes the event-info ScanReportInfoVar
	[AND/OR]
	The Agent sends the MDS-Dynamic-Data-Update-MP-Fixed using a confirmed event report and it includes the event-info ScanReportInfoMPFixed
	[AND/OR]
	The Agent sends the MDS-Dynamic-Data-Update-MP-Var using a confirmed event report and it includes the event-info ScanReportInfoMPVar
	[AND]
	A medication monitor agent with standard configuration shall use the fixed format data update messages method for transmitting measurement data
	[AND]
	A medication monitor agent with extended configuration may use either fixed or variable format data update messages for transmitting measurement data.
	[AND]
	Any configuration that does not include a PM-store object utilizes agent-initiated event reports to transmit all retained observations
	[AND]
	Any configuration with a PM-store for longer-term storage shall disable agent-initiated transmission and shall enable access to the PM-store transmissions
Applicability	C_AG_OXP_168 AND C_AG_OXP_000
Other PICS	C_AG_OXP_041, C_AG_OXP_181, C_AG_AM_001, C_AG_AM_002, C_AG_AM_003, C_AG_AM_004
Initial condition	The simulated manager and the agent under test are in the unassociated state.
Test procedure	The simulated manager receives an association request from the agent under test.
	2. The simulated manager responds with a result = accepted-unknown-config.
	3. The agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager.
	4. Check that the field Dev-Config-Id is set to the tested configuration. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to the tested configuration is received.
	5. Record the agent configuration.
	6. Take Measurements for every supported object in the agent under test.
	7. Wait to receive every event report and check:
	 IF the agent does not support PM-Store, THEN MDS-Event Report is sent by the agent to report the measurements.
	 IF the agent supports PM-Store, THEN the agent shall not send MDS event reports.
	For MDS Event Reports:
	☐ field- type = Event Report
	☐ field-length = 2 bytes
	field- value=0x01 0x01 (EventReportArgumentSimple, confirmed) This field identifies the type of message sent by the agent, for the confirmed event configuration, roiv-cmip-confirmed-event-report.

Pass/Fail criteria	Check that every received MDS Event report is a one of the following Data APDU and that it is confirmed.
	 For a Standard Configuration (C_AG_AM_001 or C_AG_AM_002 or C_AG_AM_003 or C_AG_AM_004): the MDS Event Report is sent by the agent to report measurements for every object.
	☐ MDC_NOTI_SCAN_REPORT_FIXED
	☐ MDC_NOTI_SCAN_REPORT_MP_FIXED
	 For an Extended Configuration that does not support the PM-Store object, an MDS Event Report is sent by the agent to report measurements for every object:
	☐ MDC_NOTI_SCAN_REPORT_FIXED
	☐ MDC_NOTI_SCAN_REPORT_MP_FIXED
	☐ MDC_NOTI_SCAN_REPORT_VAR
	☐ MDC_NOTI_SCAN_REPORT_MP_VAR
	• For an Extended Configuration that supports the PM-Store object, an MDS Event Report is not sent by the agent to report measurements for objects.
Notes	

TP ld		TP/PLT/AG/CLASS/AM/BV-003			
TP label		Fixed Dosage Medication Dispensed Object for Standard Configuration (0x1C20 or 0x1C21)			
Coverage	Spec	[ISO/IEEE 11073-10472]			
	Testable	FixedDosage2; M	FixedDosage3; M	FixedDosage4; R	
	items	FixedDosage5; M	FixedDosage6; R	FixedDosage7; O	
		FixedDosage8; R	FixedDosage9; R	FixedDosage10; R	
		FixedDosage11; R	FixedDosage12; M	FixedDosage13; R	
		FixedDosage14; O	FixedDosage15; O	FixedDosage16; C	
		FixedDosage17; R	FixedDosage18; C	FixedDosage19; R	
		FixedDosage20; C	FixedDosage21; C	FixedDosage22; C	
		FixedDosage23; C	FixedDosage24; C	FixedDosage25; C	
		FixedDosage26; R	FixedDosage39; M	MM_ConfProc2; M	
Test purpose		Check that: Fixed Dosage Medication Dispensed Numeric Object contains the attributes specified for Standard Configuration (0x1C20 or 0x1C21)			
Applicability		C_AG_OXP_168 AND (C_AG_AM_001 OR C_AG_AM_002) AND C_AG_OXP_000			
Other PICS					
Initial condition		The simulated manager and the agent under test are in the unassociated state.			
Test procedure		The simulated manager receives an association request from the agent under test.			
		2. The simulated mana	ger responds with a result = acc	cepted-unknown-config.	
			with a "Remote Operation Involoc_NOTI_CONFIG event to sen	ke Confirmed Event Report" and its configuration to the manager.	

Notes	
Pass/Fail criteria	All checked values are as specified in the test procedure.
	7. Check that no other attributes are present in the initial configuration.
	□ attribute-value = (MDC_ATTR_TIME_STAMP_ABS, 8 MDC_ATTR_NU_VAL_OBS_BASIC,2)
	☐ attribute-count = 2
	☐ attribute-type = AttrValMap
	☐ attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
	d. Mandatory attribute Attribute-Value-Map
	Bit 9 (mss-acc-agent-initiated(9)) is set.
	Bit 3 (mss-msmt-aperiodic(3)) is set.
	Bit 2 (mss-upd-aperiodic(2)) must be set.
	Bit 1 (mss-avail-stored-data(1)) must be set.
	Bit 0 (mss-avail-intermittent(0)) must be set.
	□ attribute-value ≠ 0x00 0x00
	☐ attribute-value.length = 2 bytes
	□ attribute-type = MetricSpecSmall
	☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL
	c. Mandatory attribute Metric-Spec-Small
	☐ attribute-value = MDC_PART_PHD_AI, MDC_AI_MED_DISPENSED_FIXED
	☐ attribute-type = TYPE
	☐ attribute-id = MDC_ATTR_ID_TYPE
	b. Mandatory attribute Type
	□ attribute-value = 0x00 0x01
	□ attribute-type = HANDLE
	□ attribute-id = MDC_ATTR_ID_HANDLE
	a. Mandatory attribute Handle
	Medication object. 6. The Fixed Dosage Medication object contents shall be:
	5. Once the agent under test sends a standard configuration, check the Fixed Dosage
	4. Check that the field Dev-Config-Id is set to 0x1C20 OR 0x1C21. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to 0x1C20 or 0x1C21 is received.

TP Id TP/PLT/AG/CLASS/AM/BV-004				
TP label		Fixed Dosage Medication Dispensed Object for Extended Configuration		
Coverage	Spec	[ISO/IEEE 11073-10472]		
	Testable items	FixedDosage27; M	FixedDosage28; R	FixedDosage29; R
	illoinio	FixedDosage30; O	FixedDosage31; R	FixedDosage32; R
		FixedDosage33; R	FixedDosage34; R	FixedDosage35; R
		FixedDosage36; R	FixedDosage37; R	FixedDosage38; R

Test purpose	Check that: Fixed Dosage Medication Dispensed Numeric Object contains the attributes specified for Extended Configuration		
Applicability	C_AG_OXP_168 AND C_AG_OXP_181 AND C_AG_AM_005 AND C_AG_OXP_000		
Other PICS			
Initial condition	The simulated manager and the agent under test are in the unassociated state.		
Test procedure	The simulated manager receives an association request from the agent under test.		
	2. The simulated manager responds with a result = accepted-unknown-config.		
	3. The agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager		
	4. Check that the field Dev-Config-Id is set to the tested extended configuration. If it is no the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to the extended configuration is received.		
	 Once the agent under test sends the tested configuration, check the Fixed Dosage Medication object. 		
	The Fixed Dosage Medication object contents shall be:		
	a. Mandatory attribute Type		
	attribute-id = MDC_ATTR_ID_TYPE		
	□ attribute-type = TYPE		
	attribute-value = = MDC_PART_PHD_AI, MDC_AI_MED_DISPENSED_FIXED		
	b. IF Not Recommended attribute Supplemental-Types		
	☐ attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES		
	□ attribute-type = SupplementalTypeList		
	☐ attribute-value.length = <variable>Sequence of TYPE (TYPE.length= 4 bytes</variable>		
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>		
	c. IF Not recommended attribute Metric-Structure-Small is present		
	☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL		
	☐ attribute-type = MetricStructureSmall		
	☐ attribute-length = 2 bytes		
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>		
	d. IF Optional attribute Measurement-Status is present		
	☐ attribute-id = MDC_ATTR_MSMT_STAT		
	□ attribute-type = MeasurementStatus		
	☐ attribute-value.length = 2 bytes		
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>		
	e. IF Not recommended attribute Metric-Id is present		
	□ attribute-id = MDC_ATTR_ID_PHYSIO		
	□ attribute-type = OID-Type(INT-U16)		
	□ attribute-value.length =2 bytes		
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>		
	f. IF Not Recommended attribute Metric-Id-List is present		
	☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS		
	□ attribute-type = MetricIdList		
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>		

attribute-type = OID-Type(INT-U16) attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not Recommended attribute Accuracy is present attribute-value = <not for="" relevant="" test="" this=""> IF Not Recommended attribute Accuracy is present attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-value.length = 4 bytes attribute-value.attribute-value.length = 5 bytes attribute-value.attribute-value.etclevant for this test> attribute-value.attribute-value.etclevant for this test></not></not></not></not></not></not>
attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not Recommended attribute Accuracy is present attribute-id = MDC_ATTR_NU_ACCUR_MSMT attribute-type = FLOAT-Type (INT-U32) attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes</not></not></not></not>
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attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not Recommended attribute Accuracy is present attribute-id = MDC_ATTR_NU_ACCUR_MSMT</not></not></not></not></not>
attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not Recommended attribute Accuracy is present</not></not></not></not>
attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-value = <not for="" relevant="" test="" this=""> IF Not recommended attribute Measure-Active-Period attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""></not></not></not></not></not>
 attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Measure-Active-Period attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE attribute-type = FLOAT-Type (INT-U32) attribute-value.length = 4 bytes
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 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-type = HANDLE(INT-U16) □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Relative-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_REL □ attribute-type = RelativeTime (INT-U32) □ attribute-value.length = 4 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Measure-Active-Period □ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
 attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32) attribute-value.length = 4 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Measure-Active-Period
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 attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present attribute-id = MDC_ATTR_SOURCE_HANDLE_REF attribute-type = HANDLE(INT-U16) attribute-value.length = 2 bytes attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Relative-Time-Stamp attribute-id = MDC_ATTR_TIME_STAMP_REL attribute-type = RelativeTime (INT-U32)
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-type = HANDLE(INT-U16) □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Relative-Time-Stamp □ attribute-id = MDC_ATTR_TIME_STAMP_REL
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-type = HANDLE(INT-U16) □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Relative-Time-Stamp
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-type = HANDLE(INT-U16) □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not>
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-type = HANDLE(INT-U16) □ attribute-value.length = 2 bytes
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF □ attribute-type = HANDLE(INT-U16)
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present □ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Source-Handle-Reference is present
 □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not>
□ attribute-value.length = 2 bytes
☐ attribute-id = MDC_ATTR_UNIT_CODE
IF Not recommended attribute Unit-Code
☐ attribute-value = <not for="" relevant="" test="" this=""></not>
□ attribute-value.length = 2 bytes
□ attribute-type = NomPartition(INT-U16)
□ attribute-id = MDC_ATTR_METRIC_ID_PART

TP ld		TP/PLT/AG/CLASS/AM/BV-005		
TP label		Variable Dosage Medication Dispensed Object for Standard Configuration (0x1C22 or 0x1C23)		Configuration (0x1C22 or
Coverage	Spec	[ISO/IEEE 11073-10472]		
	Testable	VarDosage2; M	VarDosage3; M	VarDosage4; R
	items	VarDosage5; M	VarDosage6; R	VarDosage7; O
		VarDosage8; R	VarDosage9; R	VarDosage10; R
		VarDosage11; M	VarDosage12; M	VarDosage13; R

	VarDosage14; O	VarDosage15; O	VarDosage16; C
	VarDosage17; R	VarDosage18; C	VarDosage19; R
	VarDosage20; C	VarDosage21; C	VarDosage22; C
	VarDosage23; C	VarDosage24; C	VarDosage25; C
	VarDosage26; R	VarDosage39; M	MM_ConfProc2; M
Test purpose	Check that:		
	Variable Dosage Medica Standard Configuration (t contains the attributes specified for
Applicability	C_AG_OXP_168 AND (C_AG_AM_003 OR C_AG_AM	_004) AND C_AG_OXP_000
Other PICS			
Initial condition	The simulated manager	and the agent under test are in	the unassociated state.
Test procedure	The simulated mana	ager receives an association rec	quest from the agent under test.
	2. The simulated mana	ager responds with a result = ac	ccepted-unknown-config.
		s with a "Remote Operation Invo DC_NOTI_CONFIG event to se	oke Confirmed Event Report" end its configuration to the manager.
	responds with an "u		OR 0x1C23. If it is not, the manager or a new configuration. Repeat this 23 is received.
	Once the agent und Medication object.	er test sends a standard config	uration, check the Variable Dosage
	6. The Variable Dosag	e Medication object contents sh	nall be:
	a. Mandatory attri	bute Handle	
	□ attribute-id	= MDC_ATTR_ID_HANDLE	
	☐ attribute-typ	pe = HANDLE	
	☐ attribute-va	lue = 0x00 0x02	
	b. Mandatory attri	bute Type	
	☐ attribute-id	= MDC_ATTR_ID_TYPE	
	☐ attribute-ty	pe = TYPE	
		ilue = MDC_PART_PHD_AI, MED_DISPENSED_VARIABLE	
	c. Mandatory attri	bute Metric-Spec-Small	
	□ attribute-id	= MDC_ATTR_METRIC_SPEC	C_SMALL
	☐ attribute-typ	pe = MetricSpecSmall	
	☐ attribute-va	llue.length = 2 bytes	
	☐ attribute-va	llue ≠ 0x00 0x00	
	• Bit 0 (n	nss-avail-intermittent(0)) must b	e set.
	• Bit 1 (n	nss-avail-stored-data(1)) must b	pe set.
	• Bit 2 (n	nss-upd-aperiodic(2)) must be s	set.
	• Bit 3 (n	nss-msmt-aperiodic(3)) is set.	
	• Bit 9 (m	nss-acc-agent-initiated(9)) is se	t.
	d. Mandatory attri	bute Unit-Code	
	☐ attribute	e-id = MDC_ATTR_UNIT_COD	E
	☐ attribute	e-type = OID-Type	

Notes	
Pass/Fail criteria	All checked values are as specified in the test procedure.
	7. Check that no other attributes are present in the initial configuration.
	□ attribute-value = (MDC_ATTR_TIME_STAMP_ABS ,8 MDC_ATTR_NU_VAL_OBS_SIMP,4)
	☐ attribute-count = 2
	☐ attribute-type = AttrValMap
	☐ attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
	e. Mandatory attribute Attribute-Value-Map
	□ attribute-value = MDC_DIM_MILLI_L
	☐ attribute-value.length = 2 bytes

TP ld		TP/PLT/AG/CLASS/AM/BV-006			
TP label		Variable Dosage Medication Dispensed Object for Extended Configuration			
Coverage	Spec	[ISO/IEEE 11073-10472]			
	Testable	VarDosage27; M	VarDosage28; R	VarDosage29; R	
	items	VarDosage30; O	VarDosage31; R	VarDosage32; R	
		VarDosage33; R	VarDosage34; M	VarDosage35; R	
		VarDosage36; R	VarDosage37; R	VarDosage38; R	
Test purpos	se .	Check that:			
		Variable Dosage M Extended Configura		ct contains the attributes specified for	
Applicability	у	C_AG_OXP_168 A	ND C_AG_OXP_181 AND C_AG_A	AM_006 AND C_AG_OXP_000	
Other PICS					
Initial condi	tion	The simulated man	ager and the agent under test are in	n the unassociated state.	
Test proced	lure	The simulated manager receives an association request from the agent under test.			
		2. The simulated	manager responds with a result = a	ccepted-unknown-config.	
			oonds with a "Remote Operation Invaled an MDC_NOTI_CONFIG event to s	roke Confirmed Event Report" end its configuration to the manager.	
		4. Check that the field Dev-Config-Id is set to the tested extended configuration. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to the extended configuration is received.			
		5. Once the ager Medication obj	at under test sends the tested config ect.	uration, check the Variable Dosage	
		6. The Variable D	Oosage Medication object contents s	shall be:	
		a. Mandatory	attribute Type		
		☐ attrib	ute-id = MDC_ATTR_ID_TYPE		
		☐ attrib	ute-type = TYPE		
		attribute-v	alue = MDC_PART_PHD_AI, MDC	_AI_MED_DISPENSED_VARIABLE	
		b. IF Not Re	commended attribute Supplemental	-Types	
		☐ attrib	ute-id = MDC_ATTR_SPPLEMENT	AL_TYPES	

	□ attribute-type = SupplementalTypeList
	□ attribute-value.length = <variable>Sequence of TYPE (TYPE.length= 4 bytes)</variable>
	□ attribute-value = <not for="" relevant="" test="" this=""></not>
C.	IF Not recommended attribute Metric-Structure-Small is present
	□ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL
	□ attribute-type = MetricStructureSmall
	□ attribute-length = 2 bytes
	□ attribute-value = <not for="" relevant="" test="" this=""></not>
d.	IF Optional attribute Measurement-Status is present
	□ attribute-id = MDC_ATTR_MSMT_STAT
	□ attribute-type = MeasurementStatus
	□ attribute-value.length = 2 bytes
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
e.	IF Not recommended attribute Metric-Id is present
	☐ attribute-id = MDC_ATTR_ID_PHYSIO
	□ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length =2 bytes
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
f.	IF Not Recommended attribute Metric-Id-List is present
	☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
	☐ attribute-type = MetricIdList
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
g.	IF Not recommended attribute Metric-Id-Partition is present
	☐ attribute-id = MDC_ATTR_METRIC_ID_PART
	□ attribute-type = NomPartition(INT-U16)
	☐ attribute-value.length = 2 bytes
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
h.	Mandatory recommended attribute Unit-Code
	☐ attribute-id = MDC_ATTR_UNIT_CODE
	□ attribute-type = OID-Type(INT-U16)
	☐ attribute-value.length = 2 bytes
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
i.	IF Not recommended attribute Source-Handle-Reference is present
	☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
	□ attribute-type = HANDLE(INT-U16)
	☐ attribute-value.length = 2 bytes
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
j.	IF Not recommended attribute Relative-Time-Stamp
	□ attribute-id = MDC_ATTR_TIME_STAMP_REL
	□ attribute-type = RelativeTime (INT-U32)
	□ attribute-value.length =4 bytes
	□ attribute-value = <not for="" relevant="" test="" this=""></not>
k.	IF Not recommended attribute Measure-Active-Period
	□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE

Pass/Fail criteria	☐ attribute-value = <not for="" relevant="" test="" this=""> All checked values are as specified in the test procedure.</not>
	attribute-value.length = 4 bytes
	□ attribute-type = FLOAT-Type (INT-U32)
	☐ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
	IF Not Recommended attribute Accuracy is present
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
	☐ attribute-value.length = 4 bytes
	☐ attribute-type = FLOAT-Type (INT-U32)

TP ld		TP/PLT/AG/CLASS/AM/BV-007						
TP label		User Feedback Object for Standard Configuration (0x1C21 or 0x1C23)						
Coverage	Spec	[ISO/IEEE 11073-10472]						
	Testable	UserFeedback2; M	UserFeedback3; M	UserFeedback4; R				
	items	UserFeedback5; M	UserFeedback6; R	UserFeedback7; O				
		UserFeedback8; R	UserFeedback9; M	UserFeedback10 ;R				
		UserFeedback11 ;R	UserFeedback12 ;M	UserFeedback13 ;R				
		UserFeedback14;O	UserFeedback15;O	UserFeedback16 ;C				
		UserFeedback17 ;R	UserFeedback18 ;C	UserFeedback19 ;R				
		UserFeedback20 ;C	UserFeedback21 ;C	UserFeedback22 ;C				
		UserFeedback23 ;C	UserFeedback24 ;C	UserFeedback25 ;C				
		UserFeedback26 ;R	UserFeedback38; M	MM_ConfProc2; M				
Test purpose		Check that: User Feedback Numeric Object contains the attributes specified for Standard Configuration (0x1C21 or 0x1C23)						
Applicabilit	у	C_AG_OXP_168 AND (C_AG_AM_002 OR C_AG_AM_004) AND C_AG_OXP_000						
Other PICS								
Initial condi	tion	The simulated manager and the agent under test are in the unassociated state.						
Test proced	lure	The simulated manager receives an association request from the agent under test.						
		2. The simulated manager responds with a result = accepted-unknown-config.						
		3. The agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager.						
		4. Check that the field Dev-Config-Id is set to 0x1C21 OR 0x1C23. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to 0x1C21 or 0x1C23 is received.						
		5. Once the agent under test sends a standard configuration, check the User Feedback object:						
		6. The User Feedback object contents shall be:						

	a. Mandatory attribute Handle
	attribute-id = MDC_ATTR_ID_HANDLE
	attribute-type = HANDLE
	☐ attribute-value = 0x00 0x04
	b. Mandatory attribute Type
	attribute-id = MDC_ATTR_ID_TYPE
	attribute-type = TYPE
	□ attribute-value = MDC_PART_PHD_AI, MDC_AI_MED_FEEDBACK
	c. Mandatory attribute Metric-Spec-Small
	☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL
	□ attribute-type = MetricSpecSmall
	☐ attribute-value.length = 2 bytes
	☐ attribute-value ≠ 0x00 0x00
	 Bit 0 (mss-avail-intermittent(0)) must be set.
	Bit 1 (mss-avail-stored-data(1)) must be set.
	Bit 2 (mss-upd-aperiodic(2)) must be set.
	Bit 3 (mss-msmt-aperiodic(3)) is set.
	 Bit 9 (mss-acc-agent-initiated(9)) is set.
	Bit 12 (mss-cat-manual(12)) is set.
	d. Mandatory attribute Metric-Id-List is present
	☐ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
	☐ attribute-type = MetricIdList
	attribute-value = MDC_AI_MED_UF_LOCATION, MDC_AI_MED_UF_RESPONSE
	e. Mandatory attribute Attribute-Value-Map
	☐ attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP
	☐ attribute-type = AttrValMap
	☐ attribute-count = 2
	□ attribute-value = (MDC_ATTR_TIME_STAMP_ABS, 8 MDC_ATTR_NU_CMPD_VAL_OBS_BASIC,8)
	7. Check that no other attributes are present in the initial configuration.
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/AG/CLASS/AM/BV-007_A			
TP label		User Feedback Object format for Standard Configuration			
Coverage	Spec	[ISO/IEEE 11073-10472]			
	Testable items	UserFeedback39; M	UserFeedback23; C		
Test purpose		Check that:			
		User Feedback measurement values are in the right order in event report.			

Applicability	C_AG_OXP_168 AND (C_AG_AM_002 OR C_AG_AM_004) AND C_AG_OXP_000		
Other PICS			
Initial condition	The simulated manager and the agent under test are in the unassociated state.		
Test procedure	The simulated manager receives an association request from the agent under test.		
	2. The simulated manager responds with a result = accepted-unknown-config.		
	3. The Agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager.		
	4. Check that the field Dev-Config-Id is set to 0x1C21 OR 0x1C23. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to 0x1C21 or 0x1C23 is received.		
	5. Once the agent under test sends the tested configuration, the simulated manager sends a "roiv-cmip-get" to get all the attributes of the MDS, record the value of Date-and-Time.		
	6. Once the agent under test is in the operating state, take a measurement and record the value of the measurement.		
	7. Wait until the agent under test sends an Event Report to the simulated manager, the relevant fields are:		
	a. event-type = MDC_NOTI_SCAN_REPORT_FIXED		
	b. ScanReportInfoFixed		
	□ obj-handle = 4		
	☐ Compound Object Count =2		
	□ obs-val-data.value =		
	Time Stamp (8 bytes)		
	Location (2 bytes)		
	Response (2 bytes)		
Pass/Fail criteria	The received data must be coherent with that previously recorded.		
	The Time Stamp must be coherent with that received in the MDS attribute.		
	• The data must be received in this exact same order and the Compound value contains two fields, the first one that represents the "relative location" and the second one that is the user response (numeric form).		
Notes			

TP ld		TP/PLT/AG/CLASS/AM/BV-008				
TP label		User Feedback Object for Extended Configuration				
Coverage	Spec	[ISO/IEEE 11073-10472]				
	Testable	UserFeedback27; M	UserFeedback28; R	UserFeedback29; R		
	items	UserFeedback30; O	UserFeedback31; R	UserFeedback32; R		
		UserFeedback33; R	UserFeedback34; R	UserFeedback35; R		
		UserFeedback36; R	UserFeedback37; R			
Test purpose		Check that:				
Applicability	,	User Feedback Numeric Object contains the attributes specified for Extended Configuration C AG OXP 168 AND C AG OXP 181 AND C AG AM 007 AND C AG OXP 000				

Other PICS			
Initial condition	The	sim	ulated manager and the agent under test are in the unassociated state.
Test procedure	1.	The	e simulated manager receives an association request from the agent under test.
root procedure	2.		e simulated manager responds with a result = accepted-unknown-config.
	3.		e agent responds with a "Remote Operation Invoke Confirmed Event Report"
			ssage with an MDC_NOTI_CONFIG event to send its configuration to the manager.
	4.	the	eck that the field Dev-Config-Id is set to the tested extended configuration. If it is not, manager responds with an "unsupported-config" and waits for a new configuration. Deat this step until a Dev-config-Id equal to the extended configuration is received.
	5.	One	ce the agent under test sends the tested configuration, check User Feedback object:
	6.	Use	er Feedback Object contents shall be:
		a.	Mandatory attribute Type
			☐ attribute-id = MDC_ATTR_ID_TYPE
			☐ attribute-type = TYPE
			☐ attribute-value = MDC_PART_PHD_AI, MDC_AI_MED_FEEDBACK
		b.	IF Not Recommended attribute Supplemental-Types
			☐ attribute-id = MDC_ATTR_SPPLEMENTAL_TYPES
			☐ attribute-type = SupplementalTypeList
			☐ attribute-value.length = <variable>Sequence of TYPE (TYPE.length= 4 bytes)</variable>
			☐ attribute-value = <not for="" relevant="" test="" this=""></not>
		c.	IF Not recommended attribute Metric-Structure-Small is present
			☐ attribute-id = MDC_ATTR_METRIC_STRUCTURE_SMALL
			☐ attribute-type = MetricStructureSmall
			☐ attribute-length = 2 bytes
			☐ attribute-value = <not for="" relevant="" test="" this=""></not>
		d.	IF Optional attribute Measurement-Status is present
			☐ attribute-id = MDC_ATTR_MSMT_STAT
			☐ attribute-type = MeasurementStatus
			☐ attribute-value.length = 2 bytes
			☐ attribute-value = <not for="" relevant="" test="" this=""></not>
		e.	IF Not recommended attribute Metric-Id is present
			☐ attribute-id = MDC_ATTR_ID_PHYSIO
			□ attribute-type = OID-Type(INT-U16)
			□ attribute-value.length =2 bytes
			☐ attribute-value = <not for="" relevant="" test="" this=""></not>
		f.	IF Not recommended attribute Metric-Id-Partition is present
			□ attribute-id = MDC_ATTR_METRIC_ID_PART
			□ attribute-type = NomPartition(INT-U16)
			□ attribute-value.length = 2 bytes
			☐ attribute-value = <not for="" relevant="" test="" this=""></not>
		g.	IF Not recommended attribute Unit-Code
			□ attribute-id = MDC_ATTR_UNIT_CODE
			□ attribute-type = OID-Type(INT-U16)
			☐ attribute-value.length = 2 bytes

		☐ attribute-value = <not for="" relevant="" test="" this=""></not>
	h.	IF Not recommended attribute Source-Handle-Reference is present
		☐ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
		□ attribute-type = HANDLE(INT-U16)
		☐ attribute-value.length = 2 bytes
		☐ attribute-value = <not for="" relevant="" test="" this=""></not>
	i.	IF Not recommended attribute Relative-Time-Stamp
		☐ attribute-id = MDC_ATTR_TIME_STAMP_REL
		□ attribute-type = RelativeTime (INT-U32)
		☐ attribute-value.length =4 bytes
		☐ attribute-value = <not for="" relevant="" test="" this=""></not>
	j.	IF Not recommended attribute Measure-Active-Period
		□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
		□ attribute-type = FLOAT-Type (INT-U32)
		☐ attribute-value.length = 4 bytes
		☐ attribute-value = <not for="" relevant="" test="" this=""></not>
	k.	IF Not Recommended attribute Accuracy is present
		☐ attribute-id = MDC_ATTR_NU_ACCUR_MSMT
		□ attribute-type = FLOAT-Type (INT-U32)
		☐ attribute-value.length = 4 bytes
		☐ attribute-value = <not for="" relevant="" test="" this=""></not>
Pass/Fail criteria	All chec	ked values are as specified in the test procedure.
Notes		

TP Id		TP/PLT/AG/CLASS/AM/BV-009 Status Reporter Object for Standard Configuration (0x1C21 or 0x1C23)					
							Coverage
	Testable	StatReporter2; M	StatReporter3; M	StatReporter4; R			
	items	StatReporter5; M	StatReporter6; R	StatReporter7; O			
		StatReporter8; R	StatReporter9; R	StatReporter10; R			
		StatReporter11; R	StatReporter12; M	StatReporter13; R			
		StatReporter14; O	StatReporter15; O	StatReporter16; C			
		StatReporter17; R	StatReporter18; C	StatReporter19; R			
		StatReporter20; R	StatReporter21; C	StatReporter22; C			
		StatReporter23; C	StatReporter24; C	StatReporter25; C			
		StatReporter26; R	StatReporter27; O	StatReporter44; M			
		MM_ConfProc2; M					

Test purpose	Check that:				
	Status Reporter Enumeration Object contains the attributes specified for Standard Configuration (0x1C21 or 0x1C23)				
Applicability	C_AG_OXP_168 AND (C_AG_AM_002 OR C_AG_AM_004) AND C_AG_OXP_000				
Other PICS					
Initial condition	The simulated manager and the agent under test are in the unassociated state.				
Test procedure	The simulated manager receives an association request from the agent under tes				
	2. The simulated manager responds with a result = accepted-unknown-config.				
	3. The agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager.				
	4. Check that the field Dev-Config-Id is set to 0x1C21 OR 0x1C23. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to 0x1C21 or 0x1C23 is received.				
	 Once the agent under test sends a standard configuration, check the Status Reporter object 				
	6. The Status Reporter object contents shall be:				
	a. Mandatory attribute Handle				
	☐ attribute-id = MDC_ATTR_ID_HANDLE				
	□ attribute-type = HANDLE				
	☐ attribute-value = 0x00 0x03				
	b. Mandatory attribute Type				
	☐ attribute-id = MDC_ATTR_ID_TYPE				
	☐ attribute-type = TYPE				
	☐ attribute-value = MDC_PART_PHD_AI, MDC_AI_MED_STATUS				
	c. Mandatory attribute Metric-Spec-Small				
	☐ attribute-id = MDC_ATTR_METRIC_SPEC_SMALL				
	□ attribute-type = MetricSpecSmall (BITS-16)				
	☐ attribute-value ≠ 0x00 0x00				
	Bit 0 (mss-avail-intermittent(0)) must be set.				
	Bit 1 (mss-avail-stored-data(1)) must be set.				
	Bit 2 (mss-upd-aperiodic(2)) must be set.				
	Bit 3 (mss-msmt-aperiodic(3)) is set.				
	Bit 9 (mss-acc-agent-initiated(9)) is set.				
	d. Mandatory attribute Attribute-Value-Map				
	□ attribute-id = MDC_ATTR_ATTRIBUTE_VAL_MAP				
	□ attribute-type = AttrValMap				
	□ attribute-count = 2				
	□ attribute-value = (MDC_ATTR_TIME_STAMP_ABS ,8 MDC_ATTR_ENUM_OBS_VAL_BASIC_BIT_STR,2)				
	7. Check that no other attributes are present in the initial configuration.				
Deca/Esti anti-st					
Pass/Fail criteria	All checked values are as specified in the test procedure.				

TP ld		TP/PLT/AG/CLASS/AM/BV-010						
TP label		Status Reporter Object for Extended Configuration						
Coverage	Spec	[IS	O/IEI	EE 11073-10472]				
	Testable	Sta	atRep	oorter28; M	StatReporter29; R	StatReporter30; R		
	items	StatReporter31; O		porter31; O	StatReporter32; R	StatReporter33; R		
		Sta	atRep	oorter34; R	StatReporter35; R	StatReporter36; R		
		Sta	StatReporter37; R		StatReporter38; R	StatReporter39; R		
		Sta	StatReporter40; R		StatReporter41; O	StatReporter42; O		
		Sta	atRep	oorter43; M				
Test purpos	e	Ch	eck t	hat:				
				Reporter Enumeration (ration	Object contains the attributes s	pecified for Extended		
Applicability	,	C_	AG_	OXP_168 AND C_AG_	OXP_181 AND C_AG_AM_00	8 AND C_AG_OXP_000		
Other PICS								
Initial condit	ion	The	The simulated manager and the agent under test are in the unassociated state.					
Test proced	ure	1.	·					
		2.						
		3.	 The agent responds with a "Remote Operation Invoke Confirmed Event Report" message with an MDC_NOTI_CONFIG event to send its configuration to the manager. Check that the field Dev-Config-Id is set to extended configuration. If it is not, the manager responds with an "unsupported-config" and waits for a new configuration. Repeat this step until a Dev-config-Id equal to tested extended configuration is received. 					
		4.						
				5. Once the agent under test sends the tested configuration, check the Status object.				
		6.	The	e Status Reporter objec	ct contents shall be:			
			a.	Mandatory attribute T	ype			
				☐ attribute-id = MD	C_ATTR_ID_TYPE			
				☐ attribute-type = T	YPE			
				☐ attribute-value =	MDC_PART_PHD_AI, MDC_A	I_MED_STATUS		
			b.	IF Not Recommended	d attribute Supplemental-Types	;		
				□ attribute-id = MD	C_ATTR_SPPLEMENTAL_TY	PES		
				☐ attribute-type = S	SupplementalTypeList			
				□ attribute-value.le	ngth = <variable>Sequence of</variable>	TYPE (TYPE.length= 4 bytes)		
				☐ attribute-value =	<not for="" relevant="" test="" this=""></not>			
			C.	IF Not recommended	attribute Metric-Structure-Sma	II is present		
				□ attribute-id = MD	C_ATTR_METRIC_STRUCTU	RE_SMALL		
				□ attribute-type = N	MetricStructureSmall			
				□ attribute-length =	2 bytes			
				☐ attribute-value =	<not for="" relevant="" test="" this=""></not>			
			d.	IF Optional attribute N	Measurement-Status is present			
				☐ attribute-id = MD	C_ATTR_MSMT_STAT			

 □ attribute-type = MeasurementStatus □ attribute-value.length = 2 bytes □ attribute-value = <not for="" relevant="" test="" this=""></not> IF Not recommended attribute Metric-Id is present □ attribute-id = MDC_ATTR_ID_PHYSIO □ attribute-type = OID-Type(INT-U16) □ attribute-value.length = 2 bytes
 □ attribute-value = <not for="" relevant="" test="" this=""></not> e. IF Not recommended attribute Metric-Id is present □ attribute-id = MDC_ATTR_ID_PHYSIO □ attribute-type = OID-Type(INT-U16)
 IF Not recommended attribute Metric-Id is present attribute-id = MDC_ATTR_ID_PHYSIO attribute-type = OID-Type(INT-U16)
□ attribute-id = MDC_ATTR_ID_PHYSIO□ attribute-type = OID-Type(INT-U16)
□ attribute-type = OID-Type(INT-U16)
□ attribute-type = OID-Type(INT-U16)
□ attribute-value = <not for="" relevant="" test="" this=""></not>
f. IF Not Recommended attribute Metric-Id-List is present
□ attribute-id = MDC_ATTR_ID_PHYSIO_LIS
□ attribute-type = MetricIdList
□ attribute-value = <not for="" relevant="" test="" this=""></not>
g. IF Not recommended attribute Metric-Id-Partition is present
□ attribute-id = MDC_ATTR_METRIC_ID_PART
attribute-type = NomPartition(INT-U16)
attribute-value.length = 2 bytes
□ attribute-value = <not for="" relevant="" test="" this=""></not>
n. IF Not recommended attribute Unit-Code is present
□ attribute-id = MDC_ATTR_UNIT_CODE
attribute-type = OID-Type(INT-U16)
attribute-value.length = 2 bytes
□ attribute-value = <not for="" relevant="" test="" this=""></not>
. IF Not recommended attribute Source-Handle-Reference is present
□ attribute-id = MDC_ATTR_SOURCE_HANDLE_REF
attribute-type = HANDLE(INT-U16)
□ attribute-value.length = 2 bytes
☐ attribute-value = <not for="" relevant="" test="" this=""></not>
. IF Not recommended attribute Relative-Time-Stamp is present
□ attribute-id = MDC_ATTR_TIME_STAMP_REL
□ attribute-type = RelativeTime (INT-U32)
□ attribute-value.length =4 bytes
□ attribute-value = <not for="" relevant="" test="" this=""></not>
k. IF Not recommended attribute Measure-Active-Period is present
□ attribute-id = MDC_ATTR_TIME_PD_MSMT_ACTIVE
□ attribute-type = FLOAT-Type (INT-U32)
□ attribute-value.length = 4 bytes
□ attribute-value = <not for="" relevant="" test="" this=""></not>
. IF Not recommended attribute Enum-Observed-Value-Simple-OID is presen
□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_SIM_OID
□ attribute-type = OID-Type (INT-U16)
□ attribute-value.length = 2 bytes
□ attribute-value = <not for="" relevant="" test="" this=""></not>
m. IF Not recommended attribute Enum-Observed-Value-Partition is present
□ attribute-id= MDC_ATTR_ENUM_OBS_VAL_PART

	☐ attribute-type = NomPartition (INT-U16)
	☐ attribute-value-length=2 bytes
	☐ attribute-value = <not for="" relevant="" test="" this=""></not>
	n. IF Optional attribute Context-Key is present
	☐ attribute-id = MDC_ATTR_CONTEXT_KEY
	□ attribute-type = OCTET STRING(Size(8))
	☐ attribute-value.length =10 bytes
	□ attribute-value = Check against PIXIT(I_AG_OXP_009)
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/AG/CLASS/AM/BV-011						
TP label		Adl	Adherence Monitor PM-Store object					
Coverage Spec		[IS	O/IEI	EE 11073-10472]				
	Testable items			// // // // // // // // // // // // //	MM_PMStoreAttr2; M	MM_PMStoreAttr3; M		
Test purpose		Ch	eck t	· · · · · · · · · · · · · · · · · · ·	specified attributes.			
Applicability	/	C	AG_	OXP_168 AND C_AG	_OXP_041 AND C_AG_OXF	P_000		
Other PICS								
Initial condi	tion	The	The simulated manager and the agent under test are in the operating state.					
Test procedure		The simulated manager issues a "Remote Operation Invoke Get" command with the handle set to the PM-Store and the attribute-id-list set to 0 to indicate all attributes.						
		2. The agent response must contain:						
			 a. Mandatory Storage-Capacity-Count is present attribute-id = MDC_ATTR_METRIC_STORE_CAPAC_CNT 					
				□ attribute-type =				
				☐ attribute-value.le	-			
					<not in="" relevant="" test="" this=""></not>			
			b.	-	Usage-Count is present			
					DC_ATTR_METRIC_STORE	_USAGE_CNT		
				□ attribute-type =				
				attribute-value.le	-			
					<not in="" relevant="" test="" this=""></not>			
			c.	Mandatory attribute		AEL OTRINO		
					DC_ATTR_PM_STORE_LAB	BEL_STRING		
				,,	OCTET STRING			
					ength <= 255 octets			
		☐ attribute-value = <not for="" relevant="" test="" this=""></not>						

	d. IF Not recommended attribute Sample-Period is present
	☐ attribute-id = MDC_ATTR_TIME_PD_SAMP
	☐ attribute-type = RelativeTime
	☐ attribute-value.length = 4 bytes
	☐ attribute-value = <not in="" relevant="" test="" this=""></not>
Pass/Fail criteria	All checked values are as specified in the test procedure.
Notes	

TP ld		TP/PLT/AG/CLASS/AM/BV-012						
TP label		Adl	Adherence Monitor Segment-Data-Event size					
Coverage	Spec	[IS	[ISO/IEEE 11073-10472]					
	Testable items	MM	/_PMS	StoreEvent3; M	MM_PMStoreEvent4; M			
Test purpos	e	Ch	eck th	at:				
		Se	gment	-Data-Event report s	size shall be no larger than 1024	octets.		
		[AN	ND]					
					ta in excess of this size shall tran as described in IEEE Std 11073-			
Applicability	/	C_	AG_O	XP_168 AND C_AG	G_OXP_041 AND C_AG_OXP_00	00		
Other PICS								
Initial condi	tion	The	The simulated manager and the agent under test are in the operating state.					
Test procedure		1.	The simulated manager issues a Get-Segment-Info with SegmSelection set to all-segments.					
		2.		simulated manager ments that contains	sends a request for the PM-Segn data:	nent Data to one of the PM-		
			a.	Data APDU				
				☐ Type = Invoke	Confirmed Action,			
				☐ HANDLE = obj-	handle			
				☐ Action = MDC_	ACT_SEG_TRIG_XFER			
				□ TrigSegmData contains the da	<pre>KferReq = <instance number="" of="" ta="" th=""></instance></pre>	ne selected PM-Segment that		
		3.	The	agent issues an acti	on response:			
			a.	Data APDU				
				☐ Type = Invoke	Confirmed Action,			
				☐ HANDLE = obj-				
					_SEG_TRIG_XFER			
				☐ TrigSegmData> 0x00)	KferRsp = <same instance="" numb<="" td=""><td>er> tsxr-succesful (0x00</td></same>	er> tsxr-succesful (0x00		
		4.	The	agent under test sta	rts Data transfer:			
			a.	Data APDU				
				□ Invoke CfmEv	entReport			
			☐ Action = MDC_NOTI_SEGMENT_DATA					

	☐ SegmentDataEvent			
	5. The simulated manager response to transferred data APDU's:			
	a. Data APDU			
	☐ Type = Invoke Confirmed Action,,			
	☐ HANDLE = obj-handle			
	☐ Action = MDC_NOTI_SEGMENT_DATA			
	☐ SegmentDataResult			
	Agent under test repeats steps 3 and 4 until all the data is transferred			
Pass/Fail criteria	The size of the Segment-Data-Event (MDC_NOTI_SEGMENT_DATA) cannot exceed 1024 octets.			
Notes				

TP ld		TP/PLT/AG/CLASS/AM/BV-013						
		Adherence Monitor PM-Segment						
Coverage	Spec	[ISO/IEEI	E 11073-	10472]				
	Testable	MM_PSto	oreModel	1; M	MM_PStoreMod	el2; M	MM_PMSegmAttr1; M	
	items	MM_PMS	SegmAttr2	2; M	MM_PMSegmAt	tr3; M	MM_PMSegmAttr4; M	
Test purpos	e	Check that	at:					
					ition monitor obje e is implemented		be at least one corresponding	
		[AND]						
			Each entry shall include one of the time formats in the segm-entry-header so a manager can correlate entries across the different segments					
		[AND]						
		PM-Segment has the specified attributes						
Applicability	/	C_AG_OXP_168 AND C_AG_OXP_041 AND C_AG_OXP_000						
Other PICS								
Initial condi	tion	The simulated manager and the agent under test are in the operating state.						
Test procedure		The simulated manager shall send a Get-Segment-Info action for a PM-Store object with SegmSelection = all-segments to indicate the PM-Segments attributes of all available PM-Segments.						
		2. The agent issues a "rors-cmip-confirmed-action" response with the PM-Segment attributes it supports:						
		a.	Mandato	ory attribute	PM-Segment-Ent	ry-Map		
		☐ attribute-id = MDC_ATTR_PM_SEG_MAP						
				attribute-type	e = PmSegmentE	ntryMap		
				attribute-valu	ie = SEQUENCE	of		
			1	•	•		the time formats.	
			I	segm-ei	ntry-elem-list: Re	cord this value		
		b.		•	Segment-Label is	•		
		☐ attribute-id = MDC_ATTR_PM_SEG_LABEL_STRING						

		attribute-type = OCTET STRING
		attribute-value.length = consistent with value
		attribute-value = <not for="" relevant="" test="" this=""></not>
		attribute - value = < Not relevant for this test> attribute Segment-Start-Abs-Time is present
	c. Manua	
		attribute-id = MDC_ATTR_TIME_START_SEG
		attribute-type = AbsoluteTime
		attribute-value.length = 8 bytes
		attribute-value =
		century =
		• year ≤ 99
		■ month ≤ 12
		day ≤ 31
		• hour ≤ 24
		■ minute ≤ 60
		■ second ≤ 60
		sec-fractions ≤ 100
	d. Manda	atory attribute Segment-End-Abs-Time is present
		attribute-id = MDC_ATTR_TIME_END_SEG
		attribute-type = AbsoluteTime
		attribute-value.length = 8 bytes
		attribute-value =
		■ century =
		year ≤ 99
		 month ≤ 12
		day ≤ 31
		hour ≤ 24
		 minute ≤ 60
		■ second ≤ 60
		■ sec-fractions ≤ 100
	e. Manda	atory attribute Segment-Usage-Count is present
		attribute-id = MDC_ATTR_SEG_USAGE_CNT
		attribute-type = INT-U32
		attribute-value.length = 4 bytes
		attribute-value = <not for="" relevant="" test="" this=""></not>
	3. Repeat step	1 and 2 for every PM-Store object
Pass/Fail criteria	All checked attrib	outes are as specified in the test procedure.
		one segment for every implemented object.
Natao		
Notes		

TP ld		TP/PLT/AG/CLASS/AM/BV-014						
TP label		Association Adherence Monitor Agent						
Coverage	Spec	[ISO/IE	[ISO/IEEE 11073-10472]					
	Testable	MM_As	ssocReq1; M	MM_AssocReq2; M	MM_AssocReq3; M			
	items	MM_As	ssocReq4 ; M	MM_AssocReq5; M	MM_AssocReq6 ; M			
		MM_As	ssocReq7 ; M	MM_AssocReq8; M	MM_AssocReq9; M			
		MM_As	ssocReq10 ; M	MM_AssocReq11; M	MM_AssocReq12; M			
		MM_MI	DSMethod4 ; M					
Test purpos	е	Check	that:					
			During the association procedure, Medication Monitor Agent sends the correct association request to the simulated Manager					
Applicability	,	C_AG_	OXP_168 AND C_	AG_OXP_000				
Other PICS		C_AG_	OXP_002, C_AG_0	OXP_017				
Initial condit	ion	The sin	nulated manager ar	nd the agent under test are in th	ne unassociated state.			
Initial condition Test procedure			APDU Type field- type = field-length = assoc-version field- type = field-length = field-length = field- value=0 data-proto-id field- type = field-length = field-length = field-value=0 field- type = field-length = field-length = field-length = field-length = field-value=0 encoding rules field-length = field-length = field-length = field-length = field-length = field-value=0	AarqApdu 22 bytes DxE2 0x00. AssociationVersion 2BITS-32 Dx80 0x00 0x00 0x00 DataProtold(INT-U16) 22 bytes Dx50 0x79 (20601) Protocol Version 4 bytes Dx80 0x00 0x00 0x00 EncodingRules	lated manager, the expected fields			

	f.	nomenclature version
		☐ field- type = NomenclatureVersion
		☐ field-length = 4 bytes
		☐ field- value=0x80 0x00 0x00 0x00
		☐ This value indicates version1 is supported (nom-version1(0) is set).
	g.	functional-units
		☐ field- type = FunctionalUnits
		☐ field-length = 4 bytes
		☐ field-value =
		Bit 0 must not be set , only bit 1 or 2 may be set to 1.
	h.	System type
		☐ field- type = SystemType
		☐ field-length = 4 bytes
		☐ field- value = 0x00 0x80 0x00 0x00 (sys-type-agent)
	i.	System-Id
		☐ field- type = OCTET STRING
		☐ field-length = 8 bytes
		☐ field- value = 0xXX 0xXX 0xXX 0xXX 0xXX 0xXX 0xXX 0x
		☐ This value will be the System Id attribute of the MDS object.
	j.	dev-config-id
		☐ field- type = ConfigId(INT-U16)
		☐ field-length = 2 bytes
		☐ field- value =
		 <0x1C20 or 0x1C21 or 0x1C22 or 0x1C23> for standard configuration
		 <between 0x00="" 0x40="" 0x7f="" 0xff="" and=""> for extended configuration.</between>
	k.	data-req-mode-flags (DataReqModeCapab)
		☐ field- type = DataReqModeFlags
		☐ field-length = 2 bytes
		☐ If the agent supports only Medication Monitor specialization →Only bit 15 is set (data-req-supp-init-agent(15))
	l.	data-req-init-agent-count (DataReqModeCapab)
		☐ field- type = INT-U8
		☐ field-length = 2 bytes
		☐ field.value = 0x01
	m.	data-req-init-manager-count (DataReqModeCapab)
		☐ field- type = INT-U8
		☐ field-length = 2 bytes
		☐ field.value = 0x00
Pass/Fail criteria	All chec	ked attributes have proper values.
Notes		

TP ld		TP/PLT/AG/CLASS/AM/BV-015					
TP label		Get Request Adherence Monitor Agent					
Coverage	Spec	[ISO/IEEE 11073-10472]					
	Testable items	MM_OperProc4; M					
Test purpose		Check that: It is not required for a medication monitor agent to support this capability (Get MDS object using an Attribute-Id-List). If this capability is not implemented, the medication monitor agent shall respond with a "Remote Operation Error Result" (roer) service message (see ISO/IEEE Std 11073-20601) with the error-value field set to no-such-action (9).					
Applicability	1	C_AG_OXP_168 AND C_AG_OXP_000					
Other PICS		C_AG_OXP_100					
Initial condit	tion	The simulated manager and the agent under test are in the operating state.					
Test procedure		 The simulated manager issues a "Remote Operation Invoke Get" command with Obj-handle set to 0 (to request for MDS object) attribute-id-list.count=1 and a single AVA_Type MDC_ATTR_DEV_CONFIG_ID (0X0A 0X44) to retrieve the mandatory "Dev-Configuration-Id" attribute The agent under test responds with: IF C_AG_OXP_100 THEN: with a "rors-cmip-get" service message which contains the "Dev-Configuration-Id" ELSE: with a "roer" service message with error-value set to no-such-an-action (9) 					
Pass/Fail criteria		In step 2 the agent properly sends the requested attribute or the error (no-such-action) message.					
Notes							

TP ld		TP/PLT/AG/CLASS/AM/BV-016				
TP label		Operating State. Manager to Agent Maximum APDU Size				
Coverage Spec		[ISO/IEEE 11073-20601A]				
	Testable items	CommonCharac 3; M				
	Spec	[ISO/IEEE 11073-10472]				
	Testable items	MM_ComModel1; M	MM_ComModel2; M			
Test purpo	se	Check that:				
		The total size of the response do not exceed of the maximum APDU size established by the specialization				
		[AND]				
		A medication monitor agent implementing only this device specialization shall not transmit any APDU larger than Ntx and shall be capable of receiving any APDU up to a size of Nrx. For this standard, Ntx shall be 1024 octets and Nrx shall be 64 octets.				
Applicability		C_AG_OXP_000 AND C_AG_OXP_168				

	C_AG_OXP_041, C_AG_OXP_100				
Initial condition	The simulated manager and the agent are in the operating state.				
Test procedure	 The simulated manager issues a "Remote Operation Invoke Get" command with: a. Obj-handle set to 0 (to request for an MDS object) b. attribute-id-list.count = 23 c. attribute-id-list: (MDC_ATTR_ID_MODEL, MDC_ATTR_SYS_ID, MDC_ATTR_DEV_CONFIG_ID) repeated 7 times followed by an additional MDC_ATTR_ID_MODEL and MDC_ATTR_SYS_ID Check the response of the agent. The simulated manager issues a "Remote Operation Invoke Get" command with the handle set to 0 (to request for an MDS object) and an empty attribute-id-list to indicate all attributes. Check the response of the agent. 				
Pass/Fail criteria	 In step 2, the agent under test may respond with a rors-cmip-get listing all the requested attributes, or with a roer message. If PICS C_AG_OXP_100 =TRUE and the agent does not respond with a rors-cmip-get message, it responds with a roer message or rorj(resource-limitation) message, a WARNING will appear. If the response is a get response, the total size of the response cannot exceed the sum of the APDU sizes of the supported specializations (limited to an absolute limit of 64512 octets): 				
	 Pulse oximeter -> 9216 octets Weighing scales -> 896 octets Glucose meter -> 5120 octets or 64512 octets if the agent supports PM-Store Blood pressure -> 896 octets Thermometer -> 896 octets Independent activity hub -> 5120 octets Cardiovascular -> 64512 octets or 6624 octets if agent under test only supports Step Counter Profile Strength -> 64512 octets: 				
	 Adherence monitor -> 1024 octets Peak flow -> 2030 octets Body composition analyser -> 7730 octets Basic ECG/Simple ECG -> 7168 octets or 64512 octets if the agent supports PM-Store Basic ECG/Heart rate -> 1280 octets or 64512 octets if the agent supports PM-Store International normalized ratio -> 896 octets or 64512 if the agent supports PM-Store In the case where it responds with a roer, the reason must not be protocolviolation (23) 				
	In step 4, the agent must respond with a rors-cmip-get message.				

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