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Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 3: Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF) and Specialized Resource Function (SRF)

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# Foreword

This European Telecommunication Standard (ETS) has been produced by the Signalling Protocols and Switching (SPS) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS is part 3 of a multi-part standard covering the Capability Set 1 (CS1) core Intelligent Network Protocol (INAP) as described below:

- Part 1: "Protocol specification";
- Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";
- Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for Service Switching Function (SSF) and Specialized Resource Function (SRF)";
- Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for SSF and SRF";
- Part 5: "Protocol specification for the Service Control Function (SCF) Service Data Function (SDF) interface";
- Part 6: "PICS proforma specification for the SCF-SDF interface".
  - NOTE: Further parts of this standard may be identified later.

Transposition dates					
Date of adoption of this ETS:	1 March 1996				
Date of latest announcement of this ETS (doa):	31 May 1996				
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	30 November 1996				
Date of withdrawal of any conflicting National Standard (dow):	30 November 1996				

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# 1 Scope

This third part of ETS 300 374 provides the Test Suite Structure and Test Purposes (TSS&TP) for conformance testing of the Service Switching Function (SSF) and the Specialized Resource Function (SRF) of the core Intelligent Network Application Protocol (INAP) of Intelligent Network (IN) Capability Set 1 (CS1) according to ETS 300 374-1 [1].

ISO/IEC 9646-1 [3] and ISO/IEC 9646-2 [4] are used as the basis for the test methodology.

# 2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 374-1 (1994): "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 1: Protocol specification".
- [2] ETS 300 374-2: "Intelligent Network (IN); Intelligent Network Capability Set 1 (CS1); Core Intelligent Network Application Protocol (INAP); Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification for Service Switching Function (SSF), Specialized Resource Function (SRF) and Service Control Function (SCF)".
- [3] ISO/IEC 9646-1: "Information technology Open systems interconnection -Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-2: "Information technology Open systems interconnection -Conformance testing methodology and framework - Part 2: Abstract test suite specification".

# 3 Definitions and abbreviations

#### 3.1 Definitions

For the purposes of this ETS, the following definitions apply:

- terms defined in ETS 300 374-1 [1];
- terms defined in ISO/IEC 9646-1 [3] and in ISO/IEC 9646-2 [4].

In particular, the following terms defined in ISO/IEC 9646-1 [3] apply:

- Abstract Test Suite (ATS);
- Implementation Under Test (IUT);
- System Under Test (SUT);
- Protocol Implementation Conformance Statement (PICS).

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# 3.2 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

# 4 Test Suite Structure (TSS)

# 4.1 Overview

Tables 1 and 2 show the structure of the test suites for SSF and SRF.

SUT	Interface	Category	State	Group
SSP	SCF-SSF	CA	State 1	Network event
	<b>bS</b> : SSP basic functions			Operation
			State 3	Operation
			State 6	Network event
			State 7	Operation
		BV	State 1	Network event
				Operation
			State 3	Network event
				Operation
				Operation error
			State 6	Network event
				Operation
				Operation error
			State 7	Operation
			State 8	Network event
		BI	State 1	Operation
			State 3	Operation
				Operation error
			State 6	Operation
			State 7	Operation
		BO	State 1	Operation
			State 3	Operation
			State 6	Operation
	SCF-SSF-SRF	BV	State 3	Operation
	<b>rS</b> : add. for SSP with		State 4	Network event
	relay functions			Operation
				Operation error
		BI	State 3	Operation
			State 4	Operation
		BO	State 1	Operation
			State 3	Operation
			State 4	Operation
			State 6	Operation
		(continue	ed)	

# Table 1: Test suite structure of the SSF tests

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SUT	Interface	Category	State	Group
SSP	SCF-SSF	BV	State 3	Operation
	iS: add. for SSP acting		State 5	Network event
	as initiating SSP			Operation
				Operation error
		BI	State 3	Operation
			State 5	Operation
		BO	State 1	Operation
			State 3	Operation
			State 5	Operation
			State 6	Operation
	SCF-SSF	BV	State 1	Network event
	aS: add. for SSP acting		State 3	Network event
	as assisting SSP			Operation
				Operation error
			State 4	Network event
				Operation
				Operation error
		BI	State 3	Operation
			State 4	Operation
		BO	State 3	Operation
			State 4	Operation

# Table 1 (concluded): Test suite structure of the SSF tests

# Table 2: Test suite structure of the SRF tests

SUT	Interface	Category	State	Group
IP	SCF-SRF	BV	State 1	Network event
	cl (IP direct path to SCP)		State 2	
				Network event
				Operation
				Operation error
			State 3	Network event
				Operation
		BI	State 2	Operation
			State 3	Operation
		BO	State 1	Operation
			State 2	Operation

# 4.2 Physical scenarios

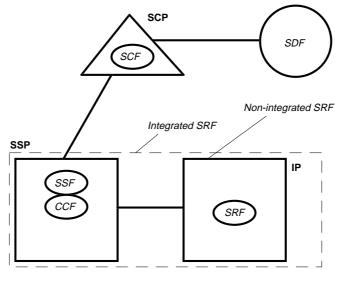
The test suites given in subclause 4.1 are based on the mapping of Functional Entities (FE) to Physical Entities (PE) as shown in table 3.

	FE				
PE	SRF	SSF	SCF	SDF	
SSP	0	m	n/a	n/a	
SCP	n/a	n/a	m	0	
SDP	n/a	n/a	n/a	m	
IP	m	n/a	n/a	n/a	

Table 3: Mapping of functional entities to physical entities

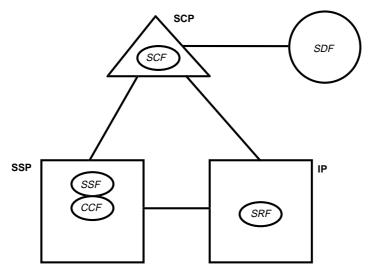
The application of the test suites according to subclause 4.1 is given in figures 1 to 5 for a number of different example physical scenarios.

The following figures illustrate mainly the SRF configurations. The SDP is included for better understanding of the whole IN configuration. Nevertheless, it possible to support an SCP with an integrated SDF.



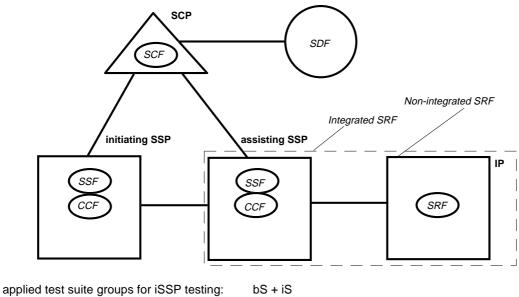
applied test suite groups for SSP testing: bS + rS

#### Figure 1: Example for SCP with single SSP Non-integrated or Integrated SRF



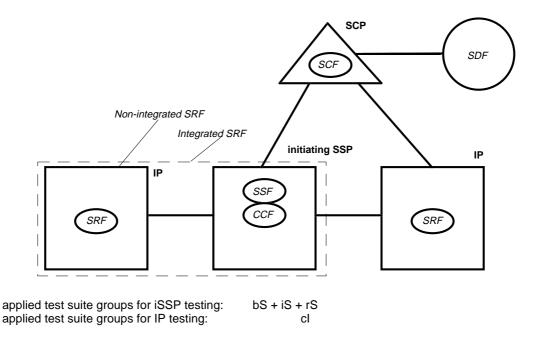
applied test suite groups for iSSP testing: applied test suite groups for IP testing: bS + iS cl

Figure 2: Example for direct path SCP - IP

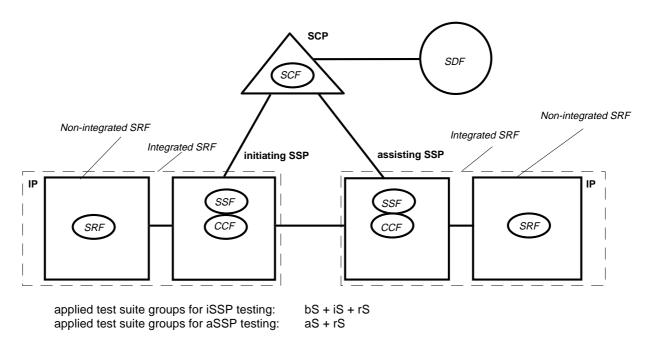


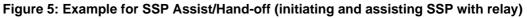
applied test suite groups for aSSP testing: aS + rS

Figure 3: Example for SSP Assist/Hand-off (assisting SSP with relay)









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#### 4.3 Test groups

#### 4.3.1 Interface groups

#### 4.3.1.1 Basic SSF - bS

The defined test purposes cover the INAP procedures at the SSP for the basic functions as described in ETS 300 374-1 [1], clauses 7 to 10. The basic functions are the INAP procedures at the SSP for the following operations:

ActivateServiceFiltering ActivityTest ApplyCharging ApplyChargingReport CallInformationRequest CallInformationReport Cancel (CCF events) CollectInformation Connect Continue **EventNotificationCharging EventReportBCSM** FurnishChargingInformation InitialDP InitiateCallAttempt ReleaseCall RequestNotificationChargingEvent RequestReportBCSMEvent ResetTimer SendChargingInformation ServiceFilteringResponse

# 4.3.1.2 SSF relay - rS

The defined test purposes cover the INAP procedures at the SSP needed in addition to the basic functions for the user interaction with relay as described in ETS 300 374-1 [1], clauses 7 to 10. These are the procedures for the following operations:

Cancel (PA, PC) ConnectToResource DisconnectForwardConnection PlayAnnouncement PromptAndCollectUserInformation SpecializedResourceReport

## 4.3.1.3 Initiating SSF - iS

The defined test purposes cover the INAP procedures at the initiating SSP needed in addition to the basic functions as described in ETS 300 374-1 [1], clauses 7 to 10. These are the procedures for the following operations:

Connect (hand-off) DisconnectForwardConnection EstablishTemporaryConnection

## 4.3.1.4 Assisting SSF - aS

The defined test purposes cover the INAP procedures at the assisting SSP needed in addition to the basic and relay functions as described in ETS 300 374-1 [1], clauses 7 to 10. These are the procedures for the following operations:

AssistRequestInstructions

### 4.3.1.5 IP with direct path to SCP - cl

The defined test purposes cover the INAP procedures at the IP related to the SRF-SCF interface in case of a direct path between SCP and IP as described in ETS 300 374-1 [1], clauses 7 to 10. These are the procedures for the following operations:

AssistRequestInstructions Cancel PlayAnnouncement PromptAndCollectUserInformation SpecializedResourceReport

#### 4.3.2 Main test groups

### 4.3.2.1 Capability tests (CA)

Capability testing provides a limited testing to ascertain the capabilities stated in the PICS can be observed.

## 4.3.2.2 Valid Behaviour tests (BV)

Predefined state transitions are considered as valid. The test purposes in the valid behaviour test sub group cover as far as reasonable the verification of the normal and exceptional procedures of the various Finite State Machines (FSMs), i.e. a valid behaviour test is a test where the message sequence and the message contents is considered as valid.

#### 4.3.2.3 Invalid Behaviour tests (BI)

This test sub group is intended to verify that the IUT is able to react properly having received an invalid Protocol Data Unit (PDU). An invalid PDU is defined as a syntactically incorrect message.

#### 4.3.2.4 Inopportune Behaviour tests (BO)

This test group is intended to verify that the IUT is able to react properly in the case an inopportune protocol event occurring. Such an event is syntactically correct but occurs when it is not expected, e.g. a correctly coded operation is received in a wrong state (the IUT may respond by sending error UnexpectedComponentSequence).

#### 4.4 Test step structure

#### 4.4.1 Preambles

The preamble test group contains the preamble test steps needed for initialisation of the IUT before testing the particular test purpose. Each preamble shall start from the IUT initial state as defined in subclause 5.1.4.

#### 4.4.2 Postambles

After each test case the IUT shall be brought back to the initial state as defined in subclause 5.1.4.

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# 4.5 Timers of the Abstract Test Suite (ATS)

This subclause describes the timers and counters used in the ATS. The "min" and "max" indications define if the timer value represents the minimum or maximum limit of a timer. The timer values contain some additional tolerances for delays caused by test simulators. Therefore, a bigger timer tolerance is given than defined in ETS 300 374-1 [1]:

Minimum value of ATS timer = minimum ETS timer;

Maximum value of ATS timer = maximum ETS timer  $\times$  1,2.

Table 4 shows the identified timers used in the ATS and the references to ETS 300 374-1 [1].

ATS timer name	ATS timer value [s]	ETS timer name	Reference to ETS 300 374-1 [1]
T <sub>SSFmin</sub>	(note)	T <sub>SSF</sub>	not defined
T <sub>SSFmax</sub>	(note)		
T <sub>SRFmin</sub>	(note)	T <sub>SRF</sub>	not defined
T <sub>SRFmax</sub>	(note)		
T <sub>SCF-SSFmin</sub>	(note)	T <sub>SCF-SSF</sub>	not defined
T <sub>SCF-SSFmax</sub>	(note)		
T <sub>ActTestmin</sub>	(note)	T <sub>ActTest</sub>	not defined
T <sub>ActTestmax</sub>	(note)		
ASSIST/HAND-OFFmin	(note)	T <sub>ASSIST/HAND-OFF</sub>	not defined
ASSIST/HAND-OFFmax	(note)		
r <sub>asfmin</sub>	1	T <sub>asf</sub>	6.1
r <sub>asfmax</sub>	12		
Γ <sub>atmin</sub>	1	T <sub>at</sub>	6.1
r <sub>atmax</sub>	12		
Γ <sub>acmin</sub>	1	T <sub>ac</sub>	6.1
Г <sub>астах</sub>	12		
Г <sub>асгтіп</sub>	1	T <sub>acr</sub>	6.1
r <sub>acrmax</sub>	12		
Farimin	1	T <sub>ari</sub>	6.1
r <sub>arimax</sub>	12	un	
r <sub>cgmin</sub>	1	T <sub>cg</sub>	6.1
r <sub>cgmax</sub>	12	-9	
r <sub>cirpmin</sub>	1	T <sub>cirp</sub>	6.1
r <sub>cirpmax</sub>	12	onp	
r <sub>cirgmin</sub>	1	T <sub>cirq</sub>	6.1
r <sub>cirqmax</sub>	12	011Y	
r <sub>canmin</sub>	1	T <sub>can</sub>	6.1
r <sub>canmax</sub>	12	oun	
r <sub>cimin</sub>	1	T <sub>ci</sub>	6.1
T <sub>cimax</sub>	72	0	
	1	inued)	

#### Table 4: ATS timer values

ATS timer name	ATS timer value [s]	ETS timer name	Reference to ETS 300 374-1 [1]
T <sub>conmin</sub>	1	T <sub>con</sub>	6.1
T <sub>conmax</sub>	12		
T <sub>ctrmin</sub>	1	T <sub>ctr</sub>	6.1
T <sub>ctrmax</sub>	12		
T <sub>cuemin</sub>	1	T <sub>cue</sub>	6.1
T <sub>cuemax</sub>	12		
T <sub>dfcmin</sub>	1	T <sub>dfc</sub>	6.1
T <sub>dfcmax</sub>	12		
T <sub>etcmin</sub>	1	T <sub>etc</sub>	6.1
T <sub>etcmax</sub>	72		
T <sub>encmin</sub>	1	T <sub>enc</sub>	6.1
T <sub>encmax</sub>	12		
T <sub>erbmin</sub>	1	T <sub>erb</sub>	6.1
T <sub>erbmax</sub>	12		
T <sub>fcimin</sub>	1	T <sub>fci</sub>	6.1
Г <sub>fcimax</sub>	12		
Г <sub>idpmin</sub>	1	T <sub>idp</sub>	6.1
Г <sub>іdpmax</sub>	12	-	
Г <sub>ісатіп</sub>	1	T <sub>ica</sub>	6.1
Г <sub>ісатах</sub>	12		
Г <sub>rcmin</sub>	1	T <sub>rc</sub>	6.1
r <sub>rcmax</sub>	12		
Г <sub>rncmin</sub>	1	T <sub>rnc</sub>	6.1
r <sub>ncmax</sub>	12		
r <sub>rrbmin</sub>	1	T <sub>rrb</sub>	6.1
r <sub>rrbmax</sub>	12		
Г <sub>rtmin</sub>	1	T <sub>rt</sub>	6.1
Г <sub>rtmax</sub>	12		
Г <sub>scimin</sub>	1	T <sub>sci</sub>	6.1
Г <sub>scimax</sub>	12		
T <sub>sfrmin</sub>	1	T <sub>sfr</sub>	6.1
Г <sub>sfrmax</sub>	12	-	
Г <sub>раmin</sub>	1	T <sub>pa</sub>	6.1
F <sub>pamax</sub>	1 800	•	
Г <sub>рсmin</sub>	1	T <sub>pc</sub>	6.1
Г <sub>рсmax</sub>	1 800	r -	
r srrmin	1	T <sub>srr</sub>	6.1
r <sub>srrmax</sub>	12	511	
NOTE: The value	of this timer is given in	ETS 300 374-2 [2].	1

# Table 4 (concluded): ATS timer values

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# 5 Test Purposes (TP)

# 5.1 Introduction

For each test requirement a TP is defined.

At the start of each test sub group the preambles and the postambles are listed.

# 5.1.1 Test purpose naming convention

The identifier of the TP is built according to the scheme in table 5.

# Table 5: TP identifier naming convention scheme

Identifier:		IN <t><c><s< th=""><th>&gt;<g><nn></nn></g></th><th></th><th></th></s<></c></t>	> <g><nn></nn></g>		
<t></t>	=	interface:	(1) (2) (3) (4) (5) 6 7 8 9 A (B)	SCP: Basic SCF (bC) SCP: SCF-SSF relay handling (rC) SCP: SCF Assist with relay handling (aC) SCP: SCF direct path IP handling (pC) SCP: SCF-SDF handling (dC) SSP: Basic SSF (bS) SSP: SSF relay (rS) SSP: Initiating SSF (iS) SSP: Assisting SSF (aS) IP: SCF-SRF direct path to SCP (cl) SDP: SCF-SDF direct path to SCP (cD)	(not used) (not used) (not used) (not used) (not used)
<c></c>	=	category:	1 2 3 4 5	BIT, Basic Interconnection tests CA, Capability tests BV, Valid Behaviour tests BI, Invalid Behaviour tests BO, Inopportune Behaviour tests	(not used)
<\$>	=	state:	0 1 2 3 4 5 6 7 8	not relevant State 1 / State a in case of SSF State 2 / State b in case of SSF State 3 / State c in case of SSF State 4 / State d in case of SSF State 5 / State e in case of SSF State 6 / State f in case of SSF State 7 / State ma in case of SSF State 8 / State mb in case of SSF	
<g></g>	=	group:	0 1 2 3	Network event Operation Return result Operation error	
<nn></nn>	=	sequential n	umber:	(01-99)	

# 5.1.2 Source of test purpose definition

The test purposes are based on ETS 300 374-1 [1]. In each test purpose, a reference to the relevant subclauses of ETS 300 374-1 [1] is made below the test purpose name.

#### 5.1.3 Initial state

The initial state for all SUTs (SSP, IP) shall be "Idle" for all test purposes.

# 5.1.4 Untested procedures

Application Context Name negotiation is not tested. Tests on Application Context Name negotiation shall be part of test purposes and associated ATS for Transaction Capabilities Application Part (TCAP) testing.

### 5.2 Service Switching Point (SSP)

### 5.2.1 Basic SSF - bS

The test group objective is to test the INAP procedures at the SSP for basic functions.

### 5.2.1.1 Capability tests (CA)

The test group objective is to test the SSP general capability of interconnecting with the partner entity.

### 5.2.1.1.1 SSF-FSM state "Idle"

The test group objective is to check the capability of the IUT of establishing a relation between the SCP and SSP initiated by the SSP or by the SCP.

#### 5.2.1.1.1.1 Network events

Preamble: Postamble: IN621001	- ReleaseCall invoke and terminate the dialogue. To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an <b>InitialDP</b> invoke containing all mandatory parameters and all parameters related to the called party, with at least the parameters:</li> <li>serviceKey,</li> <li>calledPartyNumber.</li> </ul>
5.2.1.1.1.2	Operations
Preamble: Postamble:	- ReleaseCall invoke and terminate the dialogue.
IN621101	To ensure that the IUT being in the "Idle" state, receiving an <b>InitiateCallAttempt</b> invoke containing mandatory parameters only, with:
7.1.5.1, 9.20	<ul> <li>destinationRoutingAddress,</li> <li>followed by a RequestReportBCSMEvent invoke with:</li> <li>bcsmEvents including at least:         <ul> <li>eventTypeBCSM (routeSelectFailure),</li> <li>eventTypeBCSM (oCalledPartyBusy),</li> <li>eventTypeBCSM (oNoAnswer),</li> <li>eventTypeBCSM (oAnswer),</li> <li>monitorMode being interrupted,</li> </ul> </li> <li>and a Continue invoke,</li> <li>does not return any error, reject the invoke or abort the dialogue within the</li> </ul>

does not return any error, reject the invoke or abort the dialogue within the operation time out.

# 5.2.1.1.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to check the capability of the IUT to handle Connect operations on a detected IN call.

Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. Terminate the dialogue.
IN623101	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing mandatory parameters only, with:
7.1.5.3, 9.11	- destinationRoutingAddress,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

# 5.2.1.1.3 SSF-FSM state "Monitoring"

The test group objective is to check the capability of the IUT to handle detection point related instructions sent by the SCP.

Preamble: Postamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-R armed on oAnswer, Connect invoke received. ReleaseCall invoke and terminate the dialogue.
IN626001	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on oAnswer,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing all mandatory parameters, with at least the parameter:</li> <li>eventTypeBCSM (oAnswer).</li> </ul>

# 5.2.1.1.4 SSME-FSM state "Idle"

The test group objective is to check the capability of the IUT to handle non call associated operation sent by the SCP.

Preamble: Postamble:	- ActivateServiceFiltering invoke with filteringTimeOut being duration with value = 0.
IN627101	To ensure that the IUT being in the "Idle" state, receiving an <b>ActivateServiceFiltering</b> invoke containing mandatory parameters only, with:
7.1.1.4, 9.1	<ul> <li>filteredCallTreatment including sFBillingChargingCharacteristics only,</li> <li>filteringCharacteristics being interval,</li> <li>filteringTimeOut being duration,</li> <li>filteringCriteria being serviceKey,</li> </ul>
	sends <b>ActivateServiceFiltering</b> result and terminates the dialogue by means of basic end.
Preamble: Postamble:	- CallGap invoke with gapIndicators including duration (0).
IN627102	To ensure that the IUT being in the "Idle" state, receiving a <b>CallGap</b> invoke containing mandatory parameters only, with:
7.1.1.4, 9.6	<ul> <li>gapCriteria being gapOnService,</li> <li>gapIndicators</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation timeout and terminates the dialogue by means of prearranged end.

# 5.2.1.2 Valid Behaviour tests (BV)

The test group objective is to test the SSP capability of reacting correctly on network events and of accepting and if appropriate responding to PDUs (operations, operation errors) that are syntactically and semantically valid.

# 5.2.1.2.1 SSF-FSM state "Idle"

The test group objective is to check that a valid operation InitialDP is sent to the SCP and a valid InitiateCallAttempt operation is accepted in the SSF-FSM state "Idle".

5.2.1.2.1.1	Network events
Preamble: Postamble:	- ReleaseCall invoke and terminate the dialogue.
IN631001	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	initiates a dialogue and sends an <b>InitialDP</b> invoke containing all mandatory parameters and all parameters related to the called party, with at least the parameters: - serviceKey, - calledPartyNumber.
IN631002	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	initiates a dialogue and sends an <b>InitialDP</b> invoke containing all mandatory parameters and all parameters related to the calling party, with at least the parameters: - serviceKey, - callingPartyNumber.
IN631003	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to the calling party, with at least the parameters:</li> <li>serviceKey,</li> <li>callingPartysCategory.</li> </ul>
IN631004	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to location information, with at least the parameters:</li> <li>serviceKey,</li> <li>locationNumber.</li> </ul>
IN631005	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to supplementary services, with at least the parameters:</li> <li>serviceKey,</li> <li>originalCalledPartyID.</li> </ul>

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IN631006	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to supplementary services, with at least the parameters:</li> <li>serviceKey,</li> <li>forwardCallIndicators.</li> </ul>
IN631007	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to supplementary services, with at least the parameters:</li> <li>serviceKey,</li> <li>redirectingPartyID.</li> </ul>
IN631008	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to supplementary services, with at least the parameters:</li> <li>serviceKey,</li> <li>redirectionInformation.</li> </ul>
IN631009	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to the type of connection and teleservice, with at least the parameters:</li> <li>serviceKey,</li> <li>highLayerCompatibility,</li> <li>bearerCapability being bearerCap.</li> </ul>
IN631010	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and all parameters related to additional information, with at least the parameters:</li> <li>serviceKey,</li> <li>additionalCallingPartyNumber.</li> </ul>
IN631011	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and indicating the TDP, with at least the parameters:</li> <li>serviceKey,</li> <li>eventTypeBCSM.</li> </ul>
IN631012	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and the network operator specific parameter indicating SRF capabilities, with at least the parameters:</li> <li>serviceKey,</li> <li>iPSSPCapabilities.</li> </ul>

IN631013	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and the network operator specific parameter indicating IP availability, with at least the parameters:</li> <li>serviceKey,</li> <li>iPAvailable.</li> </ul>
IN631014	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	initiates a dialogue and sends an <b>InitialDP</b> invoke containing all mandatory parameters and network operator specific extensions, with at least the parameters: - serviceKey, - extensions.
IN631015	To ensure that the IUT being in the "Idle" state, at detection of a TDP,
7.1.5.1, 9.19	<ul> <li>initiates a dialogue and sends an InitialDP invoke containing all mandatory parameters and the network operator specific parameter indicating service interaction, with at least the parameters:</li> <li>serviceKey,</li> <li>serviceInteractionIndicators.</li> </ul>
Preamble: Postamble:	Call Gap invoke sent. ReleaseCall invoke and terminate the dialogue.
IN631016	To ensure that the IUT being in the "Idle" state, at detection of a TDP which matches the Call Gap Criteria,
7.1.5.1, 9.19	initiates a dialogue and sends an <b>InitialDP</b> invoke containing all mandatory parameters and indicating call gapping encountered, with at least the parameters: - serviceKey, - cGEncountered.
5.2.1.2.1.2	Operations
Preamble: Postamble:	- ReleaseCall invoke and terminate the dialogue.
IN631101 7.1.5.1, 9.20	To ensure that the IUT being in the "Idle" state, receiving an InitiateCallAttempt invoke containing mandatory parameters only, with: - destinationRoutingAddress, followed by a RequestReportBCSMEvent invoke with: - bCSMEvent being at least - eventTypeBCSM (routeSelectFailure), - eventTypeBCSM (oCalledPartyBusy), - eventTypeBCSM (oNoAnswer), - eventTypeBCSM (oAnswer), - monitorMode being interrupted, and a Continue invoke does not return any error, reject the invoke or abort the dialogue within the
	operation time out.

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IN631102 7.1.5.1, 9.20	To ensure that the IUT being in the "Idle" state, receiving an InitiateCallAttempt invoke containing mandatory and optional parameters, with: - destinationRoutingAddress, - alertingPattern, - callingPartyNumber, followed by a RequestReportBCSMEvent invoke with: - bCSMEvent being at least - eventTypeBCSM (routeSelectFailure), - eventTypeBCSM (oCalledPartyBusy), - eventTypeBCSM (oNoAnswer), - eventTypeBCSM (oAnswer), - monitorMode being interrupted, and a Continue invoke does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN631103 7.1.5.1, 9.20	To ensure that the IUT being in the "Idle" state, receiving an InitiateCallAttempt invoke containing network operator specific extensions, with: - destinationRoutingAddress, - extensions, followed by a RequestReportBCSMEvent invoke with: - bCSMEvent being at least - eventTypeBCSM (routeSelectFailure), - eventTypeBCSM (oCalledPartyBusy), - eventTypeBCSM (oNoAnswer), - eventTypeBCSM (oNoAnswer), - monitorMode being interrupted, and a Continue invoke does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN631104 7.1.5.1, 9.20	To ensure that the IUT being in the "Idle" state, receiving an InitiateCallAttempt invoke containing the network operator specific parameter indicating service interaction, with: - destinationRoutingAddress, - serviceInteractionIndicators, followed by a RequestReportBCSMEvent invoke with: - bCSMEvent being at least - eventTypeBCSM (routeSelectFailure), - eventTypeBCSM (oCalledPartyBusy), - eventTypeBCSM (oNoAnswer), - eventTypeBCSM (oAnswer), - monitorMode being interrupted, and a Continue invoke does not return any error, reject the invoke or abort the dialogue within the operation time out.

# 5.2.1.2.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that the SSF reacts correctly on network events, expiration of the application timer  $T_{SSF}$ , and a valid operation or operation sequence is accepted in the SSF-FSM state "Waiting for Instructions".

5.2.1.2.2.1	Network events
Preamble:	Trigger detected. InitialDP invoke has been sent. ResetTimer invoke has been received.
Postamble:	-
IN633001	To ensure that the IUT being in the "Waiting For Instructions State", at detection of calling party abandon and no call information or charging reports pending,
7.1.5.	aborts the dialogue.
IN633002	To ensure that the IUT being in the "Waiting For Instructions" state, at detection of ${\sf T}_{\rm SSF}$ expiration,
7.1.5.1, 8.3.1	aborts the dialogue.
Preamble:	Originating trigger detected. InitialDP invoke has been sent. oAbandon DP is armed as an EDP-N.
Postamble:	
IN633003	To ensure that the IUT being in the "Waiting For Instructions State", at detection of calling party abandon as an EDP-N
7.1.5.	sends an <b>EventReportBCSM</b> and terminates the dialogue by means of prearranged end.
Preamble:	Originating trigger detected. InitialDP invoke has been sent. oAbandon DP is armed as an EDP-N and call information report is requested.
Postamble:	-
	To ensure that the IUT being in the "Waiting For Instructions State", at detection of calling party abandon as an EDP-N and call information report pending,
	sends an <b>EventReportBCSM</b> followed by a <b>CallInformationReport</b> invoke and terminates the dialogue by means of prearranged end.
Preamble: Postamble:	Originating trigger detected. InitialDP invoke has been sent. oDisconnect DP and oMidCall are armed as EDP-R for leg 2. Continue invoke received. MidCall Event has occurred and EventReportBCSM invoke has been sent. ReleaseCall invoke and terminate the dialogue.
IN633005	To ensure that the IUT being in the "Waiting For Instructions State", at detection of call party disconnection as an EDP-R,
7.1.5.	<ul> <li>sends an EventReportBCSM invoke, containing all mandatory parameters, with at least:</li> <li>eventTypeBCSM (oDisconnect), and does not terminate the dialogue.</li> </ul>

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Preamble:	Terminating trigger detected. InitialDP invoke has been sent. tAbandon DP is armed as an EDP-N.
Postamble:	-
IN633006	To ensure that the IUT being in the "Waiting For Instructions State", at detection of calling party abandon as an EDP-N
7.1.5.	sends an <b>EventReportBCSM</b> invoke, containing all mandatory parameters, with at least: - eventTypeBCSM (oAbandon), and terminates the dialogue by means of prearranged end.
Preamble:	Terminating trigger detected. InitialDP invoke has been sent. tAbandon DP is armed as an EDP-N and call information report is requested.
Postamble:	-
IN633007	To ensure that the IUT being in the "Waiting For Instructions State", at detection of calling party abandon as an EDP-N and call information report pending,
7.1.5.	sends an <b>EventReportBCSM</b> invoke, containing all mandatory parameters, with at least: - eventTypeBCSM (oAbandon), followed by a <b>CallInformationReport</b> invoke, and terminates the dialogue by means of prearranged end.
Preamble: Postamble:	Terminating trigger detected. InitialDP invoke has been sent. tDisconnect DP and tMidCall are armed as EDP-R for leg 2. Continue invoke received. MidCall Event has occurred and EventReportBCSM invoke (tMidCall) has been sent. ReleaseCall invoke and terminate the dialogue.
IN633008	To ensure that the IUT being in the "Waiting For Instructions State", at detection of call party disconnection as an EDP-R,
7.1.5.	sends an <b>EventReportBCSM</b> invoke, containing all mandatory parameters, with at least: - eventTypeBCSM (oDisconnect) and does not terminate the dialogue.
5.2.1.2.2.2	Operations
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. Terminate the dialogue.
IN633101	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing mandatory parameters only, with:
7.1.5.3, 9.11	- destinationRoutingAddress,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633102	To ensure that the IUT being in the "Waiting For Instructions" state, receiving <b>Connect</b> invoke containing parameters valid for local exchanges only, with:
7.1.5.3, 9.11	<ul> <li>destinationRoutingAddress,</li> <li>alertingPattern,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

IN633103 7.1.5.3, 9.11	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing parameters, valid for transit exchanges only with: - destinationRoutingAddress, - routeList,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633104 7.1.5.3, 9.11	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing cutAndPaste parameter with minimum value as stated in ETS 300 374-2 [2], with: - destinationRoutingAddress, - cutAndPaste,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633105 7.1.5.3, 9.11	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing cutAndPaste parameter with maximum value as stated in ETS 300 374-2 [2], with: - destinationRoutingAddress, - cutAndPaste, does not return any error, reject the invoke or abort the dialogue within the
	operation time out.
IN633106 7.1.5.3, 9.11	<ul> <li>To ensure that the IUT being in the "Waiting For Instructions" state, receiving a</li> <li>Connect invoke containing parameters related to supplementary services, with:</li> <li>destinationRoutingAddress,</li> <li>originalCalledPartyID,</li> <li>redirectingPartyID,</li> <li>redirectionInformation,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633107 7.1.5.3, 9.11	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing mandatory and optional parameters related to the calling party, with: - destinationRoutingAddress, - callingPartyNumber, - callingPartysCategory,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633108	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing network operator specific extensions, with:
7.1.5.3, 9.11	<ul> <li>destinationRoutingAddress,</li> <li>extensions,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633109	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke containing the network operator specific parameter indicating service
7.1.5.3, 9.11	<ul> <li>interaction, with:</li> <li>destinationRoutingAddress,</li> <li>serviceInteractionIndicators,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

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IN633110	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>ReleaseCall</b> invoke, with:
7.1.5.3, 9.23	- cause,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633111	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Continue</b> invoke,
7.1.5.3, 9.13	does not return any error, reject the invoke or abort the dialogue within the operation time out.
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. Connect invoke and terminate the dialogue.
IN633112	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>SendChargingInformation</b> invoke containing mandatory parameters only, with:
7.1.5.3, 9.27	<ul> <li>sCIBillingChargingCharacteristics,</li> <li>legID being sendingSideID (leg1),</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633113	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>SendChargingInformation</b> invoke containing network operator specific extensions,
7.1.5.3, 9.27	<ul> <li>with:</li> <li>sCIBillingChargingCharacteristics,</li> <li>legID being sendingSideID,</li> <li>extensions,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. ReleaseCall invoke and terminate the dialogue.
IN633114	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>FurnishChargingInformation</b> invoke,
7.1.5.3, 9.18	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633115	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>ResetTimer</b> invoke containing mandatory parameters only, with:
7.1.5.3, 9.26	- timerValue being minimum value as stated in ETS 300 374-2 [2],
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633116	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>ResetTimer</b> invoke containing mandatory and optional parameters, with:
7.1.5.3, 9.26	<ul> <li>timerID (0),</li> <li>timerValue being minimum value as stated in ETS 300 374-2 [2],</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

IN633117	To ensure that the IUT being in the "Waiting For Instructions" state, receiving <b>ResetTimer</b> invoke containing network operator specific extensions, with:
7.1.5.3, 9.26	<ul> <li>timerValue being minimum value as stated in ETS 300 374-2 [2],</li> <li>extensions,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
Preamble: Postamble:	Originating trigger detected. InitialDP invoke has been sent. Cancel invoke with allRequests and terminate the dialogue.
IN633118 7.1.5.3, 9.25	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP and containing mandatory parameters only, with: - bcsmEvents including: - eventTypeBCSM (analyzedInformation), - monitorMode (interrupted), followed by <b>Continue</b> invoke,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633119 7.1.5.3, 9.25	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating multiple EDPs and containing mandatory and optional parameters, with: - bcsmEvents including: - eventTypeBCSM (routeSelectFailure), - monitorMode (notifyAndContinue), also including: - eventTypeBCSM (oCalledPartyBusy), - monitorMode (notifyAndContinue), also including: - eventTypeBCSM (oNoAnswer), - monitorMode (notifyAndContinue), - dPSpecificCriteria being applicationTimer, and including: - eventTypeBCSM (oAnswer), - monitorMode (interrupted), followed by <b>Connect</b> invoke containing mandatory parameters only, does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633120 7.1.5.3, 9.25	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP and containing mandatory parameters only, with: <ul> <li>bcsmEvents including:</li> <li>eventTypeBCSM (oAbandon),</li> <li>monitorMode (notifyAndContinue),</li> </ul> <li>followed by <b>Continue</b> invoke,</li> <li>does not return any error, reject the invoke or abort the dialogue within the operation time out.</li>

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- To ensure that the IUT being in the "Waiting For Instructions" state, receiving a IN633121 **RequestReportBCSMEvent** invoke indicating a single EDP on a specific leg, with: 7.1.5.3, bcsmEvents including: eventTypeBCSM (oMidCall), 9.25 monitorMode (interrupted), legID being sendingSideID (leg1), followed by **Continue** invoke, does not return any error, reject the invoke or abort the dialogue within the operation time out. IN633122 To ensure that the IUT being in the "Waiting For Instructions" state, receiving a **RequestReportBCSMEvent** invoke indicating multiple EDPs on different legs, with: 7.1.5.3, bcsmEvents including: eventTypeBCSM (oDisconnect), 9.25 monitorMode (notifyAndContinue), legID being sendingSideID (leg1), eventTypeBCSM (oDisconnect), monitorMode (transparent). legID being sendingSideID (leg2), followed by Continue invoke, does not return any error, reject the invoke or abort the dialogue within the operation time out. IN633123 To ensure that the IUT being in the "Waiting For Instructions" state, receiving a RequestReportBCSMEvent invoke containing network operator specific extensions, 7.1.5.3, with: bcsmEvents including: 9.25 eventTypeBCSM (oDisconnect) monitorMode (notifyAndContinue) legID being sendingSideID (leg1), extensions, followed by **Connect** invoke containing mandatory parameters only, does not return any error, reject the invoke or abort the dialogue within the operation time out. Preamble: Terminating trigger detected. InitialDP invoke has been sent. **Postamble:** Cancel invoke with allRequests and terminate the dialogue. IN633124 To ensure that the IUT being in the "Waiting For Instructions" state, receiving a RequestReportBCSMEvent invoke indicating a single EDP and containing mandatory parameters only, with: 7.1.5.3, bcsmEvents including: 9.25 eventTypeBCSM (tAbandon), -\_ monitorMode (interrupted), followed by **Connect** invoke containing mandatory parameters only,
  - does not return any error, reject the invoke or abort the dialogue within the operation time out.

IN633125 9.25	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating multiple EDPs and containing mandatory and optional parameters, with: - bcsmEvents including: - eventTypeBCSM (tCalledPartyBusy), - monitorMode (interrupted), - eventTypeBCSM (tNoAnswer), - monitorMode (interrupted), - dPSpecificCriteria being applicationTimer, - eventTypeBCSM (tAnswer), - monitorMode (notifyAndContinue), followed by <b>Connect</b> invoke containing mandatory parameters only, does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633126	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a
7.1.5.3, 9.25	RequestReportBCSMEvent invoke indicating a single EDP on a specific leg, with:         -       bcsmEvents including:         -       eventTypeBCSM (tMidCall),         -       monitorMode (transparent),         -       legID being sendingSideID (leg2),         followed by Connect invoke containing mandatory parameters only,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633127 7.1.5.3, 9.25	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating multiple EDPs on different legs, with: - bcsmEvents including: - eventTypeBCSM (tDisconnect), - monitorMode (transparent), - legID being sendingSideID (leg1), - eventTypeBCSM (tDisconnect), - monitorMode (interrupted), - legID being sendingSideID (leg2), followed by <b>Continue</b> invoke, does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633128	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke containing network operator specific extensions, with:
7.1.5.3, 9.25	<ul> <li>bcsmEvents including:</li> <li>eventTypeBCSM (tDisconnect),</li> <li>monitorMode (notifyAndContinue),</li> <li>legID being sendingSideID (leg1),</li> <li>extensions,</li> <li>followed by <b>Connect</b> invoke containing mandatory parameters only,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

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Preamble: Postamble:	Trigger detected. InitiaIDP invoke has been sent. ReleaseCall invoke and terminate the dialogue.
IN633129 7.1.5.3, 9.3	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>ApplyCharging</b> invoke containing mandatory parameters only, with: - aChBillingChargingCharacteristics, - sendCalculationToSCPIndication (TRUE), followed by <b>Connect</b> invoke containing mandatory parameters only,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633130 7.1.5.3, 9.3	<ul> <li>To ensure that the IUT being in the "Waiting For Instructions" state, receiving an ApplyCharging invoke containing mandatory and optional parameters, with:</li> <li>aChBillingChargingCharacteristics,</li> <li>sendCalculationToSCPIndication (TRUE),</li> <li>partyToCharge being sendingSideID (leg1),</li> <li>followed by Continue invoke,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633131 7.1.5.3, 9.3	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>ApplyCharging</b> invoke containing network operator specific extensions, with: - aChBillingChargingCharacteristics, - sendCalculationToSCPIndication (TRUE), - extensions, followed by <b>Connect</b> invoke containing mandatory parameters only,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633132 7.1.5.3, 9.24	<ul> <li>To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestNotificationChargingEvent</b> invoke containing mandatory parameters only, with:</li> <li>eventTypeCharging,</li> <li>monitorMode (interrupted),</li> <li>followed by <b>Connect</b> invoke containing mandatory parameters only,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633133	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestNotificationChargingEvent</b> invoke containing mandatory and optional
7.1.5.3, 9.24	parameters, with: - eventTypeCharging, - monitorMode (notifyAndContinue), - legID being sendingSideID (leg2), followed by <b>Continue</b> invoke,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633134 7.1.5.3, 9.8	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>CallInformationRequest</b> invoke indicating a single information type, with: - requestedInformationTypeList (releaseCause), followed by <b>Continue</b> invoke,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

IN633135 7.1.5.3, 9.8	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>CallInformationRequest</b> invoke indicating multiple types of information, with: - requestedInformationTypeList (callAttempt ElapsedTime), followed by <b>Continue</b> invoke,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633136	To ensure that the IUT being in the "Waiting For Instructions" state, receivi <b>CallInformationRequest</b> invoke indicating multiple types of information, with:
7.1.5.3, 9.8	<ul> <li>requestedInformationTypeList (callStopTime),</li> <li>followed by <b>Continue</b> invoke,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633137	To ensure that the IUT being in the "Waiting For Instructions" state, receiving <b>CallInformationRequest</b> invoke indicating multiple types of information, with: - requestedInformationTypeList (callConnectedElapsedTime), followed by <b>Continue</b> invoke,
7.1.5.3, 9.8	
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633138	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>CallInformationRequest</b> invoke indicating multiple types of information, with:
7.1.5.3, 9.8	<ul> <li>requestedInformationTypeList (calledAddress),</li> <li>followed by <b>Continue</b> invoke,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN633139 7.1.5.3,	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>CallInformationRequest</b> invoke containing network operator specific extensions, with: - requestedInformationTypeList (releaseCause),
9.8	- extensions, followed by <b>Connect</b> invoke containing mandatory parameters only,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
5.2.1.2.2.3	Operation errors
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent.
IN633301	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error <b>MissingCustomerRecord</b> on InitialDP,
7.1.5.3, 9.19	returns to "Idle" state.
IN633302	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error <b>MissingParameter</b> on InitialDP,
7.1.5.3, 9.19	returns to "Idle" state.
IN633303	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error <b>SystemFailure</b> on InitialDP,
7.1.5.3, 9.19	returns to "Idle" state.

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- ETS 300 374-3: February 1996 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error IN633304 TaskRefused on InitialDP. 7.1.5.3, 9.19 returns to "Idle" state. IN633305 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error UnexpectedComponentSequence on InitialDP, 7.1.5.3, 9.19 returns to "Idle" state. IN633306 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error UnexpectedDataValue on InitialDP, 7.1.5.3, 9.19 returns to "Idle" state. IN633307 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error UnexpectedParameter on InitialDP, 7.1.5.3. 9.19 returns to "Idle" state. Preamble: Trigger detected. InitialDP invoke has been sent ApplyCharging invoke has been received requesting a report at end of connection and Disconnect DP has been armed as an EDP-R. Disconnection event is detected. IUT sends ApplyChargingReport invoke followed by EventReportBCSM invoke. **Postamble:** IN633308 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error MissingParameter on ApplyChargingReport, 7.1.5.3, 9.4 returns to "Idle" state. IN633309 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error UnexpectedComponentSequence on ApplyChargingReport, 9.4 returns to "Idle" state. IN633310 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **UnexpectedParameter** on ApplyChargingReport, 7.1.5.3, returns to "Idle" state. 9.4 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error IN633311 UnexpectedDataValue on ApplyChargingReport, 7.1.5.3, 9.4 returns to "Idle" state. IN633312 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error ParameterOutOfRange on ApplyChargingReport,
  - 7.1.5.3. returns to "Idle" state. 9.4
  - IN633313 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error SystemFailure on ApplyChargingReport, 7.1.5.3,
  - returns to "Idle" state. 9.4
  - IN633314 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error TaskRefused on ApplyChargingReport,
  - 7.1.5.3, returns to "Idle" state. 9.4

# 5.2.1.2.3 SSF-FSM state "Monitoring"

The test group objective is to check that the SSF reacts correctly on network events and a valid operation or operation sequence is accepted in the SSF FSM state "Monitoring".

5.2.1.2.3.1	Network events
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-R armed on oAnswer, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636001	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on oAnswer,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing all mandatory parameters, with at least the parameter:</li> <li>eventTypeBCSM (oAnswer).</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-R armed on
Postamble:	oAbandon, Connect invoke received. ReleaseCall invoke and terminate the dialogue.
IN636002	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on oAbandon,
7.1.5.6, 9.17	sends an <b>EventReportBCSM</b> invoke, containing all mandatory parameters, with at least the parameter: - eventTypeBCSM (oAbandon).
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-R armed on routeSelectFailure, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636003	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on routeSelectFailure,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (routeSelectFailure),</li> <li>eventSpecificInformationBCSM being routeSelectFailureSpecificInfo including failureCause.</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-R armed on collectedInfo with dPSpecificCriteria being numberOfDigits (1). CollectInformation invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636004	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on collectedInfo,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (collectInfo),</li> <li>eventSpecificInformationBCSM being collectedInfoSpecificInfo including calledPartyNumber.</li> </ul>

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Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-N armed on oNoAnswer with dPSpecificCriteria being applicationTimer with the minimum value as stated in ETS 300 374-2 [2], Connect invoke received.
Postamble:	Terminate the dialogue.
IN636005	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on oNoAnswer,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with:</li> <li>eventTypeBCSM (oNoAnswer),</li> <li>miscCallInfo including messageType (notification) and terminates the dialogue by means of prearranged end.</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-N armed on oCalledPartyBusy, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636006	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on oCalledPartyBusy,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (oCalledPartyBusy),</li> <li>miscCallInfo including messageType (notification),</li> <li>eventSpecificInformationBCSM being oCalledPartyBusySpecificInfo including busyCause</li> <li>and terminates the dialogue by means of prearranged end.</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-N armed on analyzedInformation, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636007	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on analyzedInformation,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (analyzedInformation),</li> <li>miscCallInfo including messageType (notification),</li> <li>eventSpecificInformationBCSM being analyzedInfoSpecificInfo including calledPartyNumber</li> <li>and terminates the dialogue by means of prearranged end.</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-N armed on oMidCall for leg 1, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636008	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on oMidCall for leg 1,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (oMidCall),</li> <li>legID being receivingSideID (leg1),</li> <li>miscCallInfo including messageType (notification) and terminates the dialogue by means of prearranged end.</li> </ul>

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Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-R armed on oDisconnect for leg 1, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636009	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on oDisconnect for leg 1, $% \left( {{\left[ {{L_{\rm s}} \right]} \right]_{\rm state}} \right)$
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (oDisconnect),</li> <li>legID being receivingSideID (leg1),</li> <li>eventSpecificInformationBCSM being oDisconnectSpecificInfo including releaseCause.</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. EDP-N armed on oCalledPartyBusy, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636010	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on oCalledPartyBusy,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing network operator specific extensions, with at least the parameters:</li> <li>eventTypeBCSM (oCalledPartyBusy),</li> <li>extensions.</li> </ul>
Preamble:	Originating trigger detected. InitialDP invoke has been sent. Charging event notification is requested and EDP-N on oDisconnect armed, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636011	To ensure that the IUT being in the "Monitoring" state, at detection of a charging event,
7.1.5.6, 9.16	sends an <b>EventNotificationCharging</b> invoke, containing mandatory parameters only, with at least the parameters: - eventTypeCharging.
IN636012	To ensure that the IUT being in the "Monitoring" state, at detection of a charging event,
7.1.5.6, 9.16	<ul> <li>sends an EventNotificationCharging invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeCharging,</li> <li>eventSpecificInformationCharging.</li> </ul>
IN636013	To ensure that the IUT being in the "Monitoring" state, at detection of a charging event,
7.1.5.6, 9.16	<ul> <li>sends an EventNotificationCharging invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeCharging,</li> <li>monitorMode.</li> </ul>
IN636014	To ensure that the IUT being in the "Monitoring" state, at detection of a charging event,
7.1.5.6, 9.16	<ul> <li>sends an EventNotificationCharging invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeCharging,</li> <li>legID being receivingSideID.</li> </ul>

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IN636015	To ensure that the IUT being in the "Monitoring" state, at detection of a charging event,
7.1.5.6, 9.16	<ul> <li>sends an EventNotificationCharging invoke, containing network operator specific extensions, with at least the parameters:</li> <li>eventTypeCharging,</li> <li>extensions.</li> </ul>
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. Call information is requested including releaseCause, Connect invoke received. Terminate the dialogue.
IN636016	To ensure that the IUT being in the "Monitoring" state, at detection of call release,
7.1.5.6, 9.7	<ul> <li>sends a CallInformationReport invoke, containing mandatory parameters only and indicating a single information type, with at least the parameters:</li> <li>requestedInformationList including: <ul> <li>requestedInformationType (releaseCause),</li> <li>requestedInformationValue being releaseCauseValue and terminates the dialogue by means of prearranged end.</li> </ul> </li> </ul>
Preamble:	Trigger detected. InitialDP invoke has been sent. Call information is requested including callAttemptElapsedTime, callStopTime, callConnectedElapsedTime and calledAddress, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636017	To ensure that the IUT being in the "Monitoring" state, at detection of call release,
7.1.5.6, 9.7	<ul> <li>sends a CallInformationReport invoke, containing mandatory parameters only and indicating a multiple information type, with at least the parameters:</li> <li>requestedInformationList including: <ul> <li>requestedInformationType (callAttemptElapsedTime),</li> <li>requestedInformationType (callStopTime),</li> <li>requestedInformationType (callStopTime),</li> <li>requestedInformationValue being callStopTimeValue, also including:</li> <li>requestedInformationType (callConnectedElapsedTime),</li> <li>requestedInformationValue being callConnectedElapsedTime),</li> <li>requestedInformationValue being callConnectedElapsedTime),</li> <li>requestedInformationValue being callConnectedElapsedTime),</li> <li>requestedInformationValue being callConnectedElapsedTime,</li> <li>requestedInformationValue being callConnectedElapsedTime,</li> <li>requestedInformationValue being callConnectedElapsedTime,</li> </ul> </li> </ul>
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. Call information is requested, Connect invoke received. Terminate the dialogue.
IN636018	To ensure that the IUT being in the "Monitoring" state, at detection of call release,
7.1.5.6, 9.7	sends a <b>CallInformationReport</b> invoke, containing network operator specific extensions, with at least the parameters: - requestedInformationList,

- extensions and terminates the dialogue by means of prearranged end.

Preamble:	Trigger detected. InitialDP invoke has been sent. ApplyCharging invoke and Connect invoke received.
Postamble:	Terminate the dialogue.
	To ensure that the IUT being in the "Monitoring" state, at detection of conditions for charging report,
7.1.5.6, 9.4	sends an <b>ApplyChargingReport</b> invoke, with: - callResult.
Preamble:	Originating trigger detected. InitialDP invoke has been sent. oDisconnect DP is armed as an EDP-N and apply charging report is requested for end of call, Connect invoke received.
Postamble:	Terminate the dialogue.
	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on oDisconnect with legID being sendingSideID (leg1) and conditions for charging report,
7.1.5.	sends an <b>EventReportBCSM</b> invoke, followed by an <b>ApplyChargingReport</b> invoke, terminates the dialogue by means of prearranged end.
Preamble:	Originating trigger detected. InitialDP invoke has been sent. oDisconnect DP is armed as an EDP-R and call information requested, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on oDisconnect,
7.1.5.	sends a <b>CallInformationReport</b> invoke, followed by an <b>EventReportBCSM</b> invoke and does not terminate the dialogue.
Preamble:	Originating trigger detected. InitialDP invoke has been sent. oAnswer is armed as an EDP-N, Connect invoke received.
Postamble:	-
IN636022	To ensure that the IUT being in the "Monitoring" state, at detection of a calling party abandon,
7.1.5.	aborts the dialogue.
Preamble:	Terreinsting tripped detected initial DD is she had been set. CDD D
	Terminating trigger detected. InitialDP invoke has been sent. EDP-R armed on tNoAnswer, Connect invoke received.
Postamble:	
IN636023	tNoAnswer, Connect invoke received.

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Preamble:	Terminating trigger detected. InitialDP invoke has been sent. EDP-R armed on tCalledPartyBusy, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636024	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on tCalledPartyBusy,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (tCalledPartyBusy),</li> <li>eventSpecificInformationBCSM being tCalledPartyBusySpecificInfo including busyCause.</li> </ul>
Preamble: Postamble:	Terminating trigger detected. InitialDP invoke has been sent. EDP-N armed on tAnswer, Connect invoke received. Terminate the dialogue.
IN636025	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on tAnswer,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (tAnswer),</li> <li>miscCallInfo including messageType (notification) and terminates the dialogue by means of prearranged end.</li> </ul>
Preamble: Postamble:	Terminating trigger detected. InitialDP invoke has been sent. EDP-N armed on tAbandon, Connect invoke received. Terminate the dialogue.
IN636026	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on tAbandon,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (tAbandon),</li> <li>miscCallInfo including messageType (notification) and terminates the dialogue by means of prearranged end.</li> </ul>
Preamble:	Terminating trigger detected. InitialDP invoke has been sent. EDP-R armed on tMidCall for leg 2, Connect invoke received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN636027	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-R on tMidCall for leg 2,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (tMidCall),</li> <li>legID being receivingSideID (leg2).</li> </ul>

Preamble:	Terminating trigger detected. InitialDP invoke has been sent. EDP-N armed on tDisconnect for leg 2, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636028	To ensure that the IUT being in the "Monitoring" state, at detection of an EDP-N on tDisconnect for leg 2,
7.1.5.6, 9.17	<ul> <li>sends an EventReportBCSM invoke, containing mandatory and optional parameters, with at least the parameters:</li> <li>eventTypeBCSM (tDisconnect),</li> <li>legID being receivingSideID (leg2),</li> <li>miscCallInfo including messageType (notification),</li> <li>eventSpecificInformationBCSM being tDisconnectSpecificInfo including releaseCause</li> <li>and terminates the dialogue by means of prearranged end.</li> </ul>
5.2.1.2.3.2	Operations
Preamble:	Trigger detected. InitialDP invoke has been sent. Call information is requested, Connect invoke received.
Postamble:	Cancel invoke with allRequests and terminate the dialogue.
IN636101	To ensure that the IUT being in the "Monitoring" state, receiving an ActivityTest invoke,
7.1.1.4, 9.2	sends an ActivityTest result.
Preamble:	Originating trigger detected. InitialDP invoke has been sent. oDisconnect is armed as an EDP-N, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636102	To ensure that the IUT being in the "Monitoring" state, receiving a <b>ReleaseCall</b> invoke, with cause,
7.1.5.6, 9.23	does not return any error, reject the invoke or abort the dialogue within the operation time out and terminates the dialogue by means of prearranged end.
Preamble:	Trigger detected. InitialDP invoke has been sent. EDPs are armed on oDisconnect and oMidCall, call information is requested, Connect invoke received.
Postamble:	Terminate the dialogue.
IN636103	To ensure that the IUT being in the "Monitoring" state, receiving a <b>Cancel</b> invoke, with allRequests,
9.9	does not return any error, reject the invoke or abort the dialogue within the operation time out and terminates the dialogue by means of prearranged end.
Preamble:	Trigger detected. InitialDP invoke has been sent. Call information is requested, Connect invoke received.
Postamble:	Cancel invoke with allRequests and terminate the dialogue.
IN636104	To ensure that the IUT being in the "Monitoring" state, receiving a <b>SondChargingInformation</b> invoke containing mandatory parameters only, with:
7.1.5.6, 9.27	<ul> <li>SendChargingInformation invoke containing mandatory parameters only, with:</li> <li>sCIBillingChargingCharacteristics,</li> <li>legID being sendingSideID (leg1),</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.

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	To open that the UIT being in the "Manitoring" state receiving o
IN636105	To ensure that the IUT being in the "Monitoring" state, receiving a <b>SendChargingInformation</b> invoke containing network operator specific extensions, with:
7.1.5.6, 9.27	<ul> <li>sCIBillingChargingCharacteristics,</li> <li>legID being sendingSideID,</li> <li>extensions,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636106 7.1.5.6, 9.25	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP and containing mandatory parameters only, with: - bcsmEvents including: - eventTypeBCSM (analyzedInformation), - monitorMode (interrupted), followed by <b>Continue</b> invoke,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636107 7.1.5.6, 9.25	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating multiple EDPs and containing mandatory and optional parameters, with: - bcsmEvents including: - eventTypeBCSM (routeSelectFailure), - monitorMode (notifyAndContinue), also including: - eventTypeBCSM (oCalledPartyBusy), - monitorMode (notifyAndContinue), also including: - eventTypeBCSM (oNoAnswer), - monitorMode (notifyAndContinue), - dPSpecificCriteria being applicationTimer, and including: - eventTypeBCSM (oAnswer), - monitorMode (interrupted), followed by <b>Connect</b> invoke containing mandatory parameters only, does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636108 7.1.5.6, 9.25	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP and containing mandatory parameters only, with: - bcsmEvents including: - eventTypeBCSM (oAbandon), - monitorMode (notifyAndContinue), followed by <b>Continue</b> invoke,

does not return any error, reject the invoke or abort the dialogue within the operation time out.

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IN636109 7.1.5.6, 9.25	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP on a specific leg, with: - bcsmEvents including: - eventTypeBCSM (oMidCall), - monitorMode (interrupted), - legID being sendingSideID (leg1), followed by <b>Continue</b> invoke, does not return any error, reject the invoke or abort the dialogue within the
IN636110 7.1.5.6, 9.25	<ul> <li>does not return any error, reject the invoke or abort the dialogue within the operation time out.</li> <li>To ensure that the IUT being in the "Monitoring" state, receiving a RequestReportBCSMEvent invoke indicating multiple EDPs on different legs, with:</li> <li>bcsmEvents including: <ul> <li>eventTypeBCSM (oDisconnect),</li> <li>monitorMode (notifyAndContinue),</li> <li>legID being sendingSideID (leg1),</li> <li>eventTypeBCSM (oDisconnect),</li> <li>monitorMode (transparent),</li> <li>legID being sendingSideID (leg2),</li> </ul> </li> </ul>
IN636111 7.1.5.6, 9.25	<ul> <li>does not return any error, reject the invoke or abort the dialogue within the operation time out.</li> <li>To ensure that the IUT being in the "Monitoring" state, receiving a RequestReportBCSMEvent invoke containing network operator specific extensions, with: <ul> <li>bcsmEvents including:</li> <li>eventTypeBCSM (oDisconnect)</li> <li>monitorMode (notifyAndContinue)</li> <li>legID being sendingSideID (leg1),</li> <li>extensions,</li> </ul> </li> <li>followed by Connect invoke containing mandatory parameters only,</li> <li>does not return any error, reject the invoke or abort the dialogue within the</li> </ul>
IN636112 7.1.5.6, 9.25	operation time out. To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP and containing mandatory parameters only, with: - bcsmEvents including: - eventTypeBCSM (tAbandon), - monitorMode (interrupted), followed by <b>Connect</b> invoke containing mandatory parameters only, does not return any error, reject the invoke or abort the dialogue within the operation time out.

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IN636113 9.25	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating multiple EDPs and containing mandatory and optional parameters, with: - bcsmEvents including: - eventTypeBCSM (tCalledPartyBusy), - monitorMode (interrupted), - eventTypeBCSM (tNoAnswer), - monitorMode (interrupted), - dPSpecificCriteria being applicationTimer, - eventTypeBCSM (tAnswer), - monitorMode (notifyAndContinue), followed by <b>Connect</b> invoke containing mandatory parameters only,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636114	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating a single EDP on a specific leg, with:
7.1.5.6, 9.25	<ul> <li>bcsmEvents including:         <ul> <li>eventTypeBCSM (tMidCall),</li> <li>monitorMode (transparent),</li> <li>legID being sendingSideID (leg2),</li> </ul> </li> <li>followed by Connect invoke containing mandatory parameters only,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636115	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke indicating multiple EDPs on different legs, with:
7.1.5.6, 9.25	<ul> <li>bcsmEvents including:         <ul> <li>eventTypeBCSM (tDisconnect),</li> <li>monitorMode (transparent),</li> <li>legID being sendingSideID (leg1),</li> <li>eventTypeBCSM (tDisconnect),</li> <li>monitorMode (interrupted),</li> <li>legID being sendingSideID (leg2),</li> </ul> </li> <li>followed by Continue invoke,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636116	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke containing network operator specific extensions,
7.1.5.6, 9.25	<ul> <li>with:</li> <li>bcsmEvents including: <ul> <li>eventTypeBCSM (tDisconnect),</li> <li>monitorMode (notifyAndContinue),</li> <li>legID being sendingSideID (leg1),</li> </ul> </li> <li>extensions,</li> <li>followed by <b>Connect</b> invoke containing mandatory parameters only,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the

does not return any error, reject the invoke or abort the dialogue within the operation time out.

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Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. ReleaseCall invoke and terminate the dialogue.
IN636117	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestNotificationChargingEvent</b> invoke containing mandatory parameters only,
7.1.5.6, 9.24	<ul> <li>with:</li> <li>eventTypeCharging,</li> <li>monitorMode (interrupted),</li> <li>followed by <b>Connect</b> invoke containing mandatory parameters only,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
IN636118 7.1.5.3, 9.24	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestNotificationChargingEvent</b> invoke containing mandatory and optional parameters, with: - eventTypeCharging, - monitorMode (notifyAndContinue), - legID being sendingSideID (leg2), followed by <b>Continue</b> invoke,
	does not return any error, reject the invoke or abort the dialogue within the operation time out.
5.2.1.2.3.3	Operation errors
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. Call information is requested, Connect invoke received. Conditions for charging report fulfilled, ApplyChargingReport invoke is sent.
IN636301	To ensure that the IUT being in the "Monitoring" state, receiving an error <b>MissingParameter</b> on ApplyChargingReport,
7.1.5.6, 9.4	returns to "Idle" state.
IN636302	To ensure that the IUT being in the "Monitoring" state, receiving an error <b>UnexpectedComponentSequence</b> on ApplyChargingReport,
7.1.5.6, 9.4	returns to "Idle" state.
IN636303	To ensure that the IUT being in the "Monitoring" state, receiving an error <b>UnexpectedParameter</b> on ApplyChargingReport,
7.1.5.6, 9.4	returns to "Idle" state.
IN636304	To ensure that the IUT being in the "Monitoring" state, receiving an error <b>UnexpectedDataValue</b> on ApplyChargingReport,
7.1.5.6, 9.4	returns to "Idle" state.
IN636305	To ensure that the IUT being in the "Monitoring" state, receiving an error <b>ParameterOutOfRange</b> on ApplyChargingReport,
7.1.5.6, 9.4	returns to "Idle" state.
IN636306	To ensure that the IUT being in the "Monitoring" state, receiving an error <b>SystemFailure</b> on ApplyChargingReport,
7.1.5.6, 9.4	returns to "Idle" state.

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IN636307 To ensure that the IUT being in the "Monitoring" state, receiving an error **TaskRefused** on ApplyChargingReport,

7.1.5.6, 9.4 returns to "Idle" state.

# 5.2.1.2.4 SSME-FSM state "Idle"

The test group objective is to check that a valid operation ActivateServiceFiltering or CallGap is accepted in the SSME-FSM state "Idle".

Preamble: Postamble:	- ActivateServiceFiltering invoke with filteringTimeOut being duration with value = 0.
IN637101 7.1.1.4, 9.1	<ul> <li>To ensure that the IUT being in the "Idle" state, receiving an ActivateServiceFiltering invoke containing mandatory parameters only, with:</li> <li>filteredCallTreatment including sFBillingChargingCharacteristics only,</li> <li>filteringCharacteristics being interval,</li> <li>filteringTimeOut being duration,</li> <li>filteringCriteria being serviceKey,</li> <li>sends ActivateServiceFiltering result and terminates the dialogue by means of</li> </ul>
10007400	basic end.
IN637102	To ensure that the IUT being in the "Idle" state, receiving an <b>ActivateServiceFiltering</b> invoke containing mandatory and optional parameters, with:
7.1.1.4, 9.1	<ul> <li>filteredCallTreatment including: <ul> <li>sFBillingChargingCharacteristics,</li> <li>informationToSend,</li> <li>maximumNumberOfCounters,</li> </ul> </li> <li>filteringCharacteristics being numberOfCalls,</li> <li>filteringTimeOut being stopTime,</li> <li>filteringCriteria being addressAndService including: <ul> <li>calledAddressValue,</li> <li>serviceKey,</li> <li>callingAddressValue,</li> <li>locationNumber,</li> </ul> </li> <li>startTime,</li> </ul> <li>sends ActivateServiceFiltering result and terminates the dialogue by means of basic end.</li>
IN637103	To ensure that the IUT being in the "Idle" state, receiving an ActivateServiceFiltering
7.1.1.4,	invoke containing network operator specific extensions, with: - filteredCallTreatment,
9.1	<ul> <li>filteringCharacteristics,</li> <li>filteringTimeOut,</li> <li>filteringCriteria,</li> <li>extensions,</li> </ul>
	sends ActivateServiceFiltering result and terminates the dialogue by means of

basic end.

Preamble: Postamble:	- CallGap invoke with gapIndicators including duration with value = 0.
IN637104	To ensure that the IUT being in the "Idle" state, receiving a <b>CallGap</b> invoke containing mandatory parameters only, with:
7.1.1.4, 9.6	<ul> <li>gapCriteria being gapOnService and,</li> <li>gapIndicators</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out and terminates the dialogue by means of prearranged end.
IN637105	To ensure that the IUT being in the "Idle" state, receiving a <b>CallGap</b> invoke containing mandatory and optional parameters, with:
7.1.1.4, 9.6	<ul> <li>gapCriteria being callingAddressAndService including:</li> <li>callingAddressValue,</li> <li>serviceKey,</li> <li>locationNumber,</li> <li>gapIndicators,</li> <li>controlType,</li> <li>gapTreatment being both,</li> </ul>
	does not return any error, reject the invoke or abort the dialogue within the operation time out and terminates the dialogue by means of prearranged end.
IN637106	To ensure that the IUT being in the "Idle" state, receiving a <b>CallGap</b> invoke containing network operator specific extensions, with:
7.1.1.4,	- gapCriteria,
9.6	- gapIndicators,
	- gapTreatment, - extensions,
	does not return any error, reject the invoke or abort the dialogue within the operation time out and terminates the dialogue by means of prearranged end.

# 5.2.1.2.5 SSME-FSM state "Non Call Associated Treatment"

The test group objective is to check that a valid operation ServiceFilteringResponse is sent to the SCP in the SSME-FSM state "Non Call Associated Treatment".

Preamble: ActivateServiceFiltering invoke received with filteringCharacteristics being interval, filteredCallTreatment including maximumNumberOfCounters (1), filteringTimeOut being duration and filteringCriteria being serviceKey and ActivateServiceFiltering result sent.

# Postamble:

IN638001	To ensure that the IUT being in the "Non Call Associated Treatment" state, at the end of a filtering duration,
7.1.1.4,	
9.30	<ul> <li>initiates a dialogue, sends a ServiceFilteringResponse invoke containing all mandatory parameters, with at least the parameters:</li> <li>countersValue including 1 counterAndValue,</li> <li>filteringCriteria being serviceKey</li> </ul>

and terminates the dialogue by means of prearranged end.

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Preamble:	ActivateServiceFiltering invoke received with filteringCharacteristics being interval, filteredCallTreatment including maximumNumberOfCounters (>1), filteringTimeOut being duration and filteringCriteria being addressAndService including calledAddressValue, serviceKey, callingAddressValue and locationNumber and ActivateServiceFiltering result sent.
Postamble:	-
IN638002	To ensure that the IUT being in the "Non Call Associated Treatment" state, at the end of a filtering duration,
7.1.1.4, 9.30	<ul> <li>initiates a dialogue, sends a ServiceFilteringResponse invoke containing all mandatory parameters, with at least the parameters:</li> <li>countersValue including multiple counterAndValue,</li> <li>filteringCriteria being addressAndService including: <ul> <li>calledAddressValue,</li> <li>serviceKey,</li> <li>callingAddressValue,</li> <li>locationNumber</li> </ul> </li> <li>and terminates the dialogue by means of prearranged end.</li> </ul>
Preamble:	ActivateServiceFiltering invoke received with filteringCharacteristics being interval, filteredCallTreatment including maximumNumberOfCounters (1), filteringTimeOut being duration, filteringCriteria being serviceKey, and ActivateServiceFiltering result sent.
Postamble:	-
IN638003	To ensure that the IUT being in the "Non Call Associated Treatment" state, at the end of a filtering duration,
7.1.1.4,	
9.30	<ul> <li>initiates a dialogue, sends a ServiceFilteringResponse invoke containing network operator specific extensions, with at least the parameters:</li> <li>countersValue,</li> <li>filteringCriteria,</li> <li>extensions</li> <li>and terminates the dialogue by means of prearranged end.</li> </ul>

# 5.2.1.3 Invalid Behaviour tests (BI)

The test group objective is to test the SSP capability of reacting correctly on PDUs (operations, operation errors) that are syntactically invalid and if appropriate responding to the partner entity.

# 5.2.1.3.1 SSF-FSM state "Idle"

The test group objective is to check that an invalid InitiateCallAttempt operation is rejected by the SSF in the SSF-FSM state "Idle".

Preamble:	-
Postamble:	-
IN641101	To ensure that the IUT being in the "Idle" state, receiving an <b>InitiateCallAttempt</b> invoke without the parameter destinationRoutingAddress,
7.1.5.1,	
9.20	rejects the invoke and terminates the dialogue.

### 5.2.1.3.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that the SSF reacts correctly on receipt of an InitialDP error or an invalid operation in the SSF-FSM state "Waiting For Instructions".

5.2.1.3.2.1	Operations
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. ResetTimer invoke is received. ReleaseCall invoke and terminate the dialogue.
IN643101	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>ActivityTest</b> invoke with an argument,
7.1.5.1, 9.2	rejects the invoke or aborts the dialogue.
IN643102	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>ApplyCharging</b> invoke without the parameter sendCalculationToSCPIndication,
7.1.5.1, 9.3	sends an error MissingParameter.
IN643103 7.1.5.1,	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>ApplyCharging</b> invoke with the parameter sendCalculationToSCPIndication set to FALSE,
9.3	sends an error UnexpectedDataValue.
IN643104	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>Connect</b> invoke without the parameter destinationRoutingAddress,
7.1.5.1, 9.11	rejects the invoke or aborts the dialogue.
IN643105	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>Continue</b> invoke with an argument,
7.1.5.1, 9.13	rejects the invoke or aborts the dialogue.
IN643106	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke with:
7.1.5.1, 9.25	<ul> <li>bcsmEvents including eventTypeBCSM (oMidCall)</li> <li>but not including legID,</li> </ul>
	sends an error MissingParameter.
IN643107	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke with:
7.1.5.1, 9.25	<ul> <li>bcsmEvents including eventTypeBCSM (oDisconnect)</li> <li>but not including legID,</li> </ul>
	sends an error MissingParameter.
IN643108	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke with:
7.1.5.1, 9.25	<ul> <li>bcsmEvents including eventTypeBCSM (tMidCall)</li> <li>but not including legID,</li> </ul>
	sends an error MissingParameter.

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IN643109	To ensure that the IUT being in the "Waiting For Instructions" state, receiving a <b>RequestReportBCSMEvent</b> invoke with:
7.1.5.1, 9.25	<ul> <li>bcsmEvents including eventTypeBCSM (tDisconnect)</li> <li>but not including legID,</li> </ul>
	sends an error MissingParameter.
IN643110	To ensure that the IUT being in the "Waiting For Instructions" state receiving a <b>CollectInformation</b> invoke without having received a RequestReportBCSMEvent
7.1.5.1,	invoke with:
9.10	<ul> <li>eventTypeBCSM (collectInfo),</li> <li>monitorMode (interrupted)</li> </ul>
	sends an error UnexpectedComponentSequence.
IN643111	To ensure that the IUT being in the "Waiting For Instructions" state receiving a <b>ReleaseCall</b> invoke without an argument
7.1.5.1, 9.23	rejects the invoke or aborts the dialogue.
5.2.1.3.2.2	Operation errors
Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. -
IN643301	To ensure that the IUT being in the "Waiting For Instructions" state, receiving an <b>InitialDP</b> error in a TC-Continue message,
7.1.5.1,	
10.2.1	aborts the dialogue.
5.2.1.3.3	SSF-FSM state "Monitoring"

The test group objective is to check that the SSF reacts correctly on receipt of an invalid operation in the SSF-FSM state "Monitoring".

Preamble: Postamble:	Trigger detected. InitiaIDP invoke has been sent. Connect invoke is received. ReleaseCall invoke and terminate the dialogue.
IN646101	To ensure that the IUT being in the "Monitoring" state, receiving an <b>ActivityTest</b> invoke with an argument,
7.1.5.1, 9.2	rejects the invoke or aborts the dialogue.
IN646102	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke with:
7.1.5.1, 9.25	<ul> <li>bcsmEvents including eventTypeBCSM (oMidCall)</li> <li>but not including legID,</li> </ul>
	sends an error MissingParameter.
IN646103	To ensure that the IUT being in the "Monitoring" state, receiving a <b>RequestReportBCSMEvent</b> invoke with:
7.1.5.1, 9.25	<ul> <li>bcsmEvents including eventTypeBCSM (tDisconnect)</li> <li>but not including legID,</li> </ul>
	sends an error MissingParameter.
IN646104	To ensure that the IUT being in the "Monitoring" state receiving a <b>ReleaseCall</b> invoke without an argument
	rejects the invoke or aborts the dialogue.

#### 5.2.1.3.4 SSME-FSM state "Idle"

The test group objective is to check that the SSF reacts correctly on receipt of an invalid ActivateServiceFiltering operation in the SSME-FSM state "Idle".

#### Preamble: Postamble:

- IN647101 To ensure that the IUT being in the "Idle" state, receiving an **ActivateServiceFiltering** invoke without the parameter filteredCallTreatment, 7.1.1.4,
- 9.1 rejects the invoke and terminates the dialogue by means of basic end.

#### 5.2.1.4 Inopportune Behaviour tests (BO)

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The test group objective is to test the SSP capability of reacting correctly on PDUs (operations, operation errors) that are syntactically valid but semantically incorrect, and if appropriate responding to the partner entity.

#### 5.2.1.4.1 SSF-FSM state "Idle"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Idle".

Preamble: Postamble:	- -
IN651101	To ensure that the IUT being in the "Idle" state, receiving an ActivityTest invoke,
7.1.5.1, 9.2	rejects the invoke and terminates the dialogue by means of basic end or aborts the dialogue.
IN651102	To ensure that the IUT being in the "Idle" state, receiving an ApplyCharging invoke,
7.1.5.1, 9.3	sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.
IN651103	To ensure that the IUT being in the "Idle" state, receiving a Cancel invoke,
7.1.5.1, 9.9	sends an error CancelFailed and terminates the dialogue by means of basic end or aborts the dialogue.
IN651104	To ensure that the IUT being in the "Idle" state, receiving a CollectInformation invoke,
7.1.5.1, 9.10	sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.
IN651105	To ensure that the IUT being in the "Idle" state, receiving a <b>CallInformationRequest</b> invoke,
7.1.5.1, 9.8	sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.
IN651106	To ensure that the IUT being in the "Idle" state, receiving an <b>Connect</b> invoke,
7.1.5.1, 9.11	sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.

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7.1.5.1,

7.1.5.3,

- IN651107 To ensure that the IUT being in the "Idle" state, receiving a **Continue** invoke,
- 7.1.5.1,rejects the invoke and terminates the dialogue by means of basic end or aborts9.13the dialogue.
- IN651108 To ensure that the IUT being in the "Idle" state, receiving an **FurnishChargingInformation** invoke,
- 7.1.5.1,
  9.18 sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.
- IN651109 To ensure that the IUT being in the "Idle" state, receiving a **ReleaseCall** invoke,
- 7.1.5.1, rejects the invoke and terminates the dialogue by means of basic end or aborts the dialogue.
- IN651110 To ensure that the IUT being in the "Idle" state, receiving a **RequestNotificationChargingEvent** invoke,
- 9.24 sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.
- IN651111 To ensure that the IUT being in the "Idle" state, receiving a **RequestReportBCSMEvent** invoke,
- 7.1.5.1,
  9.25 sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.
- IN651112 To ensure that the IUT being in the "Idle" state, receiving a **SendChargingInformation** invoke,
- 7.1.5.1,
  9.27 sends an error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.

#### 5.2.1.4.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Waiting For Instructions".

- **Preamble:** Trigger detected. InitialDP invoke has been sent.
- **Postamble:** ReleaseCall invoke and terminate the dialogue.
- IN653101 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an InitiateCallAttempt invoke,
- 9.20 sends an error UnexpectedComponentSequence or aborts the dialogue.

#### 5.2.1.4.3 SSF-FSM state "Monitoring"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Monitoring".

 Preamble:
 Trigger detected. InitialDP invoke has been sent. RequestReportBCSMEvent invoke with eventTypeBCSM (oDisconnect) and monitorMode (interrupted) received. Connect invoke has been received. Cancel invoke with allRequests, ReleaseCall invoke and terminate the dialogue.

 Postamble:
 To ensure that the IUT being in the "Monitoring" state, receiving a CollectInformation invoke,

 7.1.5.6,
 9.10

IN656102	To ensure that the IUT being in the "Monitoring" state, receiving a <b>CallInformationRequest</b> invoke,
7.1.5.6, 9.8	sends an error UnexpectedComponentSequence or aborts the dialogue.
IN656103	To ensure that the IUT being in the "Monitoring" state, receiving a Connect invoke,
7.1.5.6, 9.11	sends an error UnexpectedComponentSequence or aborts the dialogue.
IN656104	To ensure that the IUT being in the "Monitoring" state, receiving a Continue invoke,
7.1.5.6, 9.13	aborts the dialogue.
IN656105	To ensure that the IUT being in the "Monitoring" state, receiving a <b>FurnishChargingInformation</b> invoke,
7.1.5.6, 9.18	sends an error UnexpectedComponentSequence or aborts the dialogue.
IN656106	To ensure that the IUT being in the "Monitoring" state, receiving an InitiateCallAttempt invoke,
7.1.5.6, 9.20	sends an error UnexpectedComponentSequence or aborts the dialogue.
IN656107	To ensure that the IUT being in the "Monitoring" state, receiving a <b>ResetTimer</b> invoke,
7.1.5.6, 9.26	sends an error UnexpectedComponentSequence or aborts the dialogue.

# 5.2.2 SSF relay - rS

The test group objective is to test the INAP procedures at the SSP for user interaction with relay.

# 5.2.2.1 Valid Behaviour tests (BV)

The test group objective is to test the SSP capability of reacting correctly on network events related to user interaction and of accepting and if appropriate responding to PDUs (operations, operation errors) for user interaction with relay that are syntactically and semantically valid.

#### 5.2.2.1.1 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that a valid ConnectToResource operation is accepted in the state "Waiting For Instructions".

Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. DisconnectForwardConnection invoke, followed by ReleaseCall invoke and terminate the dialogue.
IN733101	To ensure that the IUT being in the state "Waiting For Instructions" receiving ConnectToResource invoke containing mandatory parameters only with:
7.1.5.3, 9.12	- resourceAddress being none
	does not return any error, reject the invoke, or abort the dialogue within the operation time out.

# Page 56 ETS 300 374-3: February 1996 IN733102 To ensure that the IUT being in the state "Waiting For Instructions" receiving ConnectToResource invoke containing mandatory parameters only with: 7.1.5.3, - resourceAddress being iPRoutingAddress 9.12 does not return any error, reject the invoke, or abort the dialogue within the operation time out.

- IN733103 To ensure that the IUT being in the state "Waiting For Instructions" receiving **ConnectToResource** invoke containing network operator specific extensions with:
- 7.1.5.3, resourceAddress,
- 9.12 extensions

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

- IN733104 To ensure that the IUT being in the state "Waiting For Instructions" receiving **ConnectToResource** invoke containing network operator specific parameter indicating service interaction with:
- 9.12 resourceAddress,
  - serviceInteractionIndicators

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

#### 5.2.2.1.2 SSF-FSM state "Waiting For End Of User Interaction"

The test group objective is to test that the SSF being in the state "Waiting For End Of User Interaction" reacts correctly on expiration of T<sub>SSF</sub> or on receipt of an error on ApplyChargingReport and accepts and correctly handles valid DisconnectForwardConnection, PlayAnnouncement, PromptAndCollectUserInformation and Cancel operations.

#### 5.2.2.1.2.1 Network events

Preamble: Trigger detected. InitialDP invoke has been sent. ConnectToResource invoke has been received.

Postamble:

7.1.5.4

IN734001 To ensure that the IUT being in the "Waiting For End Of User Interaction" state at detection of T<sub>SSF</sub> expiration

aborts the dialogue.

#### 5.2.2.1.2.2 Operations

- **Preamble:** Trigger detected. InitialDP invoke has been sent. ConnectToResource invoke has been received.
- **Postamble:** ReleaseCall invoke and terminate the dialogue.
- IN734101 To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving **DisconnectForwardConnection** invoke 7.1.5.4.
- 9.14 does not return any error, reject the invoke, or abort the dialogue within the operation time out.

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IN734102 7.1.5.4, 9.21	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory and optional parameters with: - informationToSend being tone including: - toneID, - duration, - duration, - disconnectFromIPForbidden (FALSE), - requestAnnouncementComplete (FALSE) does not return any error, reject the invoke, or abort the dialogue within the <b>duration</b> time out.
Preamble:	Trigger detected. InitialDP invoke has been sent. ConnectToResource invoke
Postamble:	received. DisconnectForwardConnection invoke, followed by ReleaseCall invoke and terminate the dialogue.
IN734103 7.1.5.4, 9.21, 9.31	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being elementaryMessageID sends <b>SpecializedResourceReport</b> invoke.
IN734104 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being text being messageContent sends <b>SpecializedResourceReport</b> invoke.
IN734105 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being elementaryMessageIDs including multiple elementaryMessageID sends <b>SpecializedResourceReport</b> invoke.
IN734106 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameter only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being integer sends <b>SpecializedResourceReport</b> invoke.
IN734107 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being - number
	sends SpecializedResourceReport invoke.
IN734108 7.1.5.4, 9.21, 9.29	<ul> <li>To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving PlayAnnouncement invoke containing mandatory parameters only with:</li> <li>informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being</li> <li>time</li> </ul>

sends SpecializedResourceReport invoke.

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IN734109 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being - date	
	sends SpecializedResourceReport invoke.	
IN734110 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being - price	
	sends SpecializedResourceReport invoke.	
IN734111 7.1.5.4, 9.21	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory and optional parameters with: - informationToSend being inbandInfo including: - messageID being elementaryMessageID, - numberOfRepetitions, - duration, - interval	
	sends SpecializedResourceReport invoke.	
IN734112 7.1.5.4, 9.21	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing mandatory and optional parameters with: - informationToSend being displayInformation sends <b>SpecializedResourceReport</b> invoke.	
IN734113 7.1.5.4, 9.21, 9.29	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PlayAnnouncement</b> invoke containing network operator specific extensions with: - informationToSend being tone including toneID, - extensions sends <b>SpecializedResourceReport</b> invoke.	
IN734114 7.1.5.4, 9.22	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory parameter only with: - collectedInfo being collectedDigits including maximumNbOfDigits after having received the number of digits as specified in maximumNbOfDigits from the user	
	sends PromptAndCollectUserInformation result with digitsResponse.	
IN734115 7.1.5.4, 9.22	To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and optional parameters with: - collectedInfo being collectedDigits including: - minimumNbOfDigits, - maximumNbOfDigits, - informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user	

sends PromptAndCollectUserInformation result with digitsResponse.

IN734116 7.1.5.4, 9.22	To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and optional parameters with: - collectedInfo being collectedDigits including: - maximumNbOfDigits, - endOfReplyDigit with the maximum length as stated in ETS 300 374-2 [2], - informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user
IN734117 7.1.5.4, 9.22	To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and optional parameters with: - collectedInfo being collectedDigits including:
	<ul> <li>maximumNbOfDigits,</li> <li>cancelDigit with the maximum length as stated in ETS 300 374-2 [2],</li> <li>informationToSend being tone including toneID</li> <li>after having received the number of digits as specified in maximumNbOfDigits from</li> </ul>
	the user
	sends <b>PromptAndCollectUserInformation</b> result with digitsResponse.
IN734118	To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and
7.1.5.4, 9.22	<ul> <li>optional parameters with:</li> <li>collectedInfo being collectedDigits including:</li> <li>maximumNbOfDigits,</li> </ul>
	<ul> <li>startDigit with the maximum length as stated in ETS 300 374-2 [2],</li> <li>informationToSend being tone including toneID</li> <li>after having received the number of digits as specified in maximumNbOfDigits from the user</li> </ul>
	sends PromptAndCollectUserInformation result with digitsResponse.
IN734119	To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and
7.1.5.4, 9.22	optional parameters with: - collectedInfo being collectedDigits including: - maximumNbOfDigits, - firstDigitTimeOut,
	- informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user
	sends PromptAndCollectUserInformation result with digitsResponse.
IN734120	To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and
7.1.5.4, 9.22	<ul> <li>optional parameters with:</li> <li>collectedInfo being collectedDigits including: <ul> <li>maximumNbOfDigits,</li> <li>interDigitTimeOut,</li> </ul> </li> <li>informationToSend being tone including toneID <ul> <li>after having received the number of digits as specified in maximumNbOfDigits from</li> </ul> </li> </ul>
	the user

sends PromptAndCollectUserInformation result with digitsResponse.

#### Page 60 ETS 300 374-3: February 1996 To ensure that the IUT being in the state "Waiting for End of User Interaction" IN734121 receiving PromptAndCollectUserInformation invoke containing mandatory and 7.1.5.4, optional parameters with: collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, errorTreatment (repeatPrompt), informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. IN734122 To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.1.5.4, collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, interruptableAnnInd (FALSE), informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. To ensure that the IUT being in the state "Waiting for End of User Interaction" IN734123 receiving PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.1.5.4, collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, voiceInformation informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. IN734124 To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving PromptAndCollectUserInformation invoke containing mandatory and 7.1.5.4, optional parameters with: collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits. voiceBack. informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. IN734125 To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving PromptAndCollectUserInformation invoke containing mandatory and 7.1.5.4, optional parameters with: 9.22 collectedInfo being collectedDigits including maximumNbOfDigits. informationToSend inbandInfo including being messageID being elementaryMessageID after having received the number of digits as specified in maximumNbOfDigits from the user

sends PromptAndCollectUserInformation result with digitsResponse.

IN734126 7.1.5.4, 9.22	To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and optional parameters with: - collectedInfo being collectedDigits including maximumNbOfDigits, - informationToSend being inbandinfo after having received the number of digits as specified in maximumNbOfDigits from the user			
	sends PromptAndCollectUserInformation result with digitsResponse.			
Preamble:	ConnectToResource invoke received, followed by PlayAnnouncement invoke. Announcement is active.			
Postamble:	DisconnectForwardConnection invoke, followed by ReleaseCall invoke and terminate the dialogue.			
IN734127 7.1.5.4,	To ensure that the IUT being in the state "Waiting For End Of User Interaction receiving <b>Cancel</b> invoke containing with: - invokeID			
8.1.2.2,				
9.9	sends error Cancelled on PlayAnnouncement.			
5.2.2.1.2.3	Operation errors			
Preamble:	Trigger detected. InitialDP invoke has been sent. ApplyCharging invoke and ConnectToResource invoke have been received, followed by PlayAnnouncement invoke. ApplyChargingReport invoke has been sent.			
Postamble:	-			
IN734301	To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error <b>MissingParameter</b> on ApplyChargingReport			
7.1.5.4, 9.3	returns to "Idle" state.			
IN734302	To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error <b>UnexpectedComponentSequence</b> on ApplyChargingReport			
7.1.5.4, 9.3	returns to "Idle" state.			
IN734303	To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error <b>UnexpectedParameter</b> on ApplyChargingReport			
7.1.5.4, 9.3	returns to "Idle" state.			
IN734304	To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error <b>UnexpectedDataValue</b> on <b>ApplyChargingReport</b>			
7.1.5.4, 9.3	returns to "Idle" state.			
IN734305	To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error <b>ParameterOutOfRange</b> on ApplyChargingReport			
7.1.5.4, 9.3	returns to "Idle" state.			
IN734306	To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error <b>SystemFailure</b> on ApplyChargingReport			
7.1.5.4, 9.3	returns to "Idle" state.			

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IN734307 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error **TaskRefused** on ApplyChargingReport

7.1.5.4, 9.3 returns to "Idle" state.

# 5.2.2.2 Invalid Behaviour tests (BI)

The test group objective is to test the SSP capability of reacting correctly and if appropriate responding to the partner entity on receipt of PDUs (operations, operation errors) for user interaction with relay that are syntactically invalid.

# 5.2.2.2.1 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that an invalid ConnectToResource operation is rejected by the SSF in the SSF-FSM state "Waiting For Instructions".

Preamble:	Trigger detected. InitialDP invoke has been sent.
Postamble:	ReleaseCall invoke and terminate the dialogue.

IN743101 To ensure that the IUT being in the state "Waiting For Instructions receiving **ConnectToResource** invoke without resourceAddress

10.2 rejects the invoke.

# 5.2.2.2.2 SSF-FSM state "Waiting For End Of User Interaction"

The test group objective is to check that an invalid PlayAnnouncement or PromptAndCollectUserInformation operation is rejected by the SSF in the SSF-FSM state "Waiting For End Of User Interaction".

- Preamble: Trigger detected. InitialDP invoke has been sent to the SCP and SCP has sent back ConnectToResource invoke.
- **Postamble:** DisconnectForwardConnection invoke, ReleaseCall invoke and terminate the dialogue.
- IN744101 To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving **PlayAnnouncement** invoke without informationToSend
- 10.2 rejects the invoke.
- IN744102 To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving **PromptAndCollectUserInformation** invoke without collectedInfo

10.2 rejects the invoke.

IN744103 To ensure that the IUT being in the state "Waiting For End Of User Interaction" receiving **PromptAndCollectUserInformation** invoke with collectedInfo not including 7.1.5.4, maximumNbOfDigits

10.2

7.1.5.4,

7.1.5.4,

7.1.5.3.

rejects the invoke.

# 5.2.2.3 Inopportune Behaviour tests (BO)

The test group objective is to test the SSP capability of responding correctly to operations for user interaction with relay that are syntactically valid but semantically incorrect.

#### 5.2.2.3.1 SSF-FSM state "Idle"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Idle".

Preamble: Postamble:	-
IN751101	To ensure that the IUT being in the state "Idle" receiving ConnectToResource invoke
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue.
IN751102	To ensure that the IUT being in the state "Idle" receiving <b>DisconnectForwardConnection</b> invoke
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end.
IN751103	To ensure that the IUT being in the state "Idle" receiving PlayAnnouncement invoke
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end.
IN751104	To ensure that the IUT being in the state "Idle" receiving <b>PromptAndCollectUserInformation</b> invoke
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end.
IN751105	To ensure that the IUT being in the state "Idle" receiving <b>Cancel</b> invoke (related to <b>PlayAnnouncement</b> or <b>PromptAndCollectUserInformation</b> )
7.1.5.1, 8.1.13	reject the invoke and terminates the dialogue by means of basic end.

#### 5.2.2.3.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Waiting For Instructions".

Preamble:	Trigger detected. InitialDP invoke has been sent ResetTimer invoke has been received.
Postamble:	ReleaseCall invoke and terminate the dialogue.
IN753101	To ensure that the IUT being in the state "Waiting For Instructions" receiving DisconnectForwardConnection invoke with TC-Continue
7.1.5.3,	
8.1.13	sends error UnexpectedComponentSequence.
IN753102	To ensure that the IUT being in the state "Waiting For Instructions" receiving <b>Cancel</b> invoke (related to <b>PlayAnnouncement</b> or <b>PromptAndCollectUserInformation</b> ) with
7.1.5.3, 8.1.13	TC-Continue
	sends error CancelFailed (operationNotCancellable).

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7.1.5.3,

7.1.5.3,

- IN753103 To ensure that the IUT being in the state "Waiting For Instructions" receiving **PlayAnnouncement** invoke with TC-Continue
- 8.1.13 sends error UnexpectedComponentSequence.
- IN753104 To ensure that the IUT being in the state "Waiting For Instructions" receiving **PromptAndCollectUserInformation** invoke with TC-Continue
- 8.1.13 sends error UnexpectedComponentSequence.

#### 5.2.2.3.3 SSF-FSM state "Waiting for End of User Interaction"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Waiting for End of User Interaction".

- Preamble:
   Trigger detected. InitialDP invoke has been sent. ConnectToResource invoke was received.

   Postamble:
   DisconnectForwardConnection invoke, followed by ReleaseCall invoke and
- terminate the dialogue.
- IN754105 To ensure that the IUT being in the state "Waiting for End of User Interaction" receiving InitiateCallAttempt invoke with TC-Continue
- 7.1.5.4,8.1.13 sends error UnexpectedComponentSequence.

#### 5.2.2.3.4 SSF-FSM state "Monitoring"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Monitoring".

Preamble: Trigger detected. InitiaIDP invoke has been sent. RequestReportBCSMEvent invoke with eventTypeBCSM (oDisconnect) and monitorMode (interrupted) received. Connect invoke has been received. Postamble: ReleaseCall invoke and terminate the dialogue. IN756101 To ensure that the IUT being in the state "Monitoring" receiving ConnectToResource invoke with TC-Continue 7.1.5.6, 9.12 sends error UnexpectedComponentSequence. IN756102 Τo ensure that the IUT being in the state "Monitoring" receiving DisconnectForwardConnection invoke with TC-Continue 7.1.5.6, sends error UnexpectedComponentSequence. 9.14 IN756103 To ensure that the IUT being in the state "Monitoring" receiving PlayAnnouncement invoke with TC-Continue 7.1.5.6, sends error UnexpectedComponentSequence. 9.21 IN756104 То ensure that the IUT being in the state "Monitoring" receiving PromptAndCollectUserInformation invoke with TC-Continue 7.1.5.6. sends error UnexpectedComponentSequence. 9.22 IN756105 To ensure that the IUT being in the state "Monitoring" receiving Cancel invoke (related to PlayAnnouncement or PromptAndCollectUserInformation) 7.1.5.6, 9.9 sends error CancelFailed.

#### 5.2.3 Initiating SSF - iS

The test group objective is to test the INAP procedures for an SSP acting as initiating SSP.

#### 5.2.3.1 Valid Behaviour tests (BV)

The test group objective is to test the initiating SSP capability of reacting correctly on network events and of accepting and if appropriate responding to PDUs (operations, operation errors) that are syntactically and semantically valid.

#### 5.2.3.1.1 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that valid EstablishTemporaryConnection or Connect operation is accepted in the SSF FSM state "Waiting For Instructions".

Preamble: Postamble:	Trigger detected. InitialDP invoke has been sent. DisconnectForwardConnection invoke, followed by ReleaseCall invoke and terminate the dialogue.
IN833101 7.1.5.3, 9.15	To ensure that the IUT being in the state "Waiting For Instructions" receiving <b>EstablishTemporaryConnection</b> invoke containing mandatory parameters only with: - assistingSSPIPRoutingAddress
	does not return any error, reject the invoke, or abort the dialogue within the operation time out.
IN833102 7.1.5.3, 9.15	To ensure that the IUT being in the state "Waiting For Instructions" receiving <b>EstablishTemporaryConnection</b> invoke containing mandatory and optional parameters with: - assistingSSPIPRoutingAddress, - correlationID
	does not return any error, reject the invoke, or abort the dialogue within the operation time out.
IN833103 7.1.5.3, 9.15	To ensure that the IUT being in the state "Waiting For Instructions" receiving <b>EstablishTemporaryConnection</b> invoke containing the network operator specific parameter indicating the originating SCF, with: - assistingSSPIPRoutingAddress, - correlationID, - sCFID
	does not return any error, reject the invoke, or abort the dialogue within the operation time out.
IN833104	To ensure that the IUT being in the state "Waiting For Instructions" receiving <b>EstablishTemporaryConnection</b> invoke containing network operator specific
7.1.5.3, 9.15	extensions with: - assistingSSPIPRoutingAddress, - extensions
	does not return any error, reject the invoke, or abort the dialogue within the operation time out.
IN833105	To ensure that the IUT being in the state "Waiting For Instructions" receiving <b>EstablishTemporaryConnection</b> invoke containing network operator specific
7.1.5.3, 9.15	parameter indicating service interaction with: - assistingSSPIPRoutingAddress, - serviceInteractionIndicators
	does not return any error, reject the invoke, or abort the dialogue within the operation time out.

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9.11

- IN833106 To ensure that the IUT being in the state "Waiting For Instructions" receiving Connect invoke to initiate a hand-off procedure containing mandatory and optional parameters, 7.1.5.3, with:
  - destinationRoutingAddress,
  - correlationID

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

- IN833107 To ensure that the IUT being in the state "Waiting For Instructions" receiving Connect invoke to initiate a hand-off procedure containing the network operator specific parameter indicating the originating SCF, with: 7.1.5.3, 9.11
  - destinationRoutingAddress,
    - correlationID, -.
    - sCFID

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

#### 5.2.3.1.2 SSF-FSM state "Waiting For End Of Temporary Connection"

The test group objective is to test that the SSF being in the state "Waiting For End Of Temporary Connection" reacts correctly on receipt of an error on ApplyChargingReport and accepts a valid DisconnectForwardConnection operation.

#### 5.2.3.1.2.1 **Network events**

**Preamble:** Trigger detected. InitialDP invoke has been sent. EstablishTemporaryConnection invoke has been received.

**Postamble:** 

- IN835001 To ensure that the IUT being in the "Waiting For End Of Temporary Connection" state at detection of T<sub>SSF</sub> expiration 7.1.5.3.
- 9.12 aborts the dialogue.

#### 5.2.3.1.2.2 Operation

- Preamble: Trigger detected. InitialDP invoke has been sent. EstablishTemporaryConnection invoke has been received. **Postamble:** ReleaseCall invoke and terminate the dialogue.
- IN835101 To ensure that the IUT being in the state "Waiting For End Of Temporary Connection" receiving DisconnectForwardConnection invoke
- does not return any error, reject the invoke, or abort the dialogue within the 9.14 operation time out.
- 5.2.3.1.2.3 **Operation errors**
- Preamble: Trigger detected. InitialDP invoke has been sent. EstablishTemporaryConnection invoke and ApplyCharging invoke have been received, ApplyChargingReport invoke sent.

# Postamble:

IN835301 To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error MissingParameter on ApplyChargingReport

7.1.5.4, 9.4

7.1.5.4,

returns to "Idle" state.

IN835302	To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error <b>UnexpectedComponentSequence</b> on ApplyChargingReport
7.1.5.4, 9.4	returns to "Idle" state.
IN835303	To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error <b>UnexpectedParameter</b> on ApplyChargingReport
7.1.5.4, 9.4	returns to "Idle" state.
IN835304	To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error <b>UnexpectedDataValue</b> on ApplyChargingReport
7.1.5.4, 9.4	returns to "Idle" state.
IN835305	To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error <b>ParameterOutOfRange</b> on ApplyChargingReport
7.1.5.4, 9.4	returns to "Idle" state.
IN835306	To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error <b>SystemFailure</b> on ApplyChargingReport
7.1.5.4, 9.4	returns to "Idle" state.
IN835307	To ensure that the IUT being in the "Waiting For End Of Temporary Connection" receiving an error <b>TaskRefused</b> on ApplyChargingReport
7.1.5.4, 9.4	returns to "Idle" state.

# 5.2.3.2 Invalid Behaviour tests (BI)

The test group objective is to test the initiating SSP capability of reacting correctly on receipt of operations that are syntactically invalid.

# 5.2.3.2.1 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that an invalid EstablishTemporaryConnection operation is rejected by the SSF in the SSF-FSM state "Waiting For Instructions".

Preamble: Postamble:	Trigger detected. InitiaIDP invoke has been sent. DisconnectForwardConnection invoke, followed by ReleaseCall invoke and terminate the dialogue.
IN843101	To ensure that the IUT being in the state "Waiting For Instructions" receiving EstablishTemporaryConnection invoke without assistingSSPIPRoutingAddress
7.1.5.3,	
9.15	rejects the invoke.

# 5.2.3.2.2 SSF-FSM state "Waiting For End Of Temporary Connection"

The test group objective is to check that an invalid DisconnectForwardConnection operation is rejected by the SSF in the SSF-FSM state "Waiting For End Of Temporary Connection".

Preamble: Postamble:		detected. mporaryConne l invoke and ter		has ived.	been	sent.
IN845101	To ensure that the receiving <b>Disconr</b>	•	•			ction"
7.1.5.4,						

9.14 rejects the invoke.

# 5.2.3.3 Inopportune Behaviour tests (BO)

The test group objective is to test the initiating SSP capability of responding correctly to operations for user interaction with relay that are syntactically valid but semantically incorrect.

#### 5.2.3.3.1 SSF-FSM state "Idle"

The test group objective is to check that the initiating SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Idle".

Preamble: Postamble:	-				
IN851101	To ensure that the IUT being in the state "Idle" receiving ConnectToResource invoke				
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.				
IN851102 7.1.5.1,	To ensure that the IUT being in the state "Idle" receiving <b>DisconnectForwardConnection</b> invoke				
8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.				
IN851103	To ensure that the IUT being in the state "Idle" receiving PlayAnnouncement invoke				
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.				
IN851104	To ensure that the IUT being in the state "Idle" receiving <b>PromptAndCollectUserInformation</b> invoke				
7.1.5.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue by means of basic end or aborts the dialogue.				
IN851105	To ensure that the IUT being in the state "Idle" receiving Cancel invoke				
7.1.5.1, 9.9	rejects the invoke and terminates the dialogue by means of basic end or aborts the dialogue.				

#### 5.2.3.3.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that the initiating SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Waiting For Instructions".

Preamble: Trigger detected. InitialDP invoke has been sent. **Postamble:** ReleaseCall invoke and terminate the dialogue. IN853101 To ensure that the IUT being in the state "Waiting For Instructions" receiving DisconnectForwardConnection invoke with TC-Continue 7.1.5.3, 9.12 sends error UnexpectedComponentSequence. IN853102 To ensure that the IUT being in the state "Waiting For Instructions" receiving Cancel invoke (related to PlayAnnouncement or PromptAndCollectUserInformation) with **TC-Continue** 7.1.5.3. 9.12 sends error CancelFailed (operationNotCancellable). IN853103 To ensure that the IUT being in the state "Waiting For Instructions" receiving PlayAnnouncement invoke with TC-Continue 7.1.5.3, sends error UnexpectedComponentSequence. 9.12 IN853104 To ensure that the IUT being in the state "Waiting For Instructions" receiving PromptAndCollectUserInformation invoke with TC-Continue 7.1.5.3, 9.12 sends error UnexpectedComponentSequence.

#### 5.2.3.3.3 SSF-FSM state "Waiting for End of Temporary Connection"

The test group objective is to check that the SSF being in the SSF-FSM state "Waiting for End of User Interaction" reacts correctly on receipt of an operation that is not allowed in this state.

Preamble:	Trigger detected. InitialDP invoke has been sent. EstablishTemporaryConnection operation has been received.
Postamble:	DisconnectForwardConnection invoke, ReleaseCall invoke, and terminate the dialogue.
IN855105	To ensure that the IUT being in the state "Waiting for End of Temporary Connection" receiving <b>InitiateCallAttempt</b> invoke with TC-Continue
7.1.5.5,	
8.1.13	sends error UnexpectedComponentSequence.
IN855109	To ensure that the IUT being in the state "Waiting for End of Temporary Connection" receiving <b>PlayAnnouncement</b> invoke with TC-Continue
7.1.5.5,	
8.1.13	sends error UnexpectedComponentSequence.
IN855110	To ensure that the IUT being in the state "Waiting for End of Temporary Connection" receiving <b>PromptAndCollectUserInformation</b> invoke with TC-Continue
7.1.5.5,	
8.1.13	sends error UnexpectedComponentSequence.

# 5.2.3.3.4 SSF-FSM state "Monitoring"

The test group objective is to check that the SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Monitoring".

- Preamble:
   Trigger detected. InitialDP invoke has been sent. RequestReportBCSMEvent invoke with eventTypeBCSM (oDisconnect) and monitorMode (interrupted) received. Connect invoke received.

   Postamble:
   Cancel invoke with allRequests, ReleaseCall invoke, and terminate the dialogue.
- IN856101 To ensure that the IUT being in the state "Monitoring" receiving **DisconnectForwardConnection** invoke with TC-Continue
- 8.2.17 sends error UnexpectedComponentSequence.
- IN856102 To ensure that the IUT being in the state "Monitoring" receiving EstablishTemporaryConnection invoke with TC-Continue
- 8.2.17 sends error UnexpectedComponentSequence.

#### 5.2.4 Assisting SSF - aS

7.1.5.6,

7.1.5.6,

The test group objective is to test the INAP procedures for an SSP acting as assisting SSP.

#### 5.2.4.1 Valid Behaviour tests (BV)

The test group objective is to test the assisting SSP capability of reacting correctly on network events and of accepting and if appropriate responding to PDUs (operations, operation errors) that are syntactically and semantically valid.

#### 5.2.4.1.1 SSF-FSM state "Idle"

The test group objective is to check that on detection of an assist request a valid AssistRequestInstructions operation is sent.

Preamble: Postamble:	- Terminate the dialogue.			
IN931101	To ensure that the IUT being in the state "Idle" detecting an assist request			
7.1.6.1, 9.12	sends <b>AssistRequestInstructions</b> invoke containing all mandatory parameters, with: - correlationID.			
IN931102	To ensure that the IUT being in the state "Idle" detecting an assist request			
7.1.6.1, 9.5	sends <b>AssistRequestInstructions</b> invoke containing the network operator specific parameter indicating SRF capabilities, with: - correlationID, - iPSSPCapabilities.			
IN931103	To ensure that the IUT being in the state "Idle" detecting an assist request			
7.1.6.1, 9.5	sends <b>AssistRequestInstructions</b> invoke containing the network operator specific parameter indicating IP availability, with: - correlationID, - iPAvailable.			

- IN931104 To ensure that the IUT being in the state "Idle" detecting an assist request
- 7.1.6.1, sends AssistRequestInstructions invoke containing network operator specific
   9.5 extensions, with:
   correlationID,
  - - extensions.

#### 5.2.4.1.2 SSF-FSM state "Waiting For Instructions"

The test group objective is to test that the SSF being in the state "Waiting For Instructions" reacts correctly on network events or on receipt of an error on AssistRequestInstructions and accepts valid ApplyCharging, ConnectToResource, FurnishChargingInformation, ResetTimer and SendChargingInformation operations.

- 5.2.4.1.2.1 Network events
- Preamble:
   An assist request was detected. AssistRequestInstructions invoke has been sent and ResetTimer invoke has been received.

Postamble:

7.1.6.2,

7.1.6.2,

- IN932001 To ensure that the IUT being in the "Waiting For Instructions" state, at detection of  $T_{SSF}$  expiration,
- 9.12 aborts the dialogue.
- IN932002 To ensure that the IUT being in the "Waiting For Instructions" state, receiving release indication from initiating SSP,

9.12 aborts the dialogue.

- 5.2.4.1.2.2 Operations
- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.

**Postamble:** Terminate the dialogue.

- IN932101 To ensure that the IUT being in the state "Waiting For Instructions" receiving ApplyCharging invoke containing mandatory parameters only, with:
- 7.1.6.2, aChBillingChargingCharacteristics,
- 9.12 sendCalculationToSCPIndication (TRUE),
  - followed by ConnectToResource invoke

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

- IN932102 To ensure that the IUT being in the state "Waiting For Instructions" receiving **ConnectToResource** invoke containing mandatory parameters only with:
- 7.1.6.2, resourceAddress being none 9.12
  - does not return any error, reject the invoke, or abort the dialogue within the operation time out.
- IN932103 To ensure that the IUT being in the state "Waiting For Instructions" receiving **ConnectToResource** invoke containing mandatory parameters only with:
- 7.1.6.2, resourceAddress being iPRoutingAddress 9.12

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

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- IN932104 To ensure that the IUT being in the state "Waiting For Instructions" receiving **FurnishChargingInformation** invoke
- 7.1.6.2,9.12 does not return any error, reject the invoke, or abort the dialogue within the operation time out.
- IN932105 To ensure that the IUT being in the state "Waiting For Instructions" receiving **ResetTimer** containing mandatory parameters only, with:
- 7.1.6.2, timerValue being minimum value as stated in ETS 300 374-2 [2],
- 9.12

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

- IN932106 To ensure that the IUT being in the state "Waiting For Instructions" receiving **SendChargingInformation** containing mandatory parameters only, with:
- 7.1.6.2, sCIBillingChargingCharacteristics,
- 9.12 legID being sendingSideID (leg1), followed by **ConnectToResource** invoke

does not return any error, reject the invoke, or abort the dialogue within the operation time out.

#### 5.2.4.1.2.3 Operation errors

Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.

# Postamble:

7.1.6.2, 9.19

- IN932301 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **MissingCustomerRecord** on AssistRequestInstructions, 7.1.6.2, 9.19
  - returns to "Idle" state.
- IN932302 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **MissingParameter** on AssistRequestInstructions, 7.1.6.2, 9.19
  - returns to "Idle" state.
- IN932303 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **TaskRefused** on AssistRequestInstructions, 7.1.6.2, 9.19

returns to "Idle" state.

- IN932304 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **UnexpectedComponentSequence** on AssistRequestInstructions,
  - returns to "Idle" state.
- IN932305 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **UnexpectedDataValue** on AssistRequestInstructions, 7.1.6.2, 9.19

returns to "Idle" state.

IN932306 To ensure that the IUT being in the "Waiting For Instructions" state, receiving an error **UnexpectedParameter** on AssistRequestInstructions, 7.1.6.2, 9.19

returns to "Idle" state.

### 5.2.4.1.3 SSF-FSM state "Waiting For End Of User Interaction"

The test group objective is to test that the SSF being in the state "Waiting For End Of User Interaction" reacts correctly on network events or on receipt of an error on ApplyChargingReport and accepts valid DisconnectForwardConnection, PlayAnnouncement, PromptAndCollectUserInformation, Cancel, ResetTimer and ActivityTest operations.

5.2.4.1.3.1	Network events			
Preamble:	An assist request was detected. AssistRequestInstructions invoke has been sent. ConnectToResource invoke, ResetTimer invoke and ApplyCharging invoke have been received.			
Postamble:	-			
IN933001	To ensure that the IUT being in the "Waiting For End Of User Interaction" state a detection of T <sub>SSF</sub> expiration			
7.1.6.3, 9.12	aborts the dialogue.			
IN933002	To ensure that the IUT being in the "Waiting For End Of User Interaction" state at detection of conditions for charging report			
7.1.6.3, 9.12	sends ApplyChargingReport invoke with callResult.			
5.2.4.1.3.2	Operations			
Preamble:	An assist request was detected. AssistRequestInstructions invoke has been sent. ConnectToResource invoke has been received.			
Postamble:	Terminate the dialogue.			
IN933101	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>DisconnectForwardConnection</b> invoke			
7.1.6.3, 9.12	does not return any error, reject the invoke, or abort the dialogue within the operation time out.			
Preamble:	AssistRequestInstructions invoke has been sent. ConnectToResource invoke received.			
Postamble:	DisconnectForwardConnection invoke and terminate the dialogue.			
IN933102 7.1.6.3,	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>PlayAnnouncement</b> containing mandatory parameters only, with: - informationToSend being inbandInfo including messageID being			
9.12	elementaryMessageID.			
	sends SpecializedResourceReport invoke.			
IN933103	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory			
7.1.6.3, 9.12	parameters only, with: - collectedInfo being collectedDigits including maximumNbOfDigits, - informationToSend being inbandInfo including messageID being			
	elementaryMessageID. after having received the number of digits as specified in maximumNbOfDigits from the user			
	sends <b>PromptAndCollectUserInformation</b> result with digitsResponse.			

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- IN933104 To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving ResetTimer invoke containing mandatory parameters only, with:
- 7.1.6.3, timerValue being minimum value as stated in ETS 300 374-2 [2],
  - does not return any error, reject the invoke, or abort the dialogue within the operation time out.
- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent. ConnectToResource invoke received, followed by PlayAnnouncement invoke. Announcement is active.
- **Postamble:** DisconnectForwardConnection invoke and terminate the dialogue.
- IN933105 To ensure that the IUT being in the "Waiting For End Of User Interaction" state receiving Cancel invoke with: invokeID
- 7.1.6.3, 9.12

9.12

- sends cancelled error on PlayAnnouncement.
- IN933106 To ensure that the IUT being in the "Waiting For End Of User Interaction" state receiving ActivityTest invoke 7.1.6.3,
- 9.12 sends ActivityTest result.
- 5.2.4.1.3.3 **Operation errors**
- Preamble: An assist request was detected. AssistRequestInstructions invoke has been ConnectToResource invoke, PlayAnnouncement sent invoke and ApplyCharging invoke have been received. ApplyChargingReport invoke sent.
- **Postamble:**

7.1.6.3,

- IN933301 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error MissingParameter on ApplyChargingReport 7.1.6.3,
- 9.12 returns to "Idle" state.
- IN933302 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error UnexpectedComponentSequence on ApplyChargingReport 7.1.6.3.
- 9.12 returns to "Idle" state.
- IN933303 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error UnexpectedParameter on ApplyChargingReport
- returns to "Idle" state. 9.12
- IN933304 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error UnexpectedDataValue on ApplyChargingReport 7.1.6.3,
- 9.12 returns to "Idle" state.
- IN933305 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error ParameterOutOfRange on ApplyChargingReport 7.1.6.3.
- 9.12 returns to "Idle" state.
- IN933306 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error SystemFailure on ApplyChargingReport 7.1.6.3,
- 9.12 returns to "Idle" state.

IN933307 To ensure that the IUT being in the "Waiting For End Of User Interaction" receiving an error **TaskRefused** on ApplyChargingReport

7.1.6.3, 9.12 returns to "Idle" state.

### 5.2.4.2 Invalid Behaviour tests (BI)

The test group objective is to test the assisting SSP capability of reacting correctly on receipt of operations that are syntactically invalid.

### 5.2.4.2.1 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that an invalid ConnectToResource or ResetTimer operation is rejected by the SSF in the SSF-FSM state "Waiting For Instructions".

- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.
- **Postamble:** Terminate the dialogue.
- IN942101 To ensure that the IUT being in the state "Waiting For Instructions" receiving ConnectToResource invoke without resourceAddress
- 7.1.6.2, 9.12 rejects the invoke.
- IN942102 To ensure that the IUT being in the state "Waiting For Instructions" receiving **ResetTimer** without timerValue 7.1.6.2,
- 9.12 rejects the invoke.

### 5.2.4.2.2 SSF-FSM state "Waiting for End of User Interaction"

The test group objective is to check that an invalid DisconnectForwardConnection, PlayAnnouncement, PromptAndCollectUserInformation, ResetTimer or Cancel operation is rejected by the SSF in the SSF-FSM state "Waiting For End of User Interaction".

Preamble:	An assist request was detected. AssistRequestInstructions invoke has been sent. ConnectToResource invoke has been received.
Postamble:	DisconnectForwardConnection invoke and terminate the dialogue.
IN943101	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>DisconnectForwardConnection</b> invoke containing an argument
7.1.6.3,	
9.12	reject the invoke.
IN943102	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>PlayAnnouncement</b> without informationToSend,
7.1.6.3,	
9.12	rejects the invoke.
IN943103	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>PromptAndCollectUserInformation</b> invoke without collectedInfo
7.1.6.3,	•
9.12	rejects the invoke.
IN943104	To ensure that the IUT being in the "Waiting For End Of User Interaction" state, receiving <b>ResetTimer</b> invoke without timerValue
7.1.6.3,	
9.12	reject the invoke.

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- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent. ConnectToResource invoke received, followed by PlayAnnouncement invoke. Announcement is active.
- **Postamble:** DisconnectForwardConnection invoke and terminate the dialogue.
- IN943105 To ensure that the IUT being in the "Waiting For End Of User Interaction" state receiving **Cancel** invoke without argument
- 7.1.6.3,9.12rejects the invoke.

### 5.2.4.3 Inopportune Behaviour tests (BO)

The test group objective is to test the assisting SSP capability of responding correctly to operations for user interaction with relay that are syntactically valid but semantically incorrect.

### 5.2.4.3.1 SSF-FSM state "Waiting For Instructions"

The test group objective is to check that the assisting SSF reacts correctly on receipt of an operation that is not allowed in the SSF-FSM state "Waiting For Instructions".

Preamble:	An assist request was detected. AssistRequestInstructions invoke has been sent and ResetTimer invoke has been received.		
Postamble:	Terminate the dialogue.		
IN952101	To ensure that the IUT being in the "Waiting For Instructions" state, receiving <b>DisconnectForwardConnection</b> invoke		
7.1.6.2,			
9.12	sends an error UnexpectedComponentSequence.		
IN952102	To ensure that the IUT being in the "Waiting For Instructions" state, receiving <b>Cancel</b> invoke (related to ResetTimer		
7.1.6.2,	· ·		
9.12	sends error CancelFailed (operationNotCancellable).		
IN952103	To ensure that the IUT being in the "Waiting For Instructions" state, receiving <b>PlayAnnouncement</b> invoke		
7.1.1.6.2,	-		
7.3.12	sends an error UnexpectedComponentSequence.		
IN952104	To ensure that the IUT being in the "Waiting For Instructions" state, receiving		
	PromptAndCollectUserInformation invoke		
7.1.6.2,			
9.12	sends an error UnexpectedComponentSequence.		

### 5.3 Intelligent Peripheral (IP)

The test group objective is to test the INAP procedures at the IP.

### 5.3.1 Valid Behaviour tests (BV)

The test group objective is to test the IP capability of reacting correctly on network events and of accepting and if appropriate responding to PDUs (operations, operation errors) that are syntactically and semantically valid.

### 5.3.1.1 SRSM-FSM state "Idle"

The test group objective is to check that in the "Idle" state on detection of an assist request a valid AssistRequestInstructions operation is sent.

Preamble: Postamble:	- Initiate a bearer channel disconnect request to the SRF and terminate the dialogue.
INA31001	To ensure that the IUT being in the state "Idle" detecting an assist request sends <b>AssistRequestInstructions</b> invoke containing all mandatory parameters,
7.3.4.1,	with:
7.3.4.2, 9.5	- correlationID.
INA31002	To ensure that the IUT being in the state "Idle" detecting an assist request sends <b>AssistRequestInstructions</b> invoke containing network operator specific
7.3.4.1,	extensions, with:
7.3.4.2,	- correlationID,
9.5	- extensions.

### 5.3.1.2 SRSM-FSM state "Connected"

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The test group objective is to check that the IP in the "Connected" state reacts correctly on expiration of TSRF and bearer channel disconnection and accepts valid operations PlayAnnouncement and PromptAndCollectUserInformation as well as error indication on AssistRequestInstructions.

### 5.3.1.2.1 Network events

Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.

### Postamble:

INA32001 To ensure that the IUT being in the "Connected" state, at detection of T<sub>SRF</sub> expiration, returns to "Idle" state.
 7.3.4.2,
 8.3.2
 INA32002 To ensure that the IUT being in the "Connected" state, receiving bearer channel disconnect indication from SSP, returns to "Idle" state.
 7.3.4.2, returns to "Idle" state.

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5.3.1.2.2	Operations
Preamble: Postamble:	An assist request was detected. AssistRequestInstructions invoke has been sent. PlayAnnouncement invoke has been received. Initiate a bearer channel disconnect request to the SRF and terminate the dialogue.
INA32101 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being elementaryMessageID
	sends SpecializedResourceReport invoke.
INA32102 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being text being messageContent
0.20	sends SpecializedResourceReport invoke.
INA32103 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being elementaryMessageIDs including multiple elementaryMessageID
0.20	sends SpecializedResourceReport invoke.
INA32104 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameter only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being integer
	sends SpecializedResourceReport invoke.
INA32105 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being number
	sends SpecializedResourceReport invoke.
INA32106 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being time
	sends SpecializedResourceReport invoke.
INA32107 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being date
	sends SpecializedResourceReport invoke.

INA32108 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory parameters only with: - informationToSend being inbandInfo including messageID being variableMessage including elementaryMessageID and variablePart being price sends <b>SpecializedResourceReport</b> invoke.
INA32109 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory and optional parameters with: - informationToSend being inbandInfo including: - messageID being elementaryMessageID, - numberOfRepetitions, - duration, - interval, - disconnectFromIPForbidden (FALSE), - requestAnnouncementComplete (FALSE) does not return any error, reject the invoke, or abort the dialogue within the duration time out.
INA32110 7.3.4.2, 9.21, 9.29	<ul> <li>To ensure that the IUT being in the state "Connected" receiving PlayAnnouncement invoke containing mandatory and optional parameters with:</li> <li>informationToSend being tone including: <ul> <li>toneID,</li> <li>duration,</li> </ul> </li> <li>disconnectFromIPForbidden (FALSE),</li> <li>requestAnnouncementComplete (FALSE)</li> <li>does not return any error, reject the invoke, or abort the dialogue within the duration time out.</li> </ul>
INA32111 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing mandatory and optional parameters with: - informationToSend being displayInformation, - disconnectFromIPForbidden (FALSE) sends <b>SpecializedResourceReport</b> invoke.
INA32112 7.3.4.2, 9.21, 9.29	To ensure that the IUT being in the state "Connected" receiving <b>PlayAnnouncement</b> invoke containing network operator specific extensions with: - informationToSend being tone including toneID, - extensions sends <b>SpecializedResourceReport</b> invoke.
INA32113 7.3.4.2, 9.22	To ensure that the IUT being in the state "Connected" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory parameter only with: - collectedInfo being collectedDigits including maximumNbOfDigits after having received the number of digits as specified in maximumNbOfDigits from the user

sends **PromptAndCollectUserInformation** result with digitsResponse.

### Page 80 ETS 300 374-3: February 1996 INA32114 To ensure that the IUT beina in the PromptAndCollectUserInformation invoke containing mandatory and optional 7.3.4.2.

- parameters with: 9.22
  - collectedInfo being collectedDigits including:
    - minimumNbOfDigits,
    - maximumNbOfDigits,
  - disconnectFromIPForbidden (FALSE),
  - informationToSend being tone including toneID

after having received the number of digits as specified in maximumNbOfDigits from the user

state

"Connected"

receivina

### sends PromptAndCollectUserInformation result with digitsResponse.

INA32115 To ensure that the IUT being in the state "Connected" receiving PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.3.4.2,

9.22

- collectedInfo being collectedDigits including:
  - maximumNbOfDigits,
  - endOfReplyDigit with the maximum length as stated in ETS 300 374-2 [2].
- informationToSend being tone including toneID

after having received the number of digits as specified in maximumNbOfDigits from the user

sends PromptAndCollectUserInformation result with digitsResponse.

INA32116 Tο that the IUT being in the state "Connected" receiving ensure PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.3.4.2,

9.22

- collectedInfo being collectedDigits including:
  - maximumNbOfDigits,
- cancelDigit with the maximum length as stated in ETS 300 374-2 [2],
- informationToSend being tone including toneID

after having received the number of digits as specified in maximumNbOfDigits from the user

### sends PromptAndCollectUserInformation result with digitsResponse.

INA32117 ensure that the IUT being in the state "Connected" receiving То PromptAndCollectUserInformation invoke containing mandatory and optional 7.3.4.2. parameters with:

9.22

- collectedInfo being collectedDigits including:
  - maximumNbOfDigits.
  - startDigit with the maximum length as stated in ETS 300 374-2 [2],
  - informationToSend being tone including toneID

after having received the number of digits as specified in maximumNbOfDigits from the user

sends PromptAndCollectUserInformation result with digitsResponse.

#### INA32118 То ensure that the IUT being in the state "Connected" receiving PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.3.4.2.

- 9.22
- collectedInfo being collectedDigits including:
  - maximumNbOfDigits,
  - firstDigitTimeOut,
- informationToSend being tone including toneID

after having received the number of digits as specified in maximumNbOfDigits from the user

sends PromptAndCollectUserInformation result with digitsResponse.

INA32119 To ensure that the IUT beina in the state "Connected" receiving PromptAndCollectUserInformation invoke containing mandatory and optional 7.3.4.2, parameters with: collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, interDigitTimeOut, disconnectFromIPForbidden (FALSE), informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. INA32120 being in "Connected" To ensure that the IUT the state receiving PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.3.4.2, collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, errorTreatment (repeatPrompt). informationToSend being tone including toneID after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. INA32121 То ensure that the IUT being in the state "Connected" receiving PromptAndCollectUserInformation invoke containing mandatory and optional parameters with: 7.3.4.2, collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, interruptableAnnInd (FALSE), informationToSend being tone including toneID, after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. INA32122 To ensure that the IUT being in the state "Connected" receiving PromptAndCollectUserInformation invoke containing mandatory and optional 7.3.4.2. parameters with: 9.22 collectedInfo being collectedDigits including: maximumNbOfDigits. voiceInformation. informationToSend being tone including toneID, after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse. INA32123 То ensure that the IUT being in the state "Connected" receiving PromptAndCollectUserInformation invoke containing mandatory and optional 7.3.4.2, parameters with: collectedInfo being collectedDigits including: 9.22 maximumNbOfDigits, \_ voiceBack, informationToSend being tone including toneID, after having received the number of digits as specified in maximumNbOfDigits from the user sends PromptAndCollectUserInformation result with digitsResponse.

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INA32124 7.3.4.2,	To ensure that the IUT being in the state "Connected" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and optional parameters with:			
9.22	<ul> <li>collectedInfo being collectedDigits including maximumNbOfDigits,</li> <li>informationToSend being displayInformation,</li> <li>after having received the number of digits as specified in maximumNbOfDigits from the user</li> </ul>			
	sends PromptAndCollectUserInformation result with digitsResponse.			
INA32125	To ensure that the IUT being in the state "Connected" receiving <b>PromptAndCollectUserInformation</b> invoke containing mandatory and optional			
7.3.4.2, 9.22	<ul> <li>parameters with:</li> <li>collectedInfo being collectedDigits including maximumNbOfDigits,</li> <li>informationToSend being inbandInfo including messageID being elementaryMessageID,</li> <li>after having received the number of digits as specified in maximumNbOfDigits from</li> </ul>			
	the user			
	sends PromptAndCollectUserInformation result with digitsResponse.			
INA32126 7.3.4.2,	To ensure that the IUT being in the state "Connected" receiving <b>PromptAndCollectUserInformation</b> invoke containing network operator specific extensions with:			
9.22	<ul> <li>collectedInfo being collectedDigits including maximumNbOfDigits,</li> <li>informationToSend being tone including toneID</li> <li>extensions,</li> <li>after having received the number of digits as specified in maximumNbOfDigits from the user</li> </ul>			
	sends PromptAndCollectUserInformation result with digitsResponse.			
INA32127	To ensure that the IUT being in the state "Connected" receiving <b>Cancel</b> invoke containing with the invokeID of the PlayAnnouncement invoke			
8.2.2, 9.9	sends error Cancelled on <b>PlayAnnouncement</b> .			
5.3.1.2.3	Operation errors			
Preamble:	An assist request was detected. AssistRequestInstructions invoke has been sent.			
Postamble:				
INA32301	To ensure that the IUT being in the "Connected" state, receiving an error <b>MissingCustomerRecord</b> on AssistRequestInstructions,			
8.2.6, 10.2	returns to "Idle" state.			
INA32302	To ensure that the IUT being in the "Connected" state, receiving an error <b>MissingParameter</b> on AssistRequestInstructions,			
8.2.7, 10.2.	returns to "Idle" state.			
INA32303	To ensure that the IUT being in the "Connected" state, receiving an error <b>TaskRefused</b> on AssistRequestInstructions,			
8.2.15, 10.2.	returns to "Idle" state.			
INA32304	To ensure that the IUT being in the "Connected" state, receiving an error UnexpectedComponentSequence on AssistRequestInstructions,			
8.2.17, 10.2.	returns to "Idle" state.			

- INA32305 To ensure that the IUT being in the "Connected" state, receiving an error UnexpectedDataValue on AssistRequestInstructions, 8.2.18, 10.2. returns to "Idle" state.
- INA32306 To ensure that the IUT being in the "Connected" state, receiving an error **UnexpectedParameter** on AssistRequestInstructions,

8.2.19, 10.2. returns to "Idle" state.

### 5.3.1.3 SRSM-FSM state "User Interaction"

The test group objective is to check that the IP in the "User Interaction" state reacts correctly on expiration of TSRF and bearer channel disconnection and accepts valid operations PlayAnnouncement and PromptAndCollectUserInformation.

- 5.3.1.3.1 Network events
- Preamble:
   An assist request was detected. AssistRequestInstructions invoke has been sent. PlayAnnouncement invoke has been received.

Postamble:

INA33001 To ensure that the IUT being in the "User Interaction" state, at detection of T<sub>SRF</sub> expiration,

7.3.4.3, returns to the "Idle" state

INA33002 To ensure that the IUT being in the "User Interaction" state, receiving bearer channel disconnect indication from SSP, 7.3.4.3, returns to the "Idle" state

10.1.3

9.21

9.22

8.3.2

- 5.3.1.3.2 Operations
- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.

**Postamble:** Terminate the dialogue.

INA33101 To ensure that the IUT being in the "User Interaction" state, receiving **PlayAnnouncement** invoke containing mandatory and optional parameters, with: 7.3.4.3, - informationToSend being inbandInfo including messageID being

- informationToSend being inbandInfo including messageID being elementaryMessageID,
  - disconnectFromIPForbidden (FALSE)

sends SpecializedResourceReport invoke.

INA33102 To ensure that the IUT being in the "User Interaction" state, receiving **PromptAndCollectUserInformation** invoke containing mandatory and optional parameters, with:

- informationToSend being inbandInfo including messageID being elementaryMessageID,
  - collectedInfo being collectedDigits including maximumNbOfDigits,
  - disconnectFromIPForbidden (FALSE)

after having received the number of digits as specified in maximumNbOfDigits from the user

sends **PromptAndCollectUserInformation** result with digitsResponse.

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### 5.3.2 Invalid Behaviour tests (BI)

The test group objective is to test the IP capability of reacting correctly on operations that are syntactically invalid and if appropriate responding to the partner entity.

### 5.3.2.1 SRSM-FSM state "Connected"

- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.
- Postamble: Terminate the dialogue.
- INA42101 To ensure that the IUT being in the state "Connected" receiving **PlayAnnouncement** invoke without informationToSend 7.3.4.3.
- 10.2 rejects the invoke or aborts the dialogue.
- INA42102 To ensure that the IUT being in the state "Connected" receiving **PromptAndCollectUserInformation** invoke without collectedInfo
- 10.2 rejects the invoke or aborts the dialogue.
- INA42103 То ensure that the IUT being in the state "Connected" receiving PromptAndCollectUserInformation invoke with collectedInfo including not maximumNbOfDigits 7.3.4.3, 10.2

rejects the invoke or aborts the dialogue.

### 5.3.2.2 SRSM-FSM state "User Interaction"

- Preamble: An assist request was detected. AssistRequestInstructions invoke has been sent.
- Postamble: Terminate the dialogue.
- INA43101 To ensure that the IUT being in the state "User Interaction" receiving **PlayAnnouncement** invoke without informationToSend
- 7.3.4.3, 10.2

7.3.4.3,

7.3.4.3,

rejects the invoke or aborts the dialogue.

- INA43102 To ensure that the IUT being in the state "User Interaction" receiving **PromptAndCollectUserInformation** invoke without collectedInfo
- 10.2 rejects the invoke or aborts the dialogue.
- INA43103 To ensure that the IUT being in the state "User Interaction" receiving **PromptAndCollectUserInformation** invoke with collectedInfo not including 7.3.4.3, maximumNbOfDigits 10.2

rejects the invoke or aborts the dialogue.

INA43104 To ensure that the IUT being in the state "User Interaction" receiving **Cancel** invoke (related to allRequests)

7.1.5.4, 8.2.3

rejects the invoke.

### 5.3.3 Inopportune Behaviour tests (BO)

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The test group objective is to test the IP capability of reacting correctly on operations that are syntactically valid but semantically incorrect, and if appropriate responding to the partner entity.

### 5.3.3.1 SRSM-FSM state "Idle"

The test group objective is to check that the IP reacts correctly on receipt of an operation that is not allowed in the SRSM-FSM state "Idle".

## Preamble:

Postamble:

INA51101	To ensure that the IUT being in the state "Idle" receiving a PlayAnnouncement invoke	
7.3.4.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue.	
INA51102	To ensure that the IUT being in the state "Idle" receiving a <b>PromptAndCollectUserInformation</b> invoke	
7.3.4.1, 8.1.13	sends error UnexpectedComponentSequence and terminates the dialogue.	
INA51103	To ensure that the IUT being in the state "Idle" receiving a Cancel invoke	
7.3.4.1, 8.1.13	rejects the invoke and terminates the dialogue.	

### 5.3.3.2 SRSM-FSM state "Connected"

The test group objective is to check that the IP reacts correctly on receipt of an operation that is not allowed in the SRSM-FSM state "Connected".

Preamble: Postamble:	An assist request was detected. AssistRequestInstructions invoke has been sent. Terminate the dialogue.
r ostanisie.	
INA52101	To ensure that the IUT being in the state "Connected" receiving a <b>Cancel</b> invoke (related to allRequests)
7.3.4.2, 8.1.13	rejects the invoke or terminates the dialogue.

### 6 Compliance

An ATS which complies with the TSS&TP specification in this ETS shall:

- a) consist of a set of test cases corresponding to the set or to a subset of the test purposes specified in clause 5;
- b) use a test suite structure which is an appropriate subset of the whole of the test suite structure specified in clause 4;
- c) use the same naming conventions for the test groups and test cases;
- d) maintain the relationship specified in clause 5 between the test groups and test purposes and the entries in the PICS proforma (ETS 300 374-2 [2]) to be used for test case deselection;
- e) comply with ISO/IEC 9646-2 [4].

In the case of a) or b) above, a subset shall be used only where a particular abstract test method makes some test purposes untestable. All testable test purposes from clause 5 shall be included in a compliant ATS.

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# Annex A (informative): TP coverage

Table A.1 gives some figures about the number of test purposes for each test group.

SUT	Interface	Category	Number of TPs
SSP	SCF-SSF	CA	6
	<b>bS</b> : SSP basic functions	BV	143
		BI	18
		BO	20
	SCF-SSF-SRF	BV	39
	<b>rS</b> : add. for SSP with	BI	4
	relay functions	BO	15
	SCF-SSF	BV	16
	iS: add. for SSP acting	BI	2
	as initiating SSP	BO	14
	SCF-SSF	BV	31
	<b>aS</b> : add. for SSP acting	BI	7
	as assisting SSP	BO	4
IP	SCF-SRF	BV	41
	cl (IP direct path to SCP)	BI	7
		BO	4

## Table A.1: TP coverage

# History

Document history			
March 1995	Public Enquiry	PE 81:	1995-03-27 to 1995-08-18
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February 1996	First Edition		