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Technical Specification

Intelligent Transport Systems (ITS); Test specifications for Intelligent Transport Systems; Communications Access for Land Mobiles (CALM); Medium Service Access Points (ISO 21218); Part 2: Test Suite Structure and Test Purposes (TSS&TP)

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Intelligent Transport System (ITS).

The present document is part 2 of a multi-part deliverable covering the test specifications for access layer service access points and related procedures as identified below:

- Part 1: "Implementation Conformance Statement (ICS) proforma";
- Part 2: "Test Suite Structure and Test Purposes (TSS&TP)";**
- Part 3: "Abstract Test Suite (ATS) and partial PIXIT proforma".

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1 Scope

The present document specifies "Test Suite Structure and Test Purposes" (TSS&TP) for the access layer service access points MI-SAP and IN-SAP and related procedures as defined in ISO 21218 [1] in accordance with the relevant guidance given in TS 102 760-1 [4], ISO/IEC 9646-1 [5], ISO/IEC 9646-2 [6] and ETS 300 406 [7].

NOTE: ISO 21218 [1] cannot be tested without being applied to a specific CALM-compliant communication interface (CI). Conformance with ISO 21218 thus always is restricted to the CALM-compliant CI declared in the ICS proforma [4].

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific.

- For a specific reference, subsequent revisions do not apply.
- Non-specific reference may be made only to a complete document or a part thereof and only in the following cases:
 - if it is accepted that it will be possible to use all future changes of the referenced document for the purposes of the referring document;
 - for informative references.

Referenced documents which are not found to be publicly available in the expected location might be found at <http://docbox.etsi.org/Reference>.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are indispensable for the application of the present document. For dated references, only the edition cited applies. For non-specific references, the latest edition of the referenced document (including any amendments) applies.

- [1] ISO 21218-2008: "Intelligent Transport Systems - Communications access for land mobiles (CALM) - Medium Service Access Points".
- [2] DIS 21217-2009: "Intelligent Transport Systems - Communications access for land mobiles (CALM) - Architecture".
- [3] DIS 24102-2009: "Intelligent Transport Systems - Communications access for land mobiles (CALM) - Management".
- [4] ETSI TS 102 760-1: "Intelligent Transport Systems (ITS); Test specifications for Intelligent Transport Systems; Communications Access for Land Mobiles (CALM); Medium Service Access Points (ISO 21218); Part 1: Implementation Conformance Statement (ICS) proforma".
- [5] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concept".
- [6] ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite Specification".
- [7] ETSI ETS 300 406: "Methods for testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".

2.2 Informative references

The following referenced documents are not essential to the use of the present document but they assist the user with regard to a particular subject area. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Not applicable.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ISO 21218 [1], ISO 21217, [2], ISO 24102 [3], TS 102 760-1 [4], ISO/IEC 9646-1 [5], ISO/IEC 9646-2 [6] and the following apply:

tester: entity in the test architecture controlling the tests

tester CI: CI contained in the tester

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in ISO 21218 [1], ISO 21217, [2], ISO 24102 [3], TS 102 760-1 [4], ISO/IEC 9646-1 [5] and ISO/IEC 9646-2 [6] apply.

4 Test suite architecture

ISO 21218 [1] cannot be tested without being applied to a specific CALM-compliant communication interface (CI). Thus the test architecture presented in figure 1 contains also the OSI communication layers PHY and DLL which are below the "Communication Adaptation Layer" (CAL), both in the system under test (SUT) and in the tester.

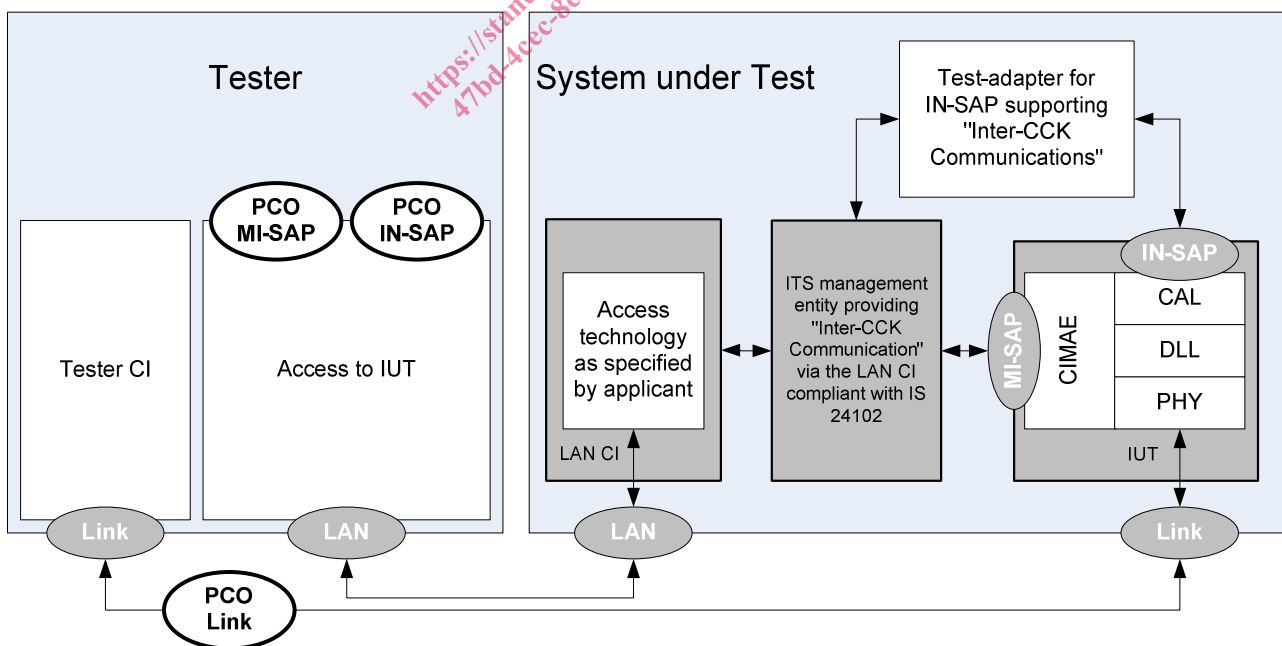


Figure 1: Test architecture

The IUT is connected via three points of control and observation (PCO) with the tester:

- "PCO IN-SAP", providing access to the IN-SAP of the IUT;
- "PCO MI-SAP", providing access to the MI-SAP of the IUT;
- "PCO Link", the communication link.

Access to the MI-SAP preferably uses "Inter-CCK Communications" as specified in [3]. Access to the IN-SAP preferably uses an extension of "Inter-CCK Communications" as specified in annex A. Alternative approaches to access the IN-SAP and MI-SAP also are allowed.

NOTE: Not using "Inter-CCK Communications" to access IM-SAP and MI-SAP may cause extra cost to the applicant in order to adapt the SUT to the test environment in a test house.

A SUT may contain several CIs. However in a given test at a given time, only a single of them together with the functionality of ISO 21218 [1] shall constitute the IUT. Testing of a SUT containing several CIs thus requires repetition of the tests for all CIs contained in the SUT.

Tests for a configuration with several active CIs in a single SUT are not considered in the present document.

5 Test purposes

5.1 Introduction

5.1.1 Definition conventions

The test purposes (TPs) are defined following particular rules as shown in table 1.

Table 1: TP definition rules

TP ID	Title:
	Reference:
	ICS Selection:
	TC Reference
	Initial condition:
Stimulus and Expected behaviour:	

TP ID	The TP ID is a unique identifier. It shall be specified according to the TP naming conventions defined in the sub-clause below.
Title	Short description of test purpose objective.
Reference	The reference should contain the references of the subject to be validated by the actual TP (specification reference, clause and paragraph).
ICS Selection	Reference to the ICS statement involved for selection of the TP. Contains a Boolean expression. Only those ICS statements are shown that are explicitly related to the test.
TC reference	Shows the reference number of the related test case in the ATS.
Initial condition	The condition defines in which initial state the IUT has to be to apply the actual TP.
Stimulus and Expected behaviour	Definition of the events the tester performs, and the events that are expected from the IUT to conform to the base specification.

5.1.2 Naming conventions

The identifier of the TP is built according to table 2.

Table 2: TP naming convention

Identifier:	TP/<group>/<x>/<n>		
	group = Group of tests	SE	State event transitions
		MB	MIB M-parameters
		HC	Handling of CIs
		DP	Handling of data plane
	x = Type of testing	BV	Valid Behaviour Tests
		BI	Invalid Behaviour Tests
		<n> = sequential number	>0

5.1.3 Sources of TP definitions

All TPs are specified according to requirements set up in ISO 21218 [1].

5.1.4 General reference

For all TPs the general references to clause 5.2.3 and to annex E of ISO 21218 [1] shall be applicable.

5.1.5 General conditions

The following pre-conditions shall apply for all TPs, if not defined differently in a specific TP:

- The CI-ID of all CIs not being in the CI state "not_existent" and of all existent VCIs shall be known to the Tester, see figure 1.
- The MIB of the CI / VCI shall contain default values except for the M-parameters listed below.
 - Parameter 11 "MinimumUserPriority" shall be set to zero if not requested differently.

Additional pre-conditions may apply for specific TPs.

5.1.6 M-SAP confirm service primitives

According to [1], the service primitives COMMAND.confirm and REQUEST.confirm shall be present in case of an error and may be omitted otherwise. The optional presence of confirm service primitives with ErrStatus indicating success are not explicitly included in the TPs, but will have to be considered in the abstract test suite, i.e. in part 3 of this multi-part deliverable.

5.2 CI state transitions

5.2.1 Valid behaviour tests

TP/SE/BV/01	Verify that the IUT with CI class different from "CIC-wl5" registers correctly at the management entity
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.4.2, 5.2.4.10 and 5.3.2, annexes B and C
	ICS Selection: NOT Table C.2/5
	TC reference: TC_SE_BV_01
Initial condition: The IUT shall be in the CI state "not-existent"	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Dependent on the implementation, request the IUT to start the registration procedure. 2) Verify reception of REQUEST 0 "RegReq" at the M-SAP with "MedType" equal to the value declared by the applicant, "MAC address" set to the unique MAC address of the IUT as declared by the applicant, "CCK-ID" and "MedID" contained in the "CI-ID" set to zero, and the "CtrlCI" bits contained in the "CI-ID" set to zero. Note the "SerialNumber" contained in the "CI-ID". 3) Verify that the "SerialNumber" noted in step 2) is in the range 0x0001 to 0xFEFF. 4) Before the timer "T_register" expires in the IUT, send COMMAND 0 "RegCmd" via the M-SAP to the CI-ID with CtrlCI bits, CCK-ID and MedID set to zero and the SerialNumber set to the value reported in step 2), providing in "M-Command" correct values of "CCK-ID" and "MedID", and confirming the unique MAC address. 5) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "registered". 	
TP/SE/BV/02	Verify that the IUT with CI class "CIC-wl5" registers correctly at the management entity
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.4.2, 5.2.4.10 and 5.3.2, annexes B and C
	ICS Selection: Table C.2/5
	TC reference: TC_SE_BV_02
Initial condition: The IUT shall be in the CI state "not-existent"	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Dependent on the implementation, request the IUT to start the registration procedure. 2) Verify reception of REQUEST 0 "RegReq" at the M-SAP with "MedType" equal to the value declared by the applicant, "MAC address" set to the unique MAC address of the IUT as declared by the applicant, "CCK-ID" contained in the "CI-ID" set to zero, "MedID" contained in the "CI-ID" set to zero and the "CtrlCI" bits contained in the "CI-ID" set to one. Note the "SerialNumber" contained in the "CI-ID". 3) Verify that the "SerialNumber" noted in step 2) is in the range 0x0001 to 0xFEFF. 4) Before the timer "T_register" expires in the IUT, send the COMMAND 0 "RegCmd" via the M-SAP to the CI-ID with CtrlCI bits, CCK-ID and MedID set to zero and the SerialNumber set to the value reported in step 2), providing in the M-COMMAND correct values of "CCK-ID" and "MedID", and confirming the unique MAC address. 5) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "registered". 	
TP/SE/BV/03	Verify that the IUT with CI class "CIC-wl2" automatically creates a UC-VCI and reaches the CI state "active"
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/2 AND Table C.6/3 AND Table C.8/16
	TC reference: TC_SE_BV_03
Initial condition: The IUT shall be in the CI state "registered".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Oppose the IUT to the signals of a related base station and wait at least the time needed to register at the base station. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI. 	

TP/SE/BV/04	Verify that the IUT with CI class "CIC-wl3" automatically creates a BC-VCI and reaches the CI state "active"
	Reference: ISO 21218 [1]: clauses 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/3 AND Table C.6/1 AND NOT Table C.6/2 AND Table C.8/14
	TC reference: TC_SE_BV_04
Initial condition: The IUT shall be in the CI state "registered". MAC multicast groups are not known.	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Wait at least the time needed to create a broadcast VCI. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created BC-VCI. 	

TP/SE/BV/05	Verify that the IUT with CI class "CIC-wl4" automatically creates a RX-VCI and reaches the CI state "active"
	Reference: ISO 21218 [1]: clauses 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/4 AND Table C.6/4 AND Table C.8/17
	TC reference: TC_SE_BV_05
Initial condition: The IUT shall be in the CI state "registered"	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Wait at least the time needed to create a RX-VCI. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created RX-VCI. 	

TP/SE/BV/06	Verify that the IUT with CI class "CIC-wl1" automatically creates a UC-VCI and a BC-VCI and reaches the CI state "active"
	Reference: ISO 21218 [1]: clauses 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/1 AND Table C.6/1 AND NOT Table C.6/2 AND Table C.6/3 AND Table C.8/14 AND Table C.8/16
	TC reference: TC_SE_BV_06
Initial condition: The IUT shall be in the CI state "registered". MAC multicast groups shall not be known.	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Wait at least the time needed to create a BC-VCI and a UC-VCI. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI, and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created BC-VCI. 	

TP/SE/BV/07	Verify that the IUT with CI class "CIC-wl3" automatically creates a BC-VCI and known MC-VCI and reaches the CI state "active"
	Reference: ISO 21218 [1]: clauses 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/3 AND Table C.6/1 AND Table C.6/2 AND Table C.8/14 AND Table C.8/15
	TC reference: TC_SE_BV_07
Initial condition: The IUT shall be in the CI state "registered". MAC multicast groups shall be known.	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Wait at least the time needed to create a broadcast VCI. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created BC-VCI, and for all known MAC multicast groups verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created MC-VCI. 	

TP/SE/BV/08	Verify that the IUT with CI class "CIC-w11" automatically creates a UC-VCI a BC-VCI and known MC-VCI and reaches the CI state "active"
	Reference: ISO 21218 [1]: clauses 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/1 AND Table C.6/1 AND Table C.6/2 AND Table C.6/3 AND Table C.8/14 AND Table C.8/15 AND Table C.8/16
	TC reference: TC_SE_BV_08
Initial condition: The IUT shall be in the CI state "registered". MAC multicast groups shall be known.	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Wait at least the time needed to create a broadcast VCI. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI, and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created BC-VCI, and for all known MAC multicast groups verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created MC-VCI. 	

TP/SE/BV/09	Verify that the IUT deregisters correctly from the management entity
	Reference: ISO 21218 [1]: clauses 5.2.4.3 and 5.2.4.10, annexes B and D
	ICS Selection:
	TC reference: TC_SE_BV_09
Initial condition: The IUT shall be in the CI state "active".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "deregister". 2) Wait at least the time declared by the applicant needed to perform deregistration. 3) Issue COMMAND 1 "CIstateChng" with the value "disconnect". 4) Verify that no change of state and no error are notified via the M-SAP. 5) Repeat steps 1) through 4) for the initial condition: The IUT shall be in the CI state "connected". 6) Repeat steps 1) through 4) for the initial condition: The IUT shall be in the CI state "suspended". 7) Repeat steps 1) through 4) for the initial condition: The IUT shall be in the CI state "inactive". 	

TP/SE/BV/10	Verify that the IUT correctly performs inactivation
	Reference: ISO 21218 [1]: clauses 5.2.4.4 and 5.2.4.10; annexes B and C
	ICS Selection:
	TC reference: TC_SE_BV_10
Initial condition: The IUT shall be in the CI state "active".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "inactivate". 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "inactive". 3) Repeat steps 1) and 2) for the initial condition: The IUT shall be in the CI state "connected". 4) Repeat steps 1) and 2) for the initial condition: The IUT shall be in the CI state "suspended". 	

TP/SE/BV/11	Verify that the IUT with CI class "CIC-w12" correctly performs activation
	Reference: ISO 21218 [1]: clauses 5.2.4.5, 5.2.4.10, 5.3.3.1 and 5.3.2; annexes B and C
	ICS Selection: Table C.2/2
	TC reference: TC_SE_BV_11
Initial condition: The IUT shall be in the CI state "inactive".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "activate". 2) Oppose the IUT to the signals of a related base station and wait at least the time typically needed to register at the base station. 3) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI. 	

TP/SE/BV/12	Verify that the IUT with CI class "CIC-wl3" correctly performs activation
	Reference: ISO 21218 [1]: clauses 5.2.4.5, 5.2.4.10, 5.3.3.1 and 5.3.2; annexes B and C
	ICS Selection: Table C.2/3
	TC reference: TC_SE_BV_12
Initial condition: The IUT shall be in the CI state "inactive".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "activate". 2) Wait at least the time needed to create a broadcast VCI. 3) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created BC-VCI. 	

TP/SE/BV/13	Verify that the IUT with CI class "CIC-wl4" correctly performs activation
	Reference: ISO 21218 [1]: clauses 5.2.4.5, 5.2.4.10, 5.3.3.1 and 5.3.2; annexes B and C
	ICS Selection: Table C.2/4
	TC reference: TC_SE_BV_13
Initial condition: The IUT shall be in the CI state "inactive".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "activate". 2) Wait at least the time needed to create a RX-VCI. 3) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created RX-VCI. 	

TP/SE/BV/14	Verify that the IUT with CI class "CIC-wl1" correctly performs activation
	Reference: ISO 21218 [1]: clauses 5.2.4.5, 5.2.4.10, 5.3.3.1 and 5.3.2; annexes B and C
	ICS Selection: Table C.2/1
	TC reference: TC_SE_BV_14
Initial condition: The IUT shall be in the CI state "inactive".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "activate". 2) Wait at least the time needed to create a BC-VCI and a UC-VCI. 3) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI, and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created BC-VCI. 	

TP/SE/BV/15	Verify that the IUT correctly performs suspension
	Reference: ISO 21218 [1]: clauses 5.2.4.6 and 5.2.4.10; annexes B and C
	ICS Selection:
	TC reference: TC_SE_BV_15
Initial condition: The IUT shall be in the CI state "connected".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "suspend". 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "suspended". 	

TP/SE/BV/16	Verify that the IUT correctly performs reactivation
	Reference: ISO 21218 [1]: clauses 5.2.4.7 and 5.2.4.10; annexes B and C
	ICS Selection:
	TC reference: TC_SE_BV_16
Initial condition: The IUT shall be in the CI state "connected".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "reactivate". 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "connected". 	

TP/SE/BV/17	Verify that the IUT with CI class "CIC-wl2" and "CIAC-2" and with M-parameter 51 "Connect" set to "manual" creates a UC-VCI and reaches the CI state "connected"
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.2, 5.2.4.8, 5.2.4.10 and 5.3.3.1; annexes B and C
	ICS Selection: Table C.2/2 AND Table C.3/2 AND Table C.6/3 AND Table C.8/16
	TC reference: TC_SE_BV_17
Initial condition: The IUT shall be in the CI state "active". Valid access information in M-parameters 27 "SIMpin" / M-parameter 28 "ProviderInfo" shall be present. The IUT is opposed to the signals of a related base station. M-parameter 51 "Connect" set to "manual".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Issue COMMAND 1 "CIstateChng" with the value "connect". 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "connected". 	

TP/SE/BV/18	Verify that the IUT with CI class "CIC-wl2" and "CIAC-2" and with M-parameter 51 "Connect" set to "automatic" automatically creates a UC-VCI and reaches the CI state "connected"
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.2, 5.2.4.8, 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/2 AND Table C.3/2 AND Table C.6/3 AND Table C.8/16
	TC reference: TC_SE_BV_18
Initial condition: The IUT shall be in the CI state "registered". M-parameter 51 "Connect" set to "automatic".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Oppose the IUT to the signals of a related base station and Wait at least the time typically needed to connect to the base station. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI, and verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "connected". 	

TP/SE/BV/19	Verify that the IUT with CI class "CIC-wl2" and "CIAC-1" automatically creates a UC-VCI and reaches the CI state "connected"
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.2, 5.2.4.8, 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/2 AND Table C.3/1 AND Table C.6/3 AND Table C.8/16
	TC reference: TC_SE_BV_19
Initial condition: The IUT shall be in the CI state "registered".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Oppose the IUT to the signals of a related base station and Wait at least the time typically needed to connect to the base station. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI, and verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "connected". 	

TP/SE/BV/20	Verify that the IUT with CI class "CIC-wl2" and "CIAC-3" automatically creates a UC-VCI and reaches the CI state "connected"
	Reference: ISO 21218 [1]: clauses 5.2.1, 5.2.2, 5.2.4.8, 5.2.4.10, 5.3.3.1 and 5.3.2; annex C
	ICS Selection: Table C.2/2 AND Table C.3/3 AND Table C.6/3 AND Table C.8/16
	TC reference: TC_SE_BV_20
Initial condition: The IUT shall be in the CI state "registered".	
Stimulus and Expected Behaviour:	
<ol style="list-style-type: none"> 1) Oppose the IUT to the signals of a related base station and Wait at least the time typically needed to connect to the base station. 2) Verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "active", and verify reception of REQUEST 9 "Event" indicating the event number 3 and the CI-ID of the newly created UC-VCI, and verify reception of REQUEST 9 "Event" indicating the event number 5 and the M-parameter 42 "CIstatus" set to "connected". 	