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TELECOMMUNICATION STANDARDIZATION SECTOR OF ITU



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 2: Optimized exchange protocol: Manager

Recommendation ITU-T H.842

-01



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Recommendation ITU-T H.842

Conformance of ITU-T H.810 personal health devices: PAN/LAN/TAN interface Part 2: Optimized exchange protocol: Manager

Summary

Recommendation ITU-T H.842 is a transposition of Continua Test Tool DG2013, Test Suite Structure & Test Purposes, PAN-LAN-TAN Interface; Part 2: Optimized Exchange Protocol: Manager (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*
1.0	ITU-T H.842	2015-01-13	16	11.1002/1000/12259
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Keywords

Conformance testing, continua design guidelines, e-health, H.810, PAN/LAN/TAN interface, personal area network, personal connected health devices, touch area network.

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

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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.

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Introduction

This Recommendation is a transposition of Continua Test Tool DG2013, Test Suite Structure & Test Purposes, PAN-LAN-TAN Interface; Part 2: Optimized Exchange Protocol: Manager (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_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	 Adds basic cicculograph device specialization 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 [ITU-T H.810]: Adds glucose meter BLE Adds BLE SSP support Adds NFC new transport Adds INR Device Specialization

Recommendation ITU-T H.842

Conformance of ITU-T H.810 personal health devices: PAN/LAN/TAN interface Part 2: Optimized exchange protocol: Manager

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]. The objective of this test specification is to provide a high probability of air interface interoperability between different devices.

TSS & TP for the PAN/LAN/TAN interface have been divided into 10 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

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.

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 11073-10417]	ISO/IEEE 11073-10417:2014, <i>Health informatics – Personal health device communication – Part 10417: Device specialization – Glucose meter.</i> < <u>http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=61896</u> >
[ISO/IEEE 11073-10420]	ISO/IEEE 11073-10420:2012, Health informatics – Personal health device communication Part – 10420: Device specialization – Body composition analyzer.
[ISO/IEEE 11073-20601A]	ISO/IEEE 11073-20601:2010, <i>Health informatics – Personal health device communication – Part 20601: Application profile – Optimized exchange protocol,</i> including ISO/IEEE 11073-20601:2010 Amd 1:2015.
	< <u>http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=54331</u> > with
	<http: catalogue_detail.htm?csnumber="63972" catalogue_tc="" home="" iso="" store="" www.iso.org=""></http:>
[ISO/IEEE 11073-104xx]	ISO/IEEE 11073-104xx (in force), <i>Health informatics – Personal</i> <i>health device communication – Device specialization</i> . NOTE – This is shorthand 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 11073-10404]	ISO/IEEE 11073-10404:2010, Health informatics – Personal health device communication – Part 10404: Device specialization – Pulse oximeter.
[ISO/IEEE 11073-10407]	ISO/IEEE 11073-10407:2010, Health informatics – Personal health device communication – Part 10407: Device specialization – Blood pressure monitor.
[ISO/IEEE 11073-10408]	ISO/IEEE 11073-10408:2010, Health informatics – Personal health device communication – Part 10408: Device specialization – Thermometer.
[ISO/IEEE 11073-10415]	ISO/IEEE 11073-10415:2010, Health informatics – Personal health device communication – Part 10415: Device specialization – Weighing scale.
[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).

ISO/IEEE 11073-10472-2012, Health informatics – Personal health device communication – Part 10472: Device specialization – Medication monitor.

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.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

Abstract Test Suite
Device Under Test
Continua Design Guidelines
Graphical User Interface
International Normalized Ratio
Medical Device System
Near Field Communication
Personal Area Network
Protocol Conformance Testing
Personal Healthcare Device
Personal Healthcare Device Class
Personal Health Manager
Protocol Implementation Conformance Statement
Protocol Implementation extra Information for Testing
Sleep Apnoea Breathing Therapy Equipment
Service Discovery Protocol
Simple Object Access Protocol
Test Case Reference List
Test Purpose
Test Suite Structure
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.

CDG release	Transposed as	Version	Description	Designation
2016 plus errata	[ITU-T H.810 (2016)]	6.1	Release 2016 plus errata noting all ratified bugs [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	[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	Release 2011 of the CDG including maintenance updates of the CDG 2010 and	Adrenaline

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

CDG release Transposed as		Version	Description	Designation
			additional guidelines that cover new functionalities [b-CDG 2011].	
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].	-

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

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 subgroups 2.2.1, 2.2.2, 2.2.3 and 2.2.4 (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 2.4.3: Whitepaper blood pressure requirements (BPM)
 - Subgroup 2.4.4: Whitepaper heart rate requirements (HR)
 - Subgroup 2.4.5: Whitepaper glucose meter requirements (GL)
 - Subgroup 2.4.6: Whitepaper weight scale requirements (WS)

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 "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".
 - \circ <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)
 - <DUT>: This is the device under test:
 - AG: PAN/LAN Agent
 - MAN: PAN/LAN Manager
 - <GR>: This identifies a group of test cases.
 - <SGR>: This identifies a subgroup of test cases.
 - <XX>: This identifies the type of testing:
 - BV: Valid behaviour test
 - BI: Invalid behaviour test
 - <NNN>: This is a sequential number that identifies the 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.
 - \circ 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)

TP ld		TP/PLT/MAN/OXP/DIM/BV-000_A				
TP label		Episodic Scanner object not supported				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items					
Test purpose		Check that: Episodic Scanner object, declared by the vendor as "not supported", is really not supported by the Manager under test.				
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_001)				
Other PICS						
Initial condit	tion	The simulated agent and the manager under test are in the unassociated state.				
Test procedure		 The simulated agent sends an Association Request to the manager. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. IF the manager under test responds with an Association Response (accepted-unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to an extended Config-Id, including a episodic scanner object. a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or Abort THEN the manager shall not move to the operating state and the test procedure ends. b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state and the test procedure ends. JF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state and the test procedure ends. JF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state and the manager is forced to enable the scanner object. IF the manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the manager is forced to enable the scanner object. 				
Pass/Fail criteria		 In step 2 or step 3.a, the manager does not move to the operating state In step 3.b or step 4, the manager does not send the Set action to enable the scanner object 				
Notes						

TP ld		TP/PLT/MAN/OXP/DIM/BV-000_B		
TP label		Periodic Scanner object not supported		
Coverage Spec [ISO/IEEE 11073-20601A]		[ISO/IEEE 11073-20601A]		
	Testable items			
Test purpose		Check that:		
		Periodic Scanner object, declared by the vendor as "not supported", is really not supported by the Manager under test.		

9

Applicability	C_MAN_OXP_000 AND NOT(C_MAN_OXP_006)		
Other PICS			
Initial condition	The simulated agent and the manager under test are in the unassociated state.		
Test procedure	1. The simulated agent sends an Association Request to the manager.		
	 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to operating state and the test procedure ends. 		
	 IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to an extended Config-Id, including a periodic scanner object. 		
	a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or an Abort THEN the manager shall not move to operating state and the test procedure ends.		
	b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state and the manager is forced to enable the scanner object.		
	 IF the manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the manager is forced to enable the scanner object. 		
Pass/Fail criteria	• In step 2 or step 3.a, the manager does not move to the operating state		
	In step 3.b or step 4, the manager does not send the Set action to enable the scanner object		
Notes			

TP ld		TP/PLT/MAN/OXP/DIM/BV-000_C			
TP label		PM-Store object not supported			
Coverage Spec		[ISO/IEEE 11073-20601A]			
	Testable items				
Test purpos	e	Check that:			
		PM-Store object, declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_003)			
Other PICS					
Initial condition	tion	The simulated agent and the manager under test are in the unassociated state.			
Test proced	ure	1. The simulated agent sends an Association Request to the manager.			
		2. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to operating state and the test procedure ends.			
		 IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to an extended Config-Id, including a PM-Store object. 			
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends.			
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state and the manager is forced to trigger (Trig-Segment-Data-Xfer) the PM-Store.			
		 IF the manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the manager is forced to trigger (Trig- Segment-Data-Xfer) the PM-Store. 			
Pass/Fail criteria		• In step 2 or step 3.a, the manager does not move to the operating state			

	• In step 3.b or step 4, the manager does not send the Trig-Segment-Data-Xfer action
	 Once in the operating state, the manager does send actions for the PM-Store (Get- Segment-Info, Clear-Segment or GET for PM-Store object)
Notes	

TP Id		TP/PLT/MAN/OXP/DIM/BV-0	01		
TP label		Manager configuring a real-ti	me clock		
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	MDSMethod 3;M	AbsTime 6; C	AbsTime 18; M	
Spec		[ITU-T H.810 (2015)]	1		
	Testable items	Communication 14;M			
Test purpos	e	Check that:			
		The manager when invoking action request.	the Set-Time method shall do s	o using a roiv-cmip-confirmed-	
		[AND]			
		If the agent has the mds-time action command to set the ab	-mgr-set-time bit set, the mana psolute time on the agent	ger shall invoke the Set-Time	
		[AND]			
		The Set-Time shall be sent w MDS Get message	ithin a TO _{config} time period after	receiving the attribute from an	
Applicability	y	C_MAN_OXP_000			
Other PICS					
Initial condi	tial condition The simulated agent and the manager under test are in the unassociated state. The a has the MDSTimeInfo attribute with the mds-time-mgr-set-time and mds-time-capab-clock bits set.				
 Handle = 0 (MDS object) Action = 0x0C 0x17 (MDC_4 SetTimeInvoke = SEQUENC date-time.length = 8 byt 			at sends a GET request while it the manager shall set the time of tate is reached. t did not send a GET request, the butes. ds a rors-cmip-get with MDS at butes within TO _{config} seconds, the tated agent: Operation Invoke Confirmed of S object) 0x17 (MDC_ACT_SET_TIME) = SEQUENCE: ength = 8 bytes alue = <record comparison<="" for="" th=""><th>is in the configuring state, if the simulated agent, ELSE then force the manager under tributes (with the mds-time- the Manager under test shall</th></record>	is in the configuring state, if the simulated agent, ELSE then force the manager under tributes (with the mds-time- the Manager under test shall	
Pass/Fail cr	iteria	Accuracy = The format of the receive	ed message must be the one sp	ecified	
			-		
		 Verify that the time is set to the time of the manager 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 (step2) or the operating state (step 5) 			

Notes	
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TP ld		TP/PLT/MAN/OXP/DIM/BV-001_A				
TP label		Manager configuring a Base-Offset-Time clock				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	MDSMethod 5;M AbsTime 18; M				
Test purpose		Check that:				
		The manager when invoking the Set-Base-Offset-Time method shall do so using a roiv- cmip-confirmed-action request.				
		[AND]				
		The Set-Base-Offset-Time shall be sent within a TO _{config} time period after receiving the attribute from an MDS Get message				
Applicability	/	C_MAN_OXP_000 AND (C_MAN_OXP_029 OR C_MAN_OXP_030)				
Other PICS						
Initial condit	tion	The simulated agent and the manager under test are in the unassociated state. The agent has the MDSTimeInfo attribute with the mds-time-capab-set-clock(1), mds-time-capab-bo-time(7) and mds-time-mgr-set-time(11) bits set.				
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test.				
		 IF the manager under test sends a GET request while it is in the configuring state, within TO_{config} seconds the manager shall set the time of the simulated agent, ELSE wait until the operating state is reached. 				
		3. If the manager under test did not send a GET request, then force the manager under test to request MDS attributes.				
		4. The simulated agent 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).				
		5. After receiving MDS attributes within TO _{config} seconds, the manager under test shall set the time of the simulated agent:				
		a. Data APDU				
		Type = Remote Operation Invoke Confirmed Action				
		□ Handle = 0 (MDS object)				
		Action = 0x0C 0x17 (MDC_ACT_SET_BO_TIME)				
		SetBOTimeInvoke = SEQUENCE:				
		 date-time.length = 8 bytes 				
		 date-time.value = <record comparison="" for=""></record> 				
Pass/Fail cri	iteria	The format of the received message must be the one specified				
		Verify that the time is set to the time of the manager 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 (step2) or the operating state (step 5) 				
Notes						

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TP Id		TP/PLT/MAN/OXP/DIM/BV-002				
TP label		MDS services. Manager requesting MDS object attributes				
Coverage	Spec	[ISO/IEEE 11073-20601A]	[ISO/IEEE 11073-20601A]			
	Testable items	MDSService 3;O	MDSService 5; R	ConfEventRep 5; O		
Test purpose		Check that:				
The Manager may request the MDS object attributes of the Agent in which case			Agent in which case the			

	Manager shall send the "Remote Operation Invoke Get" command (see roiv-cmip-get in B.10.2) with the reserved handle value of 0
	[AND]
	Due to the nature of the attributes reported in the MDS Object, the manager should send the Get MDS Object request right after sending the Association Response.[AND]
	Even if manager knows the agent's device configuration, the manager may ask to enter the configuring state in order to check attributes from the MDS object before deciding to accept the association.
Applicability	C_MAN_OXP_000
Other PICS	
Initial condition	The simulated agent and the manager under test are in the unassociated state.
Test procedure	1. The simulated agent sends and Association Request to the manager under test with an extended dev-config-id previously unknown to the manager.
	2. The manager under test sends an AARE with an "accepted-unknown-config".
	3. Check that the manager under test has sent the GET request while it is in the configuring state.
	4. The simulated agent sends a configuration event report .
	5. The manager responds to the configuration event report and reaches the operating state.
	 If the manager 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 manager under test to send a GET to the MDS.
	7. Whether the above Get request was sent via automatic behavior or was forced, the received message from the agent shall be:
	a. APDU Type
	$\Box field-length = 2 \text{ bytes}$
	□ field-value = 0xE7 0x00 (PrstApdu)
	b. invoke-id
	field-type = InvokeIDType
	$\Box field-length = 2 \text{ bytes}$
	field-value= <not for="" relevant="" test="" this=""></not>
	c. CHOICE
	□ field-value = 0x01 0x03 (Remote Operation Invoke Get)
	d. obj-handle
	field-type = HANDLE
	$\Box field-length = 2 \text{ bytes}$
	$\Box field-value = 0$
	e. attribute-id-list
	\Box count = 0x00 0x00
	$\Box \text{length} = 0x00 \ 0x00$
Pass/Fail criteria	The format of the received message shall be the one specified
	 It is recommended that the GET MDS is received while manager under test is in the configuring state.
	Note: If the GET request for the MDS object is received from the manager under test while in the configuring state, it is checked in accordance step 7 above.
Notes	

TP ld	Id TP/PLT/MAN/OXP/DIM/BV-004_A				
TP label		PM-Store object methods. Clear-Segments method 1 (all-segment).			
Coverage	Spec		E 11073-20601A]	C	
	Testable items		eMeth 9; O	PM-StoreMeth 18; O	PM-StoreMeth 24; C
Test purpose		Check th	nat:		
		Support for the Clear-Segments method is optional.			
		[AND]			
		If a manager invokes the [Clear-Segments] method it shall use operation type roiv-cmip- confirmed-action.			
		If a manager invokes the [Clear-Segments] method it shall use the Action-type MDC_ACT_SEG_CLR			
			ager invokes the [0 election structure (a	Clear-Segments] method it sha all-segments)	Il use the action-info-args
		[AND]			
			nager shall support s of the Clear-Segr		ce in the SegmSelection action-
Applicability	у		_OXP_000 AND C _OXP_041 OR C_	_MAN_OXP_003 AND (C_MA MAN_OXP_042)	N_OXP_040 OR
Other PICS					
Initial condition The simulated agent and the manager under test are in the operating state. The agent has at least one segment with data stored and PMStoreCapab bits 4 and					
Test procedure		IF a UI feature exists such that the manager can clear the segments:			
		1. Mak	the manager un	der test perform a Clear Segm	ent with parameter all-segments.
			anager under test the action to clear	can clear the segments autom the segments.	atically after a transfer, then
		Either wa	ay:		
		2. The	simulated agent re	eceives the message:	
		a. APDU Type			
			□ field-length =	2 bytes	
			□ field-value =	0xE7 0x00 (PrstApdu)	
		b.	invoke-id		
			□ field-type = In	••	
			 field-length = field-value= 1 	-	ge; the confirmed response that
				y the simulated agent shall have	
		c.	CHOICE		
			\Box value = 0x01	0x07 (roiv-cmip-confirmed-act	ion)
		d.	obj-handle		
			□ field-type = H	IANDLE	
			□ field-length =	2 bytes	
			□ field-value = ·	<handle an="" existing="" of="" pm-sto<="" td=""><td>re></td></handle>	re>
		e.	action-type		
			$\Box field-type = C$	DID-Type	
			□ field-length =	2 bytes	
			□ field-value =	0x0C 0x0C (MDC_ACT_SEG_	_CLR)
		f.	action-info-args		
			SegmSelection	on =	

	 all-segments (0)
Pass/Fail criteria	The format of the received message must be the one specified above.
Notes	

TP Id		TP/PLT/MAN/OXP/DIM/BV-004 B				
TP label		P/PL1/MAN/OXP/DIM/BV-004_B PM-Store Class methods. Clear-Segments method 2 (Time Range).				
Coverage	Spec		EE 11073-20601A]		anye).	
Coverage	Testable items		PM-StoreMeth 9; O PM-StoreMeth 18; O			
Test purpose	· • •	Check t	hat:			
		Support	for the Clear-Segmer	nts method is optional.		
		[AND]	Ũ	·		
		If a manager invokes the [Clear-Segments] method it shall use operation type roiv-cmip- confirmed-action.				
			ager invokes the [Clea CT_SEG_CLR	ar-Segments] method it shall us	e the Action-type	
		lf a man SegmSe	ager invokes the [Clea election structure (Abs	ar-Segments] method it shall us TimeRange)	e the action-info-args	
Applicability		C_MAN	_OXP_000 AND C_M	AN_OXP_003 AND C_MAN_O	XP_041	
Other PICS						
Initial condit	ion			manager under test are in the op nt with data stored and PMStore		
Test procedu	ure	IF a UI feature exists such that the manager can clear the segments:				
		 Make the manager under test perform a Segment Clear with parameter SegmSelection = AbsTimeRange 				
		IF the manager under test can clear the segments automatically after a transfer, perform the action.				
		Either w	ay:			
		2. Ma	ke the manager under	test perform a Segment Clear I	by time range.	
		3. The	e simulated agent rece	eives the message:		
		a.	APDU Type			
			□ field-length = 2 k	oytes		
			$\Box field-value = 0xE$	E7 0x00 (PrstApdu)		
		b.	invoke-id			
			□ field-type = Invo	kelDType		
			$\Box field-length = 2 I$	oytes		
				s value identifies the message; t he simulated agent shall have th		
		c.	CHOICE			
			□ value = 0x01 0x	07 (roiv-cmip-confirmed-action)		
		d.	obj-handle			
			□ field-type = HAN	IDLE		
			$\Box field-length = 2 I$	oytes		
			$\Box field-value = $	andle of an existing PM-Store>		
		e.	action-type			
			□ field-type = OID	-Туре		
			□ field-length =2 b	ytes		

	□ 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 Id		TP/PLT/MAN/OXP/DIM/BV-004_C			
TP label		PM-Store Class methods. Clear-Segments method 3 (segm-id-list)			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items		eMeth 9; O	PM-StoreMeth 18; O	
Test purpos	e	Check t	nat:		
		Support	for the Clear-Segmer	nts method is optional.	
		[AND]			
		If a manager invokes the [Clear-Segments] method it shall use operation type roiv-cmip- confirmed-action.			
			ager invokes the [Cle CT_SEG_CLR	ar-Segments] method it shall us	e the Action-type
			ager invokes the [Cle election structure (seg	ar-Segments] method it shall us ım-id-list)	e the action-info-args
Applicability	,	C_MAN	_OXP_000 AND C_N	IAN_OXP_003 AND C_MAN_O	XP_042
Other PICS					
Initial condit	ion			manager under test are in the o ent with data stored and PMStore	
Test procedu	ure	IF a UI f	eature exists such tha	at the manager can clear the se	gments:
		 Make the manager under test perform a Segment Clear with parameter SegmSelection = segm-id-list. 			
			IF the manager under test can clear the segments automatically after a transfer, perform the action.		
		Either w	ay:		
		2. Mal	ke the manager under	r test perform a Segment Clear	of a specific Segment.
		3. The	simulated agent rece	eives the message:	
		a.	APDU Type		
			$\Box field-length = 2$	bytes	
				E7 0x00 (PrstApdu)	
		b.	invoke-id		
			field-type = Invo		
			$\Box field-length = 2 I$	-	
				s value identifies the message; t ne simulated agent shall have th	
		C.	CHOICE		
			\Box value = 0x01 0x	07 (roiv-cmip-confirmed-action)	
		d.	obj-handle		
			□ field-type = HAN	IDLE	
			□ 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 = segm-id-list (must contain the instance number of the selected Segment)
Pass/Fail criteria	The for	mat of the received message must be the one specified above.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-004_D				
TP label		PM-Store Class methods. Clear-Segments method 4 (Base-Offset-Time Range)				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	PM-StoreMeth 9; O PM-StoreMeth 18; O				
Test purpos	e	Check that:				
		Support for the Clear-Segments method is optional.				
		[AND]				
		If a manager invokes the [Clear-Segments] method it shall use operation type roiv-cmip- confirmed-action.				
		If a manager invokes the [Clear-Segments] method it shall use the Action-type MDC_ACT_SEG_CLR				
		If a manager 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 condit	ion	The simulated agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab bits 4, 8 and 10 set.				
Test procedu	ure	IF a UI feature exists such that the manager can clear the segments:				
		 Make the manager under test perform a Segment Clear with parameter SegmSelection = BOTimeRange. 				
		IF the manager under test can clear the segments automatically after a transfer, perform the action.				
		Either way:				
		2. Make the manager under test perform a Segment Clear by time range.				
		3. The simulated agent receives the message:				
		a. APDU Type				
		□ field-length = 2 bytes				
		□ field-value = 0xE7 0x00 (PrstApdu)				
		b. invoke-id				
		field-type = InvokeIDType				
		$\Box field-length = 2 \text{ bytes}$				
		field-value= This value identifies the message; the confirmed response that will be sent by the simulated agent shall have the same invoke-id.				
		c. CHOICE				

		□ value = 0x01 0x07 (roiv-cmip-confirmed-action)
	d.	obj-handle
		□ field-type = HANDLE
		$\Box field-length = 2 \text{ bytes}$
		□ 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 for	nat of the received message must be the one specified above.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-005_A				
TP label		PM-Store Class methods. Get-Segment-info method (all-Segments)				
Coverage Spec		[ISO/IEEE 11073-20601A]				
-	Testable	PM-StoreMeth 12; O	PM-StoreMeth 17; M	PM-StoreMeth 28; M		
	items	PersStoreMtrDatTransf 26; O				
Test purpos	e	Check that:				
		If a manager invokes the [Get- confirmed-action.	Segment-Info] method it shall	use operation type roiv-cmip-		
		If a manager invokes the [Get-Segment-Info] method it shall use the Action-type MDC_ACT_SEG_GET_INFO				
		If a manager invokes the [Get-Segment-Info] method it shall use the action-info-args SegmSelection (all-segments)				
		[AND]				
		If a manager supports the PM-store class, the support of the Get-Segment-Info and Trig- Segment-Data-Xfer methods is mandatory				
		[AND]				
		If the manager supports sending the Get-Segment-Info method, the manager shall support at least the choice all-segments in the SegmSelection action-info-args of the Get-Segment- Info method. The manager may support additional choices.				
Applicability	y	C_MAN_OXP_000 AND C_MAN_OXP_003				
Other PICS						
Initial condition		The simulated agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.				
Test proced	lure	 Make the manager under test perform a GetSegmentInfo action to recover the information of all the segments. 				
		2. The simulated agent rece	ives the message:			
		a. APDU Type				
		□ field-length = 2 b	ytes			
		□ field-value = 0xE	7 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 agent 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.	act	ion-type (roiv-cmip-confirmed-action)
			field-type = OID-Type
			field-length =2 bytes
			field-value = 0x0C 0x0D (MDC_ACT_SEG_GET_INFO)
	e.	act	ion-info-args
			SegmSelection = all-segments (0)
Pass/Fail criteria			er shall perform a Get Segment Action (all-segments) and the format of the ssage must be the one specified.
Notes			

TP ld		TP/PLT/MAN/OXP/DIM/BV-005_B				
TP label		PM-Store Class methods. Get-Segment-info method (segment-id-list)				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	PM-StoreMeth 12; O				
Test purpos	e	Check that:				
		A Manager may invoke the [Get-Segment-Info] method				
		If a manager invokes the [Get-Segment-Info] method it shall use operation type roiv-cmip- confirmed-action.				
		If a manager invokes the [Get-Segment-Info] method it shall use the Action-type MDC_ACT_SEG_GET_INFO				
		If a manager invokes the [Get-Segment-Info] method it shall use the action-info-args SegmSelection (segm-id-list)				
Applicability	1	C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_045				
Other PICS						
Initial condit	ion	The simulated agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.				
Test proced	ure	1. Make the manager under test perform a GetSegmentinfo action to recover only the information of one segment:				
		2. The simulated agent receives the message:				
		a. APDU Type				
		$\Box field-length = 2 \text{ bytes}$				
		□ field-value = 0xE7 0x00 (PrstApdu)				
		b. invoke-id				
		field-type = InvokeIDType				
		$\Box field-length = 2 \text{ bytes}$				
		field-value= This value identifies the message; the confirmed response that will be sent by the simulated agent shall have the same invoke-id.				

	C.	obj-handle
		initial field-type = HANDLE
		\Box 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
		<pre>field-value = 0x0C 0x0D (MDC_ACT_SEG_GET_INFO)</pre>
	e.	action-info-args
		SegmSelection = segm-id-list
		 SegmIdList = <list instance="" numbers="" of="" segments'="" selected="" the=""></list>
Pass/Fail criteria	The for	nat of the received message must be the one specified.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-005_C				
TP label		PM-Store Class methods. Get-Segment-info method (time range)				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	PM-StoreMeth 12; O				
Test purpos	e	Check that:				
		A Manager may invoke the [Get-Segment-Info] method				
		If a manager invokes the [Get-Segment-Info] method it shall use operation type roiv-cmip- confirmed-action.				
		If a manager invokes the [Get-Segment-Info] method it shall use the Action-type MDC_ACT_SEG_GET_INFO				
		If a manager invokes the [Get-Segment-Info] method it shall use the action-info-args SegmSelection (abs-time-range)				
Applicability	1	C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_AG_OXP_044				
Other PICS						
Initial condit	ion	The simulated agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.				
Test proced	ure	 Make the manager under test perform a GetSegmentinfo action to recover the information of a time range. 				
		2. The simulated agent receives the message:				
		a. APDU Type				
		$\Box field-length = 2 \text{ bytes}$				
		□ field-value = 0xE7 0x00 (PrstApdu)				
		b. invoke-id				
		field-type = InvokeIDType				
		$\Box field-length = 2 \text{ bytes}$				
		field-value= This value identifies the message; the confirmed response that will be sent by the simulated agent shall have the same invoke-id.				
		c. obj-handle				
		□ field-type = HANDLE				
		$\Box field-length = 2 \text{ bytes}$				
		field-value = <handle an="" existing="" of="" pm-store=""></handle>				

	d. a	action-type (roiv-cmip-confirmed-action)
	(☐ field-type = OID-Type
	(☐ field-length =2 bytes
	(☐ field-value = 0x0C 0x0D (MDC_ACT_SEG_GET_INFO)
	e. a	action-info-args
	(SegmentSelectiont = abs-time-range
		 AbsTimeRange.from-time = <selected beginning="" date="" of=""></selected>
		 AbsTimeRange.to-time = <selected date="" ending="" of=""></selected>
Pass/Fail criteria	The forma	at of the received message must be the one specified.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-005_D					
TP label		PM-Store Class methods. Get-Segment-info method 4 (Base-Offset-Time range)					
Coverage	Spec	[ISO/IEEE 11073-20601A]					
	Testable items	PM-StoreMeth 12; O					
Test purpos	Ð	Check that:					
		A Manager may invoke the [Get-Segment-Info] method					
		If a manager invokes the [Get-Segment-Info] method it shall use operation type roiv-cmip- confirmed-action.					
		If a manager invokes the [Get-Segment-Info] method it shall use the Action-type MDC_ACT_SEG_GET_INFO					
		If a manager 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 agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.					
Test proced	ure	 Make the manager under test perform a GetSegmentinfo action to recover the information of a time range. 					
		2. The simulated agent receives the message:					
		a. APDU Type					
		$\Box field-length = 2 bytes$					
		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 agent 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/MAN/OXP/DIM/BV-006				
TP label		PM-Store Class methods. Trig-Segment-Data-Xfer method				
Coverage	Spec	[ISO/IEI	EE 11073-20601A]			
	Testable items	PM-Sto	reMeth 15; O	PM-StoreMeth 17; M	PersStoreMtrDatTransf 5; M	
Test purpos	е	Check t	hat:			
			nager invokes the [Trig onfirmed-action.	-Segment-Data-Xfer] method it	shall use operation type roiv-	
			nager invokes the [Trig .CT_SEG_TRIG_XFE	l-Segment-Data-Xfer] method it R	shall use the Action-type	
			nager invokes the [Trig mDataXferReq	-Segment-Data-Xfer] method it	shall use the action-info-args	
		[AND]				
			nager supports the PM nt-Data-Xfer methods	-store class, the support of the is mandatory.	Get-Segment-Info and Trig-	
		[AND]				
		The manager sends the ACTION method to the agent 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				
Applicability	/	C_MAN_OXP_000 AND C_MAN_OXP_003				
Other PICS						
Initial condit	tion	The simulated agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.				
Test proced	ure		•	test perform a Trig-Segment-D	ata-Xfer.	
•			e simulated agent rece			
		a.	APDU Type	·		
			□ field-length = 2 l	oytes		
			□ field-value = 0xE	7 0x00 (PrstApdu)		
		b.	invoke-id			
			□ field-type = Invo	kelDType		
			\Box field-length = 2 k	oytes		
				s value identifies the message; the simulated agent shall have the		
		c.	obj-handle			
			□ field-type = HAN	IDLE		
			□ field-length = 2 k	bytes		
			□ field-value = <h< td=""><td>andle of an existing PM-Store></td><td></td></h<>	andle of an existing PM-Store>		

	d. action-type (roiv-cmip-confirmed-action)	
	□ field-type = OID-Type	
	□ field-length =2 bytes	
	□ field-value = 0x0C 0x1C (MDC_ACT_SEG_TRIG_XFER)	
	e. action-info-args	
	TrigSegmDataXferReq.seg-inst-no = <one existing="" instance="" number="" of="" pm-segments'="" the=""></one>	
Pass/Fail criteria	The manager shall perform a Trig-Segment-Data-Xfer Action and the format of the received message must be the one specified.	
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-007_A					
TP label		PM-Store Class methods. Segment-Data-Event 1					
Coverage	Spec	[ISO/IEEE 11073-20601A]					
	Testable items	PM-StoreEvent 3; M					
Test purpos	e	Check that:					
		Managers 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 agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.					
Test procedu	ure	1. Make the manager under test perform a Trig-Segment-Data-Xfer.					
		2. The simulated agent responds to the message with a "TrigSegmDataXferRsp".					
		3. The simulated agent 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 manager 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 agent="" by="" one="" previously="" sent="" simulated="" the=""></the> 					
		 segmt-evt-entry-index = <the by="" one="" previously="" sent="" simulated<br="" the="">agent></the> 					

	 segmt-evt-entry-count = <the by="" one="" previously="" sent="" simulated<br="" the="">agent></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 Id		TP/PLT/MAN/OXP/DIM/BV-007_B				
TP label		PM-Store Class methods. Segment-Data-Event 2				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	PM-StoreEvent 3; M				
Test purpos	е	Check that:				
		Managers 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	1	C_MAN_OXP_000 AND C_MAN_OXP_003				
Other PICS						
Initial condit	ion	The simulated agent and the manager under test are in the operating state. The simulated agent has at least one segment with data stored and PMStoreCapab indicates that it supports all the possible actions.				
Test proced	ure	1. Make the manager under test perform a Trig-Segment-Data-Xfer.				
		2. The simulated agent responds to the message with a "TrigSegmDataXferRsp".				
		3. The simulated agent 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 manager 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 agent="" by="" one="" previously="" sent="" simulated="" the=""></the> 				
		 segm-evt-entry-index = <the by="" one="" previously="" sent="" simulated<br="" the="">agent></the> 				
		 segm-evt-entry-count = <the by="" one="" previously="" sent="" simulated<br="" the="">agent></the> 				
		 segm-evt-status = Bits 4 and 8 must be set 				
Pass/Fail cri	teria	The format of the received message must be the one specified.				
Notes						

TP ld		TP/PLT	/MAN/OXP/DIM/BV-0	13				
TP label	1	EpiCfgScanner Class events. Unbuf-Scan-Report-Grouped						
Coverage	Spec	[ISO/IEEE 11073-20601A]						
	Testable	EpiCfg	EpiCfgScanEvent 12;C ObjAccessServ 2;M EpiCfgScan					
items		ScanCl	assAttr 3; M					
Test purpos	е	Check	that:					
		If an Episodic Scanner uses Unbuf-Scan-Report-Grouped Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip-confirmed-event- report operation to acknowledge the operation.						
		[AND]						
			nager shall use the S tional State)	ET action to request a chan	ge in the value of this attribute			
		[AND]						
			nager supports episod sodic configurable sca		all the events identified in Table			
Applicability	/	C_MAN	OXP_000 AND C_M	IAN_OXP_001				
Other PICS								
Initial condit	tion	The sin	nulated agent and the	manager under test are in t	he operating state.			
Test proced	ure	 Make the manager under test set the OperationalState attribute of an episodi of the simulated agent to 1: 						
		a.	APDU Type					
			$\Box field-length = 2$	bytes				
			□ field-value = 0x	E7 0x00 (PrstApdu)				
		b.	invoke-id					
			field-type = Invo	okeIDType				
			\Box field-length = 2	bytes				
			□ field-value= It is	not relevant				
		C.	CHOICE					
			□ value = 0x01 0x	05 (roiv-cmip-confirmed-se	t)			
		d.	obj-handle					
			□ field-type = Sca	nner HANDLE				
			$\Box field-length = 2$	bytes				
			□ field-value = 21	<handle episodic="" of="" sc<="" td="" the=""><td>anner></td></handle>	anner>			
		e.	Modification-list					
			modify-operator	count = 1				
			modify-operator	length = 2 bytes				
			modify-operator	value = 0 (replace)				
			attribute.type =	0x09 0x53 (MDC_ATTR_O	P_STAT)			
			attribute.value =	= 1				
		2. Th	e simulated agent res	ponds to the message with	a "rors-cmip-confirmed-set".			
				ds a confirmed event report	t of the episodic scanner)) to the manager under test:			
				responds with a "rors-confi				
		a.	APDU Type					
			$\Box field-length = 2$	bytes				

Notes			
Pass/Fail criteria	The form	nat of	the received messages in steps 1 and 4 must be the one specified.
			field-value = 0x0D 0x24 (MDC_NOTI_UNBUF_SCAN_REPORT_GROUPED)
			field-length =2 bytes
			field-type = OID-Type
	d.	even	nt-type (rors-confirmed-event-report)
			field-value = 21 <handle episodic="" of="" scanner="" the=""></handle>
			field-length = 2 bytes
			field-type = HANDLE
	C.	obj-h	nandle
			field-value= The same as the one sent by the simulated agent.
			field-length = 2 bytes
			field-type = InvokeIDType
	b.	invoł	ke-id
			field-value = 0xE7 0x00 (PrstApdu)

TP ld		TP/PLT/MAN/OXP/DIM/BV-016							
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-MP-Grouped							
Coverage	Spec	[ISO/IEI	[ISO/IEEE 11073-20601A]						
	Testable items	EpiCfgS	piCfgScanEvent 24;C ObjAccessServ 2;M EpiCfgScanEv						
Test purpos	e	Check t	hat:						
		data; ar	nd it reports data in c		uped Events to report updated hall use a rors-cmip-confirmed-				
		[AND]							
				dic scanners, it shall support canner object events).	all the events identified in Table				
Applicability	1	C_MAN	OXP_000 AND C_	MAN_OXP_001 AND C_MAN	N_OXP_037				
Other PICS									
Initial condit	ion	The simulated agent and the manager under test are in the operating state.							
Test proced	ure	1. Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1.							
		2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".							
		 The simulated agent sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_MP_GROUPED) to the manager under test: 							
		4. The manager under test responds with a "rors-confirmed-event-report":							
		a. APDU Type							
			\Box field-length = 2	2 bytes					
			$\Box field-value = 0$	xE7 0x00 (PrstApdu)					
			invoke-id						
			□ field-type = Inv	vokeIDType					
			$\Box field-length = 2$	2 bytes					
			□ field-value= Th	ne same as the one sent by th	e simulated agent.				
		c.	obj-handle						
			□ field-type = HA	NDLE					

	□ 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
	<pre>field-value = 0x0D 0x27 (MDC_NOTI_UNBUF_SCAN_REPORT_MP_GROUPED)</pre>
Pass/Fail criteria	The format of the received message must be the one specified.
Notes	

TP Id		TP/PLT/MAN/OXP/DIM/BV-019						
TP label		PeriCfgScanner Class events. Buf-Scan-Report-Grouped						
Coverage	Spec	[ISO/IE	[ISO/IEEE 11073-20601A]					
	Testable items	PeriCfg	ScanEvent 12;C	ObjAccessServ 2;M	PeriCfgScanEvent 27; C			
Test purpos	e	Check t	hat:					
		updated	d data; and it reports d	anner uses Buf-Scan-Report-G ata in confirmed mode, a Mana tion to acknowledge the operat	ager shall use a rors-cmip-			
		[AND]						
			nager supports periodi ic configurable scanne		he events identified in Table 18			
Applicability	/	C_MAN	I_OXP_000 AND C_M	IAN_OXP_006				
Other PICS								
Initial condi	tion	The sim	nulated agent and the	manager under test are in the o	operating state.			
Test proced	ure	 Make the manager under test set the OperationalState attribute of a periodic scanner of the simulated agent to 1: 						
		a.	APDU Type					
			□ field-length = 2 bytes					
			□ field-value = 0xl					
		b.	invoke-id					
			□ field-type = Invo	keIDType				
			$\Box field-length = 2$	bytes				
			□ field-value= The	same as the one sent by the s	simulated agent.			
		с.	CHOICE					
			\Box value = 0x01 0x	05 (roiv-cmip-confirmed-set)				
		d.	obj-handle					
			□ field-type = Sca	nner HANDLE				
			$\Box field-length = 2$	bytes				
			□ field-value = 20	<handle of="" periodic="" scanned<="" td="" the=""><td>er></td></handle>	er>			
		e.	Modification-list					
			modify-operator	.count = 1				
			modify-operator	.length = 2 bytes				
			modify-operator	.value = 0 (replace)				
			attribute.type =	0x09 0x53 (MDC_ATTR_OP_S	STAT)			
			attribute.value =	: 1				

	2.	The simulated agent responds to the message with a "rors-cmip-confirmed-set".
	3.	The simulated agent sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_GROUPED) to the manager under test:
	4.	The manager 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 agent.
		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/MAN/OXP/DIM/BV-022						
TP label		PeriCfgScanner Class events. Buf-Scan-Report-MP-Grouped						
Coverage	Spec	[ISO/IEEE 11073-20601A]						
_	Testable items	PeriCfgScanEvent 24;C	ObjAccessServ 2;M	PeriCfgScanEvent 27; C				
Test purpos	se	Check that:						
		If a Periodic Configurable Scanner uses Buf-Scan-Report-MP-Grouped Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip- confirmed-event-report operation to acknowledge the operation.						
		[AND]						
		If a manager supports periodic scanners, it shall support all the events identified in Table 18 (Periodic configurable scanner object events).						
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_006 AND C_MAN_OXP_037						
Other PICS								
Initial condi	tion	The simulated agent and the manager under test are in the operating state.						
Test proced	lure	1. Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1.						
		2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".						
		 The simulated agent sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_MP_GROUPED) to the manager under test: 						
		4. The manager under test responds with a "rors-confirmed-event-report":						
		a. APDU Type						
		$\Box field-length = 2 \text{ bytes}$						
		☐ 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 agent.
	c.	obj-handle
		□ field-type = HANDLE
		$\Box field-length = 2 \text{ bytes}$
		□ field-value =20 <handle of="" periodic="" scanner="" the=""></handle>
	d.	event-type (rors-confirmed-event-report)
		□ field-type = OID-Type
		□ field-length =2 bytes
		<pre>field-value = 0x0D 0x2D (MDC_NOTI_BUF_SCAN_REPORT_MP_GROUPED)</pre>
Pass/Fail criteria	The for	nat of the received message must be the one specified.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-024						
TP label	TP label		Information Model Extensibility rules 2					
Coverage	Spec	[ISO/IEEE 11073-20601A]						
	Testable items	InfoExt	2;M					
Test purpos	e	Check t	hat:					
		An implementation of a Manager system shall process a message fully by skipping any unknown attributes (e.g. vendor specified attributes) and ignoring the assigned data values of such attributes, without protocol errors. The implementation may log the occurrence of such attributes as appropriate.						
Applicability	y	C_MAN	_OXP_000					
Other PICS								
Initial condi	tion	The sim	ulated agent and	the manager ur	nder test are in t	he unassociated state.		
Test proced	lure	 The simulated agent sends an AARQ with an extended dev-config-id previously unknown to the manager under test. 						
		2. The	e manager under	test sends an A	ARE with an "ad	ccepted-unknown-config".		
			e simulated agen nown vendor att			oort whose first object has a 0x01):	1	
		a.	0xF0 0x01					
			value.lengt	h = 2				
			□ value = 0xF	FF 0xFF				
		b.	The rest of the standard config		he same as one	of the manager supported		
		4. The	e manager answe	ers the configura	tion event repor	t and reaches the operating	state.	
		5. The simulated agent sends a confirmed fixed event report (sending		report (sending a known att	ribute).			
		6. The manager sends a rors-cmip-confirmed-event-report for data ser			port for data sent in step 5.			
			e simulated agen mown attribute:	t sends a confirn	ned Variable eve	ent report updating the valu	e of the	
		a.	obj-handle = 1					
		b.	0xF0 0x01					
			value.lengt	h = 2				

	value = 0xFF 0xFE		
	 The manager sends a rors-cmip-confirmed-event-report message for data sent in step 7. 		
	9. The simulated agent sends a confirmed fixed event report (sending a known attribute		
	10. The manager sends a rors-cmip-confirmed-event-report for data sent in step 9.		
Pass/Fail criteria	• The manager shall ignore the private nomenclature code and moves to operating state		
	In step 5 the response cannot be an abort message		
	 The manager 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 ld		TP/PLT/MAN/OXP/DIM/BV-025			
TP label		Manager State Machine: Association Response Format			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
-	Testable items	ManagerStateMach 65; M	AssocResp 2;M	AssocResp 8; M	
		AssocResp 9; M	AssocResp 10; M	AssocResp 11; M	
	Spec	[ITU-T H.810 (2015)]	TU-T H.810 (2015)]		
	Testable items	General 4; M			
Test purpose		Check that:			
		If aarq received while in unassociated state, a manager 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 Manager, 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 manager 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 manager if the result field is equal to accepted or accepted-unknown-config.			
The functional-units field indicates the common functional units and chosen by the manager if the result field is equal to accepted or ac					
		The system-type field contains the system type.			
		The system-id field has the unique system ID of the manager			
		[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 11073-20601A-		
Applicability	C_MAN_OXP_000		
Other PICS			
Initial condition	The simulated agent and the manager under test are in the unassociated state.		
Test procedure	1. The simulated agent sends an Association Request to the manager 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) 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_023 OR C_MAN_OXP_030) THEN dev-config-id set to an extended dev-config-id. 		
	encoding rules=0xE0 0x00		
	D protocol-version		
	 IF the manager applies for Basic ECG certification only THEN protocol- version = 0x40 0x00 0x00 0x00 		
	 ELSE protocol-version = 0x80 0x00 0x00 0x00 		
	nomenclature-version= 0x80 0x00 0x00 0x00		
	$\Box \text{functional-units} = 0x00 \ 0x00 \ 0x00 \ 0x00$		
	□ system-type = 0x00 0x80 0x00 0x00		
	data-req-mode-capab =		
	 data-req-mode-flags = 0x00 0x01 		
	 data-req-init-agent-count = 1 		
	 data-req-init-manager-count = 0 		
	option-list = <absent></absent>		
	2. The manager 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 = DataProtoId		
	 field.length = 2 bytes 		
	 field.value = <the aarq="" in="" one="" sent="" the=""></the> 		
	 d. The DataProto.Info field must contain two bytes indicating the data-proto- info.length 		
	e. protocol-version		
	field-type = Protocol Version		
	 field-length =BITS-32 		
	 IF the manager applies for Basic ECG certification only THEN 		
	 IF the manager applies for Basic ECG definication 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
	 field-value = 0x80 0x00 0x00 0x00
	 This value shows that version 1 of the data exchange protocol is supported (assoc-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
	i. 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 pixits="" with=""></check>
	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.

N1 <i>A</i>	
Notes	
110100	

TP ld		TP/PLT/MAN/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]				
	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-Value-Map] attribute shall be MDC_ATTR_NU_VAL_OBS_SIMP, then MDC_ATTR_TIME_STAMP_ABS				
Applicability	/	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 agent and the manager under test are in the operating state using the standard configuration.				
Test proced	ure	IF C_MAN_OXP_019 (the manager supports glucose meter specialization)				
		 The simulated agent 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 agent waits until it receives a confirmation from the manager under test.				
		IF C_MAN_OXP_020 (the manager supports blood pressure monitor specialization)				
		 The simulated agent 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. 				
		 The simulated agent waits until it receives a confirmation from the manager under test. 				
		IF C_MAN_OXP_024 (the manager supports weighing scales specialization)				

	 The simulated agent 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 agent waits until it receives a confirmation from the manager under test.
	IF C_MAN_OXP_025 (the manager supports thermometer specialization)
	 The simulated agent 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 agent waits until it receives a confirmation from the manager under test.
	IF C_MAN_OXP_016 (the manager supports adherence monitor specialization)
	 The simulated agent 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 agent waits until it receives a confirmation from the manager under test.
	IF C_MAN_OXP_018 (the manager supports peak flow specialization)
	 The simulated agent 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 agent waits until it receives a confirmation from the manager under test.
	IF C_MAN_OXP_027 (the manager supports body composition analyser specialization)
	 The simulated agent 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
	2. The simulated agent waits until it receives a confirmation from the manager under test.
Pass/Fail criteria	Verify that the manager 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).
Notes	, , , , , , , , , , , , , , , , , , , ,
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TP Id		TP/PLT/MAN/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]	[ISO/IEEE 11073-10407]				
	cxdTest able 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 is not adjusted, the [Absolute-Time-Stamp] attribute is mandatory; otherwise, the conditions from ISO/IEEE P11073-20601 apply.					
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 agent and the manager under test are in the operating state using the standard configuration.					
Test procedure	IF C_MAN_OXP_020 (the manager supports blood pressure monitor specialization)					
	 The simulated agent 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). 					
	 The simulated agent waits until it receives a confirmation from the manager under test. 					
	IF C_MAN_OXP_024 (the manager supports weighing scales specialization)					
	 The simulated agent 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 agent waits until it receives a confirmation from the manager under test.					
	IF C_MAN_OXP_025 (the manager supports thermometer specialization)					
	 The simulated agent 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). 					
	 The simulated agent waits until it receives a confirmation from the manager under test. 					
	IF C_MAN_OXP_026 (the manager supports pulse oximeter specialization)					
	 The simulated agent sends a confirmed variable event report for handle 1 (SpO₂ 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, sec-fractions = 0x90 and an observation (in that order). 					
	 The simulated agent waits until it receives a confirmation from the manager under test. 					
Pass/Fail criteria	Verify that the manager 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 Id TP/PLT/MAN/OXP/DIM/BV-038				
TP label EpiCfgScanner Class events. Unbuf-Scan-Report-Var				
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	EpiCfgScanEvent 4; C	EpiCfgScanEvent 34; C	
Test purpose		Check that:		
		If an Episodic Scanner uses Unbuf-Scan-Report-Var Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.		

	[AND]			
	If a manager 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			
Other PICS				
Initial condition	The simulated agent and the manager under test are in the operating state.			
Test procedure	1. Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1.			
	2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".			
	 The simulated agent sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_VAR) to the manager under test: 			
	4. The manager under test responds with a "rors-confirmed-event-report":			
	a. APDU Type			
	$\Box field-length = 2 \text{ bytes}$			
	field-value = 0xE7 0x00 (PrstApdu)			
	b. invoke-id			
	field-type = InvokeIDType			
	$\Box field-length = 2 \text{ bytes}$			
	field-value= The same as the one sent by the simulated agent.			
	c. obj-handle			
	□ field-type = HANDLE			
	$\Box field-length = 2 \text{ bytes}$			
	□ 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_VAR)			
Pass/Fail criteria	The format of the received messages in steps 1 and 4 must be the one specified.			
Notes				

TP ld	TP Id TP/PLT/MAN/OXP/DIM/BV-039				
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-MP-Var			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	EpiCfgScanEvent 16;C EpiCfgScanEvent 34; C			
Test purpos	е	Check that:			
		If an Episodic Scanner uses Unbuf-Scan-Report-MP-Var Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip-confirmed-event- report operation to acknowledge the operation.			
		[AND]			
		If a manager 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		XP_037			
Other PICS					
Initial condition		The simulated agent and the manager under test are in the operating state.			
Test procedure 1. Make the manager under the		1. Make the manager unde	r test set the OperationalState a	ttribute of an Episodic	

		Scanner of the simulated agent to 1.		
	2.	The	simulated agent responds to the message with a "rors-cmip-confirmed-set".	
	3.	The simulated agent sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_MP_VAR) to the manager under test:		
	4.	The manager 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	
			$\Box field-length = 2 \text{ bytes}$	
		□ field-value= The same as the one sent by the simulated agent.		
		c. obj-handle		
			□ field-type = HANDLE	
			$\Box field-length = 2 \text{ bytes}$	
		□ 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 0x27 (MDC_NOTI_UNBUF_SCAN_REPORT_MP_VAR)	
Pass/Fail criteria	The	e format of the received message must be the one specified.		
Notes				

TP ld		TP/PLT/MAN/OXP/DIM/BV-040				
TP label		PeriCfgScanner Class events. Buf-Scan-Report-Var				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	PeriCfgScanEvent 4;C	PeriCfgScanEvent 4;C PeriCfgScanEvent 27; C			
Test purpose		Check that:				
		If an Periodic Configurable Scanner uses Buf-Scan-Report-Var Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.				
		[AND]				
		If a manager 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	ondition The simulated agent and the manager under test are in the operating state.			perating state.		
Test proced	ure	1. Make the manager under test set the OperationalState attribute of a periodic scanner of the simulated agent to 1.				
		2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".				
		 The simulated agent sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_VAR) to the manager under test: 				
		4. The manager under test responds with a "rors-confirmed-event-report":				
		a. APDU Type				
		$\Box field-length = 2 \text{ bytes}$				
		□ field-value = 0xE7 0x00 (PrstApdu)				

	b.	invoke-id
		□ field-type = InvokeIDType
		$\Box field-length = 2 \text{ bytes}$
		□ field-value= The same as the one sent by the simulated agent.
	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_VAR)
Pass/Fail criteria	The form	nat of the received message must be the one specified.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-041			
TP label	T	PeriCfgScanner Class events. Buf-Scan-Report-MP-Var			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	PeriCfgSc	anEvent 16;C	PeriCfgScanEvent 27; C	
Test purpos	e	Check tha	t:		
		If a Periodic Configurable Scanner uses Buf-Scan-Report-MP-Var Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.			
		[AND]			
			ger supports periodic configurable scanne	c scanners, it shall support all th r object events).	e events identified in Table 18
Applicability	/	C_MAN_C	DXP_000 AND C_M	AN_OXP_006 AND C_MAN_O	XP_037
Other PICS					
Initial condi	tion	The simul	ated agent and the r	manager under test are in the op	perating state.
Test proced	Test procedure		1. Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1.		
		2. The s	imulated agent resp	oonds to the message with a "ro	rs-cmip-confirmed-set".
		 The simulated agent sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_MP_VAR) to the manager under test: 			
		4. The n	nanager under test r	responds with a "rors-confirmed	-event-report":
		a. A	APDU Type		
			field-length = 2 k	oytes	
			field-value = 0xE	E7 0x00 (PrstApdu)	
		b. iı	nvoke-id		
			ield-type = Invo		
			i field-length = 2 k		
		_		same as the one sent by the si	mulated agent.
		_	bj-handle		
		_	field-type = HAN		
			field-length = 2 k	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 0x2D (MDC_NOTI_BUF_SCAN_REPORT_MP_VAR)
Pass/Fail criteria	The format of the received message must be the one specified.
Notes	

TP ld		TP/PLT/MAN/OXP/DIM/BV-042			
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-Fixed			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	EpiCfgScanEvent 8; C EpiCfgScanEvent 34; C			
Test purpos	е	Check that:			
		If an Episodic Scanner uses Unbuf-Scan-Report-Fixed Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.			
		[AND]			
		If a manager 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			
Other PICS					
Initial condit	tion	The simulated agent and the manager under test are in the operating state.			
Test proced	ure	 Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1. 			
		2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".			
		 The simulated agent sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_FIXED) to the manager under test: 			
		4. The manager 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			
		$\Box field-length = 2 \text{ bytes}$			
		field-value= The same as the one sent by the simulated agent.			
		c. obj-handle			
		field-type = HANDLE			
		$\Box field-length = 2 \text{ bytes}$			
		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_FIXED)			
Pass/Fail cri	iteria	The format of the received messages in steps 1 and 4 must be the one specified.			
Notes					

TP ld	TP/PLT/MAN/OXP/DIM/BV-043					
TP label		EpiCfgScanner Class events. Unbuf-Scan-Report-MP-Fixed				
Coverage	overage Spec		[ISO/IEEE 11073-20601A]			
	Testable items	EpiCfg	ScanEvent 20;C	EpiCfgScanEvent 34; C		
Test purpos	e	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 Manager shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.				
		[AND]				
			nager supports episoo sodic configurable sca	lic scanners, it shall support all t anner object events).	he events identified in Table	
Applicability	1	C_MAN	OXP_000 AND C_N	MAN_OXP_001 AND C_MAN_O	XP_037	
Other PICS						
Initial condit	ion	The sin	nulated agent and the	manager under test are in the o	perating state.	
Test proced	ure	 Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1. 				
		2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".				
		 The simulated agent sends a confirmed event report of the episodic scanner (MDC_NOTI_UNBUF_SCAN_REPORT_MP_FIXED) to the manager under test: 				
		4. Th	e manager under test	responds with a "rors-confirmed	l-event-report":	
		a.	APDU Type			
			$\Box field-length = 2$	bytes		
			$\Box field-value = 0x$	E7 0x00 (PrstApdu)		
		b.	invoke-id			
			□ field-type = Invo	bkeIDType		
			$\Box field-length = 2$	bytes		
			□ field-value= The	e same as the one sent by the si	imulated agent.	
		C.	obj-handle			
			□ field-type = HAI	NDLE		
			$\Box field-length = 2$	bytes		
			□ field-value = 21	<handle episodic="" of="" scanne<="" td="" the=""><td>er></td></handle>	er>	
		d.	event-type (rors-cor	firmed-event-report)		
			□ field-type = OID			
			□ field-length =2 l	bytes		
			□ field-value = 0x	0D 0x27 (MDC_NOTI_UNBUF_	SCAN_REPORT_MP_FIXED)	
Pass/Fail cri	teria	The for	mat of the received m	essage must be the one specifie	ed.	
Notes						

TP ld		TP/PLT/MAN/OXP/DIM/BV-04	14	
TP label		PeriCfgScanner Class events	. Buf-Scan-Report-Fixed	
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	PeriCfgScanEvent 8;C	PeriCfgScanEvent 27; C	

Test purpose	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 Manager shall use a rors-cmip-confirmed-event-report operation to acknowledge the operation.
	[AND]
	If a manager 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 agent and the manager under test are in the operating state.
Test procedure	1. Make the manager under test set the OperationalState attribute of a periodic scanner of the simulated agent to 1.
	2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".
	 The simulated agent sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_FIXED) to the manager under test:
	4. The manager under test responds with a "rors-confirmed-event-report":
	a. APDU Type
	$\Box field-length = 2 \text{ bytes}$
	□ field-value = 0xE7 0x00 (PrstApdu)
	b. invoke-id
	field-type = InvokeIDType
	$\Box field-length = 2 \text{ bytes}$
	field-value= The same as the one sent by the simulated agent.
	c. obj-handle
	□ field-type = HANDLE
	$\Box field-length = 2 \text{ bytes}$
	□ 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_FIXED)
Pass/Fail criteria	The format of the received message must be the one specified.
Notes	

TP ld		TP/PLT/MAN/OXP/DIM/BV-045		
TP label		PeriCfgScanner Class events. Buf-Scan-Report-MP-Fixed		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	PeriCfgScanEvent 20;C	PeriCfgScanEvent 27; C	
Test purpos	e	Check that:		
u		If an Periodic Configurable Scanner uses Buf-Scan-Report-MP-Fixed Events to report updated data; and it reports data in confirmed mode, a Manager shall use a rors-cmip- confirmed-event-report operation to acknowledge the operation.		
		[AND]		
	If a manager supports periodic scanners, it shall support all the events identified in Ta (Periodic configurable scanner object events).			e events identified in Table 18
Applicability	1	C_MAN_OXP_000 AND C_MAN_OXP_006 AND C_MAN_OXP_037		

Other PICS			
Initial condition	The simulated agent and the manager under test are in the operating state.		
Test procedure	1. Make the manager under test set the OperationalState attribute of an episodic scanner of the simulated agent to 1.		
	2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".		
	 The simulated agent sends a confirmed event report of the periodic scanner (MDC_NOTI_BUF_SCAN_REPORT_MP_FIXED) to the manager under test: 		
	4. The manager under test responds with a "rors-confirmed-event-report":		
	a. APDU Type		
	$\Box field-length = 2 \text{ bytes}$		
	□ field-value = 0xE7 0x00 (PrstApdu)		
	b. invoke-id		
	field-type = InvokeIDType		
	$\Box field-length = 2 \text{ bytes}$		
	□ field-value= The same as the one sent by the simulated agent.		
	c. obj-handle		
	field-type = HANDLE		
	$\Box field-length = 2 \text{ bytes}$		
	□ 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 0x2D (MDC_NOTI_BUF_SCAN_REPORT_MP_FIXED)		
Pass/Fail criteria	The format of the received message must be the one specified.		
Notes			

TP Id		TP/PLT/MAN/OXP/DIM/BV-046
TP label		Scan Handle List - Fixed & Variable format event report
Coverage	Spec	[ISO/IEEE 11073-20601A]
	Testable items	ScanClassAttr 5;M
Test purpos	e	Check that:
		If the [Scan-Handle-List] attribute is included in the [Scanner object], the Manager shall not assume the order of the objects contained in the event reports is the same as the order of the Scan-Handle-List.
Applicability	y	C_MAN_OXP_000 AND (C_MAN_OXP_001 OR C_MAN_OXP_006) AND (C_MAN_OXP_016 OR C_MAN_OXP_018 OR C_MAN_OXP_019 OR C_MAN_OXP_020 OR C_MAN_OXP_026 OR C_MAN_OXP_027 OR C_MAN_OXP_030 OR C_MAN_OXP_067 OR (C_MAN_OXP_022 AND (C_MAN_ST_001 OR C_MAN_ST_002 OR C_MAN_ST_003 OR C_MAN_ST_004 OR C_MAN_ST_005 OR C_MAN_ST_006 OR C_MAN_ST_007)) OR (MAN_OXP_023 AND (C_MAN_CV_001 OR C_MAN_ST_002 OR C_MAN_CV_003 OR C_MAN_CV_004 OR C_MAN_CV_005 OR C_MAN_CV_002 OR C_MAN_CV_003 OR C_MAN_CV_004 OR C_MAN_CV_005 OR C_MAN_CV_006 OR C_MAN_CV_007 OR C_MAN_CV_008 OR C_MAN_CV_009 OR C_MAN_CV_010 OR C_MAN_CV_011 OR C_MAN_CV_012 OR C_MAN_CV_013 OR C_MAN_CV_014 OR C_MAN_CV_015 OR C_MAN_CV_016 OR C_MAN_CV_017 OR C_MAN_CV_018 OR C_MAN_CV_019 OR C_MAN_CV_020 OR C_MAN_CV_025 OR C_MAN_CV_022 OR C_MAN_CV_023 OR C_MAN_CV_028 OR C_MAN_CV_029))
Other PICS		

Initial condition	The simulated agent and the manager under test are in the operating state using the extended configuration that contains at least two metric objects and one scanner object.
Test procedure	 Make the manager under test set the OperationalState attribute of a periodic scanner or episodic scanner, whichever is supported by the manager, of the simulated agent to 1.
	2. The simulated agent responds to the message with a "rors-cmip-confirmed-set".
	 The simulated agent sends a Confirmed Variable Scanner object report of the periodic/episodic scanner (MDC_NOTI_BUF_SCAN_REPORT_VAR/ MDC_NOTI_UNBUF_SCAN_REPORT_VAR) to the manager under test. The order of the objects in the Variable Scanner Object Event is different from the order established in Scan-Handle-List attribute.
	4. The manager under test responds with a "rors-confirmed-event-report".
	 The simulated agent 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 manager 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.
	6. The manager under test responds with a "rors-confirmed-event-report":
Pass/Fail criteria	Verify that the manager 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.
Notes	

TP ld		TP/PLT/MAN/OXP/DIM/BV-047		
TP label		Not configuring a real-time clock		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	AbsTime 7;M		
Test purpos	e	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 manager shall not attempt to set the clock.		
Applicability	y	C_MAN_OXP_000		
Other PICS				
Initial condi	The simulated agent and the manager under test are in the unassociated state. The has the MDSTimeInfo attribute with the mds-time-mgr-set-time and mds-time-capab- clock bits set to 0.			
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test.		
		2. IF the manager sends a GET request while it is in the configuring state, the simulated agent sends rors-cmip-get with MDS attributes.		
		3. Wait until the operating state is reached.		
		 If the manager under test did not set automatically the GET Mds in the configuring state, force the manager to request MDS attributes. 		
		5. The simulated agent sends rors-cmip-get with MDS attributes.		
		6. The manager under test shall not set the time of the simulated agent.		
Pass/Fail cr	iteria	Verify that the manager does not send the Set-Time message.		
Notes				

TP ld		TP/PLT/MAN/OXP/DIM/BV-048
TP label		Not supported specialization - Glucose meter
Coverage Spec		[ISO/IEEE 11073-20601A]

	Testable items	ManagerProc 3;M
Test purpose		Check that:
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.
Applicability		C_MAN_OXP_000 AND NOT(C_MAN_OXP_055)
Other PICS		
Initial condit	ion	The simulated agent and the manager under test are in the unassociated state.
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x06 0xA4 (glucose meter).
		2. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x06 0xA4 and including the glucose meter standard configuration objects.
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or Abort THEN the manager shall not move to the operating state and the test procedure ends.
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
		 If the manager under test responds with a roer, rorj, rlrq or Abort then the test procedure ends.
		ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
		 a. If the manager under test responds with a roer, rorj, rlrq or Abort then the test procedure ends.
		 If the manager 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 cri	teria	• In step 2 or step 3.a, the manager does not move to the operating state.
		 In step 3.b or step 4, the manager does not accept the received measurement or if manager accepts the measurement then it shall not store or display the received measurement.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-049
TP label		Not supported specialization - Blood Pressure Monitor
Coverage Spec Testable items		[ISO/IEEE 11073-20601A]
		ManagerProc 3;M
Test purpose		Check that: Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.
Applicability		C_MAN_OXP_000 AND NOT(C_MAN_OXP_056)
Other PICS		

Initial condition	The simulated agent and the manager under test are in the unassociated state.
Test procedure	1. The simulated agent sends an Association Request to the manager under test with dev-config-id set to 0x02 0xBC (blood pressure monitor).
	 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.
	3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with config-report-id set to 0x02 0xBC and including blood pressure monitor standard configuration objects.
	a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or Abort THEN the manager shall not move to operating state and the test procedure ends.
	b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If the manager under test responds with a roer, rorj, rlrq or Abort then the tes procedure ends.
	 ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
	a. If the manager under test responds with a roer, rorj, rlrq or Abort then the test procedure ends.
	 b. If the manager under test responds with a rors-cmip-confirmed-event-report then shall not store or display the received measurement and the test procedure ends.
Pass/Fail criteria	• In step 2 or step 3.a, the manager does not move to the operating state.
	 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/MAN/OXP/DIM/BV-050		
TP label		Not supported specialization - Independent living activity hub		
Coverage Spec		[ISO/IEEE 11073-20601A]		
	Testable items	ManagerProc 3;M		
Test purpos	se	Check that:		
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.		
Applicability		C_MAN_OXP_000 AND NOT(C_MAN_OXP_057)		
Other PICS				
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.		
Test procedure		1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to an extended Config-Id.		
		2. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.		
		 IF the manager under test responds with an Association Response (accepted- unknown-config) THEN simulated agent sends a configuration event report including an extended configuration for the independent living activity hub. 		

	a. IF the manager under test responds with rors-cmip-confirmed-event-report (unsupported-config) or a Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends.
	b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration for every object present in the configuration:
	 If the manager under test responds with a roer, rorj, rlrq or an Abort then test procedure ends.
	If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration for every object present in the configuration:
	 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.
	 b. If the manager 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 manager does not move to the operating state.
	• In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/MAN/OXP/DIM/BV-051			
TP label		Not supported specialization - Strength fitness equipment			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerProc 3;M			
Test purpos	e	Check that:			
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_058)			
Other PICS					
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.			
Test procedure		 The simulated agent sends an Association Request to the manager under test with the dev-config-id set to an extended Config-Id. 			
		 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 			
		 IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report including an extended configuration for the strength fitness equipment. 			
		 a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends. 			
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:			
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 			

	ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
	 If the manager under test responds with a roer, rorj, rlrq or an Abort then test procedure ends.
	 b. If the manager 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 manager does not move to the operating state. In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.
Notes	

TP ld		TP/PLT/MAN/OXP/DIM/BV-052		
TP label		Not supported specialization - Cardiovascular fitness and activity monitor		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	ManagerProc 3;M		
Test purpos	е	Check that:		
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.		
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_059)		
Other PICS				
Initial condit	tion	The simulated agent and the manager under test are in the unassociated state.		
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to an extended Config-Id.		
		2. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.		
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report including an extended configuration for the cardiovascular fitness and activity monitor.		
		 a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends. 		
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:		
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 		
		ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:		
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 		
		 If the manager 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 manager does not move to the operating state.
	 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.
Notes	

Spec Testable items	[ISO/ Mana	Supported specialization - Weighing scale (IEEE 11073-20601A] agerProc 3;M
Testable items	Mana	
items		agerProc 3;M
•	Chec	
		k that:
		ialization ,declared by the vendor as "not supported", is really not supported by the ager under test.
	C_M	AN_OXP_000 AND NOT(C_MAN_OXP_060)
on	The s	simulated agent and the manager under test are in the unassociated state.
re		The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x05 0xDC (weighing scales).
	/	F the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.
	t	F the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x05 0xDC and including weighing scales standard configuration objects.
	á	a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall no move to the operating state and the test procedure ends.
	ł	D. IF the manager under test responds with rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every objec present in the configuration:
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.
		ii. If the manager 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.
	t	F the manager under test responds with an Association Response (accepted) THEN he manager moves to the operating state, the simulated agent sends a confirmed ixed event report with one measurement for every object present in the configuration:
	á	a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.
	k	b. If the manager 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.
eria	•	n step 2 or step 3.a, the manager does not move to the operating state.
	r	n step 3.b or step 4, the manager does not accept the received measurement or if the nanager accepts the measurement then it shall not store or display the received neasurement.
	re	re 1. 7 2. 1 3. 1 4. 1 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

TP ld		TP/PLT/MAN/OXP/DIM/BV-054
TP label		Not supported specialization - Thermometer
Coverage Spec		[ISO/IEEE 11073-20601A]
	Testable items	ManagerProc 3;M
Test purpos	e	Check that:
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.
Applicability	1	C_MAN_OXP_000 AND NOT(C_MAN_OXP_061)
Other PICS		
Initial condit	ion	The simulated agent and the manager under test are in the unassociated state.
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x03 0x20 (thermometer).
		2. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x03 0x20 and including thermometer standard configuration objects.
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends.
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.
		If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:
		a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.
		 b. If the manager 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 cri	teria	• In step 2 or step 3.a, the manager does not move to the operating state.
		 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.
Notes		

TP ld		TP/PLT/MAN/OXP/DIM/BV-055		
TP label		Not supported specialization - Pulse Oximeter		
Coverage Spec		[ISO/IEEE 11073-20601A]		
	Testable Items	ManagerProc 3;M		
Test purpose		Check that:		
		Specialization ,declared by th Manager under test.	ne vendor as "not supported", is re	eally not supported by the

Applicability	C_MAN_OXP_000 AND NOT(C_MAN_OXP_062)			
Other PICS				
Initial condition	The simulated agent and the manager under test are in the unassociated state.			
Test procedure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x01 0x90 (pulse oximeter).			
	 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 			
	3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x01 0x90 and including the pulse oximeter standard configuration objects.			
	 a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall no move to the operating state and the test procedure ends. 			
	b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a unconfirmed fixed event report with one measurement for every object present in the configuration:			
	i. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.			
	 If time-out expires and no message is received the manager shall not store or display the received measurement and the test procedure ends. 			
	4. IF the manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a unconfirmed fixed event report with one measurement for every object present in the configuration:			
	a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.			
	 b. If time-out expires and no message is received the manager shall not store or display the received measurement and the test procedure ends. 			
Pass/Fail criteria	• In step 2 or step 3.a, the manager does not move to operating state.			
	 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement. 			
Notes				

TP ld		TP/PLT/MAN/OXP/DIM/BV-056			
TP label		Not supported specialization - Adherence Monitor			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerProc 3;M			
Test purpos	Se .	Check that:			
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	y	C_MAN_OXP_000 AND NOT(C_MAN_OXP_052)			
Other PICS					
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.			
Test procedure		 The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x1C 0x20 (adherence monitor). 			
		 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 			

	1			
	3.	. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x1C 0x20 and including the adherence monitor standard configuration objects.		
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall n move to the operating state and the test procedure ends.		
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:		
		 If the manager under test responds with a roer, rorj, rIrq or an Abort then the test procedure ends. 		
		ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:		
		a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.		
		b. If the manager 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 manager does not move to the operating state.		
	•	In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.		
Notes				

TP ld		TP/PLT/MAN/OXP/DIM/BV-058			
TP label		Not supported specialization - Peak Flow			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerProc 3;M			
Test purpos	e	Check that:			
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	y	C_MAN_OXP_000 AND NOT(C_MAN_OXP_054)			
Other PICS					
Initial condi	tion	The simulated agent and manager under test are in the unassociated state.			
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x08 0x34 (peak flow).			
		 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 			
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x08 0x34 and including the peak flow standard configuration objects.			
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends.			
		 b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated 			

	1		
		agent sends a confirmed fixed event report with one measurement for every object present in the configuration:	
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 	
		ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:		
		a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.	
		b. If the manager 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 manager does not move to the operating state.		
	•	 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement. 	
Notes			

TP ld		TP/PLT/MAN/OXP/DIM/BV-059			
TP label		Not supported specialization - Body Composition Analyzer			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerProc 3;M			
Test purpos	e	Check that:			
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	y	C_MAN_OXP_000 AND NOT(C_MAN_OXP_051)			
Other PICS					
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.			
Test proced	lure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x07 0xD0 (body composition analyser).			
		2. IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends.			
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x07 0xD0 and including the body composition analyser configuration objects.			
		 a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends. 			
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:			
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 			
		If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:			

	a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.	
	b. If the manager 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 manager does not move to the operating state.	
	 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement. 	
Notes		

TP Id	TP/PLT/MAN/OXP/DIM/BV-060			
TP label	Not supported specialization - Basic ECG specialization/Heart Rate profile			
Coverage Spec	[ISO/IEEE 11073-20601A]			
Testable items	ManagerProc 3;M			
Test purpose	Check that:			
	Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	C_MAN_OXP_000 AND NOT(C_MAN_OXP_064)			
Other PICS				
Initial condition	The simulated agent and the manager under test are in the unassociated state.			
Test procedure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x02 0x58 (heart rate profile).			
	 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 			
	3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x02 0x58 and including the Heart Rate Profile configuration objects.			
	 a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends. 			
	b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:			
	 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 			
	ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:			
	 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 			
	 If the manager 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 manager does not move to the operating state.			
	• In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement.			
Notes				

TP ld		TP/PLT/MAN/OXP/DIM/BV-061				
TP label		Not supported specialization - Basic ECG specialization/Simple ECG profile				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerProc 3;M				
Test purpos	e	Check that:				
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.				
Applicability	/	C_MAN_OXP_000 AND NOT(C_MAN_OXP_065)				
Other PICS						
Initial condit	ion	The simulated agent and the manager under test are in the unassociated state.				
Test proced	ure	 The simulated agent sends an Association Request to the manager under test with the dev-config-id set to an extended Config-Id. 				
		 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 				
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent 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):				
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall no move to the operating state and the test procedure ends.				
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state and the test tool requests the test operator to enable the scanner:				
		i. If the manager does not enable the scanner then the test procedure ends.				
		ii. If the manager enables the scanner then the simulated agent sends a confirmed Unbuf-Scan-Report-Fixed with one measurement for RT-SA:				
		 If the manager under test responds with a roer, rorj, rlrq or an Abort ther the test procedure ends. 				
		 If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state and the test tool requests the test operator to enable the scanner:				
		a. If the manager does not enable the scanner then the test procedure ends.				
		 b. If the manager enables the scanner then the simulated agent sends a confirmed Unbuf-Scan-Report-Fixed with one measurement for RT-SA: 				
		i. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.				
		 If the manager 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 cri	teria	• In step 2 or step 3.a, the manager does not move to the operating state.				
		 In step 3.b or step 4, the manager does not accept the received measurement or if manager accepts the measurement then it shall not store or display the received measurement. 				

TP ld		TP/PLT/MAN/OXP/DIM/BV-062			
TP label		Not supported specialization - International Normalized Ratio			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerProc 3;M			
Test purpos	e	Check that:			
		Specialization ,declared by the vendor as "not supported", is really not supported by the Manager under test.			
Applicability	y	C_MAN_OXP_000 AND NOT(C_MAN_OXP_066)			
Other PICS					
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.			
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with the dev-config-id set to 0x07 0x08 (international normalized ratio).			
		 IF the manager under test responds with an Association Response (rejected-*) or an Abort, THEN the manager shall not move to the operating state and the test procedure ends. 			
		3. IF the manager under test responds with an Association Response (accepted- unknown-config) THEN the simulated agent sends a configuration event report with the config-report-id set to 0x07 0x08 and including the international normalized ratio configuration objects.			
		a. IF the manager under test responds with a rors-cmip-confirmed-event-report (unsupported-config) or Release Request or an Abort THEN the manager shall not move to the operating state and the test procedure ends.			
		b. IF the manager under test responds with a rors-cmip-confirmed-event-report (accepted-config) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every objec present in the configuration:			
		 If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends. 			
		ii. If the manager 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 manager under test responds with an Association Response (accepted) THEN the manager moves to the operating state, the simulated agent sends a confirmed fixed event report with one measurement for every object present in the configuration:			
		a. If the manager under test responds with a roer, rorj, rlrq or an Abort then the test procedure ends.			
		 If the manager 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 cr	iteria	• In step 2 or step 3.a, the manager does not move to the operating state.			
		 In step 3.b or step 4, the manager does not accept the received measurement or if the manager accepts the measurement then it shall not store or display the received measurement. 			

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

TP ld		TP/PLT/MAN/OXP/SER/BV-000					
TP label		Configuration event report. Configuration Response Format					
Coverage Spec Testable items		[ISO/IEEE 11073-20601A]					
		ObjAcce	essServ 2;M	ConfNormalProc 8;M			
Test purpos	е	Check th	nat:				
		Respons filling in	se Confirmed Even	[to the configuration event] with a t Report" message with an event- o structure or with an appropriate	type of MDC_NOTI_CONFIG		
Applicability	/	C_MAN_OXP_000					
Other PICS							
Initial condit	tion			e manager under test are in the ur configuration memorised.	nassociated state. The		
Test proced	ure			t sends an Association Request t on to the manager dev-config-id ir			
			manager under tes nown-config".	t responds with an Association Re	esponse with "accepted-		
			3. The simulated agent sends a configuration event report with an extend supported by the agent.				
		4. The	manager under tes	t must respond with:			
		5. Received message by the agent must be:					
		a. APDU Type					
			□ field-length =2 bytes				
			□ field-value =0x	E7 0x00 (PrstAdpu)			
		b.	Invoke-id				
			□ field-type = IN	r-U16			
			□ field-length =2	bytes			
			field-value= it r message.	nust be the same as the invoke-ic	d of the simulated agent's		
		c.	Obj-Handle:				
			□ field-type = HA	NDLE			
			□ field-length =2	bytes			
			$\Box field-value = 0 $	x00 0x00			
		d.	Event-time:				
			□ field-type = INT	r-U32			
			□ field-length =4	bytes			
			□ field-value: <re< td=""><td>elative time> OR <0xFF 0xFF 0xF</td><td>F 0xFF></td></re<>	elative time> OR <0xFF 0xFF 0xF	F 0xFF>		
		e.	Event-type:				
			$\Box field-length = 2$	bytes			
			□ field-value= 0x	0D 0x1C (MDC_NOTI_CONFIG			
		f.	The following six by	rtes indicates:			
			Event-replay-ir	fo.length (2 bytes)			
				sp.config-report-id:it must be the dagent's message	same as the config-report-id		
			ConfigReport	sp.config-result:One of:			

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

TP Id		TP/PLT/MAN/OXP/SER/BV-0				
TP label		Fixed format event report. Sin	gle-person unconfirmed event	t report.		
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable	ObjAccessServ 2;M	MeasureDataTransf 8;C	PersonEventRep 1;M		
	items	FormatEventRep 3;M				
	Spec	[ITU-T H.810 (2015)]	1			
	Testable items	Conformance 1; M				
Test purpos	е	Check that:				
		A Manager receiving a confirmed event report from the Agent shall respond with either a rors-cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.				
		[AND]				
		If an agent uses agent-initiated measurements and if the Unconfirmed Event Report is used, the Manager shall not respond.				
		[AND]				
		A Manager shall support sing	le-person event reports.			
		[AND]				
		A Manager shall support fixed	l format event reports.			
Applicability	/	C_MAN_OXP_000				
Other PICS						
Initial condition		The simulated agent and the manager under test are in the operating state.				
Test procedure		1. The simulated agent test sends an unconfirmed Fixed event report to the manager under test.				
		2. Verify that the manager under test does not send a confirmation.				
Pass/Fail cri	teria	In step 2 no confirmation can	be received by the simulated a	agent.		
Notes						

TP ld		TP/PLT/MAN/OXP/SER/BV-003_B			
TP label		Fixed format event report. Sir	format event report. Single-person confirmed event report.		
Coverage Spec		[ISO/IEEE 11073-20601A]			
	Testable	ObjAccessServ 2;M	MeasureDataTransf 7;C	PersonEventRep 1;M	
	items	FormatEventRep 3;M			
	Spec	[ITU-T H.810 (2015)]			
	Testable items	Conformance 1; M			
Test purpos	se	Check that:			
			ned event report from the Age port or an appropriate roer erro		
[AND]					

	A Manager shall support single-person event reports.		
	[AND]		
	A Manager shall support fixed format event reports.		
Applicability	C_MAN_OXP_000		
Other PICS			
Initial condition	The simulated agent and the manager under test are in the operating state.		
Test procedure	1. The simulated agent sends a confirmed Fixed event report to the manager under test.		
	 The manager under test sends a confirmation: 		
	a. APDU Type		
	$\Box \text{field-length} = 2 \text{ bytes}$		
	□ 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 agent'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:		
	$\Box field-length = 2 \text{ bytes}$		
	field-value= 0x0D 0x1D (MDC_NOTI_SCAN_REPORT_FIXED)		
	g. event-reply-info		
	$\Box \text{field-length} = 0 \text{ bytes } (0x00 \ 0x00)$		
	□ field-value= empty (0x00 0x00)		
Pass/Fail criteria	The confirmation message must be like the one specified.		
Notes			

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

Test purpose	Check that:	
	A Manager receiving a confirmed event report from the Agent shall respond with either a rors-cmip-confirmed-event-report or an appropriate roer error message with a suitable return code.	
	[AND]	
	If an agent uses agent-initiated measurements and if the Unconfirmed Event Report is used, the Manager shall not respond.	
	[AND]	
	A Manager shall support multi-person event reports.	
	[AND]	
	A Manager shall support fixed format event reports.	
Applicability	C_MAN_OXP_000	
Other PICS		
Initial condition	The simulated agent and the manager under test are in the operating state.	
Test procedure	1. The simulated agent test sends a unconfirmed Fixed Multiple Person event report to the manager under test.	
	2. The manager under test does not send a confirmation.	
Pass/Fail criteria	In step 2 no confirmation can be received by the simulated agent.	
Notes		

TP ld		TP/PLT/MAN/OXP/SER/BV-003_D			
TP label Fixed format event report. Multi-person confirmed event report.			eport.		
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ObjAccessServ 2;M	PersonEventRep 1;M	FormatEventRep 3;M	
	Spec	[ITU-T H.810 (2015)]			
	Testable items	Conformance 1; M			
Test purpos	se	Check that:			
			confirmed event report from the A ent-report or an appropriate roer e		
		[AND]			
		A Manager shall support multi-person event reports.			
		[AND]			
		A Manager shall support fixed format event reports.			
Applicability	y	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The simulated agent and	d the manager under test are in t	he operating state.	
Test proced	lure	 The simulated agent test sends a confirmed Fixed Multi Person event report to the manager under test. 			
		2. The manager under test sends a confirmation:			
		a. APDU Type			
		field-length	n =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 agent'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:
		$\Box field-length = 2 \text{ bytes}$
		□ field-value= 0x0D 0x1F (MDC_NOTI_SCAN_REPORT_MP_FIXED)
Pass/Fail criteria	The cor	firmation message must be like the one specified.
Notes		

TP ld		TP/PLT/MAN/OXP/SER/BV-003_E			
TP label		Variable format event report.		ent report.	
Coverage Spec		[ISO/IEEE 11073-20601A]			
eere age	Testable	ObjAccessServ 2;M			
	items	FormatEventRep 3;M	,		
	Spec	[ITU-T H.810 (2015)]			
	Testable items	Conformance 1; M			
Test purpos	e	Check that:			
		A Manager receiving a confirm rors-cmip-confirmed-event-rep return code.			
		[AND]			
		If an agent uses agent-initiated measurements and if the Unconfirmed Event Report is used, the Manager shall not respond.			
		[AND]			
		A Manager shall support singl	e-person event reports.		
		[AND]			
		A Manager shall support varia	ble format event reports.		
Applicability	y	C_MAN_OXP_000			
Other PICS					
Initial condition The simulated agent and the manager under test are in the operating state.			operating state.		
Test procedure		 The simulated agent test sends an unconfirmed variable event report to the manager 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 Agent's configuration. 			
		2. The manager under test of	cannot send a confirmation.		

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

TP ld		TP/PLT/MAN/OXP/SER/BV-003_F			
TP label		Variable format event report. Single-person confirmed event report.			
Coverage Spec		[ISO/IEEE 11073-20601A]			
	Testable	ObjAcc	essServ 2;M	MeasureDataTransf 7;C	PersonEventRep 1;M
	items	Format	EventRep 3;M		
	Spec	[ITU-T I	H.810 (2015)]		
	Testable items	Conforr	nance 1; M		
Test purpos	е	Check t	hat:		
			ip-confirmed-event-rep	ned event report from the Age port or an appropriate roer err	ent shall respond with either a or message with a suitable
		[AND]			
		A Mana	ger shall support sing	le-person event reports.	
		[AND]			
		A Mana	ger shall support varia	able format event reports.	
Applicability	/	C_MAN	I_OXP_000		
Other PICS					
Initial condition	tion	The sim	nulated agent and the	manager under test are in the	operating state.
Test proced	ure		e simulated agent test der test.	sends a confirmed variable e	vent report to the manager
		2. The	e manager 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 b	ytes	
			field-value= it m message.	ust be the same as the invoke	e-id of the simulated agent's
		с.	The following two by	tes indicates	
			message type= Report)	0x02 0x01 (Remote Operation	n Response Confirmed Event
		d.	Obj-Handle:		
			□ field-type = HAN	IDLE	
			□ field-length =2 b	ytes	
			□ field-value = 0 (I	MDS object)	
		e.	Event-time:		
			□ field-type = INT-	U32	
			□ field-length =4 b	ytes	
			☐ field-value: <not< td=""><td>relevant for this Test></td><td></td></not<>	relevant for this Test>	
		f.	Event-type:		
			□ field-length = 2 k	oytes	

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

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

	A Manager shall support variable format event reports.				
Applicability	C_MAN_OXP_000				
Other PICS					
Initial condition	The simulated agent and the manager under test are in the operating state.				
Test procedure	1. The simulated agent sends a confirmed Variable Multi Person event report to the manager under test.				
	2. The manager 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 Agent'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				
	$\Box field-value = 0 (MDS object)$				
	e. Event-time:				
	□ field-type = INT-U32				
	□ field-length =4 bytes				
	field-value: <not for="" relevant="" test="" this=""></not>				
	f. Event-type:				
	$\Box field-length = 2 \text{ bytes}$				
	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/MAN/OXP/SER/BV-004		
TP label		Multi-person support		
Coverage Spec		[ISO/IEEE 11073-20601A]		
	Testable items	PersonEventRep 1;M FormatEventRep 3;M		
Test purpose		[AND]	single-person and multi-person ble format and fixed format, and ped format event reports.	
Applicability		C_MAN_OXP_000		
Other PICS		C_MAN_OXP_037		
Initial condition		The simulated agent and the manager under test are in the operating state.		

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

TP ld		TP/PLT/MAN/OXP/SER/BV-005				
TP label		Reserved Value Standard Configuration				
Coverage Spec		[ISO/IEEE 11073-20601A]				
	Testable items	ConfEventRep 17	ζ;M			
Test purpos	e	Check that:				
		All unused values in the standard range are reserved for future use, A manager 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_025 OR C_MAN_OXP_026 OR C_MAN_OXP_027 OR C_MAN_OXP_029 OR C_MAN_OXP_067)				
Other PICS						
Initial condition		The simulated agent and the manager under test are in the unassociated state.				
Test procedure		1. The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the standard range (reserved value).				
		2. The manager 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) or 0x00 0x00 (accepted) or 0x00 0x07 (rejected-unauthorized) or 0x00 0x01 (rejected-permanent) or 0x00 0x06 (rejected-unknown)				
		3. IF the manager responds with "accepted-unknown-config", the simulated agent sen its configuration.				g", the simulated agent sends
		4. The manage unsupported		sends a configuratio	on response	with accepted-config or
Pass/Fail criteria		• The response of step 2 shall have a value = "accepted-unknown-config" or "accepted" or "rejected-unauthorized" or "rejected-permanent" or "rejected-unknown".				
		• The response config".	e of step 4 s	hall have a config-r	esult = "unsu	upported-config" or "accepted-
Notes						

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

TP ld		TP/PLT/MAN/OXP/COM/BV-004				
TP label		Manager State Machine:TO _{config}				
Coverage Spec		[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 1;M	ConfErrorCond 3;M			
Test purpos	e	Check that:				
		The Manager shall wait in the Waiting for Config state for at least TOconfig seconds before sending an Association Abort message				
		[AND]				
		The Manager shall wait at least TOconfig seconds in the Waiting for Configuration state for the configuration information prior to sending an Abort message and returning to the Unassociated state.				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.				
Test proced	lure	1. The simulated agent sends an Association Request to the manager under test with a dev-config-id unknown to the manager and set on the extended range.				
		 The manager under test responds with an Association Response with AssociateResult = "accepted-unknown-config". 				
		3. The simulated agent intentionally does not send its configuration at all.				
Pass/Fail cr	iteria	The manager under test waits for I_MAN_OXP_008 us and then sends an Abort message				
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/MAN/OXP/COM/BV-005				
TP label		Manager State Machine:Unsupported Config				
Coverage Spec		[ISO/IEEE 11073-20601A]				
	Testable ManagerState		ConfNormalProc 12 ;M			
Test purpos	e	Check that:				
		If the Manager does not accept the configuration, it shall send a configuration response with an unsupported-config result				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.				
Test procedure		1. Configure the simulated agent to support one specialization that is not supported by the manager and a second specialization that is supported by the manager. 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\$TAB\$.				
		2. The simulated agent sends an Association Request to the manager under test with a dev-config-id set to the unsupported device specialization (preferably a standard config).				
		3. The manager under test responds with an Association Response with AssociateResult = "accepted-unknown-config".				
		4. If the manager under test sends a GET request for the MDS object, the simulated agent shall respond with the MDS information.				
		5. If manager supports all specializations, the agent sends a Config Report with an				

extended config-id and only OEM Objects; otherwise, the simulated age Config report from the selected specialization that is not supported by th	
	6. The manager under test sends a config response.
Pass/Fail criteria The response of step 6 shall have a config-result = "unsupported-config". I result is not unsupported-config, the verdict is inconc.	
Notes	There is no guarantee that the manager will not accept the configuration.

		TP/PLT/MAN/OXP/COM/BV-006				
TP label		Manager State Machine:Accepted Config				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable	ConfEventRep 5;M	ConfEventRep 23;M	ManagerStateMach 3;M		
	items	ManagerProc 4;M	ConfNormalProc 11; M			
Test purpos	е	Check that:				
		If the Manager does not already know the Agent's device configuration (e.g. based on a previous association phase), the Manager asks for the Agent's device configuration.				
		[AND]				
		[If the configuration is not known] the Manager shall respond with an accepted-unknown- config response				
		[AND]				
		If the Manager accepts the configuration, it shall send a configuration response with an accepted-config result				
		[AND]				
		If the Manager does not recognize the value in the dev-config-id field, the Manager shall send an Association Response message with the result field set to accepted-unknown-config and transition to the Configuring state.				
		[AND]				
		If the Manager accepts the configuration, it responds with an accepted-config message and both Manager and Agent move to the Operating state.				
Applicability	,	C_MAN_OXP_000				
Other PICS		C_MAN_OXP_046				
Initial condit	tion		ne manager under test are in the	e unassociated state		
Test proced		1. The simulated agent s	ends an Association Request to ev-config-id set in the extended	o the manager under test with a		
		 The manager under test responds with an Association Response with result = "accepted-unknown-config". 				
		3. Wait until operating state is reached.				
		 The agent sends an abort message. 				
		5. The simulated agent sends the same Association Request to the manager as in step 5.				
		 IF C_MAN_OXP_046 = TRUE the manager under test responds with an Association Response: 				
		a. APDU Type				
		\Box field-length =2 bytes				
		☐ field-value =0xE3 0x00 (AareAdpu)				
		b. Result				
		□ field-length =2 bytes				
		□ field-value =0x00 0x00 (accepted)				
		IF C_MAN_OXP_046 = FALSE the manager 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)
Pass/Fail criteria	The format of the received message in step 6 must be the one specified.
Notes	

TP ld		TP/PLT/MAN/OXP/COM/BV-007_A						
TP label		Manager State machine:Operating - Unassociated 1						
Coverage	Spec	[ISO/IEEE 11073-20601A]						
	Testable	ConfEventF	Rep 22;M	ManagerStateMach 49;M	ManagerProc 3;M			
	items	ConfExitCo	nd 1;M					
Test purpos	e	Check that:						
		If the Manager already understands that configuration either because it was preloaded via an installation program or the Agent previously associated with the Manager, then the Manager shall respond with the configuration accepted response						
		[AND]						
		If manager receives rlrq while in operating state, the manager shall transmit rlre(normal) and move to the unassociated state.						
		[AND]						
		standard device specialization, or a configuration from a previous association, the Manager 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 agent 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 condition		The simulated agent and the manager under test are in the operating state.						
Test proced	ure	1. The simulated agent sends a Release Request with reason = "normal".						
		 The manager under test responds with a Release Response and moves to the unassociated state: 						
		a. AF	PDU Type:					
			field-length = 2 k	oytes				
			field-value = 0xE	5 0x00 (RIreApdu)				
		b. Re	eleaseResponseRe	eason:				
			field-length = 2 k	oytes				
			field-value = 0x0	0 0x00 (normal)				
Pass/Fail cr	iteria		of the received me		ne specified and the manager			
Notes								

TP ld		TP/PLT/MAN/OXP/COM/BV-007_B
TP label		Manager State machine: Unassociated - Unassociated 2
Coverage Spec		[ISO/IEEE 11073-20601A]

	Testable items	ManagerStateMach 12;M
Test purpos	9	Check that:
		If aare received while in unassociated state, a manager shall transmit an abrt (reason undefined) and remain in the unassociated state.
Applicability		C_MAN_OXP_000
Other PICS		
Initial condit	ion	The simulated agent and the manager under test are in the unassociated state.
Test proced	ure	1. The simulated agent sends an Association Response to the manager under test.
		2. The manager under test responds with and Association Abort message:
		a. APDU Type:
		□ field-length = 2 bytes
		$\Box field-value = 0xE6 \ 0x00$
		b. Abort-Reason:
		$\Box field-length = 2 \text{ bytes}$
		□ field-value = 0x00 0x00 (undefined)
Pass/Fail cri	teria	The format of the received message in step 2 must be the one specified.
Notes		

TP ld		TP/PLT/MAN/OXP/COM/BV-007_C				
TP label		Manager State machine: Unassociated - Unassociated 3				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 13;M				
Test purpos	е	Check that:				
		If aare received while in unassociated state, a manager shall transmit an abrt (reason undefined) and remain in the unassociated state.				
Applicability	/	C_MAN_OXP_000				
Other PICS						
Initial condition	tion	The simulated agent and the manager under test are in the unassociated state.				
Test proced	ure	1. The simulated agent sends a Release Request message to the manager under test.				
		2. The manager under test responds with an Association Abort message:				
		a. APDU Type:				
		$\Box field-length = 2 \text{ bytes}$				
		□ field-value = 0xE6 0x00				
		b. Abort-Reason:				
		$\Box field-length = 2 \text{ bytes}$				
		□ 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/MAN/OXP/COM/BV-007_D				
TP label		Manager State machine:Unassociated - Unassociated 4				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 16;M				
Test purpos	se	Check that:				
		If prst (Any APDU not covered in 2.* (corrupt, unknown, unexpected, etc.) received while in unassociated state, a manager shall transmit an abrt(reason undefined) and remain in the unassociated state.				
Applicabilit	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.				
Test proced	lure	1. The simulated agent sends a Configuration Event report to the manager under test.				
		2. The manager under test responds with and Association Abort message:				
		a. APDU Type:				
		$\Box field-length = 2 \text{ bytes}$				
		$\Box field-value = 0xE6 \ 0x00$				
		b. Abort-Reason:				
		$\Box field-length = 2 \text{ bytes}$				
		□ field-value = 0x00 0x00 (undefined)				
Pass/Fail criteria		The format of the received message in step 2 must be the one specified.				
Notes						

TP ld		TP/PLT/MAN/OXP/COM/BV-007 E					
TP label		Manager State machine:Unassociated. Corrupt-unknown-unexpected APDU					
Coverage	Spec	[ISO/IEEE 11073-20601A]					
-	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 manager shall transmit an abrt(reason undefined) and remain in the unassociated state.					
Applicability	y	C_MAN_OXP_000					
Other PICS							
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.					
Test proced	lure	1. The simulated agent sends an invalid APDU.					
		2. The manager under test responds with an Association Abort message:					
		a. APDU Type:					
		□ field-length = 2 bytes					
		□ field-value = 0xE6 0x00					
		b. Abort-Reason:					
		$\Box field-length = 2 \text{ bytes}$					
		□ 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/MAN/OXP/COM/BV-008_A					
TP label		Manager State machine:Configuring Waiting 1					
Coverage	Spec	[ISO/IEEE 11073-20601A]					
	Testable items	ManagerStateMach 27;M					
Test purpos	e	Check that:					
		If manager receives Rx roiv-* but not matching in any other 6* state, while in waiting state, the manager shall transmit an abrt(reason undefined) and moves to Unassociated state.					
Applicability	y	C_MAN_OXP_000					
Other PICS							
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.					
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the extended range unknown to the manager.					
		2. The manager under test responds with an Association Response:					
		a. APDU Type					
		□ field-length =2 bytes					
		□ field-value =0xE3 0x00 (AareAdpu)					
		b. Result					
		$\Box field-length = 2 \text{ bytes}$					
		□ field-value =0x00 0x03 (accepted-unknown-config)					
		3. The simulated agent sends a "roiv-cmip-get".					
		4. The manager under test responds with an Association Abort message:					
		a. APDU Type:					
		$\Box field-length = 2 \text{ bytes}$					
		□ field-value = 0xE6 0x00					
		b. Abort-Reason:					
		$\Box field-length = 2 \text{ bytes}$					
		□ field-value = 0x00 0x00 (undefined)					
Pass/Fail cr	iteria	The format of the received message in step 4 must be the one specified and the manager moves to the unassociated state.					
Notes							

TP ld		TP/PLT/MAN/OXP/COM/BV-008_B			
TP label Manager State machine:Configuring Waiting 2		Manager State machine:Configuring Waiting 2			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerStateMach 27;M			
Test purpose		Check that:			
		If manager receives Rx roiv-* but not matching in any other 6* state, while in waiting state, the manager shall transmit an abrt(reason undefined) and moves to Unassociated state.			
Applicability		C_MAN_OXP_000			
Other PICS					
Initial condition		The simulated agent and the manager under test are in the unassociated state.			
Test procedure		 The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the extended range unknown to the manager. 			

	2.	The	e manager 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	e simulated agent sends a "roiv-cmip-set".
	4.	The	e manager under test responds with an Association Abort message:
		a.	APDU Type:
			□ field-length = 2 bytes
			$\Box field-value = 0xE6 \ 0x00$
		b.	Abort-Reason:
			□ field-length = 2 bytes
			□ field-value = 0x00 0x00 (undefined)
Pass/Fail criteria			mat of the received message in step 4 must be the one specified and the manager to the unassociated state.
Notes			

TP ld		TP/PLT/MAN/OXP/COM/BV-008_C				
TP label		Manager State machine:Configuring Waiting 3				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 27;M				
Test purpos	e	Check that:				
		If manager receives Rx roiv-* but not matching in any other 6* state while in waiting state, the manager shall transmit abrt(reason undefined) and moves to Unassociated state				
Applicability	/	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.				
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the extended range unknown to the manager.				
		2. The manager 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 agent sends a "roiv-cmip-confirmed-set".				
		4. The manager under test responds with an Association Abort message:				
		a. APDU Type:				
		$\Box field-length = 2 \text{ bytes}$				
		$\Box \text{field-value} = 0 \times \text{E6} \ 0 \times 00$				
		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 manager moves to the unassociated state.
Notes	

TP ld		TP/PLT/MAN/OXP/COM/BV-008_D					
TP label		Manager State machine:Configuring Waiting 4					
Coverage	Spec	[ISC)/IEEE	11073-20601A]			
	Testable items	Man	ager	StateMach 27;M			
Test purpos	e	Che	ck tha	t:			
							[*] state while in waiting state, ves to Unassociated state
Applicability	y	C_N	/IAN_	DXP_000			
Other PICS							
Initial condi	tion	The	simu	ated agent and the r	nanager under tes	are in the ur	nassociated state.
Test proced	lure	 The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the extended range unknown to the manager. 					
		2.	The r	nanager under test r	esponds with an A	Association Re	esponse:
		a. APDU Type					
			Į	field-length =2 by	/tes		
			(field-value =0xE	3 0x00 (AareAdpu)	
			b. I	Result			
			(field-length =2 by	/tes		
			(field-value =0x00	0x03 (accepted-u	unknown-conf	fig)
		3.	The s	imulated agent send	ls a "roiv-cmip-act	ion".	
		4.	The r	nanager under test r	esponds with an A	Association Ab	oort message:
			a. /	APDU Type:			
			(field-length = 2 b	ytes		
			(field-value = 0xE	6 0x00		
			b. /	bort-Reason:			
			(field-length = 2 b	ytes		
			(field-value = 0x0	0 0x00 (undefined)	
Pass/Fail cr	iteria			t of the received me		ust be the one	e specified and the manager
Notes							

TP ld		TP/PLT/MAN/OXP/COM/BV-0	08_E	
TP label		Manager State machine:Configuring Waiting 5		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	ManagerStateMach 27;M		
Test purpos	se	Check that:		
			out not matching in any other 6* abrt(reason undefined) and mov	

Applicability	C_MAN_OXP_000
Other PICS	
Initial condition	The simulated agent and the manager under test are in the unassociated state.
Test procedure	1. The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the extended range unknown to the manager.
	2. The manager under test responds with an Association Response:
	a. APDU Type
	$\Box field-length = 2 \text{ bytes}$
	□ field-value =0xE3 0x00 (AareAdpu)
	b. Result
	$\Box field-length = 2 \text{ bytes}$
	□ field-value =0x00 0x03 (accepted-unknown-config)
	3. The simulated agent sends a "roiv-cmip-confirmed-action".
	4. The manager under test responds with an Association Abort message:
	a. PDU Type:
	□ field-length = 2 bytes
	□ field-value = 0xE6 0x00
	b. Abort-Reason:
	$\Box field-length = 2 \text{ bytes}$
	$\Box field-value = 0x00 \ 0x00 \ (undefined)$
Pass/Fail criteria	The format of the received message in step 4 must be the one specified and the manager moves to the unassociated state.
Notes	

TP ld		TP/PLT/MAN/OXP/COM/BV-009				
TP label		Invalid Association Request management.				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerProc 1; M	ManagerProc 2; M			
Test purpos	е	Check that:				
		When a Manager receives an Association Request, it shall compare the protocol and operating parameters with its own and determine whether the Agent is compatible with the Manager. If the connection is bi-directional, the Manager shall report the outcome of this assessment in the result field of an Association Response.				
		[AND]				
		A manager may reject the association for any of the possible rejection reasons enumerated in 8.7.3.2. If the Manager rejects the Association, it shall transition to the Unassociated state.				
Applicability		C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The simulated agent and the manager under test are in the unassociated state.				
Test procedure		1. The simulated agent sends an Association Request to the manager under test with the data-proto-id set to a protocol unknown to the manager.				
		2. The manager under test responds with an Association Response:				
		a. APDU Type				
		field-lengt	th =2 bytes			
		field-value	e =0xE3 0x00 (AareAdpu)			
		b. Result				

	□ field-length =2 bytes	
	□ field-value =0x00 0x04 (rejected-no-common-protocol)	
	c. Data-Proto	
	data-proto-id = 0x00 0x00 (data-proto-id-empty)	
	data-proto-info = <empty></empty>	
3.	The simulated agent sends an Association Request to the manager under test with th data proto-id set to data-proto-id set to "data-proto-id-20601"data-proto-info containing invalid attribute (encodingRules='00000000000000000'O)	
4.	The manager 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.	The simulated agent sends an Association Request to the manager under test with assoc-version set to an incorrect AssociationVersion	
6.	The manager 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.	The simulated agent sends an Association Request to the manager under test with da proto-id set to a protocol unknown to the manager and a data-proto-id set to data-proto-id set	
8.	The manager 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 simulated agent sends a Release Request message.	
10.	The manager under test responds with a Release Response message.	
11	The simulated agent sends an Association Request to the manager under test with a	

	12. The manager 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 manager (after rejecting Aarq, the manager has transitioned to the unassociated state)
Notes	

TP ld		TP/PLT/MAN/OXP/COM/BV-010				
TP label		Configuring.Waiting Config state. Association Request				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 21;M				
Test purpos	e	Check that:				
		If manager receives aarq while in waiting state, the manager shall transmit an abrt (reason undefined) and move to the unassociated state.				
Applicability	1	C_MAN_OXP_000				
Other PICS						
Initial condit	ion	The manager under test is in the waiting for config state.				
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test.				
		2. The manager 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 manager moves to the unassociated state.				
Notes						

TP ld		TP/PLT/MAN/OXP/COM/BV-011			
TP label		Configuring.Waiting Config state. Association Response			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerStateMach 22;M			

Test purpose	Check that:		
	If manager receives aare while in waiting state, the manager shall transmit an abrt (reason undefined) and move to the unassociated state.		
Applicability	C_MAN_OXP_000		
Other PICS			
Initial condition	The manager under test is in the waiting for config state.		
Test procedure	1. The simulated agent sends an Association Response to the manager under test.		
	2. The manager 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 manager moves to the unassociated state.		
Notes			

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

TP ld		TP/PLT/MAN/OXP/COM/BV-013				
TP label	T	Configuring.Waiting Config state. Release Response				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 24;M				
Test purpos	e	Check that:				
		If manager receives rire while in waiting state, the manager shall transmit an abrt(reason undefined) and move to the unassociated state.				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The manager under test is in the waiting for config state.				
Test proced	lure	1. The simulated agent sends an Association Release Response to the manager under test.				
		2. The manager 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 manager moves to the unassociated state.				
Notes						

TP ld		TP/PLT/MAN/OXP/COM/BV-014			
TP label		Operating state. Association Request			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerStateMach 47;M			
Test purpos	е	Check that:			
		If manager receives aarq while in operating state, the manager shall transmit an abrt (reason undefined) and move to the unassociated state.			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condit	tion	The manager under test is in the operating state.			
Test proced	ure	1. The simulated agent sends an Association Request to the manager under test.			
		2. The manager 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 manager moves to the unassociated state.	
Notes		

TP ld		TP/PLT/MAN/OXP/COM/BV-015			
TP label		Operating state. Association Response			
	Snoo				
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerStateMach 48;M			
Test purpos	e	Check that:			
		If manager receives aare while in Operating state, the manager shall transmit an abrt(reason undefined) and move to the unassociated state.			
Applicability	/	C_MAN_OXP_000			
Other PICS					
Initial condi	tion	The manager under test is in the operating state.			
Test proced	ure	1. The simulated agent sends an Association Response to the manager under test.			
		2. The manager 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 moves to the unassociated state.		The format of the received message in step 2 must be the one specified and the manager moves to the unassociated state.			
Notes	les				

TP ld		TP/PLT/MAN/OXP/COM/BV-016		
TP label		Operating state. Release Response		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	ManagerStateMach 50;M		
Test purpos	e	Check that:		
		If manager receives rire while in operating state, the manager shall transmit an abrt (reason undefined) and move to the unassociated state.		
Applicability C_MAN_OXP_000		C_MAN_OXP_000		
Other PICS				
Initial condition The manager under test is in the operating state.		The manager under test is in the operating state.		
Test procedure		1. The simulated agent sends a Release Response to the manager under test.		
		2. The manager 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	
		$\Box field-length = 2 \text{ bytes}$	
		□ 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 manager moves to the unassociated state.		
Notes			

TP Id		TP/PLT/MAN/OXP/COM/BV-017		
TP label		Disassociating state. Association Request		
Coverage Spec		[ISO/IEEE 11073-20601A]		
	Testable items	ManagerStateMach 58;M		
Test purpos	e	Check that:		
		If aarq is received while in Disassociating state, the manager shall transmit abrt (reason undefined) and move to the unassociated state.		
Applicability	y	C_MAN_OXP_000 AND C_MAN_OXP_043		
Other PICS				
Initial condi	tion	The manager under test is in the operating state.		
Test proced	ure	1. Make the manager under test release the association.		
		 The simulated agent responds to the Association Release Request with an Association Request. 		
		3. The manager 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	s/Fail criteria The format of the received message in step 3 must be the one specified and the man moves to the unassociated state.			
Notes	est and the second s			

TP ld		TP/PLT/MAN/OXP/COM/BV-018		
TP label	1	Disassociating state. Association Response		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	ManagerStateMach 59;M		

Test purpose	Check that: If manager receives aare while in Disassociating state, the manager 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 manager under test is in the operating state.		
Test procedure	1. Make the manager under test release the association.		
	 The simulated agent responds to the Association Release Request with an Association Response (AareAPDU). 		
	3. The manager 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 manager moves to the unassociated state.		
Notes			

TP ld		TP/PLT/MAN/OXP/COM/BV-019			
TP label		Disassociating state. Release Request			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerStateMach 60;M	DisassocProc 6;M	DisassocProc 7;M	
Test purpos	se	Check that:			
		If manager receives rIrq while in Disassociating state, the manager shall transmit rIre(normal) and move to the unassociated state.			
		[AND]			
		If both the Manager and the Agent 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]			
		Note that this also means it is possible to receive an Association Release Request while in the Unassociated state. In such a case, an Association Release Response shall be sent.			
Applicability		C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS					
Initial cond	ition	The manager under test is in the operating state.			
Test proced	dure	1. Make the manager under test release the association.			
		2. The simulated agent responds to the Association Release Request with an Association Release Request (RlrqApdu).			
		3. The manager under test responds with an Association Release Response			
		a. APDU Type			
		field-length =2 bytes			

	□ field-value =0xE6 0x00 (RIreApdu)	
	b. reason	
	field-type = ReleaseResponseReason	
	□ field-length =2 bytes (INT-U16)	
	field-value= normal(0)	
	4. The agent responds to the 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 manager moves to the unassociated state.	
Notes		

TP ld		TP/PLT/MAN/OXP/COM/BV-020_B		
TP label		Dissociating state. Rors-cmip-get		
Coverage Spec		[ISO/IEEE 11073-20601A]		
	Testable items	ManagerStateMach 64;M		
Test purpos	е	Check that:		
		If rors-cmip-get is received while in the Disassociating state, a manager 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	tion	The manager under test is in the operating state.		
Test proced	ure	1. Make the manager under test release the association.		
		 The simulated agent responds to the Association Release Request with a "rors-cmip- get" (PrstAPDU). 		
		3. The manager 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		
		$\Box field-length = 2 \text{ bytes}$		
		□ 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 moves to the unassociated state.		The format of the received message in step 2 must be the one specified and the manager moves to the unassociated state.		
Notes				

TP Id TP/PLT/MAN/OXP/COM/BV-020_C				
TP label		Dissociating state. Rors-cmip-confirmed-set		
Coverage Spec [ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 64;M		
Test purpose		Check that:		
		If rors-cmip-confirmed-set is re- transmit an abrt (reason undefi		

Applicability	C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS				
Initial condition	The manager under test is in the operating state.			
Test procedure	1. Make the manager under test release the association.			
	 The simulated agent responds to the Association Release Request with a "rors-cmip- confirmed-set" (PrstAPDU). 			
	3. The manager 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			
	$\Box field-length = 2 \text{ bytes}$			
	□ 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 manager moves to the unassociated state.			
Notes				

TP ld		TP/PLT/MAN/OXP/COM/BV-020_D				
TP label		Dissociating state. Rors-cmip-confirmed-action				
Coverage Spec		[ISO/IEEE 11073-20601A]				
	Testable items	ManagerStateMach 64;M				
Test purpos	e	Check that:				
		If rors-cmip-confirmed-action is received while in the Disassociating state, a manager shall transmit an abrt (reason undefined) and move to unassociated state.				
Applicability	/	C_MAN_OXP_000 AND C_MAN_OXP_043				
Other PICS						
Initial condi	tion	The manager under test is in the operating state.				
Test proced	ure	1. Make the manager under test release the association.				
		2. The simulated agent responds to the Association Release Request with a "rors-cmip- confirmed-action" (PrstAPDU).				
		3. The manager 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				
		$\Box field-length = 2 \text{ bytes}$				
		□ 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 manager moves to the unassociated state.				
Notes						

TP ld		TP/PLT/MAN/OXP/COM/BV-020_E				
TP label		Dissociating state. Roer				
Coverage	Spec	[ISO/IEEE	11073-20601A]			
	Testable items	ManagerS	tateMach 64;M			
Test purpos	е	Check that:				
		If roer is received while in the Disassociating state, a manager shall transmit an abrt (reason undefined) and move to unassociated state.				
Applicability	/	C_MAN_C	XP_000 AND C_M	AN_OXP_043		
Other PICS						
Initial condi	tion	The manager under test is in the operating state.				
Test proced	ure	1. Make the manager under test release the association.				
		 The simulated agent responds to the Association Release Request with a "roer" (PrstAPDU). 				
		3. The manager under test responds with an Association Abort message and moves to the unassociated state:				
		a. APDU Type				
			i field-length =2 b	ytes		
		□ field-value =0xE6 0x00 (AbrtApdu)				
		b. reason				
		field-type = Abort-reason				
		$\Box field-length = 2 \text{ bytes}$				
		□ field-value = One of the following:				
			 undefined(0 			
Pass/Fail criteria			t of the received me he unassociated st		the one specified and the manager	
Notes						

TP ld		TP/PLT/MAN/OXP/COM/BV-020_F			
TP label		Dissociating state. Rorj			
Coverage Spec Testable items		[ISO/IEEE 11073-20601A]			
		ManagerStateMach 64;M			
Test purpose		Check that: If rorj is received while in the Disassociating state, a manager shall transmit an abrt (reason undefined) and move to unassociated state.			
Applicabilit	у	C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS					
Initial cond	ition	The manager under test is in the operating state.			
Test proced	dure	1. Make the manager under test release the association.			
		 The simulated agent responds to the Association Release Request with a "rorj" (PrstAPDU). 			
		3. The manager 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
	$\Box field-length = 2 \text{ bytes}$
	□ 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 manager moves to the unassociated state.
Notes	

TP ld		TP/PLT/MAN/OXP/COM/BV-022_A				
TP label		Encoding Rules. MDER and XER				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	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 Manager, if the result field is equal to accepted or accepted-unknown-config				
Applicability	/	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The manager under test is in the unassociated state.				
Test proced	ure	 The simulated agent sends an Association Request to the manager under test with the encoding rules filed set to MDER and XER. 				
		2. The manager 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 ld		TP/PLT/MAN/OXP/COM/BV-022_B				
TP label		Encoding Rules. MDER and F	Encoding Rules. MDER and PER			
Coverage Spec		[ISO/IEEE 11073-20601A]				
	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 Manager, if the result field is equal to accepted or accepted-unknown-config				
Applicabilit	у	C_MAN_OXP_000				
Other PICS						
Initial condition		The manager under test is in	the unassociated state.			

Test procedure	 The simulated agent sends an Association Request to the manager under test with the encoding rules field set to MDER and PER. 	
	 The manager 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/MAN/OXP/COM/BV-022_C				
TP label		Encoding Rules. MDER, XER and PER				
Coverage Spec Testable items		[ISO/IEEE 11073-20601A]				
		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 Manager, if the result field is equal to accepted or accepted-unknown-config				
Applicability	y	C_MAN_OXP_000				
Other PICS						
Initial condi	tion	The manager under test is in the unassociated state.				
Test proced	lure	 The simulated agent sends an Association Request to the manager under test with the encoding rules field set to MDER, XER and PER. 				
		2. The manager 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 ld		TP/PLT/MAN/OXP/COM/BV-023				
TP label		Encoding Rules. MDER				
Coverage	Spec	[ISO/IEEE 11073-20601A]				
	Testable items	AssocResp 3;M MessageEncod 1;M				
Test purpos	e	Check that:				
		The Manager shall always support MDER enabling interoperability.				
		[AND]				
		Both Manager and Agent 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 manager under test is in the unassociated state.		
Test procedure	1. The simulated agent sends an Association Request to the manager under test with the encoding rules field set to MDER.		
	The manager 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/MAN/OXP/COM/BV-031					
TP label	TP label		Operating procedures. Persistently stored metric data transfer 1				
Coverage	Spec	[ISO/IEEE 11073-20601A]					
	Testable items	PersSto	preMtrDatTransf 1;O	PersStoreMtrDatTransf 2;C	PersStoreMtrDatTran sf 26; O		
Test purpos	se	Check that:					
		If the manager 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_MAN	I_OXP_000 AND C_MA	N_OXP_003 AND C_MAN_OXP_0)48		
Other PICS							
Initial condi	tion	The ma	nager under test is in th	e operating state. The simulated ag	gent has one PM-Store.		
Test proced	lure	1. Ma	ke the manager under t	est perform a GET service to the P	M-Store.		
		2. The	e received message by	the simulated agent must be:			
		a. APDU Type					
		□ field-length =2 bytes					
		□ field-value =0xE7 0x00 (PrstApdu)					
		b. invoke-id					
		field-type = InvokeIDType					
			□ field-length= 2 by	tes			
			□ field-value= <not< th=""><th>relevant for this test></th><th></th></not<>	relevant for this test>			
		C.	CHOICE:				
			□ field-value= 0x01	0x03 (roiv-cmip-get)			
		d.	obj-Handle:				
			□ field-type = HANE	DLE			
			□ field-length = 2 by	rtes			
			□ field-value = <the< th=""><th>e handle of the simulated agent's P</th><th>M-Store></th></the<>	e handle of the simulated agent's P	M-Store>		
		e.	attribute-Id-List:				
			□ field-type = Attribu	uteIdList			
			$\Box field-count = 0x00$	0x00			
			$\Box field-length = 0x00$	0 0x00			
Pass/Fail cr	iteria	The for	mat of the received mes	sage in step 2 must be the one spe	ecified.		
Notes							

TP ld		TP/PLT/MAN/OXP/COM/BV-032				
TP label	TP label		Operating procedures. Persistently stored metric data transfer 2			
Coverage	Spec	[ISO/I	EEE 11073-20601A]			
-	Testable items		toreMtrDatTransf 16;M	PersStoreMtrDatTransf 17;M		
Test purpos	e	Check	that:			
		When the Manager 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 Manager shall set the sevtsta-manager-confirm bit.
		Applicability	/	C_MA	N_OXP_000 AND C_MAI	N_OXP_003
Other PICS						
Initial condi	tion		nanager under test is in the t least one Segment that c	e operating state. The simulated agent has one PM-Store contains data.		
Test proced	ure	1. M	lake the manager under te	est retrieve the information stored in a PM-Segment.		
			he simulated agent respor rigSegmDataXferRsp mes	nds to the TrigSegmDataXferReq with an appropriate ssage.		
		3. T	he simulated agent sends	a SegmentDataEvent to the manager.		
			he manager under test mu f interest are:	ust respond with a SegmentDataResult message, the fields		
		a	. APDU Type			
			□ field-length =2 byte	es		
			□ field-value =0xE7	0x00 (PrstApdu)		
		b	invoke-id			
			field-type = Invoke	IDType		
			□ field-length= 2 byte	es		
			□ field-value= <the< td=""><td>same of the sent SegmentDataEvent></td></the<>	same of the sent SegmentDataEvent>		
		C.	CHOICE:			
			□ field-value= 0x02 (0x01 (rors-cmip-confirmed-event-report)		
		d	. Obj-Handle:			
			field-type = HAND	LE		
			□ field-length =	2 bytes		
			□ field-value = <	The same of the sent SegmentDataEvent >		
		e.	. CurrentTime			
			field-type = Relative	/eTime		
			$\Box field-length = 4 by$	tes		
			□ field-value = <not< td=""><td>relevant for this test></td></not<>	relevant for this test>		
		f.	event-type			
			$\Box field-type = OID-Ty$	уре		
			$\Box field-length = 2 by$	tes		
			□ field-value = 0x0D	0x21 (MDC_NOTI_SEGMENT_DATA)		
		g	. SegmentDataResult			
			□ field-length = 12 b	ytes		
			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 ld		TP/PLT/MAN/OXP/COM/BV-033_A		
TP label		Operating procedures. Error conditions. Timeout confirmed action 1		
Coverage	overage Spec [ISO/IEEE 11073-20601A]		-	
	Testable items	OperErrorCond 3;M	OperErrorCond 4;M	
Test purpos	se	Check that:		
		After sending a Confirmed Action invoke message, the Manager 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 Manager shall send an Association Abort message to the Agent and transition back to the Unassociated state		
Applicabilit	у	C_MAN_OXP_000		
Other PICS				
Initial condition		The manager under test is in the operating state. The agent has a MDSTimeInfo attribute which indicates that it supports settable time and Absolute Time and Relative Time and the manager is encouraged to set the time.		
Test procedure		 Make the manager under test set the Absolute Time of the simulated agent. The simulated agent does not answer to the confirmed action for at least TOca time. 		C C
Pass/Fail criteria The manager under test must wait for a 0 TOca period. When the time expires, the simulated agent and moves to the unass		xpires, the manager under test		
Notes			the transport layer and decode enough to measure this time-ou using a hardware sniffer.	

TP Id TP/PLT/MAN/OXP/COM/BV-033_B				
TP label Operating procedures. Error conditions. Timeout confirmed action 2		tion 2		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	OperErrorCond 3;M	OperErrorCond 4;M	
Test purpose		Check that: After sending a Confirmed Action invoke message, the Manager 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]	ger shall send an Association Al	
		and transition back to the Una	0	
Applicability C_MAN_OXP_000 At		C_MAN_OXP_000 AND C_M	AN_OXP_003	
Other PICS				

Initial condition	The manager under test is in the unassociated state, the agent has one PM-Store.	
Test procedure	1. The simulated agent sends an AARQ to the manager under test.	
	2. Wait until both devices reach the operating state.	
	3. If the manager did not perform a GetSegmentInfo on its own, make the manager under test perform a GetSegmentInfo action.	
	4. In both cases the simulated agent does not answer the confirmed action for at least TOca time.	
Pass/Fail criteria	The manager under test must wait for a Confirmed Action Report message for a TOca period .When the time expires, the manager under test must send an abort to the simulated agent 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/MAN/OXP/COM/BV-035_A		
TP label		Operating procedures. Error conditions. Timeout Get service 1		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	OperErrorCond 8;M		
Test purpos	se	Check that:		
		If the RTOget expires, the Manager shall send an Association Abort message to its peer and transition back to the Unassociated state.		
Applicabilit	y	C_MAN_OXP_000		
Other PICS				
Initial condi	tion	The manager under test is in the unassociated state.		
Test proced	lure	1. The simulated agent sends an Association Request to the manager under test.		
		2. Wait until the operating state is reached.		
		3. If the manager under test did not send automatically a GET request for the MDS object, make the manager under test perform a GET for the MDS object.		
-		4. Whether it was an automatic behaviour of the manager under test or a forced one, the simulated agent does not answer to the GET for at least TOget time.		
TOget period. When the		The manager under test must wait for a Confirmed Event Report Response message for a TOget period. When the time expires, the manager under test must send an abort to the simulated agent and moves to the unassociated state.		
te		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/MAN/OXP/COM/BV-035_B		
TP label Operating procedures. Error conditions. Timeout Get service 2		2		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	OperErrorCond 8;M		
Test purpos	se	Check that:		
		If the TOget expires, the Mar transition back to the Unasso	nager shall send an Association <i>i</i> ociated state.	Abort message to its peer and
Applicability C_MAN_OXP_000 AND C_MAN_OXP_003 AND C_MAN_OXP_048		XP_048		
Other PICS				
Initial condition The manager under test is in the unassociated state.				

Test procedure	1. The simulated agent sends an Association Request to the manager under test.	
	2. Wait until the operating state is reached.	
	3. If the manager under test did not send automatically a GET Service to the PM-Store object, make the manager under test perform a GET to the PM-Store object.	
	4. Whether it was an automatic behaviour of the manager under test or a forced one, the simulated agent does not answer to the GET for at least TOget time.	
Pass/Fail criteria	The manager under test must wait for a Confirmed Event Report Response message for a TOget period. When the time expires, the manager under test must send an abort to the simulated agent 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/MAN/OXP/COM/BV-036_B		
TP label		Operating procedures. Error conditions. Timeout Set service		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	Testable items	OperErrorCond 10;M		
Test purpos	se	Check that:		
		If the TOcs expires, the Manager shall send an Association Abort message to the Agent and transition back to the Unassociated state		
Applicability C_MAN_OXP_000 AND (C_MAN_OXP_006 OR C_MAN_OXP_001)		C_MAN_OXP_000 AND (C_MAN_OXP_006 OR C_MAN_OXP_001)		
Other PICS				
Initial condition		The manager under test is in the operating state, the simulated agent's scanner is disabled.		
Test procedure		 Make the manager under test perform a SET Service to the Scanner's OperationalState. 		
		2. The simulated agent does not answer to the SET for at least TOcs time.		
Pass/Fail criteria		The manager under test must wait for a Confirmed Event Report Response message for a TOcs period. When the time expires, the manager under test must send an abort to the simulated agent 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/MAN/OXP/COM/BV-037		
TP label		Operating procedures. Error conditions. Timeout clear-segments		
Coverage Spec [ISO/IEEE 11073-20601A]				
	Testable items	OperErrorCond 12;M	StoreClassAttr 10;M	
Test purpose		TOclr-pms expires prior to the	Invoke Confirmed Action (Clea Manager receiving the corresponsibility of the corresponsibility of the corresponsibility of the corresponsibility of the constant of the consta	onding Response Confirmed
Applicability		C_MAN_OXP_000 AND C_M C_MAN_OXP_041 OR C_MA	AN_OXP_003 AND (C_MAN_O N_OXP_042)	XP_040 OR
Other PICS				
Initial condition		The manager under test is in t segment with data.	he operating state and the simu	lated agent has at least one

Test procedure	1. Make the manager under test perform a ClearSegment action to one of the simulated agent's segments.	
	2. The simulated agent does not answer to the ClearSegment for at least Tocer-pms time.	
Pass/Fail criteria	The manager 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 manager under test must send an abort to the simulated agent.	
Notes	under test must send an abort to the simulated agent. 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/MAN/OXP/COM/BV-039				
TP label		Operating procedures. Error conditions. Timeout special segment transfer of the PM-Store object		
Coverage	Spec	[ISO/IEEE 11073-20601A]		
	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 Manager shall wait for the complete transfer of PM-Segment information), the Manager shall send an Association Abort message to the Agent 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 Manager 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 condition		The manager under test is in the operating state and the simulated agent has at least one segment with data.		
Test proced	lure	1. Make the manager under test perform a Trig-Segment-Data-Xfer.		
		 The simulated agent sends a TriggerResponse with TrigSegmXferRsp =tsxr_successful. 		SegmXferRsp
		3. The agent does not send any SegmentData Event for at least TOsp-pms time.		
Pass/Fail criteria		The manager 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 manager under test must send an abort to the simulated agent.		en the time expires, the
Notes		Due to the delay introduced b test tool accuracy may not be necessary to run this test cas	y the transport layer and decode enough to measure this time-ou e using a hardware sniffer.	er for the received APDU, the ut. To get better accuracy, it is

TP ld		TP/PLT/MAN/OXP/COM/BV-040	
TP label		Disassociating procedure. Association Release Reason	
Coverage Spec		[ISO/IEEE 11073-20601A]	
	Testable items	DisassocProc 2;M	
The Asso		Check that: The Association Release Request contains a ReleaseRequestReason to indicate the reason for releasing the association.	
Applicability C_M		C_MAN_OXP_000 AND C_MAN_OXP_043	
Other PICS			

Initial condition	The manager under test is in the operating state.		
Test procedure	1. Make the manager under test release the Association.		
	2. The received message by the simulated agent must be:		
	a. APDU Type:		
	□ field-length = 2 bytes		
	□ field-value = 0xE4 0x00 (RIrqApdu)		
	b. Reason		
	field-type = ReleaseRequestReason		
	□ field-length = 2 bytes (INT-U16)		
	□ field-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/MAN/OXP/COM/BV-042			
TP label Disassociating procedure. Association Release Request Reason 2			son 2		
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	DisassocProc 8;M	DisassocProc 9;M		
Test purpos	е	Check that:			
		After sending an Association Release message, the Manager shall wait for an Association Release Response message for a TOrelease (timeout: association release procedure) period.			
		[AND]			
		If the TOrelease expires, the Manager shall send an Association Abort message to its peer and transition back to the Unassociated state.			
Applicability	1	C_MAN_OXP_000 AND C_MAN_OXP_043			
Other PICS					
Initial condition	tion	The manager under test is in t	he operating state.		
Test proced	ure	1. Make the manager under test release the Association.			
		2. The simulated agent does not send any message for at least the Torelease time.			
		The manager under test must wait for a Release Response message for a Torelease period. When the time expires, the manager under test must send an abort to the simulated agent.			
Notes					

TP ld		TP/PLT/MAN/OXP/COM/BV-043			
TP label		Unrecognized standard configuration			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ConfNormalProc 18;C ConfNormalProc 24; O			
Test purpose		Check that: If the Manager does not recognize the standard configuration (e.g. the Manager was released prior to the device specialization being released), it shall send a response of standard-config-unknown.			
		[AND]			

	If the manager is able to interoperate with the provided standard configuration, it may accept that configuration. If the manager stores configurations, it may store this configuration for future reference when any agent uses this standard configuration identification and henceforth treat the configuration as recognized.		
Applicability	C_MAN_OXP_000 AND NOT(C_MAN_OXP_032) 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_025 OR C_MAN_OXP_026 OR C_MAN_OXP_027 OR C_MAN_OXP_029 OR C_MAN_OXP_067)		
Other PICS	C_MAN_OXP_046		
Initial condition	The manager under test is in the unassociated state.		
Test procedure	1. The simulated agent sends an Association Request with the attribute dev-config-id set to the standard configuration defined in the device specialization.		
	2. The manager under test sends an Association Response with the result = "accepted- unknown-config".		
	3. The simulated agent 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 manager 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 agent's message		
	b. ConfigReportRsp.config-result		
	$\Box field-length = 2 bytes$		
	□ field-value= 0x00 0x02 (standard-config-unknown)		
	5. The simulated agent sends the full configuration information (ConfigObjectList completed, no empty).		
	6. The manager 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 agent's message		
	b. ConfigReportRsp.config-result		
	□ field-length =2 bytes		
	☐ field-value= 0x00 0x00 (accepted-config) or 0x00 0x01(unsupported-config)		
	7. IF the manager and the simulated agent are in the operating state, the simulated agent sends a RIrq(normal) to the manager. If the manager and the simulated agent are in the configuring state, the simulated agent sends an RIrq (no-more-configurations) to the manager.		
	8. The manager sends a Release Response.		
	 IF C_MAN_OXP_046 = TRUE, the simulated agent sends an aarq with the config- report-id set to the same dev-config-id of step 1, the manager 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 manager under test must respond with a "standard-config-unknown" result in step 4. In step 6 and 9, the manager 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 Manager 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/MA	N/OXP/COM/BV-0)44	
TP label		Extended configuration - Empty ConfigObjectList				
Coverage Spec		[ISC)/IEEE 1	1073-20601A]		
	Testable items	Con	fNorma	IProc 26;M		
Test purpose		Check that:				
		An agent may send an extended configuration with an empty config-object-list. This can happen, for instance, when an agent accepts plug-in components, but presently does not have any inserted. The manager responds with either accepted-config or unsupported-config.				
Applicability	1	C_N	AN_O	(P_000		
Other PICS						
Initial condit	ion	The manager under test is in the unassociated state.				
Test procedure		1. The simulated agent sends an Association Request with the attribute dev-config-id set to an extended configuration.				
		2. The manager under test sends an Association Response with the result = "accepted- unknown-config".				
		 The simulated agent sends a Configuration Event Report with config-report-id set to the same dev-config-id of step 1 and an empty ConfigObjectList. 				
		4.		nager under test i ds of interest are:	nust respond with a "rors-cr	nip-confirmed-event-report and
			a. Co	nfigReportRsp.co	nfig-report-id	
				field-length =2 b	ytes	
				field-value= it m agent's message		ce-config-id of the simulated
			b. Co	nfigReportRsp.co	nfig-result	
				field-length =2 by	tes	
				field-value= 0x0	0 0x00 (accepted-config) or	0x00 0x01(unsupported-config)
Pass/Fail cri	teria		manag Ilt in ste		respond with an "accepted-	config" or an "unsupported-config
Notes						

TP ld		TP/PLT/MAN/OXP/COM/BV-045		
TP label		Get Specific Attribute List PM-Store		
Coverage Spec [ISO/IEEE 11073-20601A]				
	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 manager under test is in the operating state. The simulated agent has one PM-Store.
Test procedure	1. Make the manager under test perform a GET request to a specific list of PM-Store attributes.
	2. The received message by the simulated agent 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
	$\Box field-length = 2 \text{ bytes}$
	field-value = <the agent's="" handle="" of="" 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 ld		TP/PLT/MAN/OXP/COM/BV-046			
TP label		Manager State machine:Configuring Waiting. Corrupt-unknown-unexpected APDU			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	Manage	StateMach 78;M		
Test purpose		Check th	at:		
		configur			pected, etc.) received while in ason undefined) and remain
Applicabilit	y	C_MAN	OXP_000		
Other PICS					
Initial condi	tion	The sim	lated agent and the manag	ger under test are in the ur	associated state.
Test proced	lure	 The simulated agent sends an Association Request to the manager under test with a dev-config-id set to an id in the extended range unknown to the manager. 			
		2. The manager under test responds with an Association Response:			
		a. APDU Type			
			□ field-length =2 bytes		
			□ field-value =0xE3 0x0	0 (AareAdpu)	
		b. Result			
			□ field-length =2 bytes		
			□ field-value =0x00 0x03	3 (accepted-unknown-conf	ig)

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

TP ld		TP/PLT/MAN/OXP/COM/BV-047			
TP label		Manager State machine: Operating. Corrupt-unknown-unexpected APDU			
Coverage	Spec	[ISO/IEEE 11073-20601A]			
	Testable items	ManagerStateMach 80;M			
Test purpos	se	Check that:			
		If prst (Any APDU not covered in 8.* (corrupt, unknown, unexpected, etc.) received while in operating state, a manager shall transmit an abrt(reason undefined) and remain in the unassociated state.			
Applicabilit	у	C_MAN_OXP_000			
Other PICS					
Initial condi	ition	The manager under test is in the operating state.			
Test proced	lure	1. The simulated agent sends an invalid apdu.			
		2. The manager under test responds with an Association Abort message:			
		a. APDU Type:			
		$\Box field-length = 2 \text{ bytes}$			
		□ field-value = 0xE6 0x00			
		b. Abort-Reason:			
		$\Box field-length = 2 \text{ bytes}$			
		□ field-value = 0x00 0x00 (undefined)			
Pass/Fail criteria The format of the received message in step 2 must be the one specifi		The format of the received message in step 2 must be the one specified.			
Notes					

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

Initial condition	The manager under test is in the operating state.
Test procedure	1. Make the manager under test release the association.
	2. The simulated agent responds to the Association Release Request with an invalid APDU.
	3. The manager under test responds with an Association Abort message:
	a. APDU Type:
	$\Box field-length = 2 \text{ bytes}$
	$\Box \text{field-value} = 0 \times \text{E6} \ 0 \times 00$
	b. Abort-Reason:
	$\Box field-length = 2 \text{ bytes}$
	□ field-value = 0x00 0x00 (undefined)
Pass/Fail criteria	The format of the received message in step 3 must be the one specified.
Notes	

Bibliography

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[b-CDG 1.0]	Continua Health Alliance, Continua Design Guidelines v1.0 (2008), <i>Continua Design Guidelines</i> .
[b-CDG 2010]	Continua Health Alliance, Continua Design Guidelines v1.5 (2010), <i>Continua Design Guidelines</i> .
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