

**Open Service Access (OSA);
Application Programming Interface (API);
Test Suite Structure and Test Purposes (TSS&TP);
Part 4: Call control SCF**



Reference

DES/SPAN-120088-4

Keywords

API, OSA, TSS&TP

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, send your comment to:

editor@etsi.org

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2003.
All rights reserved.

DECT™, **PLUGTESTS™** and **UMTS™** are Trade Marks of ETSI registered for the benefit of its Members.
TIPHON™ and the **TIPHON logo** are Trade Marks currently being registered by ETSI for the benefit of its Members.
3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

Contents

Intellectual Property Rights	5
Foreword.....	5
1 Scope	6
2 References	6
3 Definitions and abbreviations.....	6
3.1 Definitions	6
3.2 Abbreviations	7
4 Test Suite Structure (TSS).....	7
5 Test Purposes (TP)	8
5.1 Introduction	8
5.1.1 TP naming convention	8
5.1.2 Source of TP definition.....	8
5.1.3 Test strategy.....	8
5.2 TPs for the Call Control SCF	8
5.2.1 Generic Call Control.....	9
5.2.1.1 IpCallControlManager	9
5.2.1.1.1 Mandatory, valid behaviour.....	9
5.2.1.1.2 Mandatory, invalid behaviour.....	12
5.2.1.1.3 Optional, valid behaviour	14
5.2.1.1.4 Optional, invalid behaviour	20
5.2.1.2 IpCall.....	23
5.2.1.2.1 Mandatory, valid behaviour.....	23
5.2.1.2.2 Mandatory, invalid behaviour.....	24
5.2.1.2.3 Optional, valid behaviour	31
5.2.1.2.4 Optional, invalid behaviour	36
5.2.2 MultiParty Call Control Service (MPCC).....	41
5.2.2.1 IpMultiPartyCallControlManager	41
5.2.2.1.1 Mandatory, valid behaviour.....	41
5.2.2.1.2 Mandatory, invalid behaviour.....	43
5.2.2.1.3 Optional, valid behaviour	46
5.2.2.1.4 Optional, invalid behaviour	51
5.2.2.2 IpMultiPartyCall	54
5.2.2.2.1 Mandatory, valid behaviour.....	54
5.2.2.2.2 Mandatory, invalid behaviour.....	58
5.2.2.2.3 Optional, valid behaviour	63
5.2.2.2.4 Optional, invalid behaviour	66
5.2.2.3 IpCallLeg	70
5.2.2.3.1 Mandatory, valid behaviour.....	70
5.2.2.3.2 Mandatory, invalid behaviour.....	73
5.2.2.3.3 Optional, valid behaviour	78
5.2.2.3.4 Optional, invalid behaviour	84
5.2.3 MultiMedia Call Control Service (MMCC).....	92
5.2.3.1 IpMultiMediaCallControlManager	92
5.2.3.1.1 Mandatory, valid behaviour.....	92
5.2.3.1.2 Mandatory, invalid behaviour.....	96
5.2.3.1.3 Optional, valid behaviour	99
5.2.3.1.4 Optional, invalid behaviour	107
5.2.3.2 IpMultimediaCall	111
5.2.3.2.1 Mandatory, valid behaviour.....	111
5.2.3.2.2 Mandatory, invalid behaviour.....	116
5.2.3.2.3 Optional, valid behaviour	121
5.2.3.2.4 Optional, invalid behaviour	126
5.2.3.3 IpMultiMediaCallLeg	131

5.2.3.3.1	Mandatory, valid behaviour.....	131
5.2.3.3.2	Mandatory, invalid behaviour.....	134
5.2.3.3.3	Optional, valid behaviour	139
5.2.3.3.4	Optional, invalid behaviour	148
5.2.3.4	IpMultiMediaStream	156
5.2.3.4.1	Mandatory, valid behaviour.....	156
5.2.3.4.2	Mandatory, invalid behaviour.....	158
5.2.4	Conference Call Control Service (CCC).....	159
5.2.4.1	IpConfCallControlManager	159
5.2.4.1.1	Mandatory, valid behaviour.....	159
5.2.4.1.2	Mandatory, invalid behaviour.....	162
5.2.4.1.3	Optional, valid behaviour	162
5.2.4.1.4	Optional, invalid behaviour	163
5.2.4.2	IpConfCall.....	164
5.2.4.2.1	Mandatory, valid behaviour.....	164
5.2.4.2.2	Mandatory, invalid behaviour.....	166
5.2.4.2.3	Optional, valid behaviour	168
5.2.4.2.4	Optional, invalid behaviour	174
5.2.4.3	IpSubConfCall	180
5.2.4.3.1	Mandatory, valid behaviour.....	180
5.2.4.3.2	Mandatory, invalid behaviour.....	186
5.2.4.3.3	Optional, valid behaviour	195
5.2.4.3.4	Optional, invalid behaviour	202
5.2.4.4	IpMultiMediaCallLeg	209
5.2.4.4.1	Mandatory, valid behaviour.....	209
5.2.4.4.2	Mandatory, invalid behaviour.....	212
5.2.4.4.3	Optional, valid behaviour	218
5.2.4.4.4	Optional, invalid behaviour	227
5.2.4.5	IpMultiMediaStream	233
5.2.4.5.1	Mandatory, valid behaviour.....	233
5.2.4.5.2	Mandatory, invalid behaviour.....	235
History		236

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<http://webapp.etsi.org/IPR/home.asp>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document is part 4 of a multi-part deliverable. Full details of the entire series can be found in part 1 [6].

To evaluate conformance of a particular implementation, it is necessary to have a set of test purposes to evaluate the dynamic behaviour of the Implementation Under Test (IUT). The specification containing those test purposes is called a Test Suite Structure and Test Purposes (TSS&TP) specification.

1 Scope

The present document provides the Test Suite Structure and Test Purposes (TSS&TP) specification for the Call Control SCF of the Application Programming Interface (API) for Open Service Access (OSA) defined in ES 201 915-4 [1] in compliance with the relevant requirements, and in accordance with the relevant guidance given in ISO/IEC 9646-2 [4] and ETS 300 406 [5].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication and/or edition number or version number) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.

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

- [1] ETSI ES 201 915-4: "Open Service Access (OSA); Application Programming Interface (API); Part 4: Call Control SCF (Parlay 3)".
- [2] ETSI ES 202 170: "Open Service Access (OSA); Application Programming Interface (API); Implementation Conformance Statement (ICS) proforma specification for Framework and SCFs".
- [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".
- [5] ETSI ETS 300 406: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; Standardization methodology".
- [6] ETSI ES 202 196-1: "Open Service Access (OSA); Application Programming Interface (API); Test Suite Structure and Test Purposes (TSS&TP); Part 1: Overview".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 201 915-4 [1], ISO/IEC 9646-1 [3] and ISO/IEC 9646-2 [4] and the following apply:

abstract test case: Refer to ISO/IEC 9646-1 [3].

Abstract Test Method (ATM): Refer to ISO/IEC 9646-1 [3].

Abstract Test Suite (ATS): Refer to ISO/IEC 9646-1 [3].

Implementation Under Test (IUT): Refer to ISO/IEC 9646-1 [3].

Lower Tester (LT): Refer to ISO/IEC 9646-1 [3].

Implementation Conformance Statement (ICS): Refer to ISO/IEC 9646-1 [3].

ICS proforma: Refer to ISO/IEC 9646-1 [3].

Implementation eXtra Information for Testing (IXIT): Refer to ISO/IEC 9646-1 [3].

IXIT proforma: Refer to ISO/IEC 9646-1 [3].

Test Purpose (TP): Refer to ISO/IEC 9646-1 [3].

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

API	Application Programming Interface
ATM	Abstract Test Method
ATS	Abstract Test Suite
CC	Call Control
CCC	Conference Call Control service
GCC	Generic Call Control service
GCC	Generic Call Control Service
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
IXIT	Implementation eXtra Information for Testing
LT	Lower Tester
MMCC	MultiMedia Call Control service
MPCC	MultiParty Call Control service
OSA	Open Service Access
SUT	System Under Test
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

Call Control (CC):

- Generic Call Control Service (GCC)
- MultiParty Call Control Service (MPCC)
- MultiMedia Call Control Service (MMCC)
- Conference Call Control Service (CCC)

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 TP naming convention

TPs are numbered, starting at 01, within each group. Groups are organized according to the TSS. Additional references are added to identify the actual test suite (see table 1).

Table 1: TP identifier naming convention scheme

Identifier:	<suite_id>_<group>_<nnn>
<suite_id>	= SCG name: "CC" for C all C ontrol part of Call Control SCF
<group>	= group number: two character field representing the group reference according to TSS
<nn>	= sequential number: (01-99)

5.1.2 Source of TP definition

The TPs are based on ES 201 915-4 [1].

5.1.3 Test strategy

As the base standard ES 201 915-4 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the ICS specification ES 202 170 [2].

The TPs are only based on conformance requirements related to the externally observable behaviour of the IUT and are limited to conceivable situations to which a real implementation is likely to be faced (see ETS 300 406 [5]).

5.2 TPs for the Call Control SCF

All ICS items referred to in this clause are as specified in ES 202 170 [2] unless indicated otherwise by another numbered reference.

All parameters specified in method calls are valid unless specified.

The procedures to trigger the SCF to call methods in the application are dependant on the underlying network architecture and are out of the scope of this test specification. Those method calls are preceded by the words "Triggered action".

5.2.1 Generic Call Control

5.2.1.1 IpCallControlManager

5.2.1.1.1 Mandatory, valid behaviour

Test GCC_IPCALLCONTROLMANAGER_01

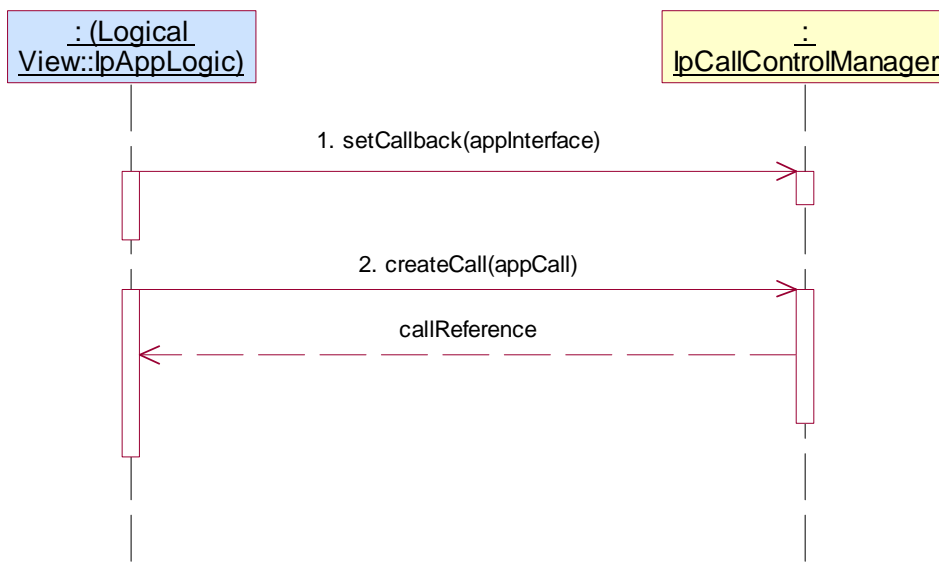
Summary: IpCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: createCall method is supported.

Test Sequence:

1. Method call **setCallback()** on IpCallControlManager
Parameters: valid, not null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpCallIdentifier is returned



Test GCC_IPCALLCONTROLMANAGER_02

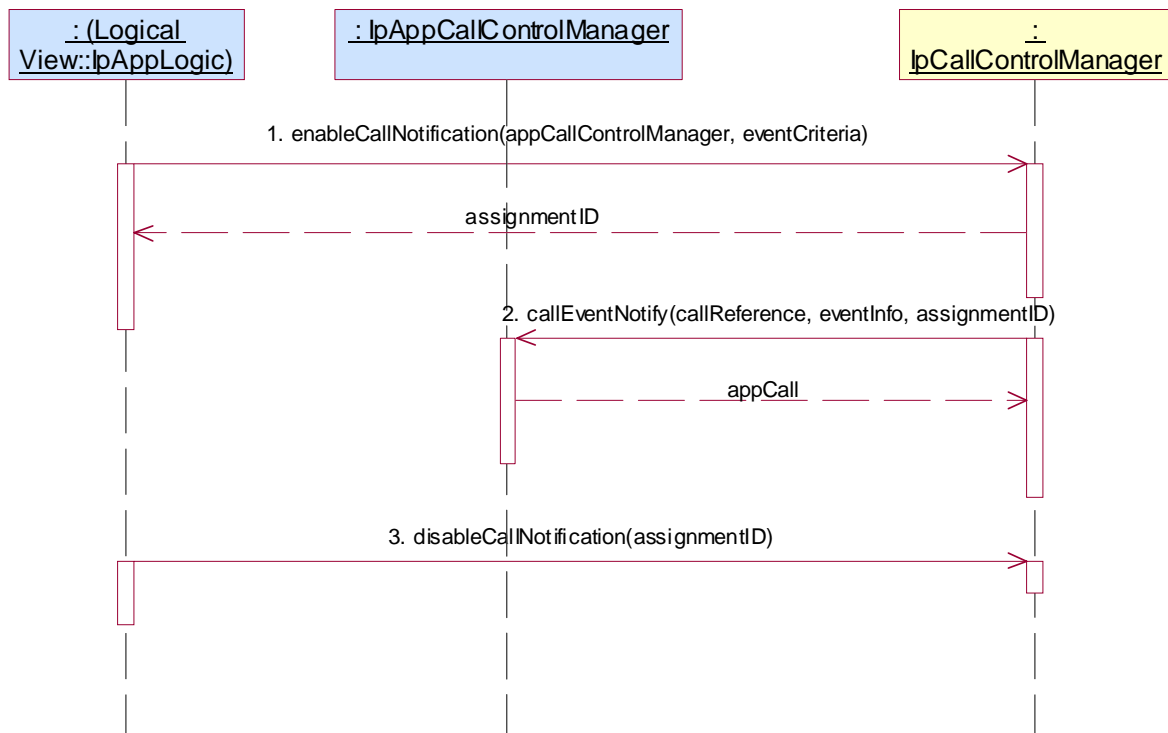
Summary: IpCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification method is supported.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface
Parameters: valid callReference, valid eventInfo, assignmentID returned in 1
3. Method call **disableCallNotification()**
Parameters: assignmentID returned in 1
Check: no exception is returned



Test GCC_IPCALLCONTROLMANAGER_03

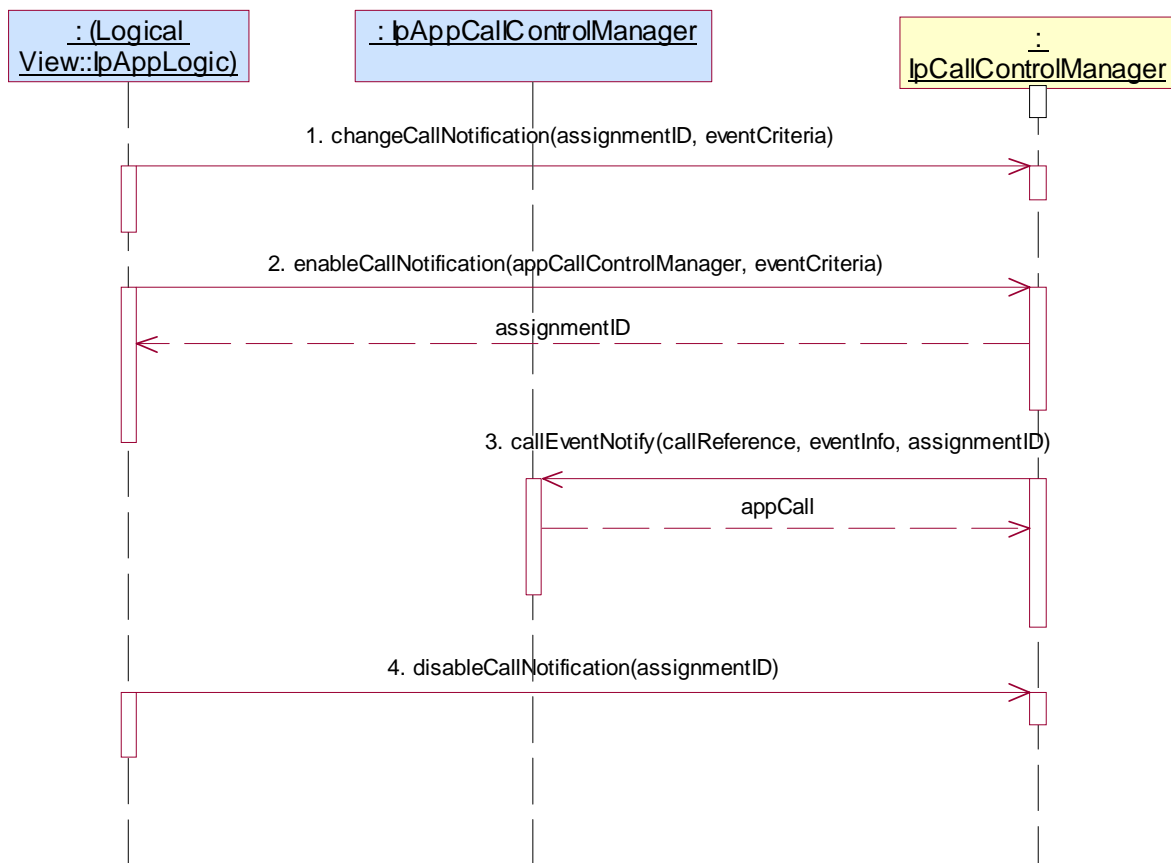
Summary: IpCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification method is supported.

Test Sequence:

1. Method call **setCallback()** on IpCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **enableCallNotification()**
Parameters: appCallControlManager with null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid callReference, valid eventInfo, assignmentID returned in 2.
4. Method call **disableCallNotification()**
Parameters: assignmentID returned in 2.
Check: no exception is returned



5.2.1.1.2 Mandatory, invalid behaviour

Test GCC_IPCALLCONTROLMANAGER_04

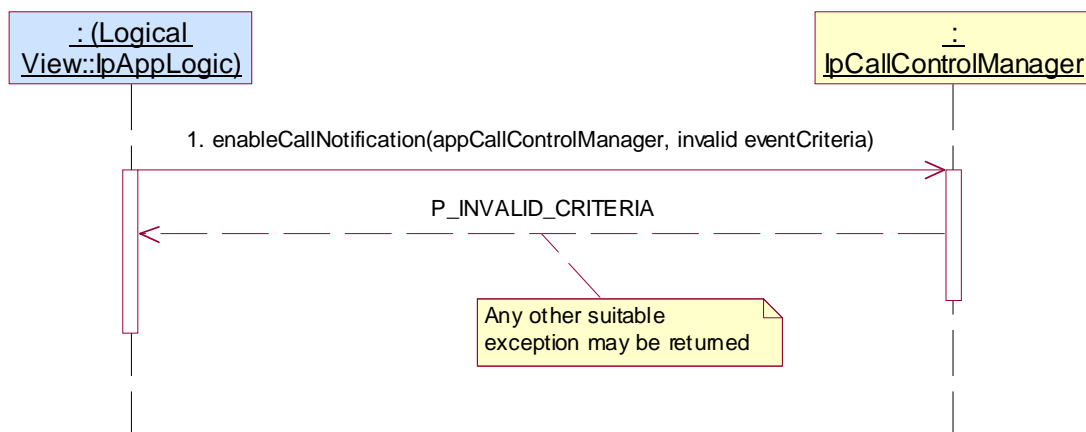
Summary: IpCallControlManager, enableCallNotification, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification method is supported.

Test Sequence:

1. Method call **enableCallNotification()**
 Parameters: valid appCallControlManager, invalid eventCriteria
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned.

**Test GCC_IPCALLCONTROLMANAGER_05**

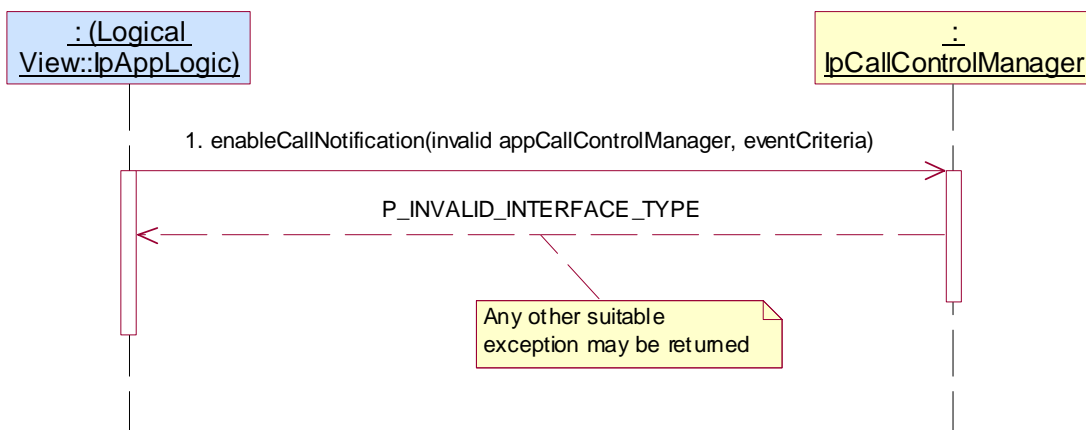
Summary: IpCallControlManager, enableCallNotification, P_INVALID_INTERFACE_TYPE

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification method is supported.

Test Sequence:

1. Method call **enableCallNotification()**
 Parameters: invalid appCallControlManager, valid eventCriteria
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



Test GCC_IPCALLCONTROLMANAGER_06

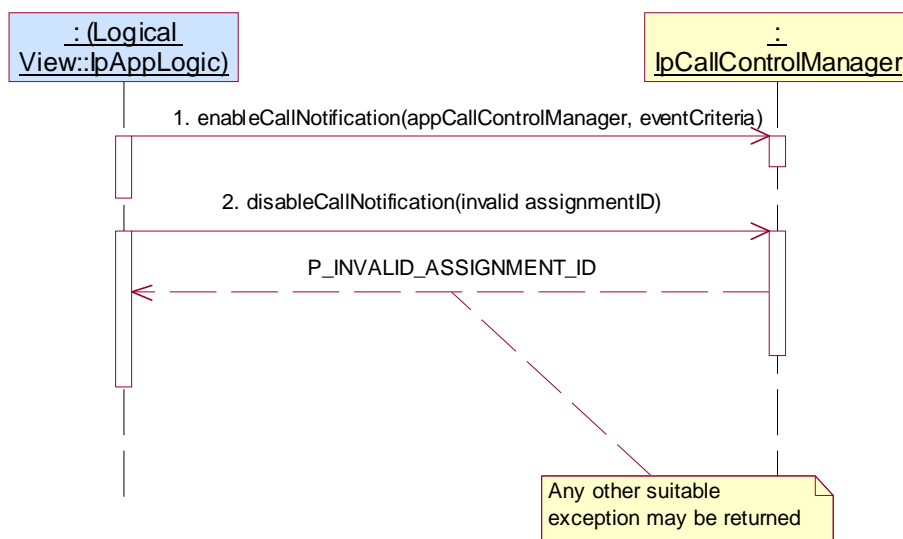
Summary: IpCallControlManager, disableCallNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: disableCallNotification is supported.

Test Sequence:

1. Method call **enableCallNotification()**
 Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
 Check: valid value of TpAssignmentID is returned
2. Method call **disableCallNotification()**
 Parameters: invalid assignmentID
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned

**Test GCC_IPCALLCONTROLMANAGER_07**

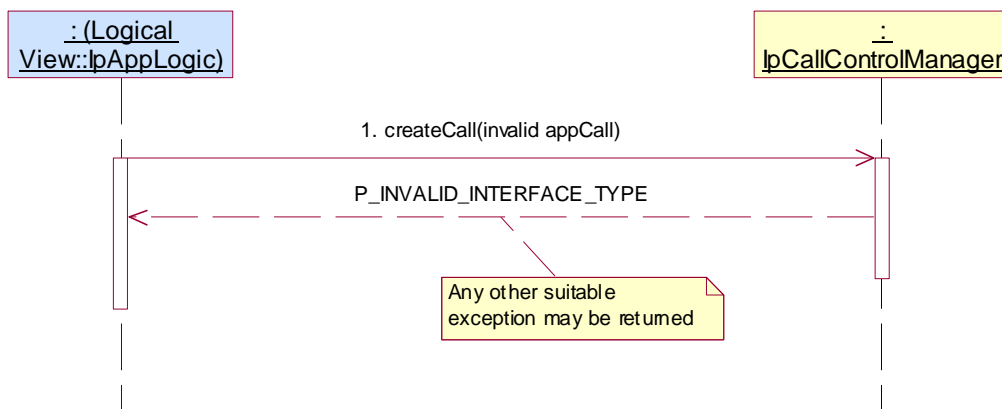
Summary: IpCallControlManager, createCall, P_INVALID_INTERFACE_TYPE

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: createCall method is supported.

Test Sequence:

1. Method call **createCall()**
 Parameters: invalid value of appCall
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



5.2.1.1.3 Optional, valid behaviour

Test GCC_IPCALLCONTROLMANAGER_08

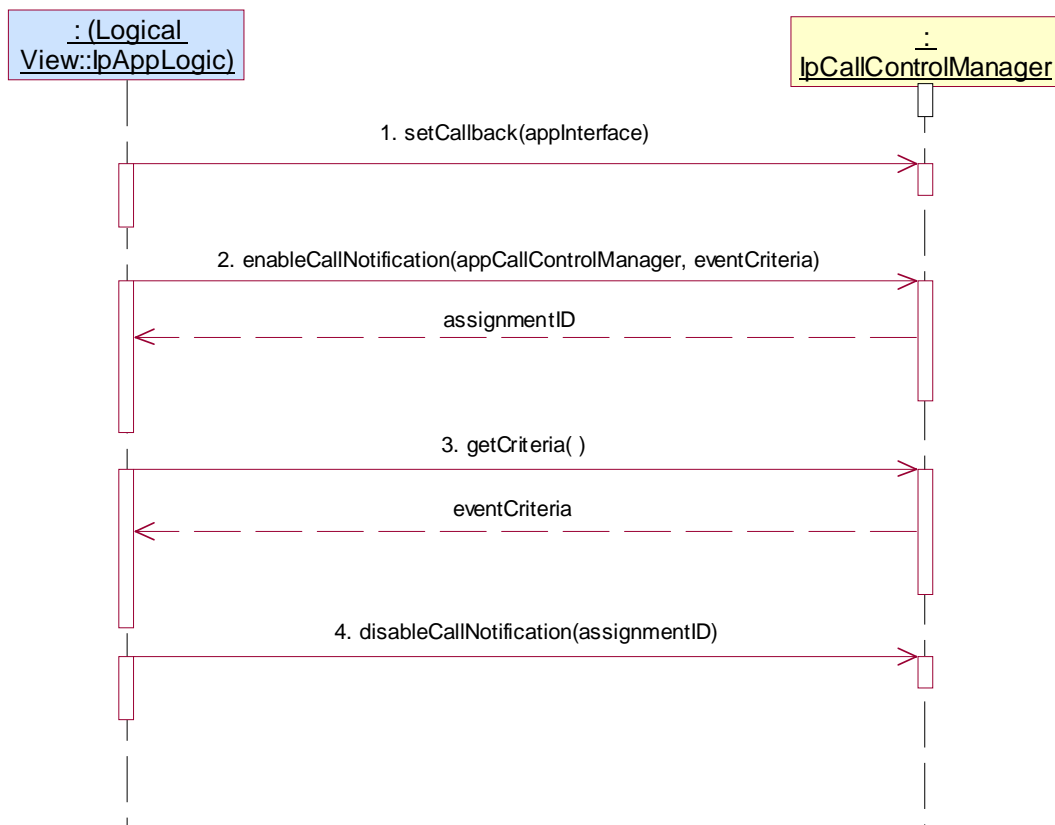
Summary: IpCallControlManager, getCriteria, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification and getCriteria methods are supported.

Test Sequence:

1. Method call **setCallback()** on IpCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **enableCallNotification()**
Parameters: appCallControlManager with null value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
3. Method call **getCriteria()**
Parameters: None
Check: valid value of TpCallEventCriteriaResultSet is returned where eventCriteria given in 1. is included as a value of this TpCallEventCriteriaResultSet
4. Method call **disableCallNotification()**
Parameters: assignmentID returned in 1.
Check: no exception is returned



Test GCC_IPCALLCONTROLMANAGER_09

Summary: IpCallControlManager, changeCallNotification, successful

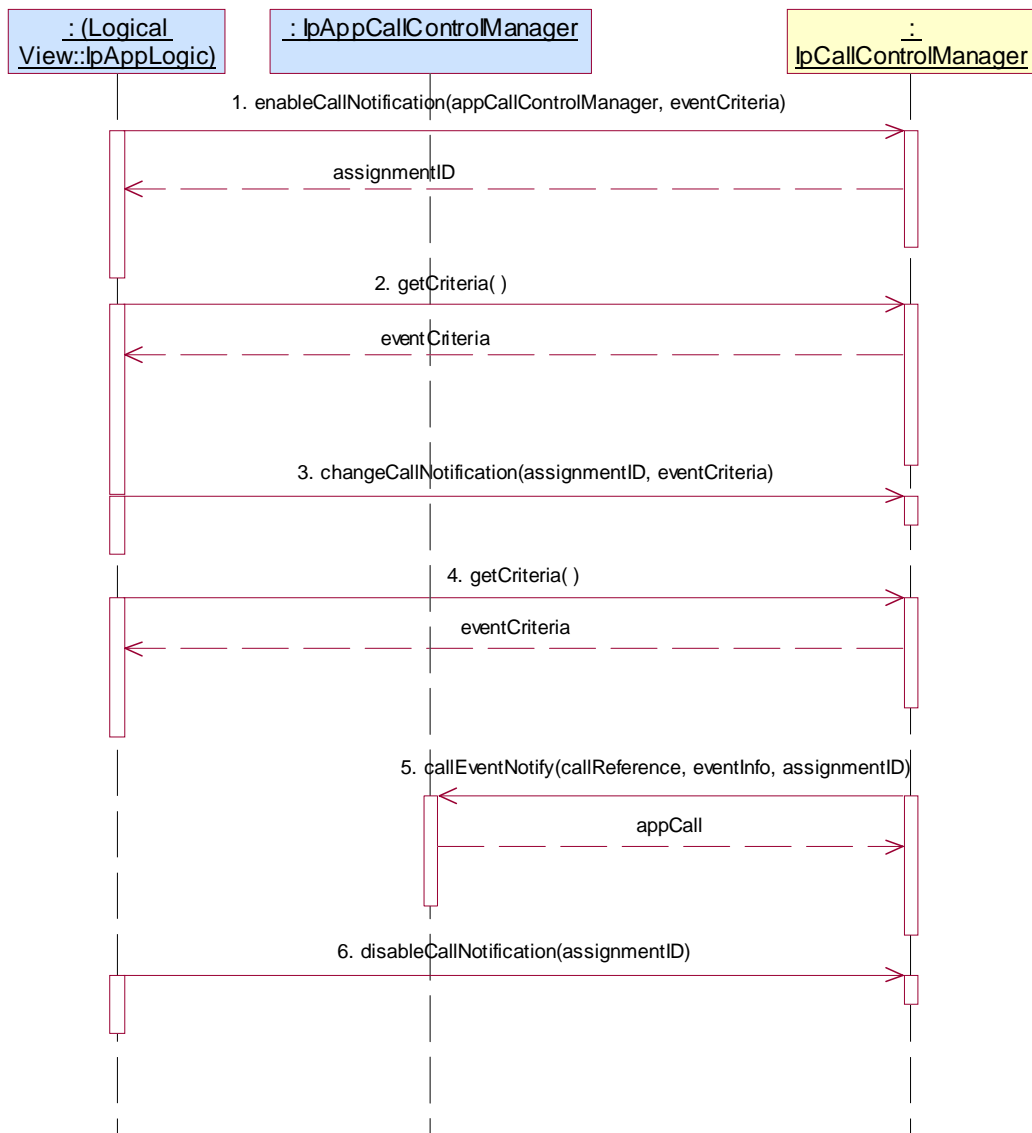
Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification, getCriteria and changeCallNotification methods are supported.

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Method call **getCriteria()**
Parameters: None
Check: valid value of TpCallEventCriteriaResultSet is returned where eventCriteria given in 1. is included as a value of this TpCallEventCriteriaResultSet
3. Method call **changeCallNotification()**
Parameters: assignmentID returned in 1., valid eventCriteria different from this given in 1.
Check: no exception is returned
4. Method call **getCriteria()**
Parameters: None
Check: valid value of TpCallEventCriteriaResultSet is returned where eventCriteria given in 3. is included as a value of this TpCallEventCriteriaResultSet
5. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid callReference, valid eventInfo, assignmentID returned in 1.
6. Method call **disableCallNotification()**
Parameters: assignmentID returned in 1.
Check: no exception is returned



Test GCC_IPCALLCONTROLMANAGER_10

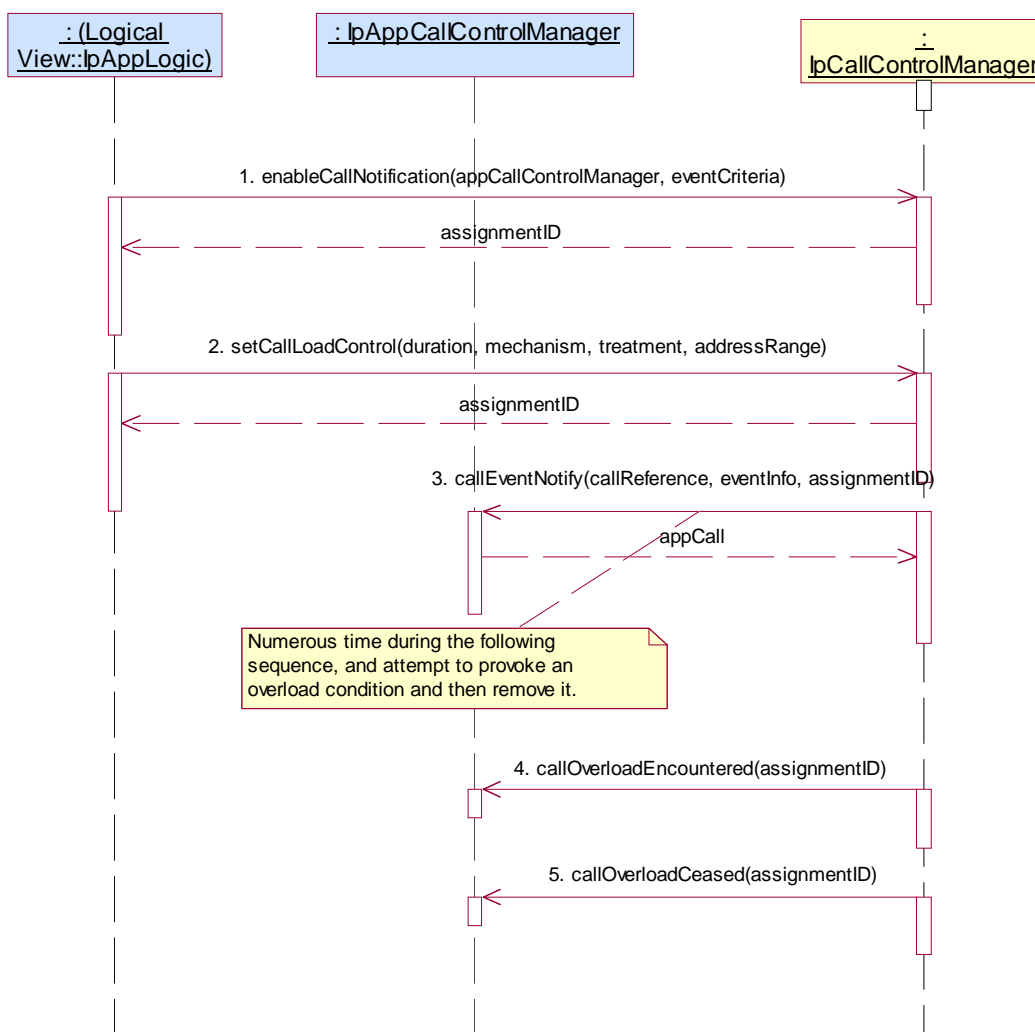
Summary: IpCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification, setCallLoadControl, callOverLoadEncountered and callOverLoadCeased methods are supported.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Method call **setCallLoadControl()**
Parameters: valid duration, valid mechanism, valid treatment, valid addressRange
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call callEventNotify() numerous times during the following sequence, and attempt to provoke an overload condition and then remove it.
4. Triggered action: cause IUT to call **callOverLoadEncountered()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid assignmentID
5. Triggered action: cause IUT to call **callOverLoadCeased()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid assignmentID



Test GCC_IPCALLCONTROLMANAGER_11

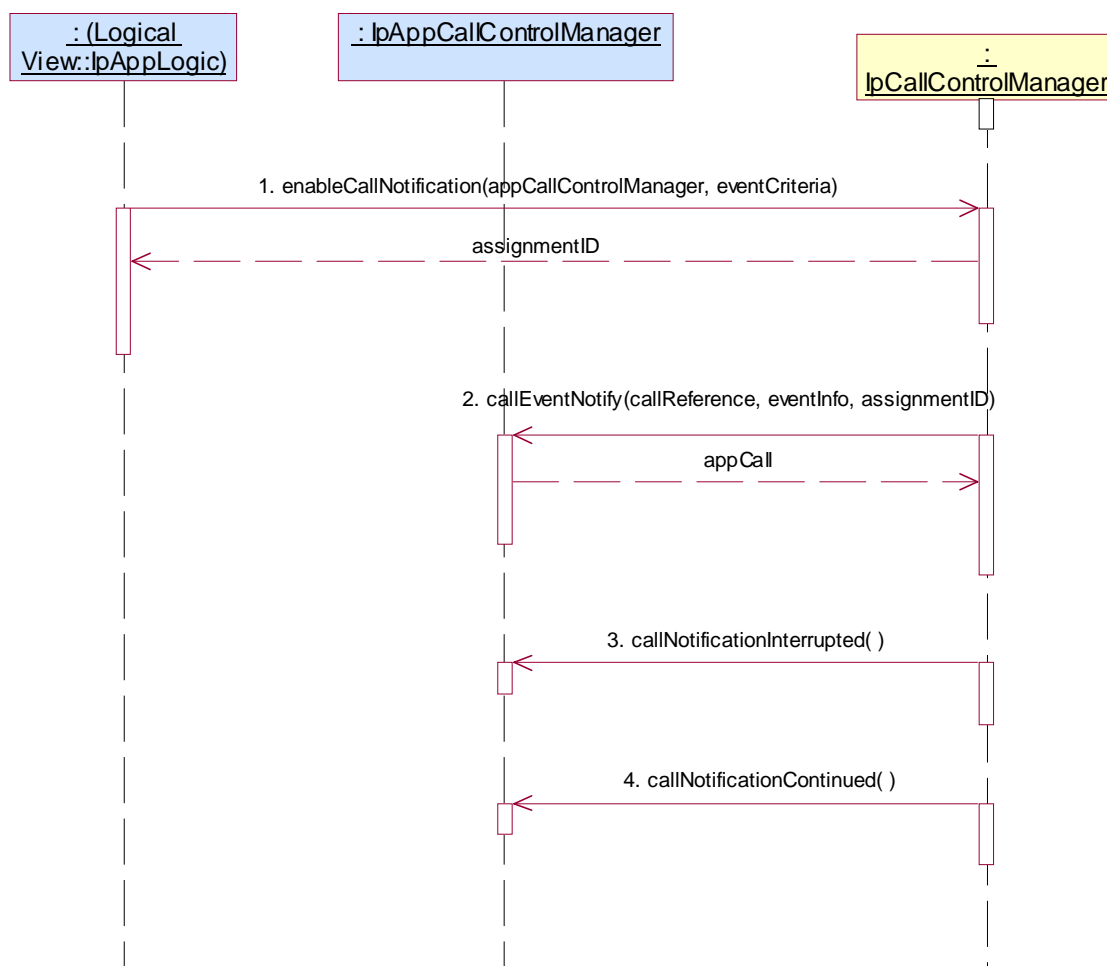
Summary: IpCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification method is supported.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
3. Triggered action: cause IUT to call **callNotificationInterrupted()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: None
4. Triggered action: cause IUT to call **callNotificationContinue()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: None



Test GCC_IPCALLCONTROLMANAGER_12

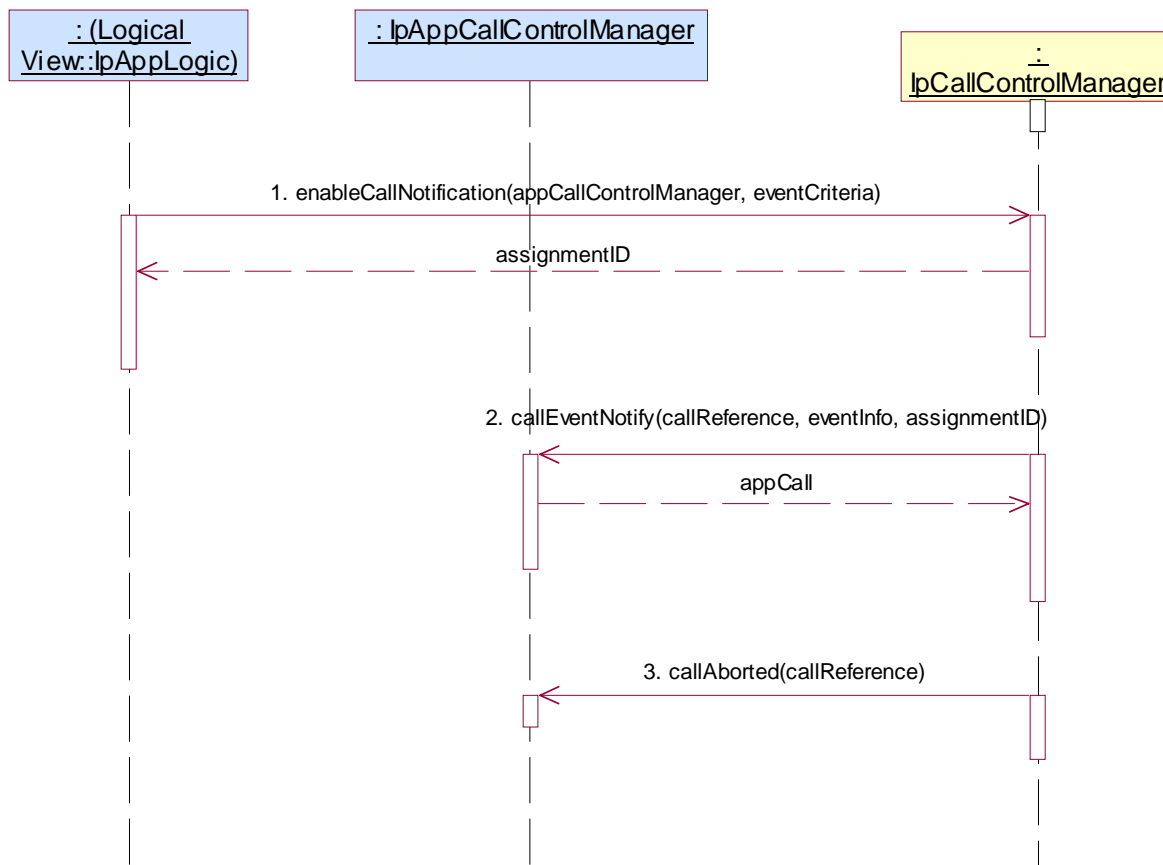
Summary: IpCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification and callAborted methods are supported.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
3. Triggered action: cause IUT to call **callAborted()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid assignmentID as reported in callEventNotify.



5.2.1.1.4 Optional, invalid behaviour

Test GCC_IPCALLCONTROLMANAGER_13

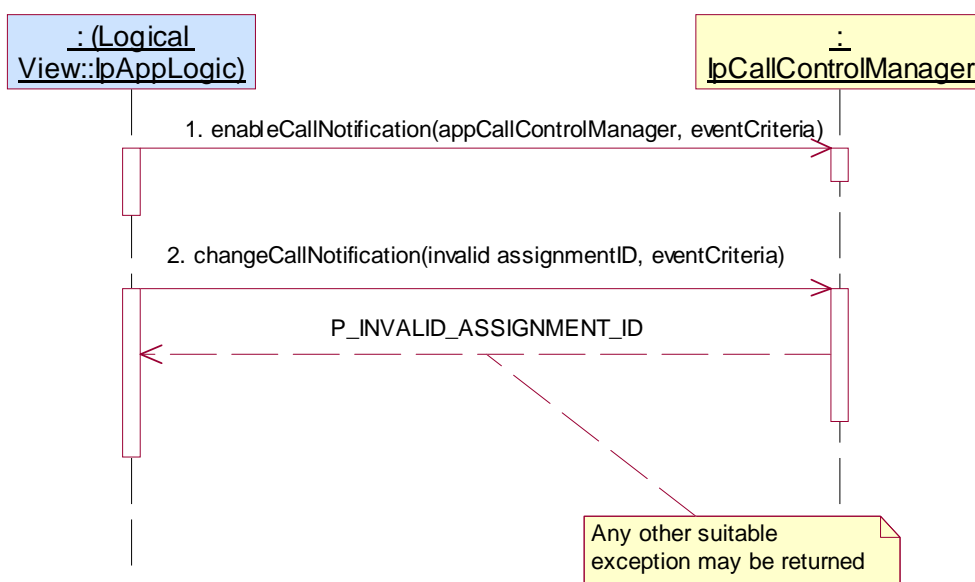
Summary: IpCallControlManager, changeCallNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: changeCallNotification is supported.

Test Sequence:

1. Method call **enableCallNotification()**
 Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
 Check: valid value of TpAssignmentID is returned
2. Method call **changeCallNotification()**
 Parameters: invalid assignmentID, valid eventCriteria
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned



Test GCC_IPCALLCONTROLMANAGER_14

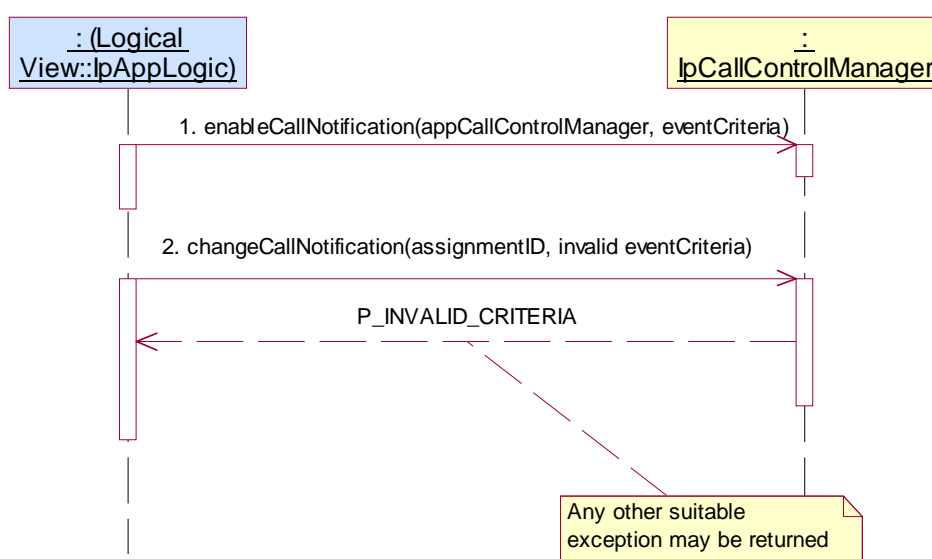
Summary: IpCallControlManager, changeCallNotification, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification and changeCallNotification methods are supported.

Test Sequence:

1. Method call **enableCallNotification()**
 Parameters: appCallControlManager with null value, valid eventCriteria
 Check: valid value of TpAssignmentID is returned
2. Method call **changeCallNotification()**
 Parameters: assignmentID returned in 1., invalid eventCriteria
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test GCC_IPCALLCONTROLMANAGER_15

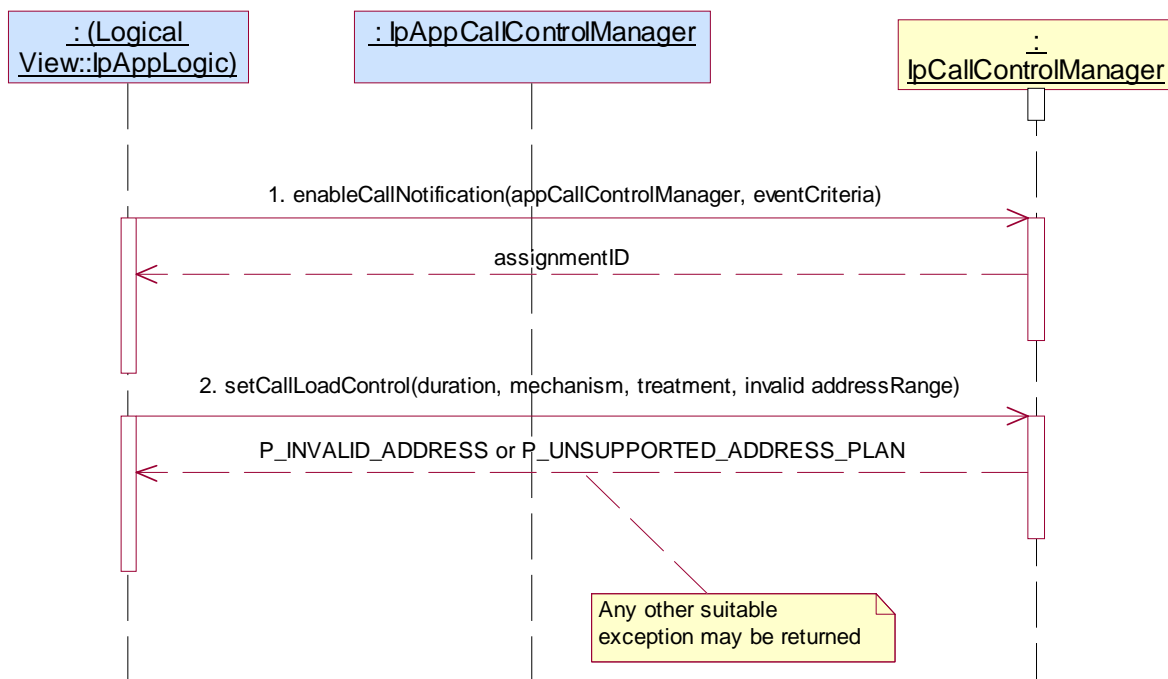
Summary: IpCallControlManager, setCallLoadControl, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clause 6.3.1

Condition: enableCallNotification and setCallLoadControl method are supported.

Test Sequence:

1. Method call **enableCallNotification()**
 Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
 Check: valid value of TpAssignmentID is returned
2. Method call **setCallLoadControl()**
 Parameters: valid duration, valid mechanism, valid treatment, invalid addressRange
 Check: P_INVALID_ADDRESS, P_UNsupported_ADDRESS_PLAN or another suitable exception, is returned



5.2.1.2 IpCall

5.2.1.2.1 Mandatory, valid behaviour

Test GCC_IPCALL_01

Summary: IpCall, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

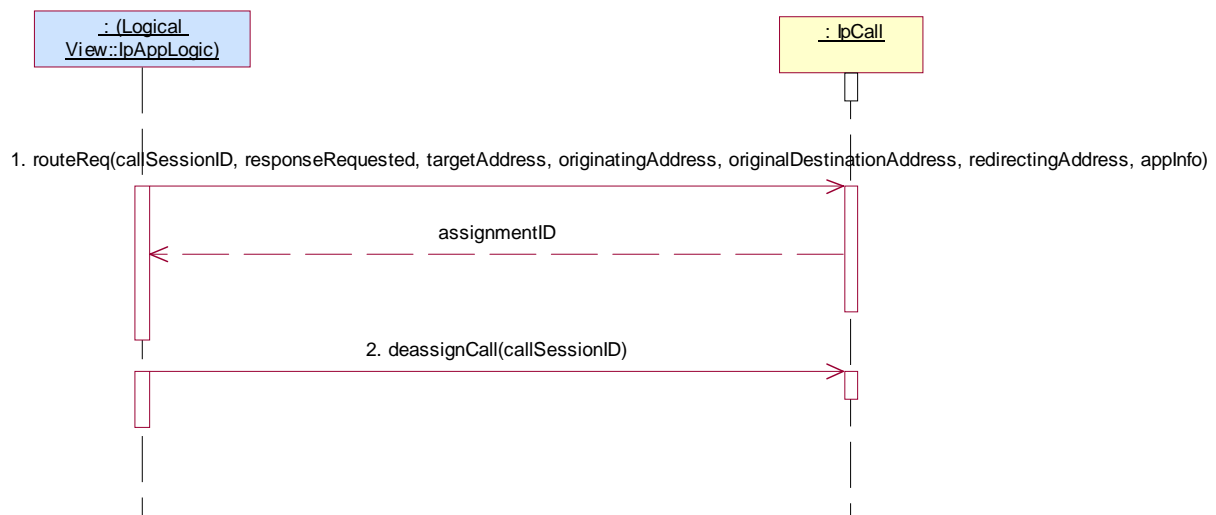
1. Method call **setCallback()** on IpCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpCallIdentifier is returned

or

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid callReference, valid eventInfo, assignmentID returned in 1.

Test Sequence:

1. Method call **routeReq()**
Parameters: valid callSessionID reported in preamble, valid responseRequested, valid targetAddress, valid originatingAddress, valid originalDestinationAddress, valid redirectingAddress, valid appInfo
Check: Valid value of TpSessionID is returned
2. Method call **deassignCall()**
Parameters: valid callSessionID reported in preamble.
Check: no exception is returned



Test GCC_IPCALL_02

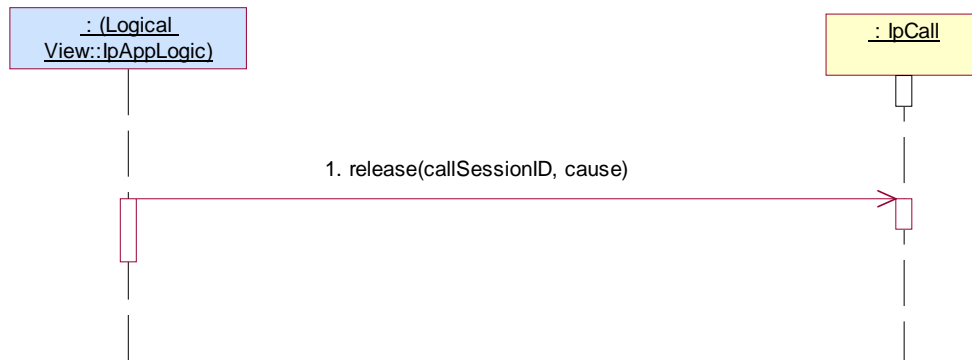
Summary: IpCall, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **release()**
Parameters: valid callSessionID reported in preamble.
Check: no exception is returned

**5.2.1.2.2 Mandatory, invalid behaviour****Test GCC_IPCALL_03**

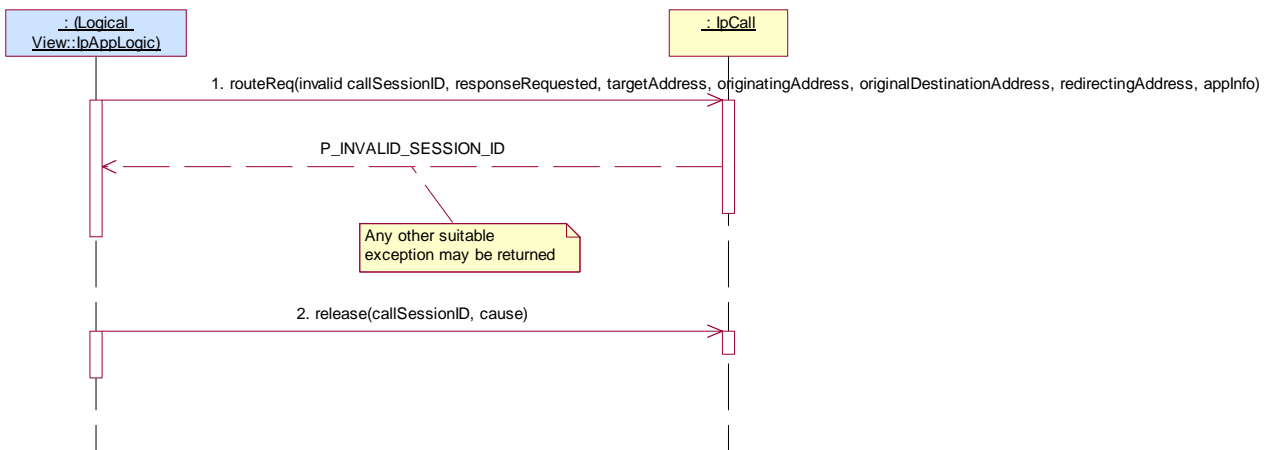
Summary: IpCall, routeReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 6.3.3

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **routeReq()**
Parameters: invalid callSessionID, valid responseRequested, valid targetAddress, valid originatingAddress, valid originalDestinationAddress, valid redirectingAddress, valid appInfo
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
2. Method call **release()**
Parameters: valid callSessionID reported in preamble.
Check: no exception is returned



Test GCC_IPCALL_04

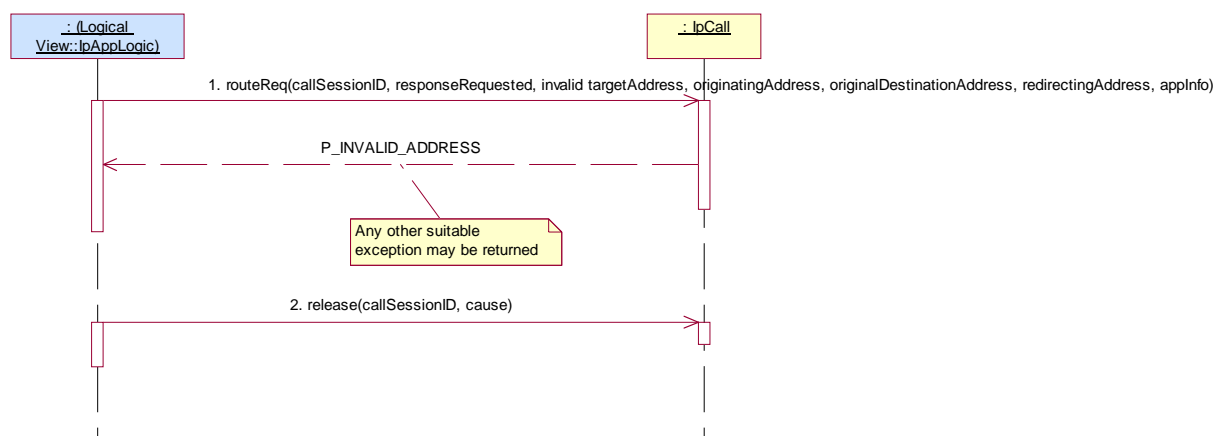
Summary: IpCall, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **routeReq()**
 Parameters: valid callSessionID reported in preamble, valid responseRequested, invalid targetAddress, valid originatingAddress, valid originalDestinationAddress or null value, valid redirectingAddress or null value, valid appInfo
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



Test GCC_IPCALL_05

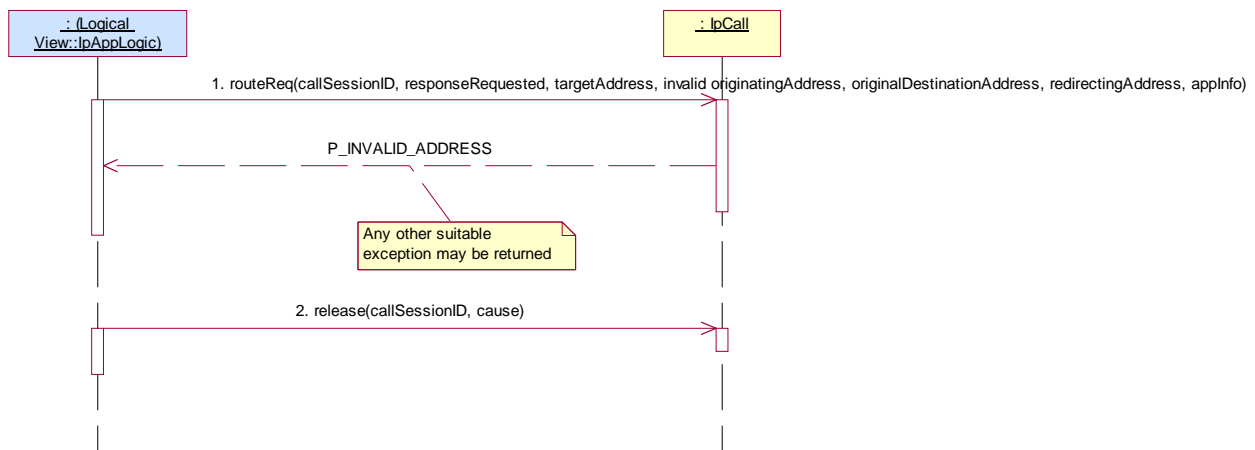
Summary: IpCall, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **routeReq()**
 Parameters: valid callSessionID reported in preamble, valid responseRequested, valid targetAddress, invalid originatingAddress, valid originalDestinationAddress or null value, valid redirectingAddress or null value, valid appInfo
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



Test GCC_IPCALL_06

Summary: IpCall, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **routeReq()**

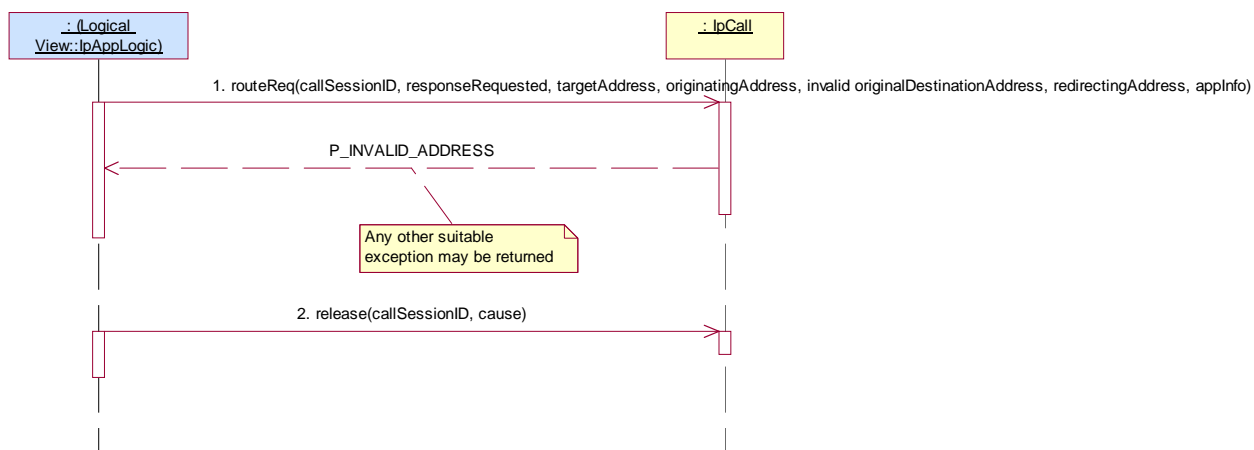
Parameters: valid callSessionID reported in preamble, valid responseRequested, valid targetAddress, valid originatingAddress, invalid originalDestinationAddress, valid redirectingAddress, valid appInfo

Check: P_INVALID_ADDRESS, or another suitable exception, is returned

2. Method call **release()**

Parameters: valid callSessionID reported in preamble.

Check: no exception is returned



Test GCC_IPCALL_07

Summary: IpCall, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **routeReq()**

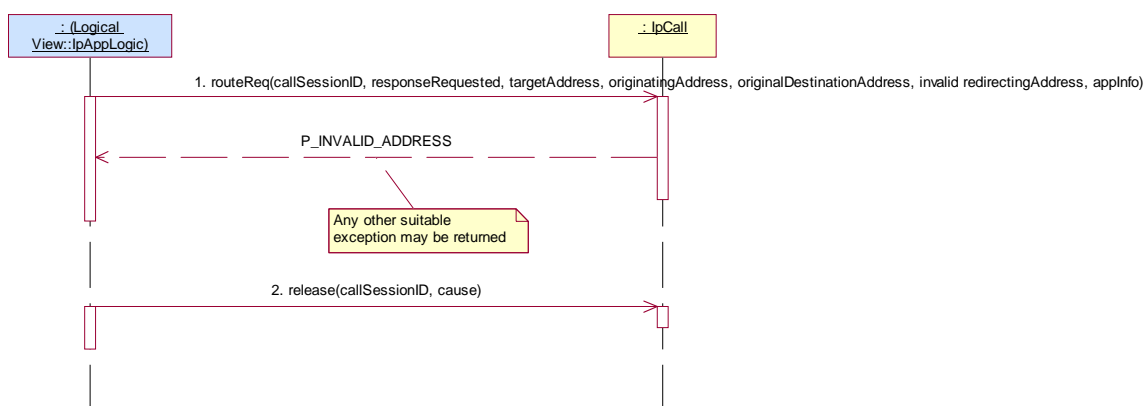
Parameters: valid callSessionID reported in preamble, valid responseRequested, valid targetAddress, valid originatingAddress, valid originalDestinationAddress, invalid redirectingAddress, valid appInfo

Check: P_INVALID_ADDRESS, or another suitable exception, is returned

2. Method call **release()**

Parameters: valid callSessionID reported in preamble.

Check: no exception is returned



Test GCC_IPCALL_08

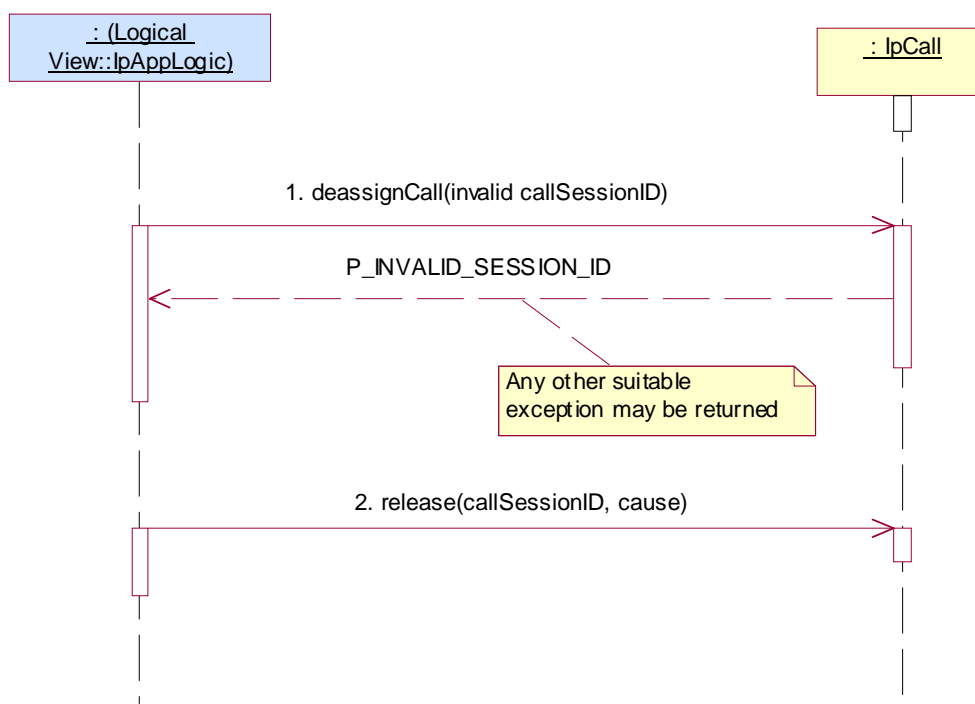
Summary: IpCall, deassignCall, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **deassignCall()**
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



Test GCC_IPCALL_09

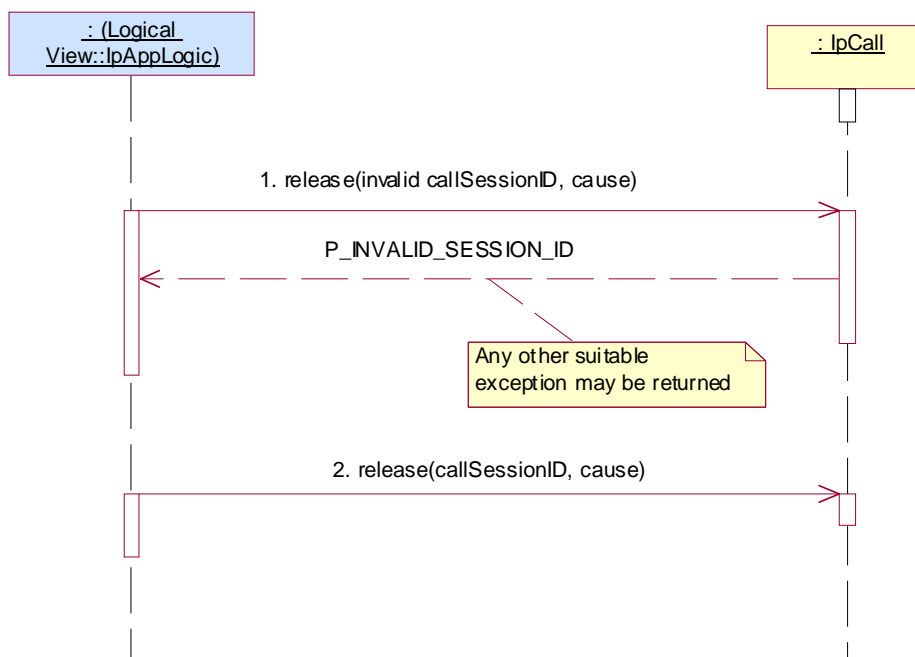
Summary: IpCall, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 6.3.3.

Preamble: Same as GCC_IPCALL_01

Test Sequence:

1. Method call **release()**
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



5.2.1.2.3 Optional, valid behaviour

Test GCC_IPCALL_10

Summary: IpCall, getCallInfoReq, successful

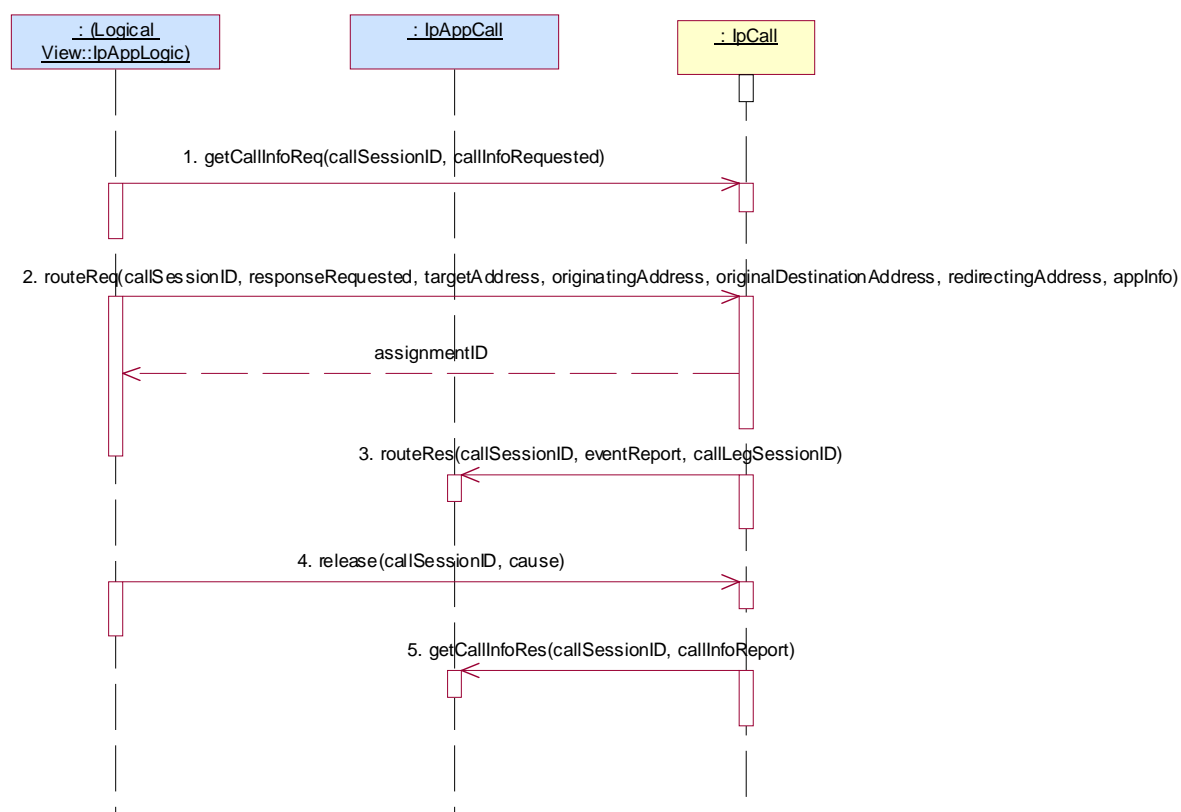
Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: getCallInfoReq method is supported.

Test Sequence:

1. Method call **getCallInfoReq()**
Parameters: valid callSessionID reported in preamble, valid callInfoRequested
Check: no exception is returned
2. Method call **routeReq()**
Parameters: valid callSessionID reported in preamble, valid responseRequested, valid targetAddress, valid originatingAddress, valid originalDestinationAddress, valid redirectingAddress, valid appInfo
Check: Valid value of TpSessionID is returned
3. Triggered action: cause IUT to call **routeRes()** method on tester's (Application) **IpAppCall** interface.
Parameters: callSessionID given in 1, valid eventReport, valid callLegSessionID.
4. Method call **release()**
Parameters: valid callSessionID reported in preamble.
Check: no exception is returned
5. Triggered action: cause IUT to call **getCallInfoRes()** method on the tester's (Application) **IpAppCall** interface.
Parameters: callSessionID given in preamble, valid callInfoReport.



Test GCC_IPCALL_11

Summary: IpCall, setCallChargePlan, successful

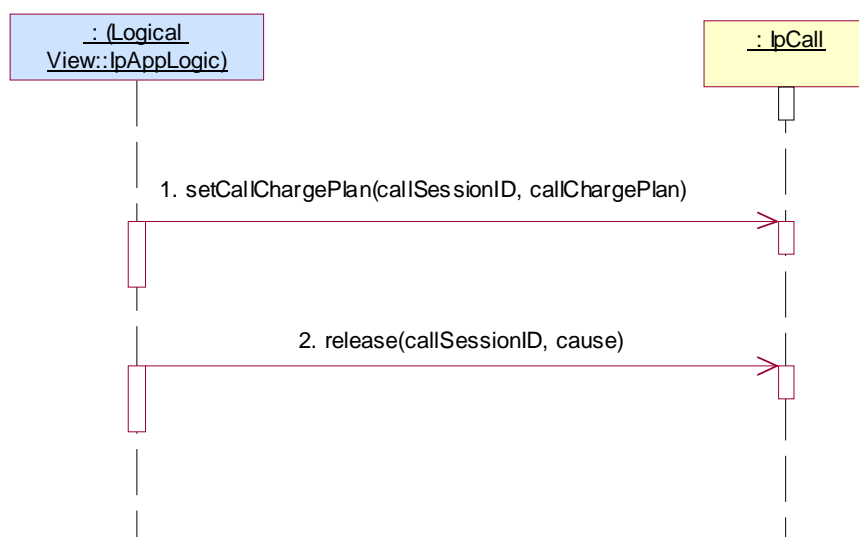
Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: setCallChargePlan method is supported.

Test Sequence:

1. Method call **setCallChargePlan()**
Parameters: valid callSessionID reported in preamble, valid callChargePlan
Check: no exception is returned
2. Method call **release()**
Parameters: valid callSessionID reported in preamble
Check: no exception is returned



Test GCC_IPCALL_12

Summary: IpCall, setAdviceOfCharge, successful

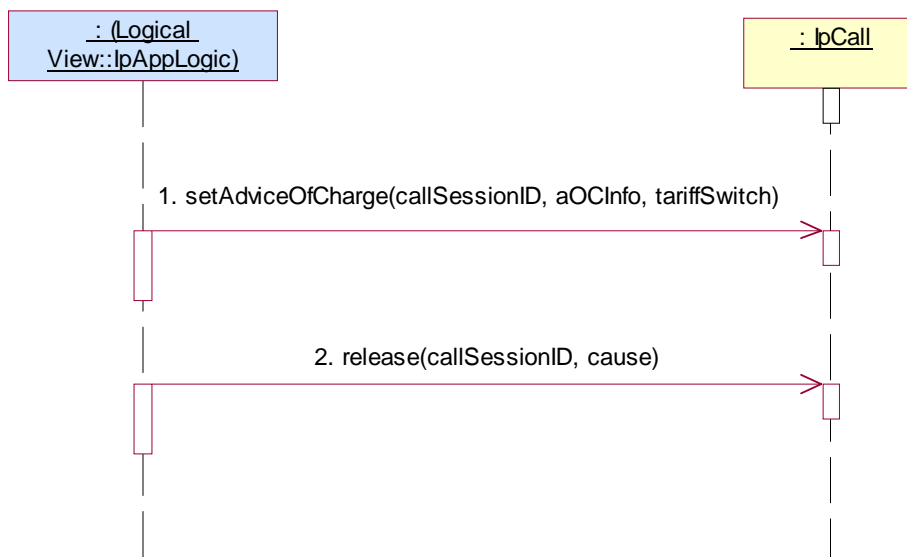
Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: setAdviceOfCharge method is supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
Parameters: valid callSessionID reported in preamble, valid aOCInfo, valid tariffSwitch
Check: no exception is returned
2. Method call **release()**
Parameters: valid callSessionID reported in preamble.
Check: no exception is returned



Test GCC_IPCALL_13

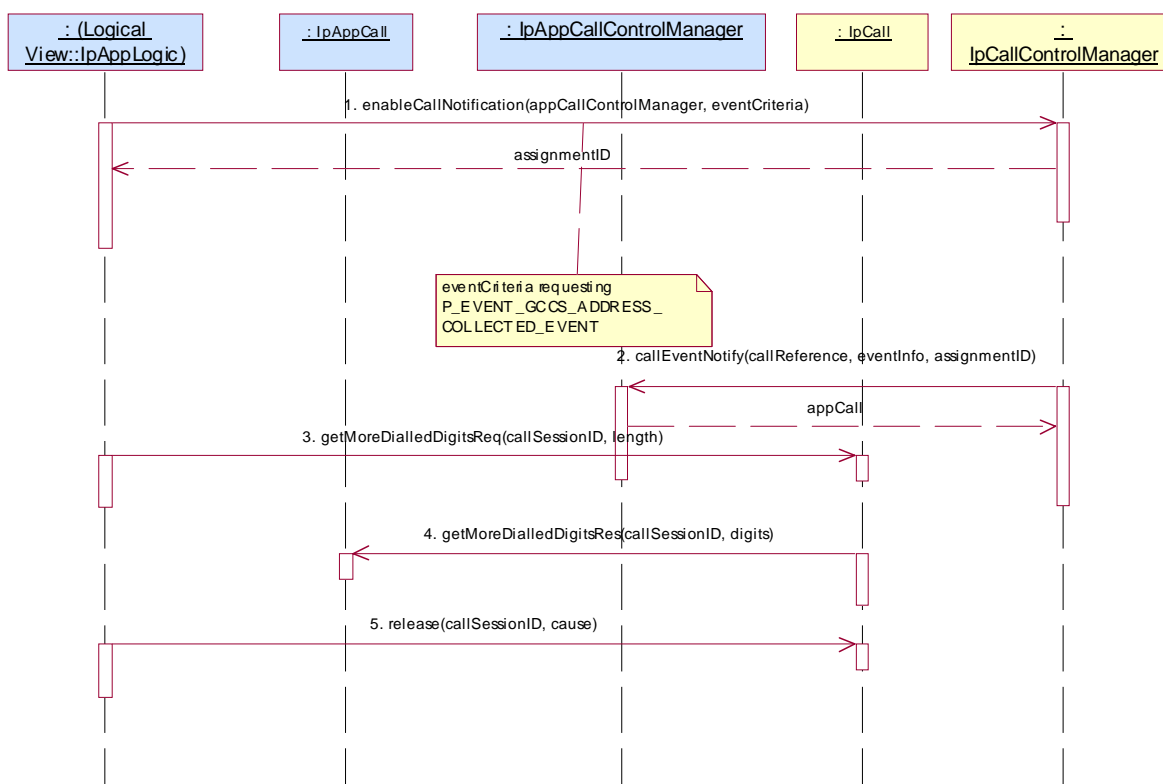
Summary: IpCall, getMoreDialledDigitsReq, successful

Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Condition: getMoreDialledDigitsReq method is supported.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria requesting P_EVENT_GCCS_ADDRESS_COLLECTED_EVENT.
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid callReference, valid eventInfo, assignmentID returned in 1.
3. Method call **getMoreDialledDigitsReq()**
Parameters: valid callSessionID reported in 2., valid length
Check: no exception is returned
4. Triggered action: cause IUT to call **getMoreDialledDigitsRes()** method on the tester's (Application) **IpAppCall** interface.
Parameters: callSessionID given in 2., valid digits
5. Method call **release()**
Parameters: valid callSessionID reported in 2.
Check: no exception is returned



Test GCC_IPCALL_14

Summary: IpCall, superviseCallReq, successful

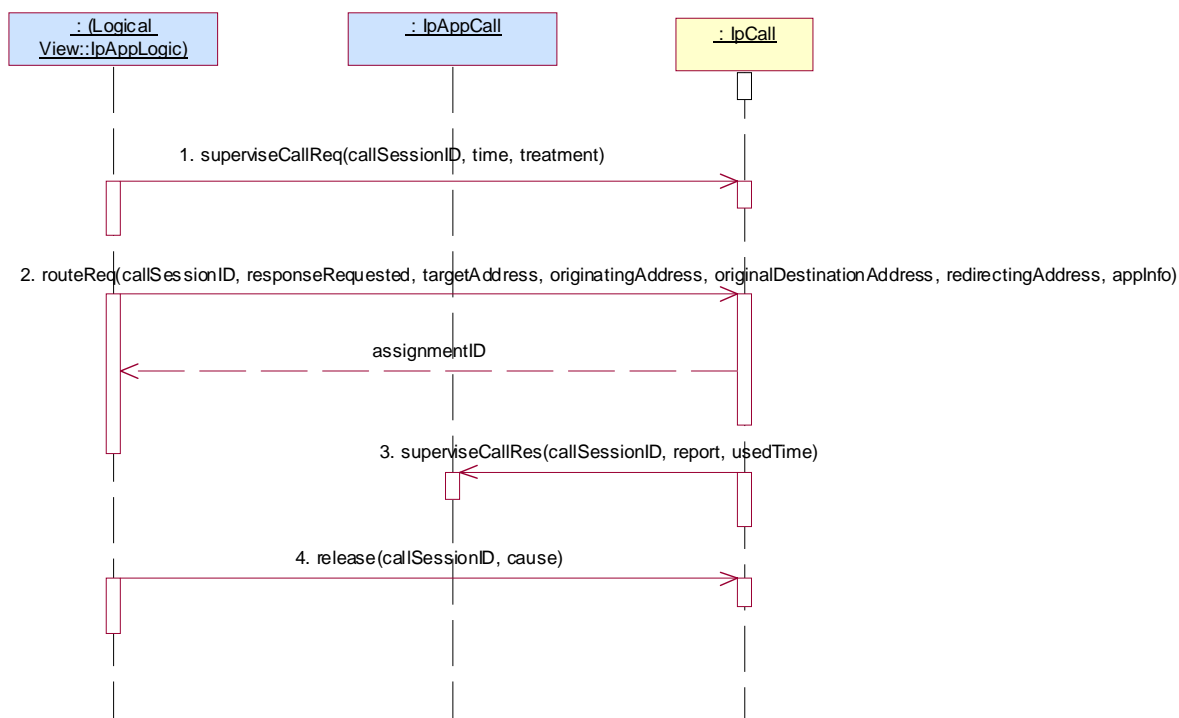
Reference: ES 201 915-4 [1], clauses 6.3.1 and 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: superviseCallReq method is supported.

Test Sequence:

1. Method call **superviseCallReq()**
Parameters: valid callSessionID reported in preamble, valid time, valid treatment
Check: no exception is returned
2. Method call **routeReq()**
Parameters: valid callSessionID reported in preamble, valid responseRequested, valid targetAddress, valid originatingAddress, valid originalDestinationAddress, valid redirectingAddress, valid appInfo
Check: Valid value of TpSessionID is returned
3. Triggered action: cause IUT to call **superviseCallRes()** method on the tester's (Application) **IpAppCall** interface.
Parameters: callSessionID given in 1., valid report, valid usedTime.
4. Method call **release()**
Parameters: valid callSessionID reported in preamble.
Check: no exception is returned



5.2.1.2.4 Optional, invalid behaviour

Test GCC_IPCALL_15

Summary: IpCall, getCallInfoReq, P_INVALID_SESSION_ID

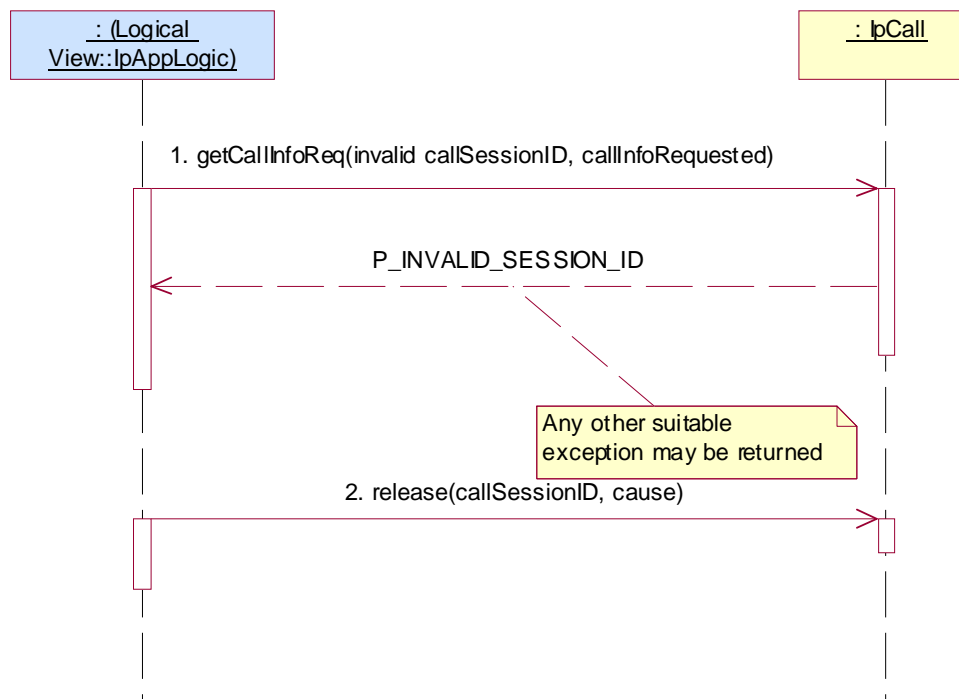
Reference: ES 201 915-4 [1], clause 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: getCallInfoReq is supported.

Test Sequence:

1. Method call **getCallInfoReq()**
 Parameters: invalid callSessionID, valid callInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, exception is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



Test GCC_IPCALL_16

Summary: IpCall, setCallChargePlan, P_INVALID_SESSION_ID

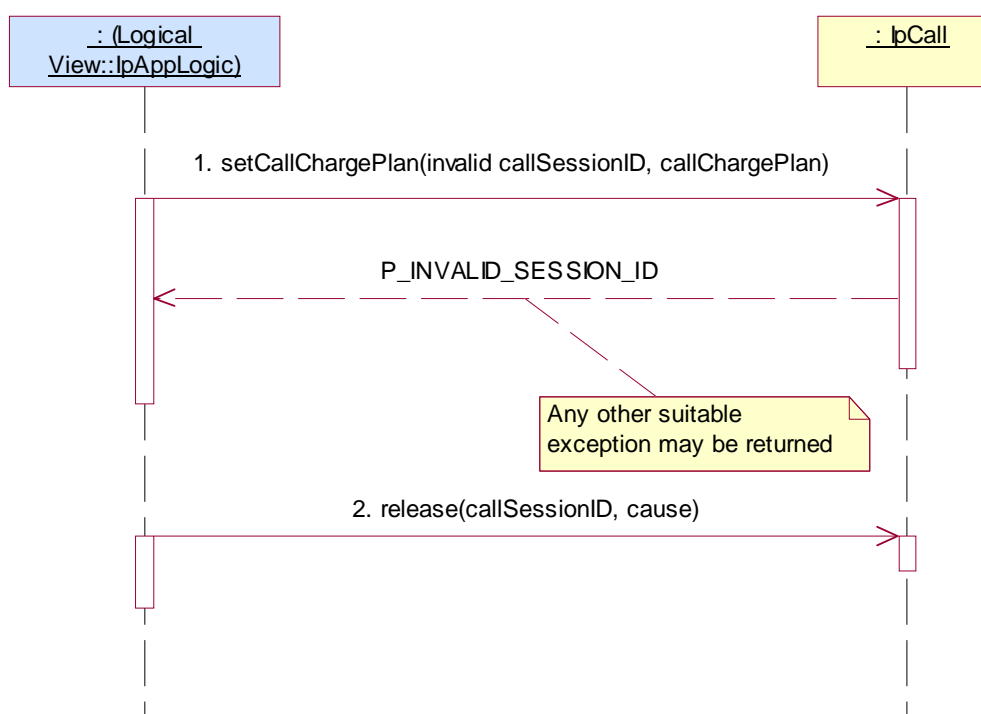
Reference: ES 201 915-4 [1], clause 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: setCallChargePlan is supported.

Test Sequence:

1. Method call **setCallChargePlan()**
 Parameters: invalid callSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, exception is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



Test GCC_IPCALL_17

Summary: IpCall, setAdviceOfCharge, P_INVALID_SESSION_ID

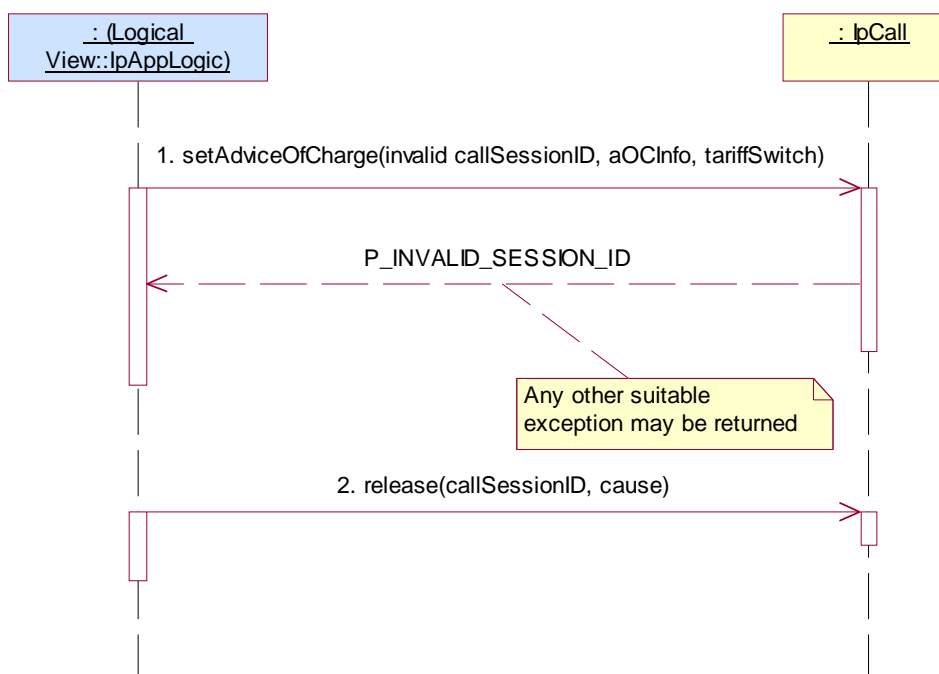
Reference: ES 201 915-4 [1], clause 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: setAdviceOfCharge is supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
 Parameters: invalid callSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



Test GCC_IPCALL_18

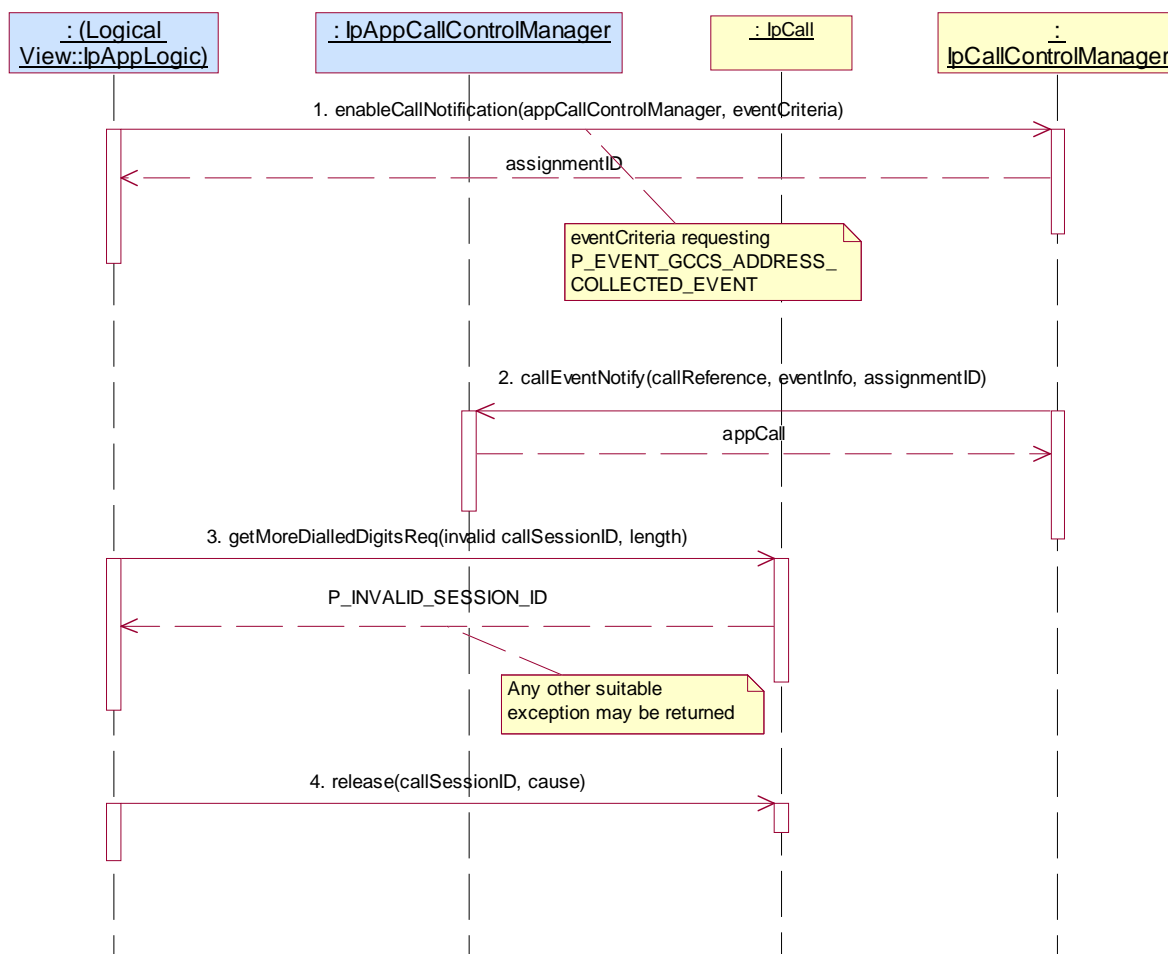
Summary: IpCall, getMoreDialledDigitsReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 6.3.3.

Condition: getMoreDialledDigitsReq is supported.

Test Sequence:

1. Method call **enableCallNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria requesting P_EVENT_GCCS_ADDRESS_COLLECTED_EVENT.
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **callEventNotify()** method on the tester's (Application) **IpAppCallControlManager** interface.
Parameters: valid callReference, valid eventInfo, assignmentID returned in 1.
3. Method call **getMoreDialledDigitsReq()**
Parameters: invalid callSessionID, valid length
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
4. Method call **release()**
Parameters: valid callSessionID reported in 2.
Check: no exception is returned



Test GCC_IPCALL_19

Summary: IpCall, superviseCallReq, P_INVALID_SESSION_ID

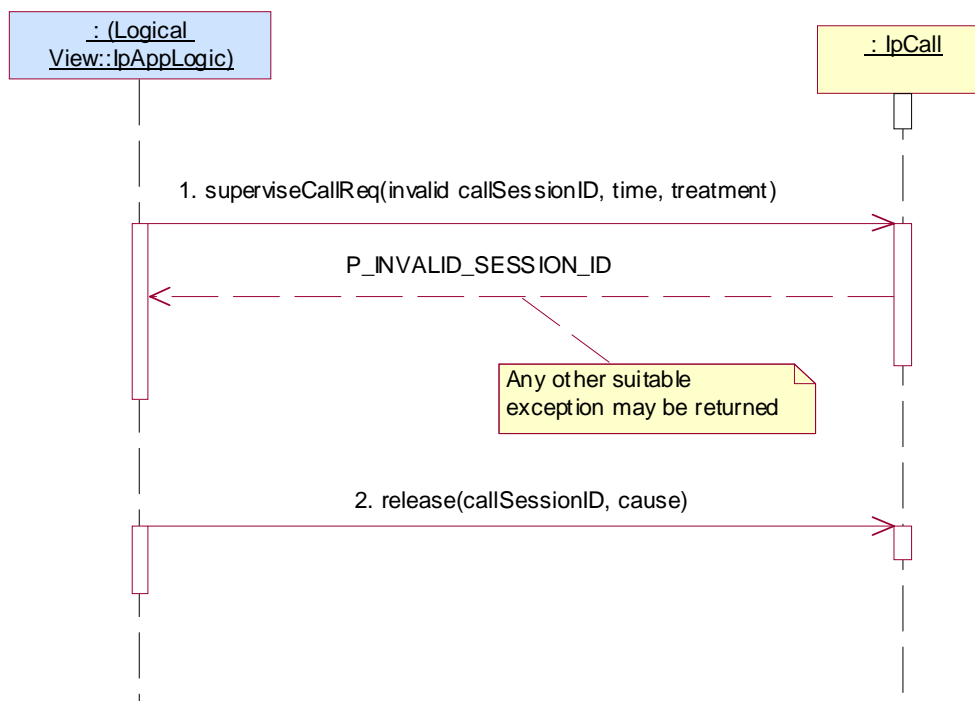
Reference: ES 201 915-4 [1], clause 6.3.3.

Preamble: Same as GCC_IPCALL_01

Condition: superviseCallReq is supported.

Test Sequence:

1. Method call **superviseCallReq()**
 Parameters: invalid callSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
2. Method call **release()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



5.2.2 MultiParty Call Control Service (MPCC)

5.2.2.1 IpMultiPartyCallControlManager

5.2.2.1.1 Mandatory, valid behaviour

Test MPCC_IpMultiPartyCallControlManager_01

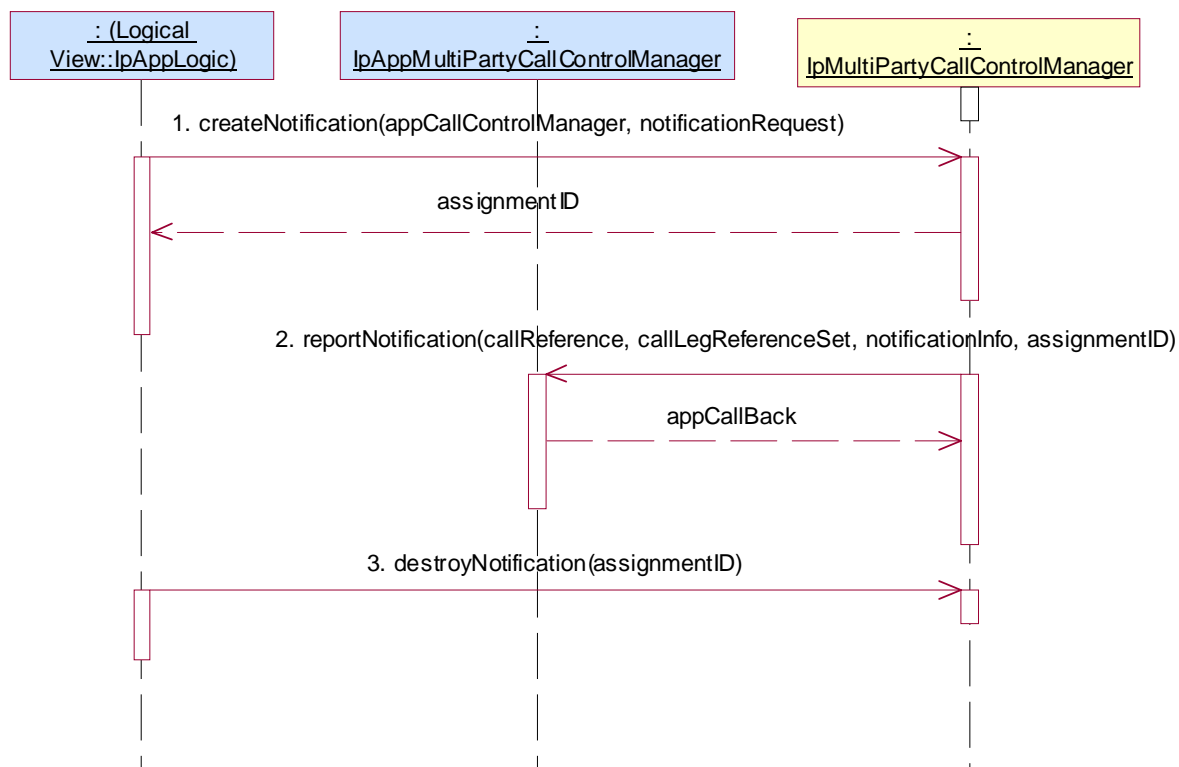
Summary: IpMultiPartyCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification method is supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiPartyCallControlManager** interface.
 Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **destroyNotification()**
 Parameters: assignmentID returned in 1
 Check: no exception is returned



Test MPCC_IpMultiPartyCallControlManager_02

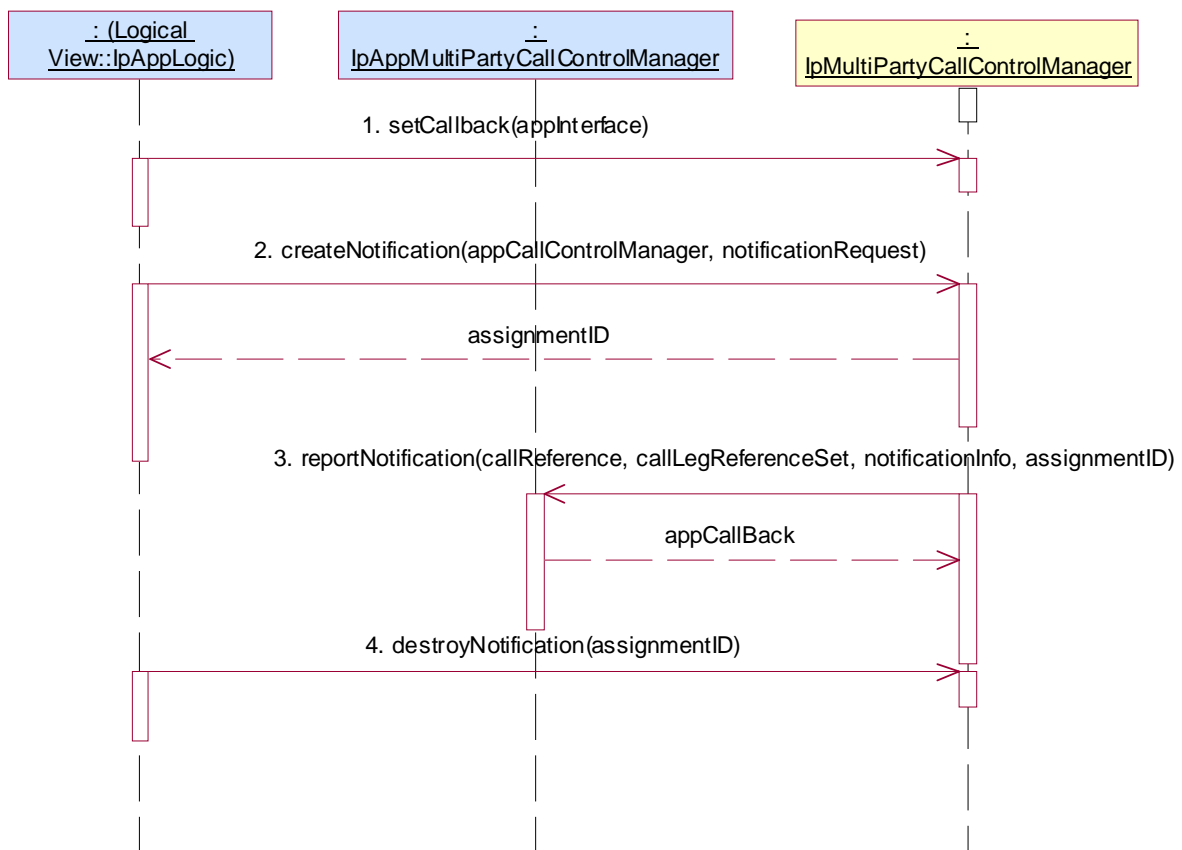
Summary: IpMultiPartyCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification method is supported.

Test Sequence:

1. Method call **setCallback()** on IpCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createNotification()**
Parameters: appCallControlManager with null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiPartyCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
4. Method call **destroyNotification()**
Parameters: assignmentID returned in 1.
Check: no exception is returned



Test MPCC_IpMultiPartyCallControlManager_03

Summary: IpMultiPartyCallControlManager, all mandatory methods, successful

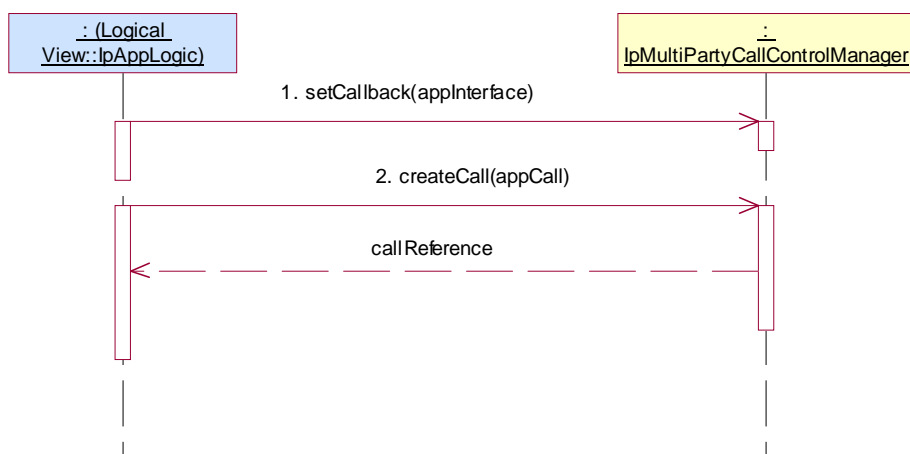
Reference: ES 201 915-4 [1], clause 7.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: createCall method is supported.

Test Sequence:

1. Method call **setCallback()** on IpMultiPartyCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned

**5.2.2.1.2 Mandatory, invalid behaviour****Test MPCC_IpMultiPartyCallControlManager_04**

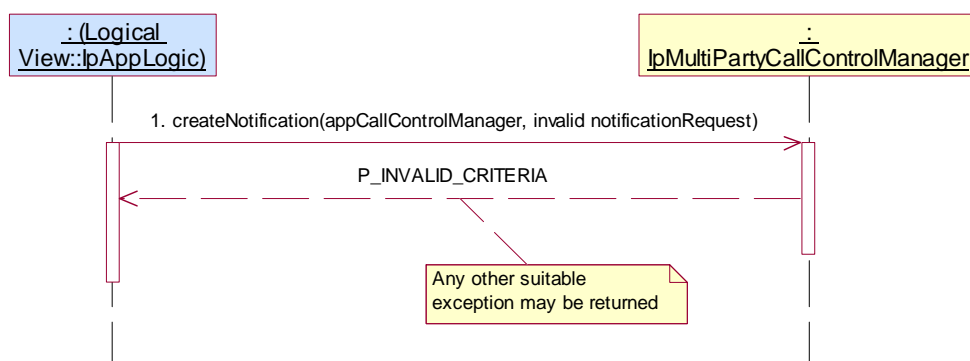
Summary: IpMultiPartyCallControlManager, createNotification, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification method is supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with null value, invalid notificationRequest
Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test MPCC_IpMultiPartyCallControlManager_05

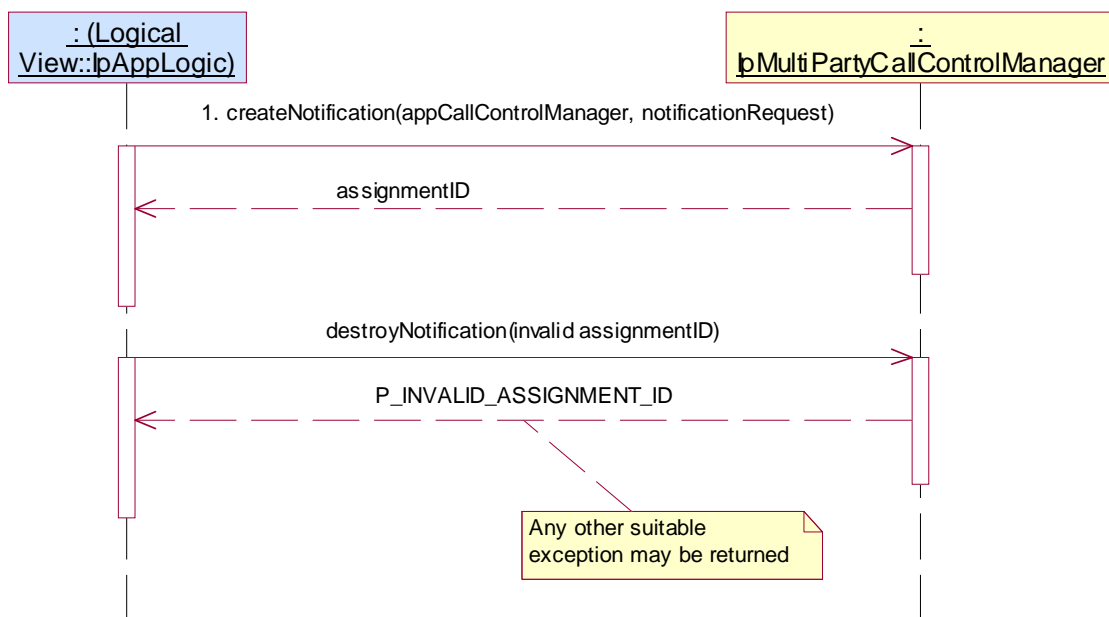
Summary: IpMultiPartyCallControlManager, destroyNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification and destroyNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with null value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **destroyNotification()**
 Parameters: INVALID assignmentID
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCallControlManager_06

Summary: IpMultiPartyCallControlManager, createCall, P_INVALID_INTERFACE_TYPE

Reference: ES 201 915-4 [1], clause 7.3.1

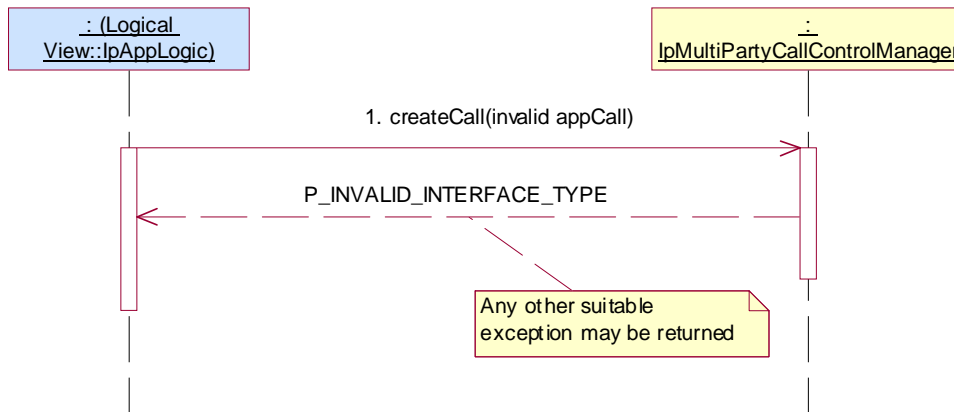
Condition: createCall method is supported.

Test Sequence:

1. Method call **createCall()**

Parameters: invalid value of appCall

Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



5.2.2.1.3 Optional, valid behaviour

Test MPCC_IpMultiPartyCallControlManager_07

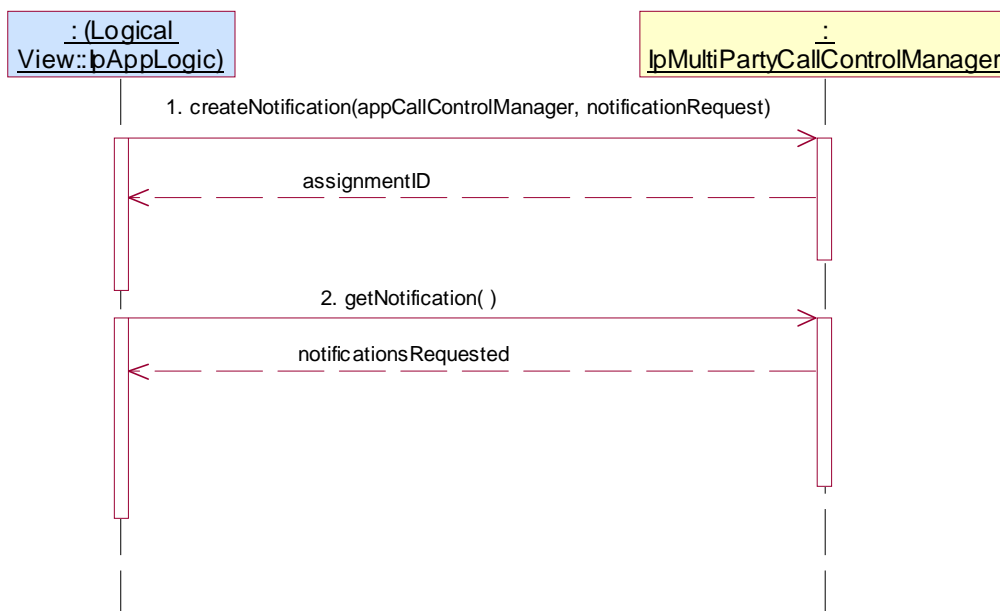
Summary: IpMultiPartyCallControlManager, getNotification, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: getNotification method is supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **getNotification()**
 Parameters: None
 Check: valid value of TpNotificationRequestedSet is returned where notificationRequest given in 1. is included as a value of this TpCallEventCriteriaResult



Test MPCC_ IpMultiPartyCallControlManager _08

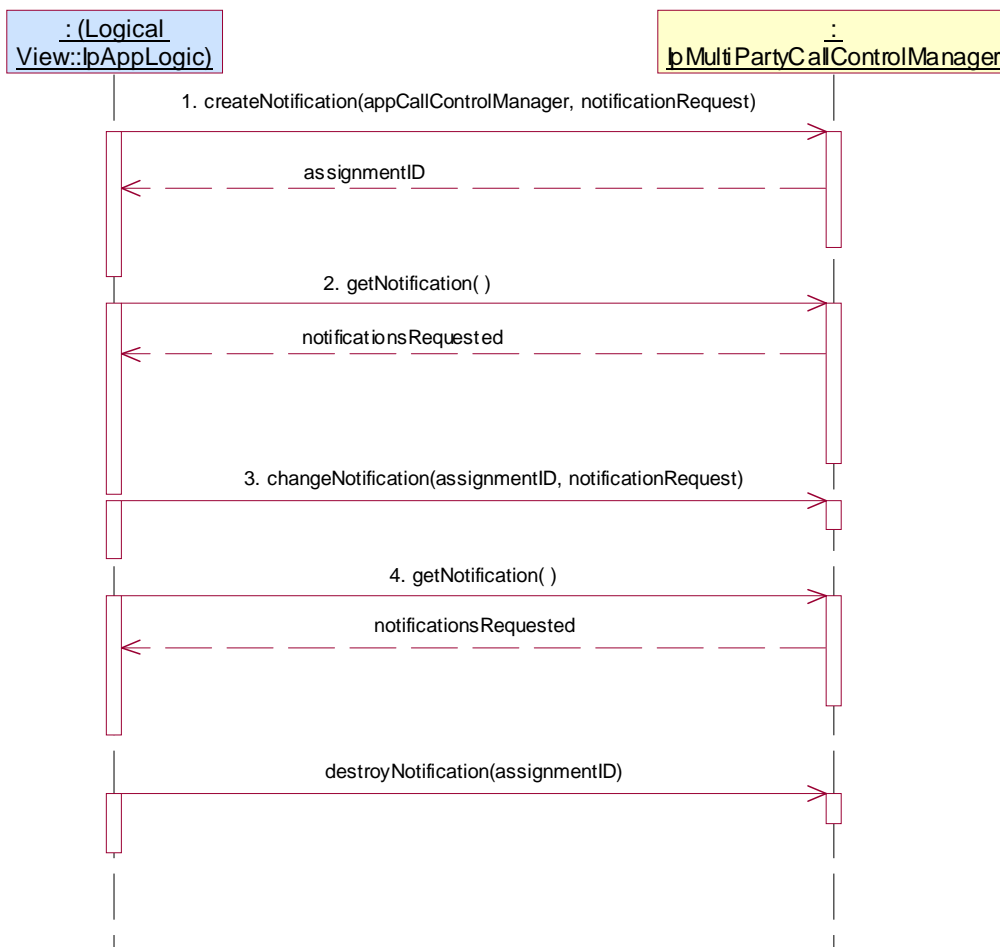
Summary: IpMultiPartyCallControlManager, changeNotification, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification, getNotification and changeNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Method call **getNotification()**
Parameters: None
Check: valid value of TpNotificationRequestedSet is returned where notificationRequest given in 1. is included as a value of this TpCallEventCriteriaResult
3. Method call **changeNotification()**
Parameters: assignmentID returned in 1., valid notificationRequest different from this given in 1.
Check: no exception is returned
4. Method call **getNotification()**
Parameters: None
Check: valid value of TpNotificationRequestedSet is returned where notificationRequest given in 1. is included as a value of this TpCallEventCriteriaResult
5. Method call **destroyNotification()**
Parameters: assignmentID returned in 1.
Check: no exception is returned



Test MPCC_IpMultiPartyCallControlManager_09

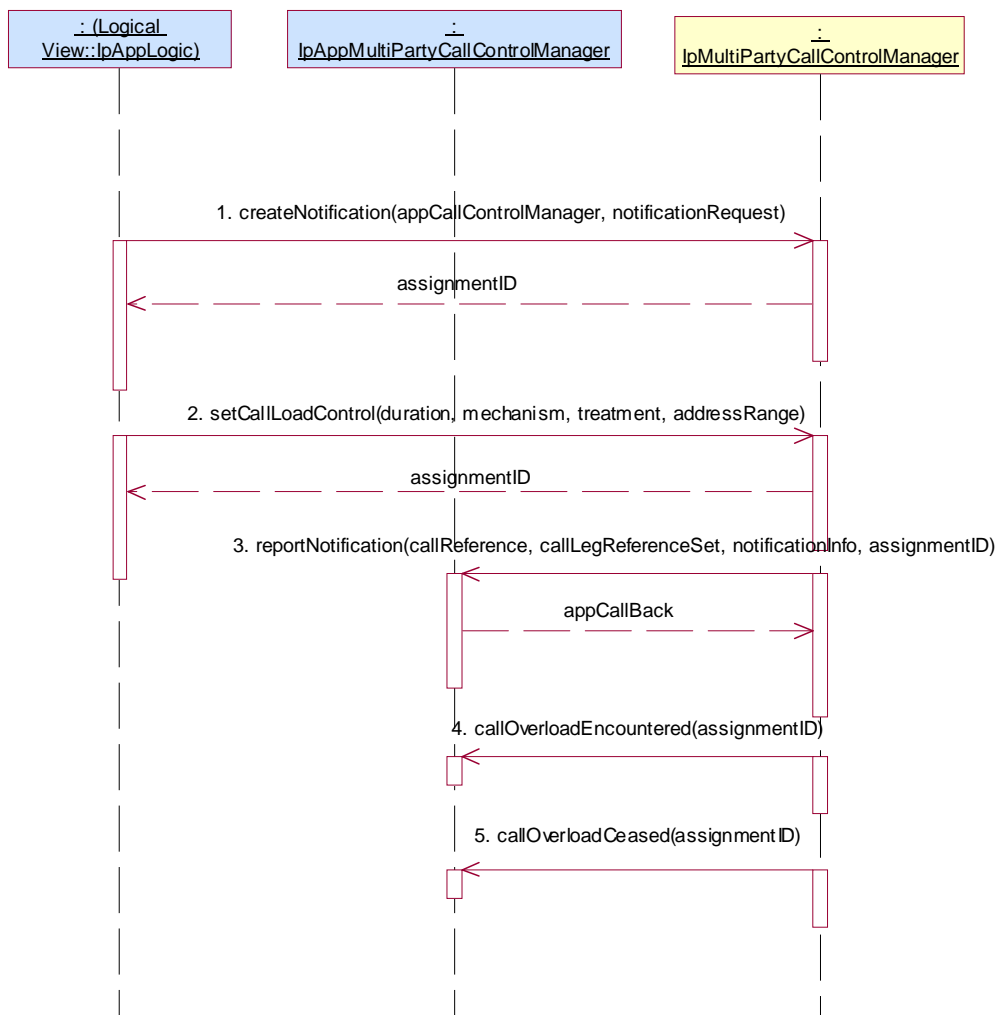
Summary: IpMultiPartyCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification, setCallLoadControl, callOverLoadEncountered and callOverLoadCeased methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationReques
Check: valid value of TpAssignmentID is returned
2. Method call **setCallLoadControl()**
Parameters: valid duration, valid mechanism, valid treatment, valid addressRange
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call reportNotification() numerous times during the following sequence, and attempt to provoke an overload condition and then remove it.
4. Triggered action: cause IUT to call **callOverLoadEncountered()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
Parameters: valid assignmentID
5. Triggered action: cause IUT to call **callOverLoadCeased()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
Parameters: valid assignmentID



Test MPCC_IpMultiPartyCallControlManager_10

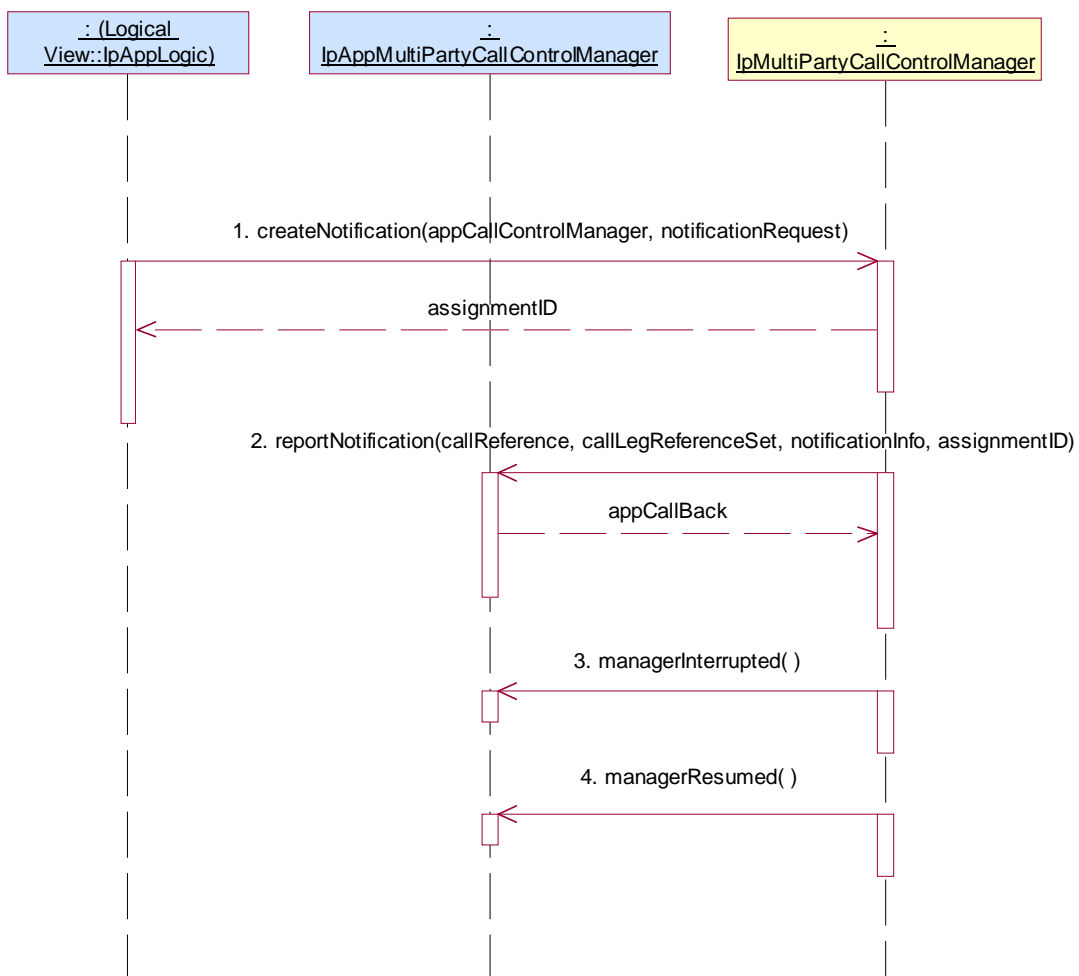
Summary: IpMultiPartyCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification, managerInterrupted methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **reportNotification()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
3. Triggered action: cause IUT to call **managerInterrupted()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
Parameters: None
4. Triggered action: cause IUT to call **managerResumed()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
Parameters: None



Test MPCC_IpMultiPartyCallControlManager_11

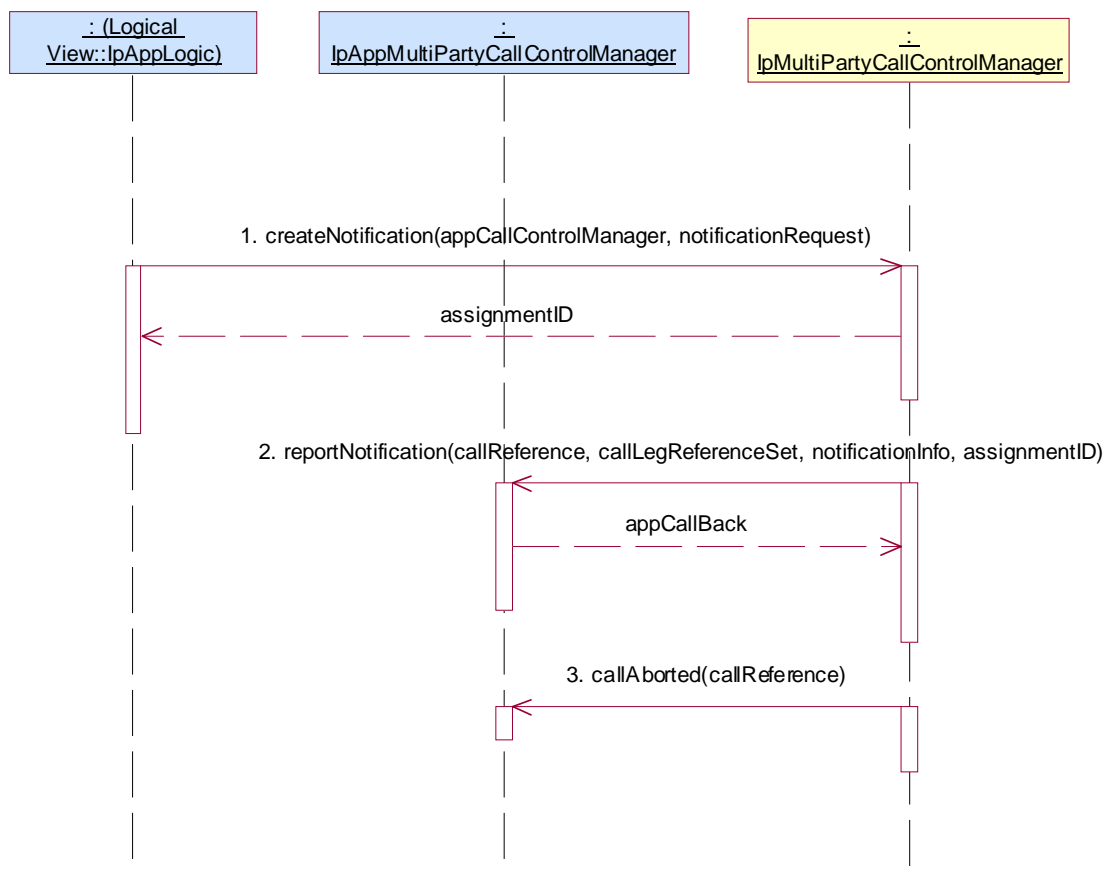
Summary: IpMultiPartyCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification and callAborted methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **reportNotification()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
3. Triggered action: cause IUT to call **callAborted()** method on the tester's (Application) **IpAppMultiPartyCallControlManager** interface.
Parameters: valid assignmentID as reported in reportNotification.



5.2.2.1.4 Optional, invalid behaviour

Test MPCC_IpMultiPartyCallControlManager_12

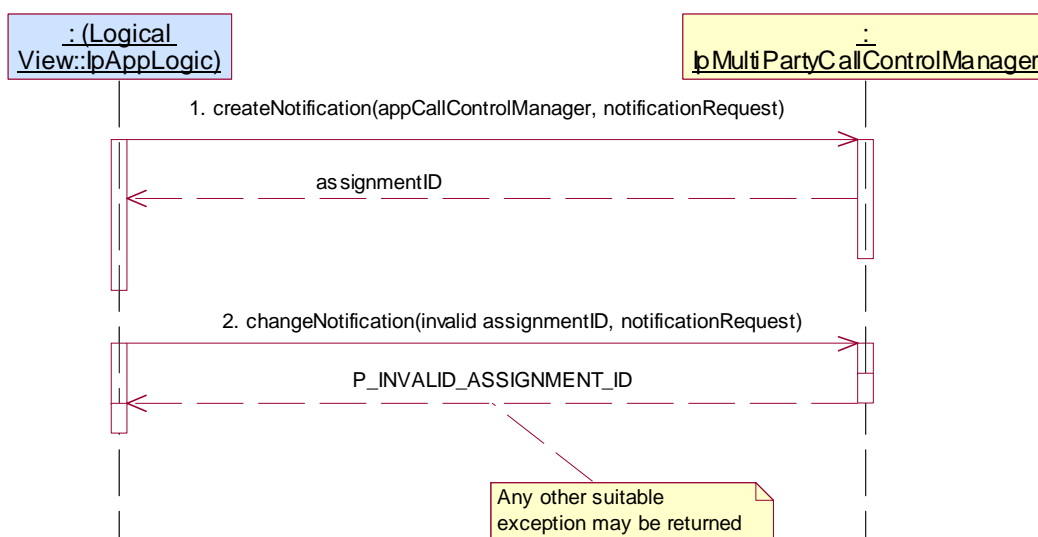
Summary: IpMultiPartyCallControlManager, changeNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification and changeNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **changeNotification()**
 Parameters: invalid assignmentID, valid notificationRequest
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCallControlManager_13

Summary: IpMultiPartyCallControlManager, changeNotification, P_INVALID_CRITERIA

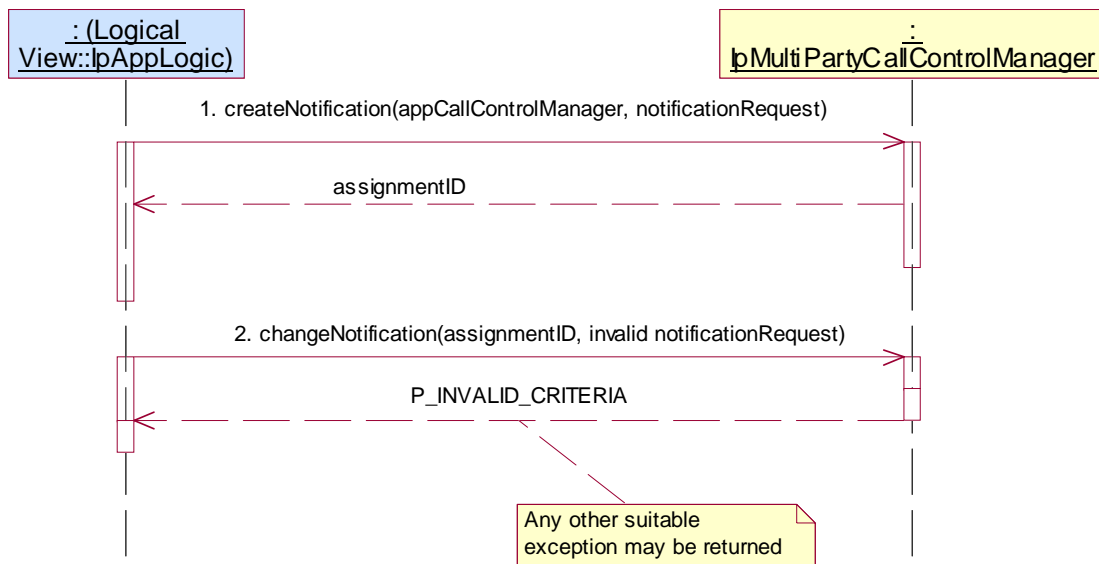
Reference: ES 201 915-4 [1], clause 7.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: createNotification and changeNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with null value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **changeNotification()**
 Parameters: assignmentID returned in 1., invalid notificationRequest
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test MPCC_IpMultiPartyCallControlManager_14

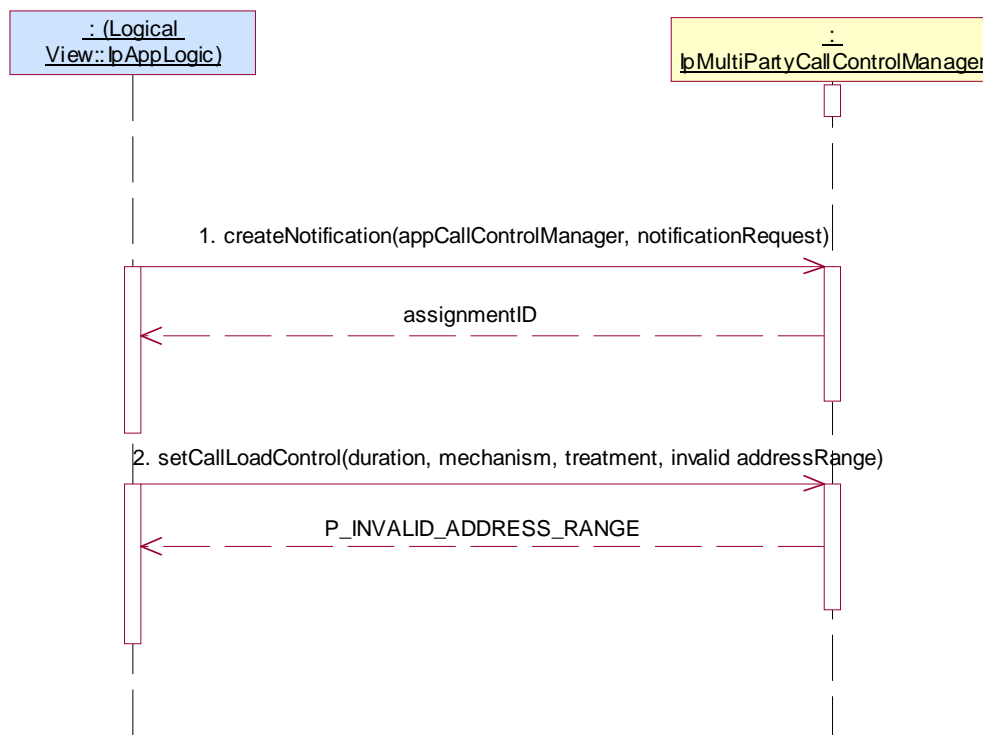
Summary: IpMultiPartyCallControlManager, setCallLoadControl, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification and setCallLoadControl methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **setCallLoadControl()**
 Parameters: valid duration, valid mechanism, valid treatment, invalid addressRange
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



5.2.2.2 IpMultiPartyCall

5.2.2.2.1 Mandatory, valid behaviour

Test MPCC_IpMultiPartyCall_01

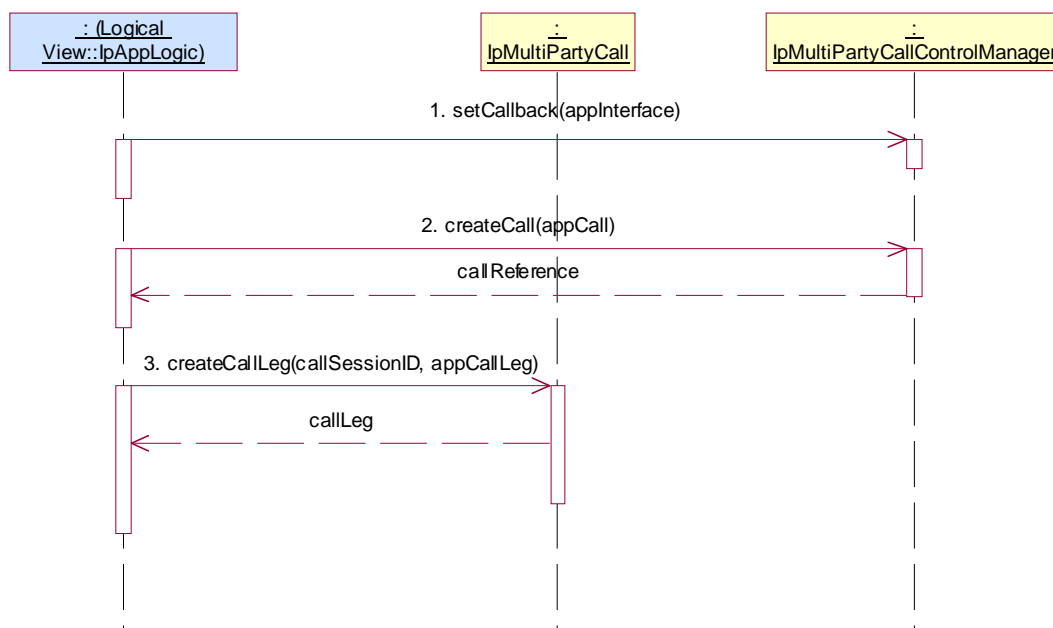
Summary: IpMultiPartyCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Condition: createCall and CreateCallLeg methods are supported.

Test sequence:

1. Method call **setCallback()** on IpMultiPartyCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned
3. Method call **createCallLeg()**
Parameters: valid callSessionID returned in 1., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned



Test MPCC_IpMultiPartyCall_02

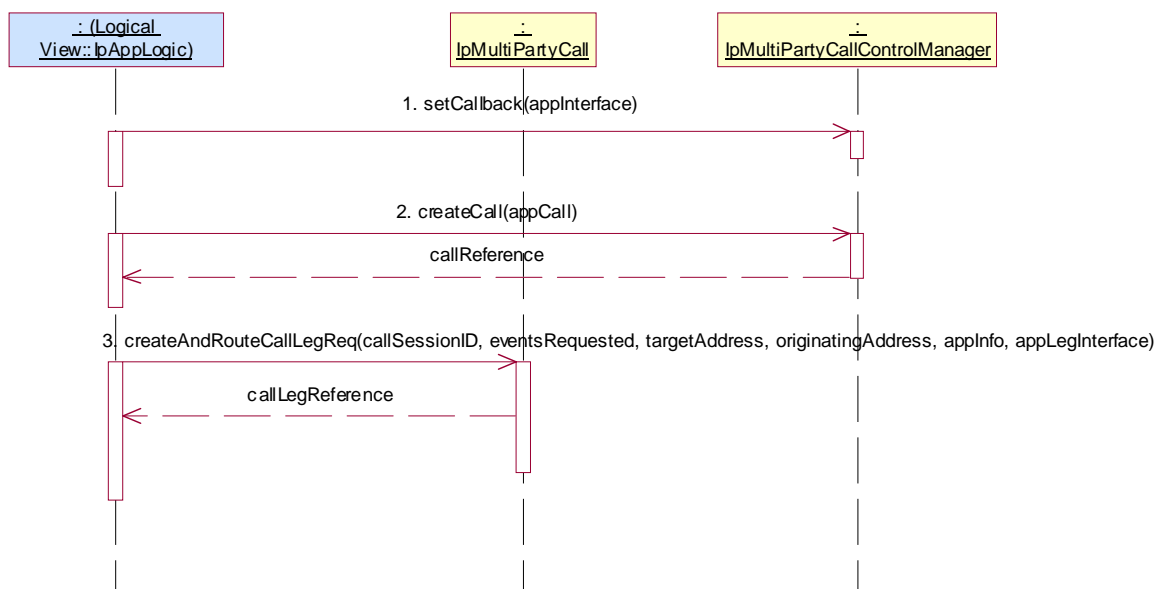
Summary: IpMultiPartyCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Condition: createCall and CreateAndRouteCallLeg methods are supported.

Test sequence:

1. Method call **setCallback()** on IpMultiPartyCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned
3. Method call **createAndRouteCallLegReq()**
Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier



Test MPCC_IpMultiPartyCall_03

Summary: IpMultiPartyCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

1. Method call **setCallback()** on IpMultiPartyCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned

either

3. Method call **createCallLeg()**
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()**
Parameters: valid callLegSessionID returned in 3, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()**
Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiPartyCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID

either

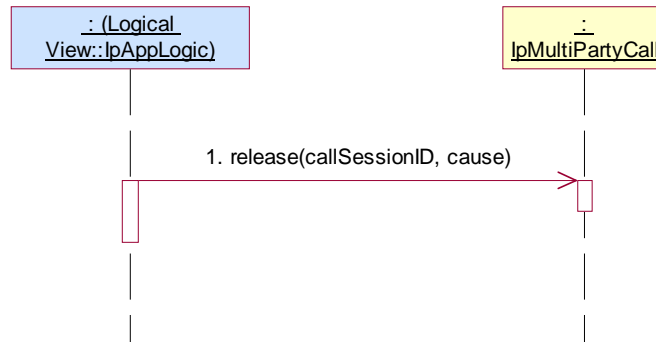
3. Method call **createCallLeg()**
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()**
Parameters: valid callLegSessionID returned in 3, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()**
Parameters: valid callSessionID reported in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

Test Sequence:

1. Method call **release()**
 Parameters: valid callSessionID reported in preamble, valid cause
 Check: no exception is returned



Test MPCC_ IpMultiPartyCall _04

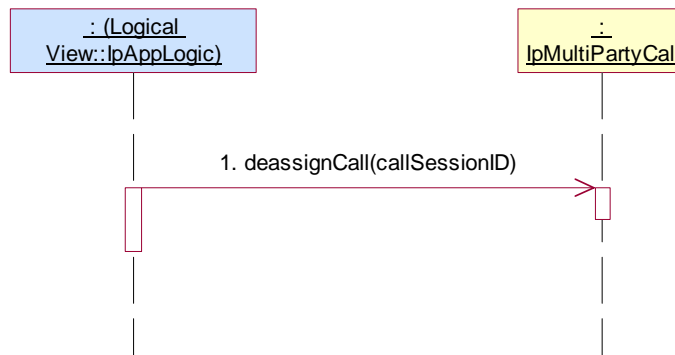
Summary: IpMultiPartyCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_ IpMultiPartyCall _03

Test Sequence:

1. Method call **deassignCall()**
 Parameters: valid callSessionID reported in preamble.
 Check: no exception is returned



5.2.2.2.2 Mandatory, invalid behaviour

Test MPCC_IpMultiPartyCall_05

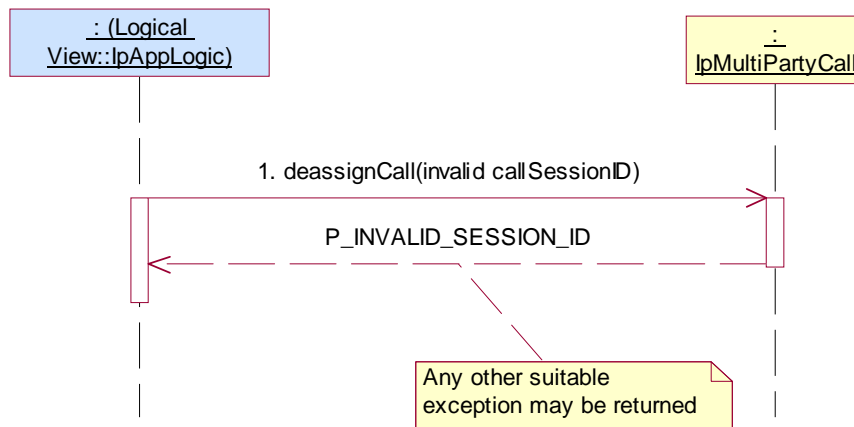
Summary: IpMultiPartyCall, deassignCall, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_03

Test Sequence:

- Method call **deassignCall()**
Parameters: invalid callSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_06

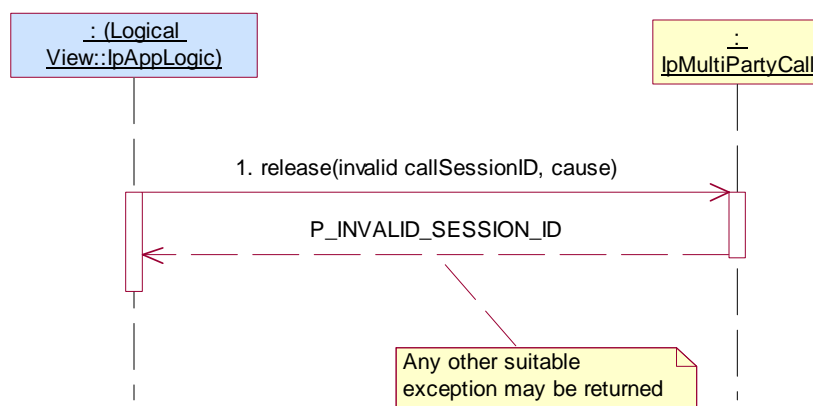
Summary: IpMultiPartyCall, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_03

Test Sequence:

- Method call **release()**
Parameters: invalid callSessionID, valid cause
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_07

Summary: IpMultiPartyCall, createCallLeg, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

1. Method call **setCallback()** on IpMultiPartyCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned

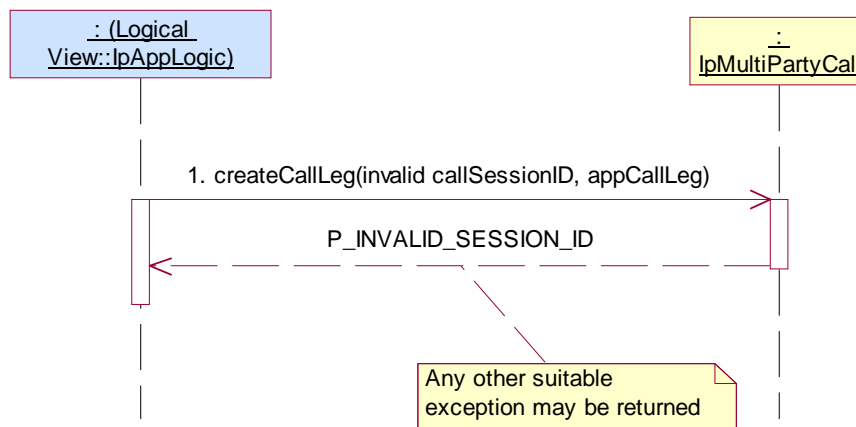
or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiPartyCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID

Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **createCallLeg()**
Parameters: invalid callSessionID, valid appCallLeg
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_08

Summary: IpMultiPartyCall, createCallLeg, P_INVALID_INTERFACE_TYPE

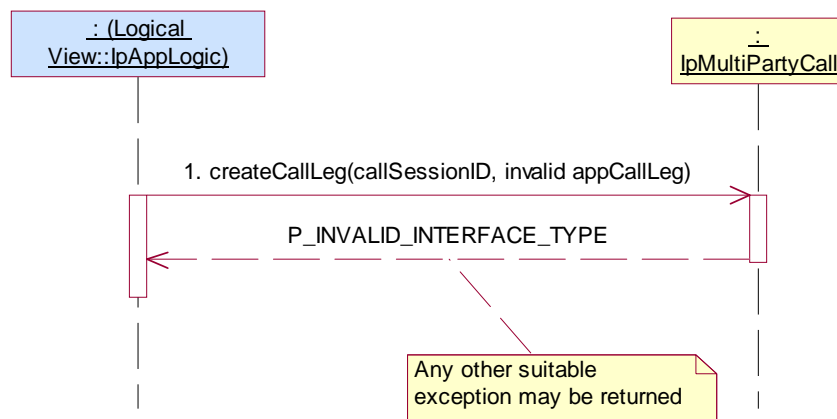
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createCallLeg method is supported.

Test Sequence:

- Method call **createCallLeg()**
 Parameters: valid callSessionID reported in preamble, invalid appCallLeg
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned

**Test MPCC_IpMultiPartyCall_09**

Summary: IpMultiPartyCall, createAndRouteCallLegReq, P_INVALID_SESSION_ID

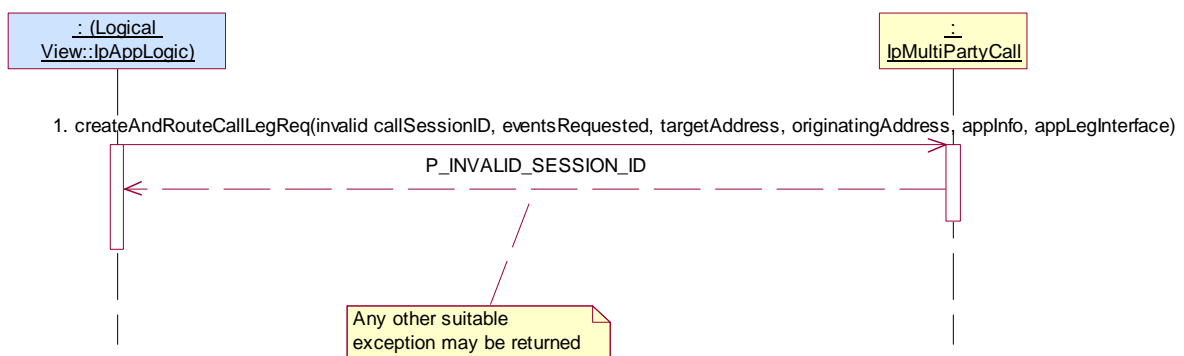
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createAndRouteCallLegReq method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()**
 Parameters: invalid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_10

Summary: IpMultiPartyCall, createAndRouteCallLegReq, P_INVALID_INTERFACE_TYPE

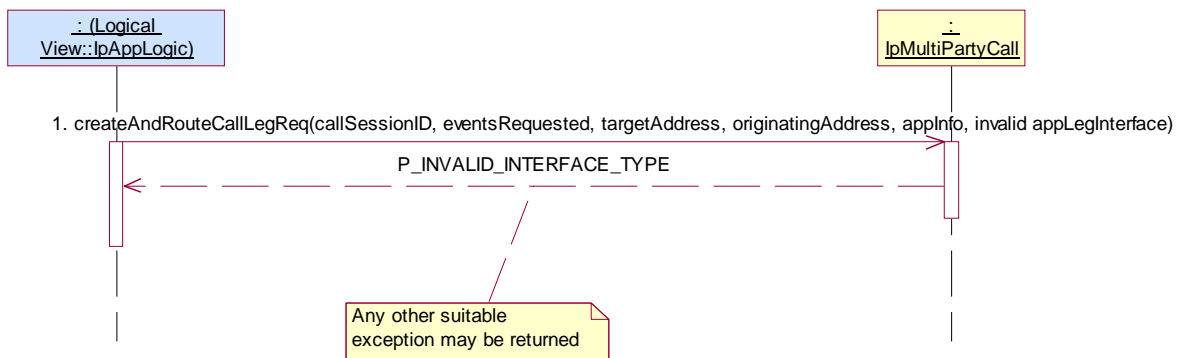
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createAndRouteCallLegReq method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()**
 Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, invalid appLegInterface
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned

**Test MPCC_IpMultiPartyCall_11**

Summary: IpMultiPartyCall, createAndRouteCallLegReq, P_INVALID_ADDRESS

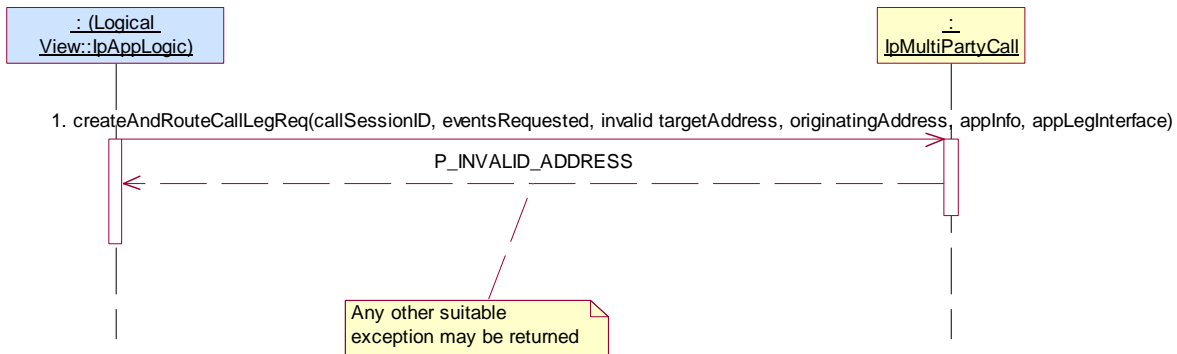
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createAndRouteCallLegReq method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()**
 Parameters: valid callSessionID, valid eventsRequested, invalid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_12

Summary: IpMultiPartyCall, createAndRouteCallLegReq, P_INVALID_ADDRESS

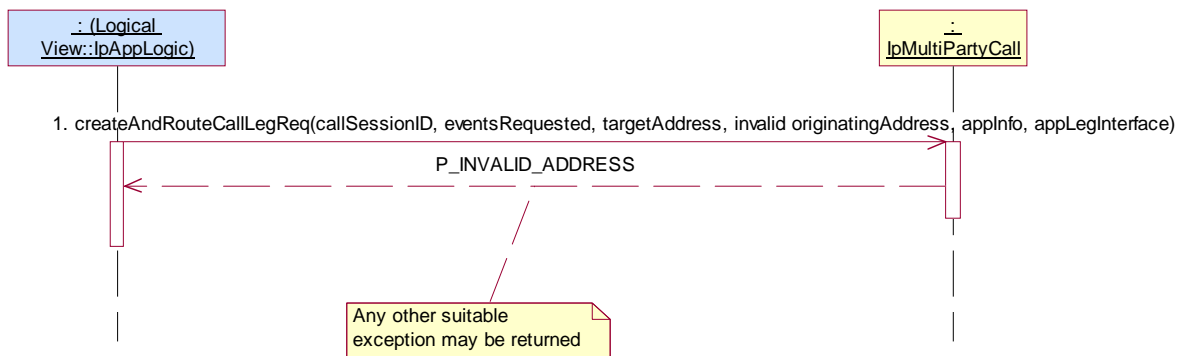
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createAndRouteCallLegReq method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()**
 Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, invalid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned

**Test MPCC_IpMultiPartyCall_13**

Summary: IpMultiPartyCall, createAndRouteCallLegReq, P_INVALID_CRITERIA

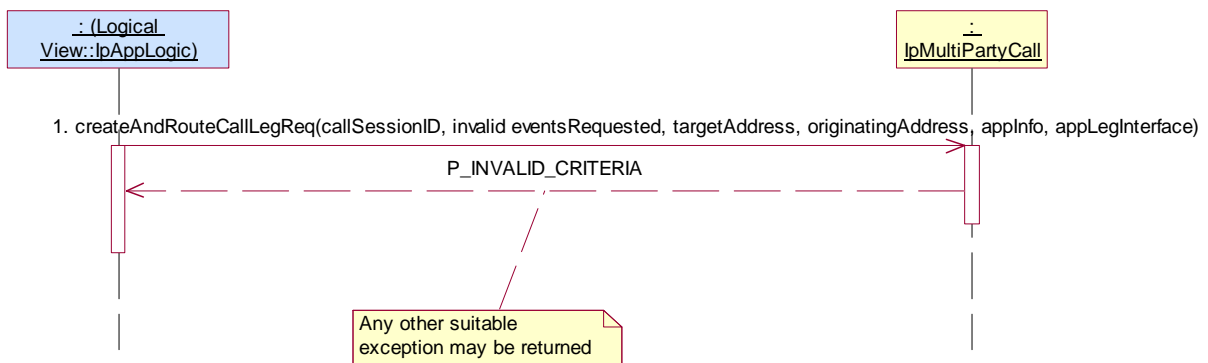
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createAndRouteCallLegReq method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()**
 Parameters: valid callSessionID, invalid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



5.2.2.2.3 Optional, valid behaviour

Test MPCC_IpMultiPartyCall_14

Summary: IpMultiPartyCall, getInfoReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

1. Method call **setCallback()** on IpMultiPartyCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned
3. Method call **createCallLeg()**
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned

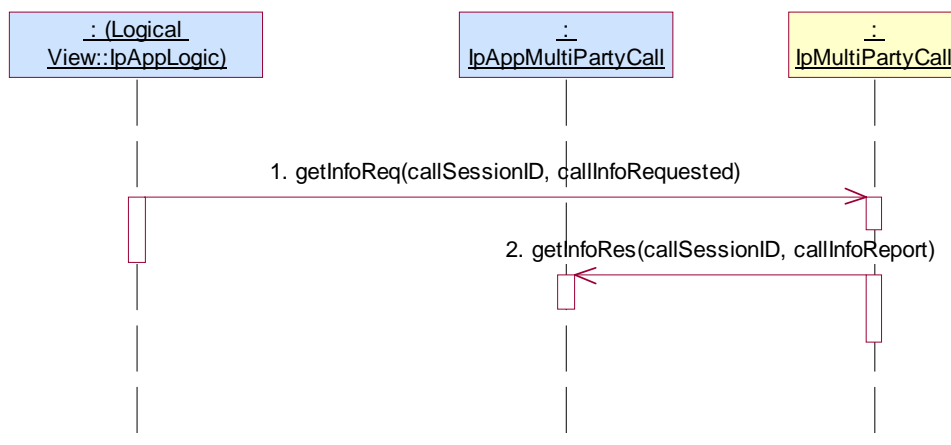
or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiPartyCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **createCallLeg ()**
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()**
Parameters: valid callSessionID reported in preamble, valid callInfoRequested
Check: no exception is returned
2. Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppMultiPartyCall** interface.
Parameters: callSessionID given in 1., valid callInfoReport.
Check: no exception is returned



Test MPCC_IpMultiPartyCall_15

Summary: IpMultiPartyCall, setChargePlan, successful

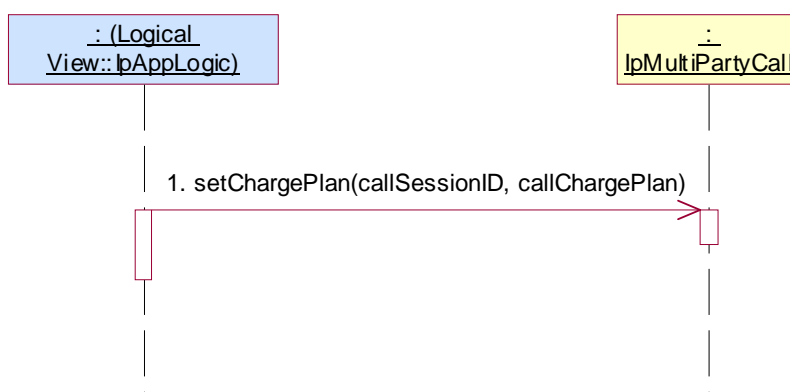
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

1. Method call **setChargePlan()**
 Parameters: valid callSessionID reported in preamble, valid callChargePlan
 Check: no exception is returned

**Test MPCC_IpMultiPartyCall_16**

Summary: IpMultiPartyCall, setAdviceOfCharge, successful

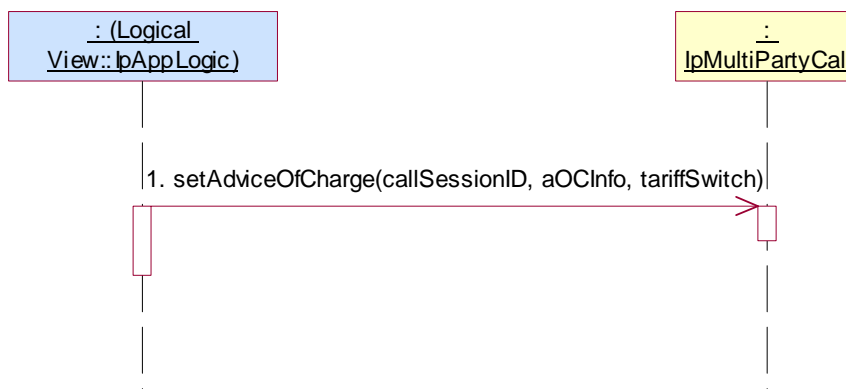
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge method are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
 Parameters: valid callSessionID reported in preamble, valid aOCInfo, valid tariffSwitch
 Check: no exception is returned



Test MPCC_IpMultiPartyCall_17

Summary: IpMultiPartyCall, superviseReq, successful

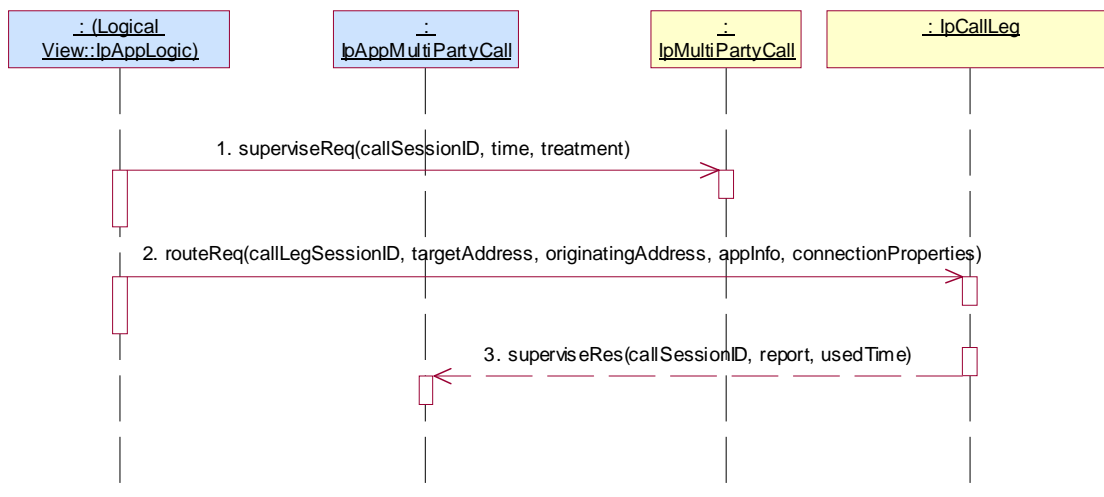
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

1. Method call **superviseReq()**
Parameters: valid callSessionID reported in preamble, valid time, valid treatment
Check: no exception is returned
2. Method call **routeReq()**
Parameters: valid callLegSessionID reported in preamble, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to call **superviseRes()** method on the tester's (Application) **IpAppMultiPartyCall** interface.
Parameters: callSessionID given in preamble, valid report, valid usedTime.



Test MPCC_IpMultiPartyCall_18

Summary: IpMultiPartyCall, getCallLegs, successful

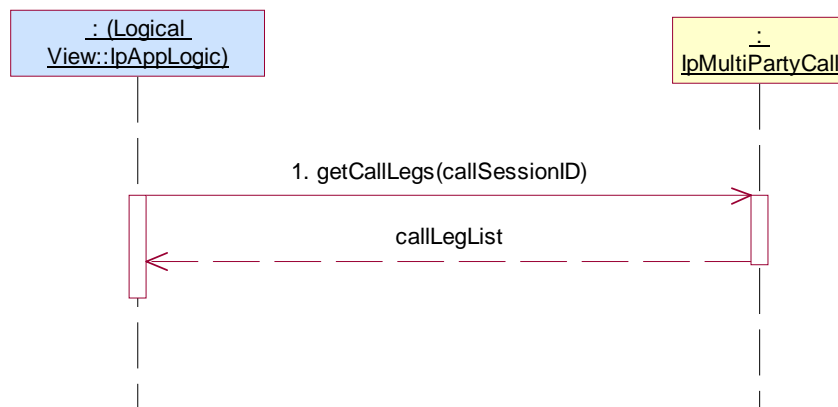
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_03

Condition: getCallLegs method is supported.

Test Sequence:

1. Method call **getCallLegs()**
 Parameters: valid callSessionID reported in preamble.
 Check: valid value of TpCallLegIdentifierSet which contains CallLegIdentifier returned in preamble.

**5.2.2.2.4 Optional, invalid behaviour****Test MPCC_IpMultiPartyCall_19**

Summary: IpMultiPartyCall, getInfoReq, P_INVALID_SESSION_ID

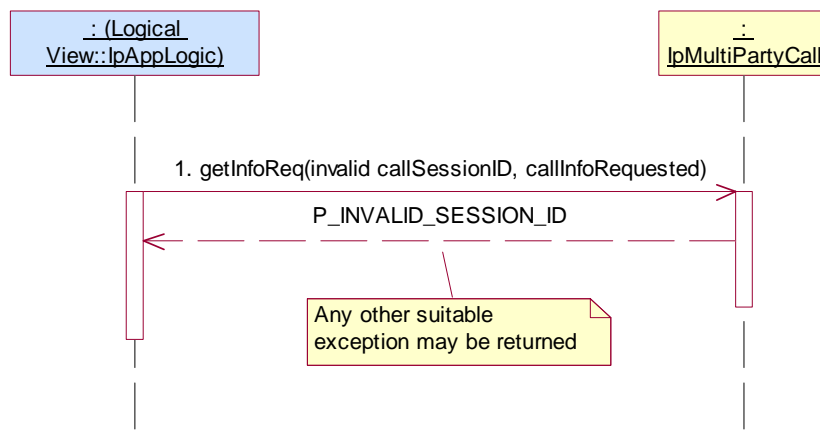
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()**
 Parameters: invalid callSessionID, valid callInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_20

Summary: IpMultiPartyCall, setChargePlan, P_INVALID_SESSION_ID

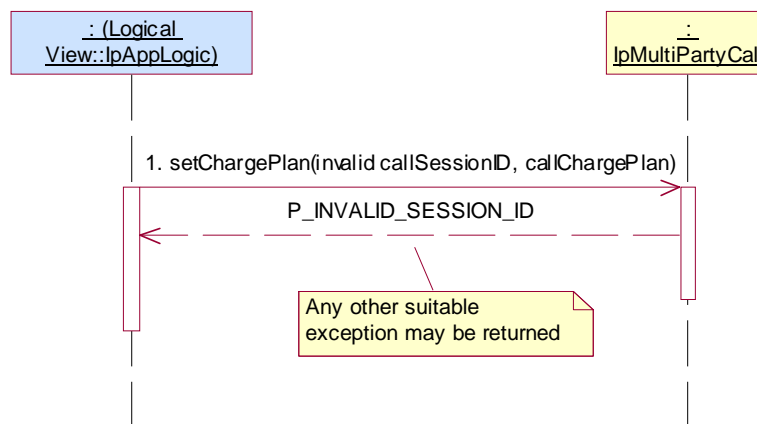
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

- Method call **setChargePlan()**
 Parameters: invalid callSessionID., valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpMultiPartyCall_21**

Summary: IpMultiPartyCall, setAdviceOfCharge, P_INVALID_SESSION_ID

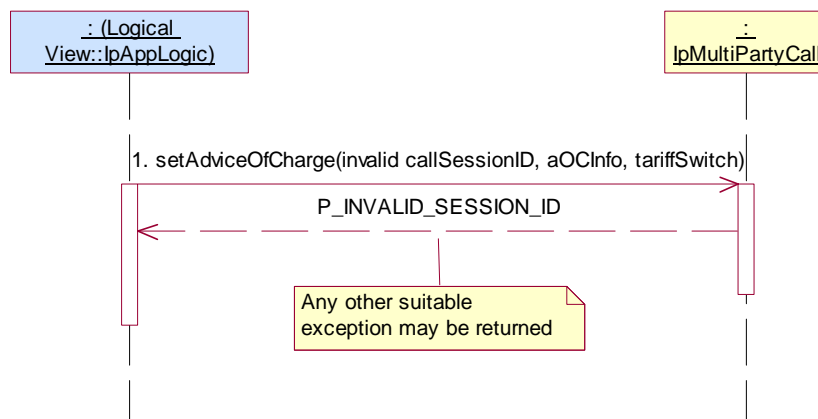
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()**
 Parameters: invalid callSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpMultiPartyCall_22

Summary: IpMultiPartyCall, setAdviceOfCharge, P_INVALID_CURRENCY

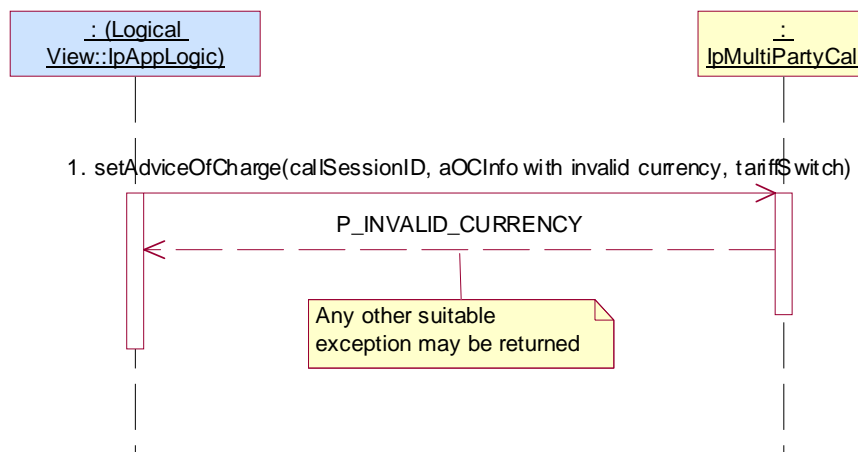
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()**
 Parameters: valid callSessionID reported in preamble, aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned.

**Test MPCC_IpMultiPartyCall_23**

Summary: IpMultiPartyCall, setAdviceOfCharge, P_INVALID_AMOUNT

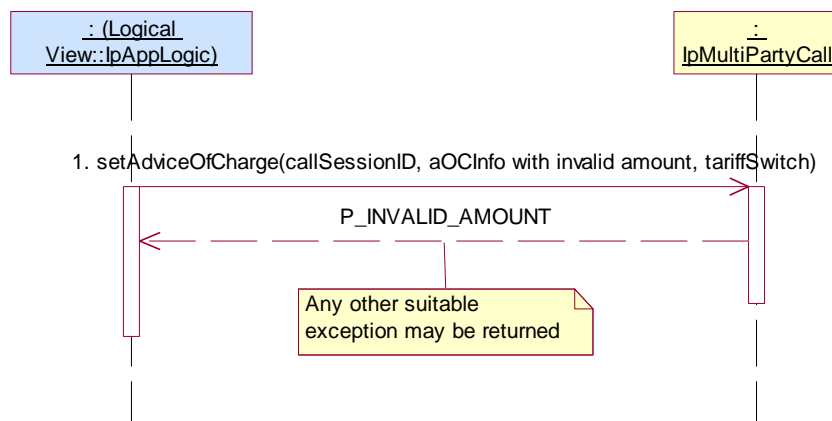
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()**
 Parameters: valid callSessionID reported in preamble, aOCInfo, with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned.



Test MPCC_IpMultiPartyCall_24

Summary: IpMultiPartyCall, superviseReq, P_INVALID_SESSION_ID

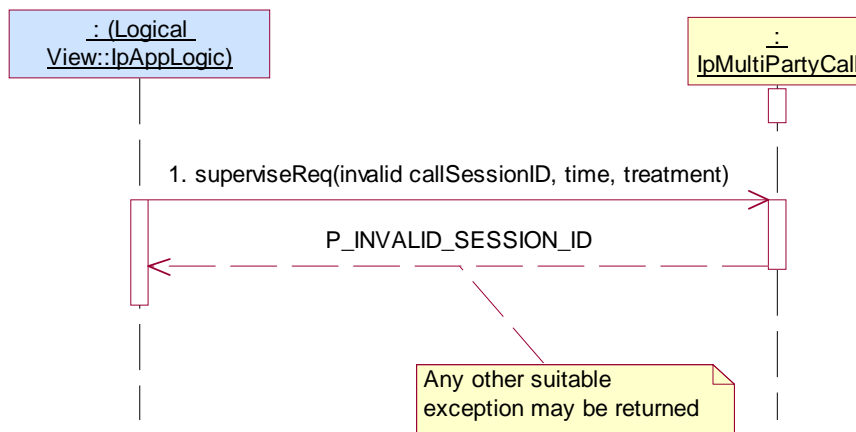
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

- Method call **superviseReq()**
 Parameters: invalid callSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpMultiPartyCall_25**

Summary: IpMultiPartyCall, getCallLegs, P_INVALID_SESSION_ID

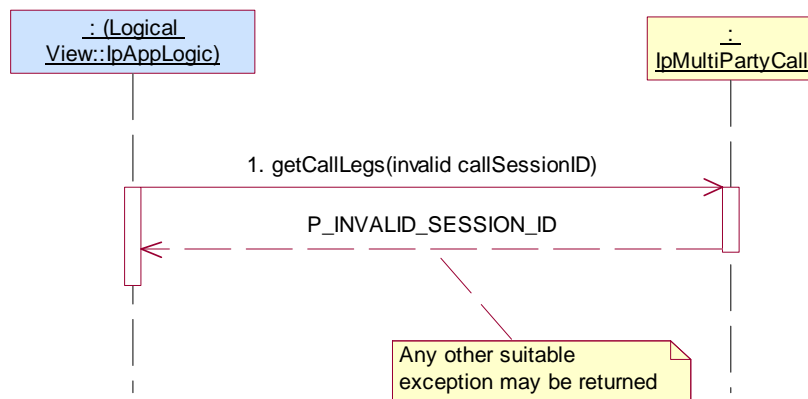
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: getCallLegs method is supported.

Test Sequence:

- Method call **getCallLegs()**
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.2.3 IpCallLeg

5.2.2.3.1 Mandatory, valid behaviour

Test MPCC_IpCallLeg_01

Summary: IpCallLeg, all mandatory methods, successful

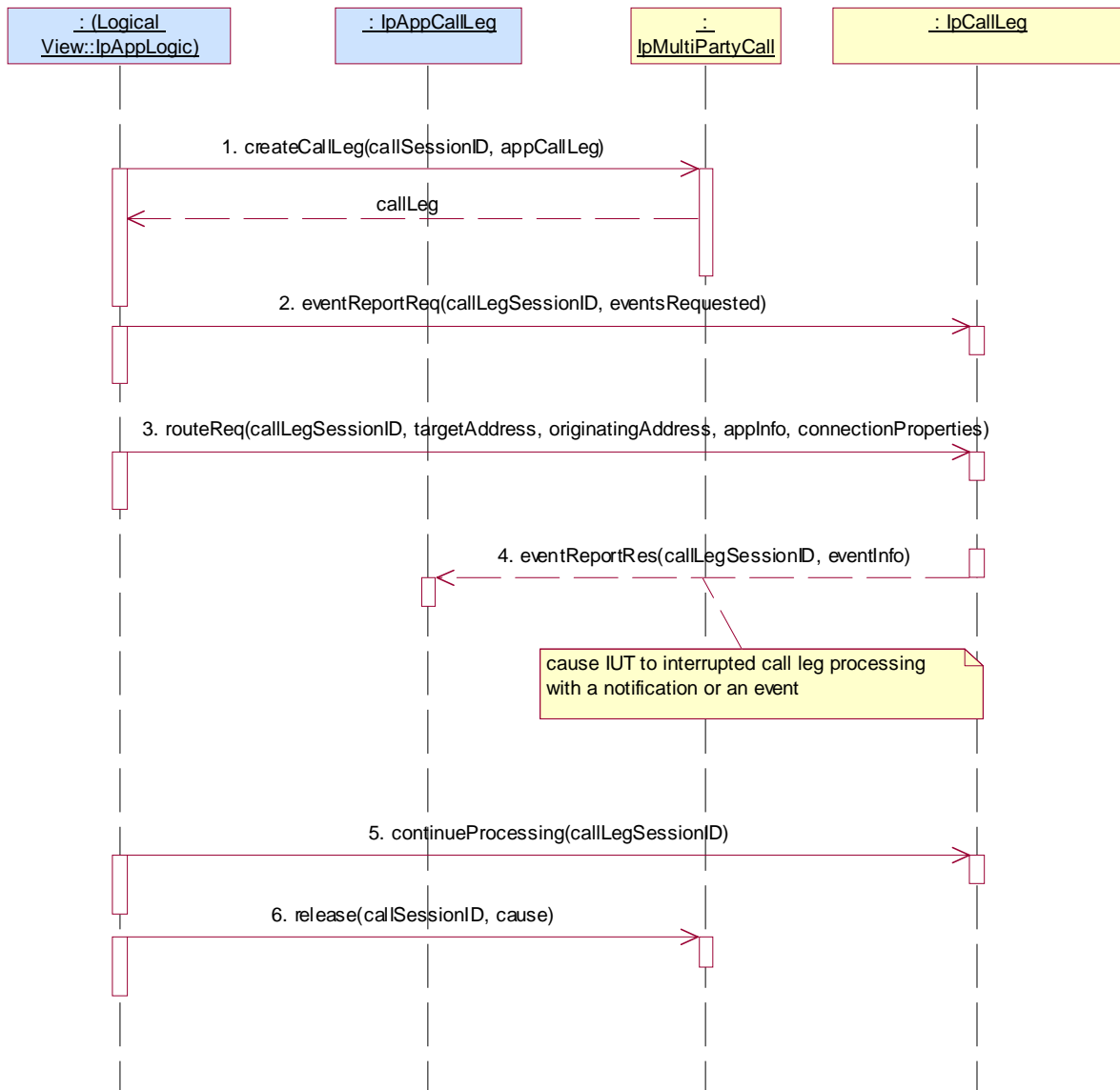
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **createCallLeg()**
Parameters: valid callSessionID reported in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()**
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()**
Parameters: valid callLegSessionID returned in 1, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
4. Triggered action: cause IUT to interrupted call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, errorIndication
5. Method call **continueProcessing()**
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
6. Method call **release()**
Parameters: valid callLegSessionID returned in 1, valid cause
Check: no exception is returned



Test MPCC_IpCallLeg_02

Summary: IpCallLeg, all mandatory methods, successful

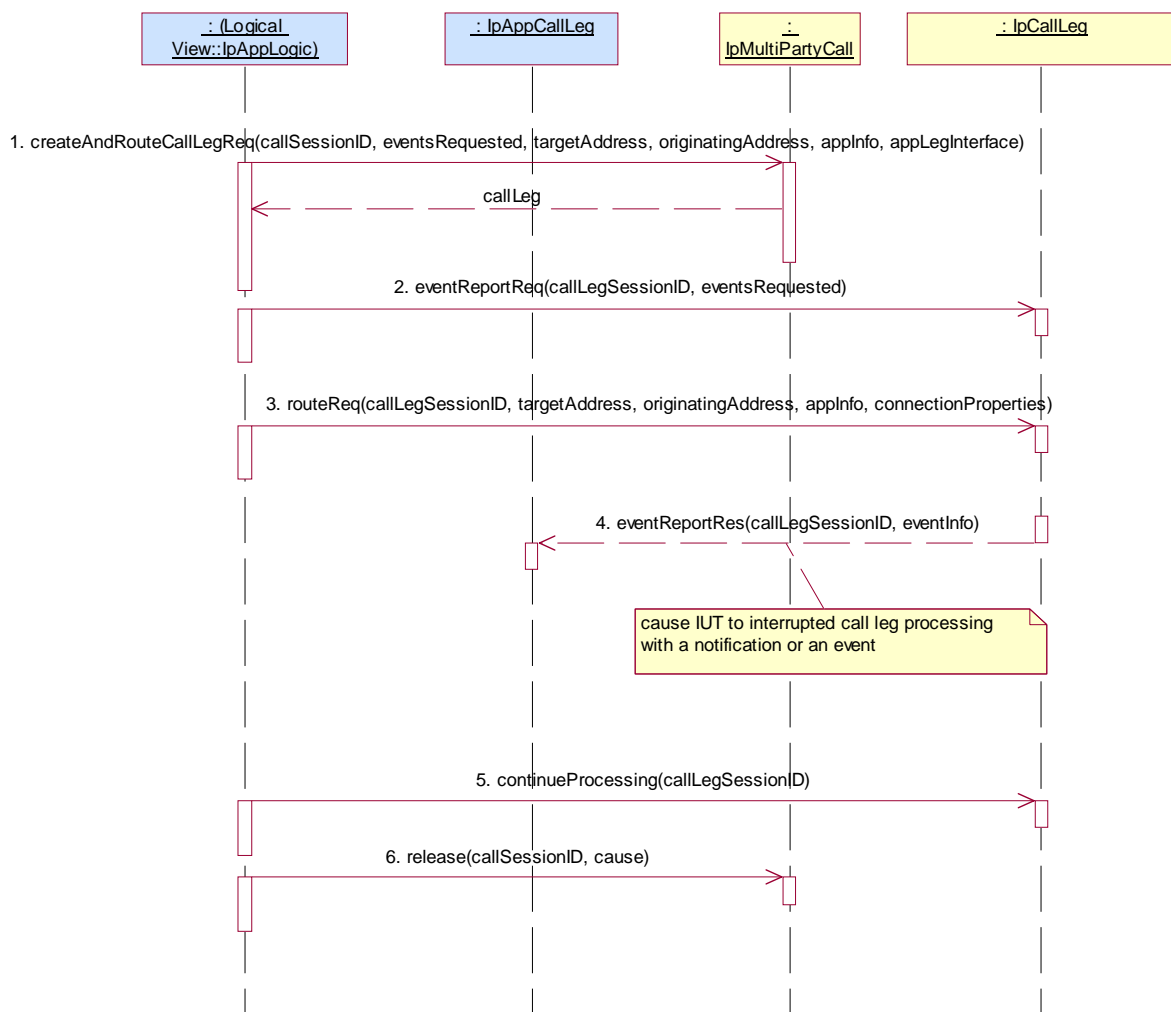
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createAndRouteCallLeg method is supported.

Test Sequence:

1. Method call **createAndRouteCallLegReq()**
Parameters: valid callSessionID reported in preamble, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier
2. Triggered action: cause IUT to interrupted call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, errorIndication
3. Method call **continueProcessing()**
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
4. Method call **release()**
Parameters: valid callLegSessionID returned in 1, valid cause
Check: no exception is returned



Test MPCC_IpCallLeg_03

Summary: IpCallLeg, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_03

Test Sequence:

1. Method call **deassign()**
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned

**5.2.2.3.2 Mandatory, invalid behaviour****Test MPCC_IpCallLeg_04**

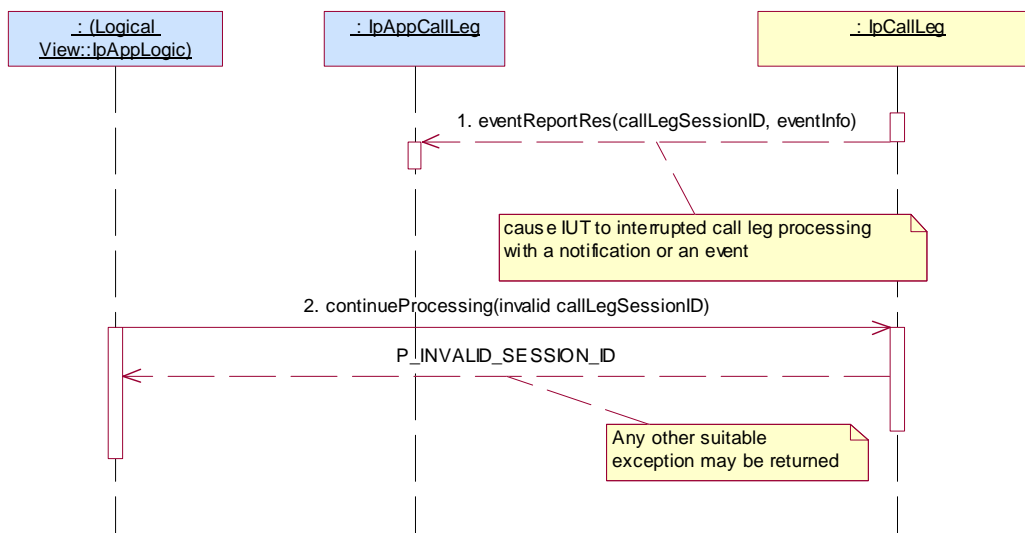
Summary: IpCallLeg, continueProcessing, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_03

Test Sequence:

1. Triggered action: cause IUT to interrupted call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, errorIndication
2. Method call **continueProcessing()**
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpCallLeg_05

Summary: IpCallLeg, routeReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_14

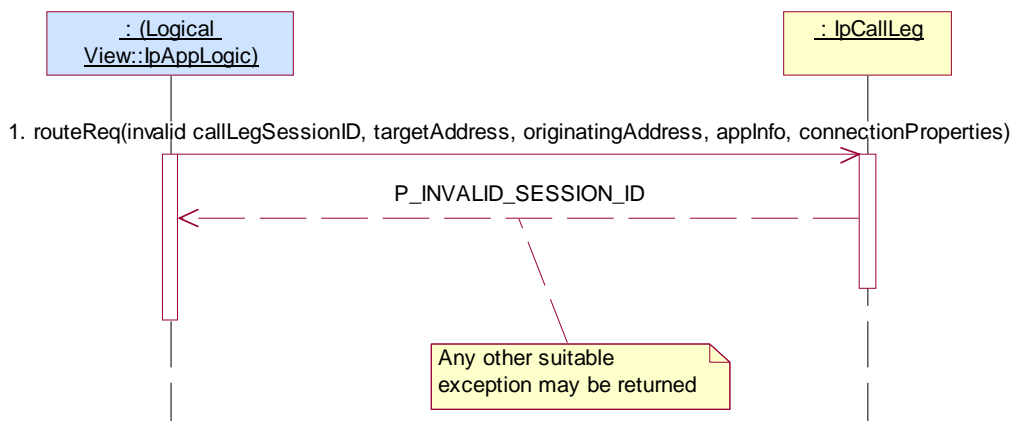
Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **routeReq()**

Parameters: invalid callLegSessionID, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpCallLeg_06**

Summary: IpCallLeg, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

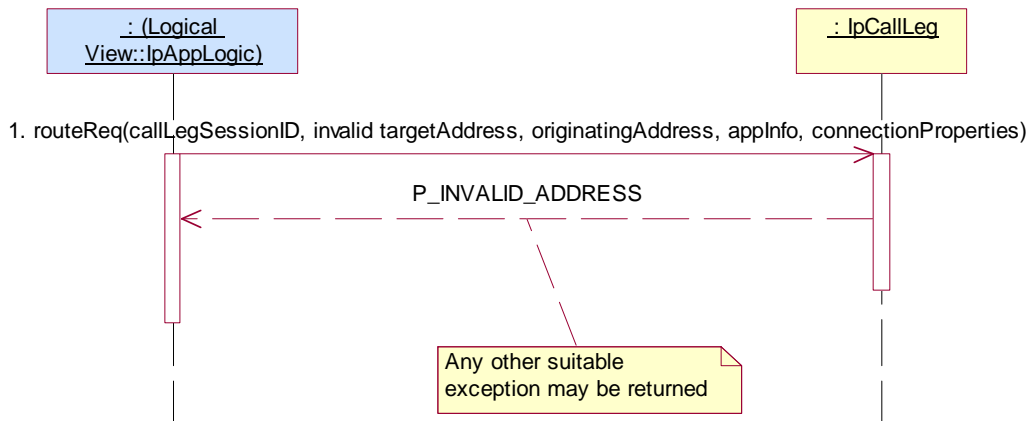
Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **routeReq()**

Parameters: valid callLegSessionID returned in preamble, invalid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties

Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test MPCC_IpCallLeg_07

Summary: IpCallLeg, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

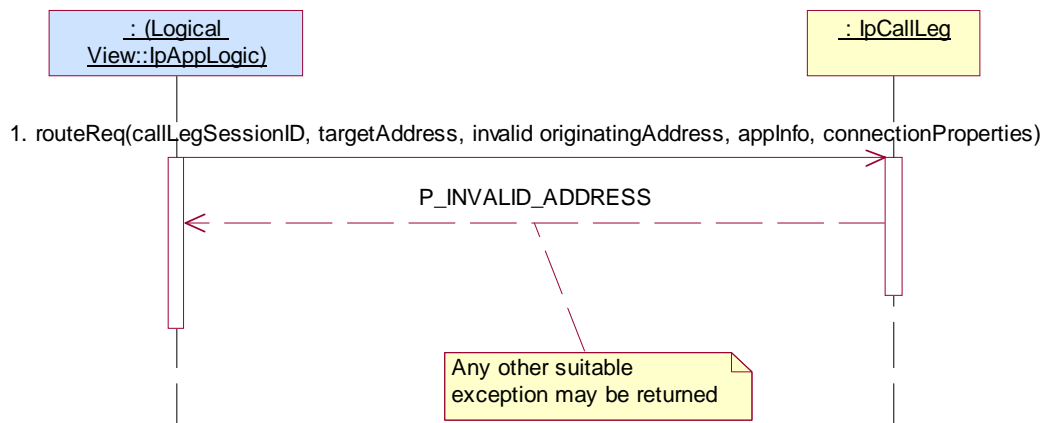
Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **routeReq()**

Parameters: valid callLegSessionID returned in preamble, valid targetAddress, invalid originatingAddress, valid appInfo, valid connectionProperties

Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test MPCC_IpCallLeg_08

Summary: IpCallLeg, eventReportReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_07

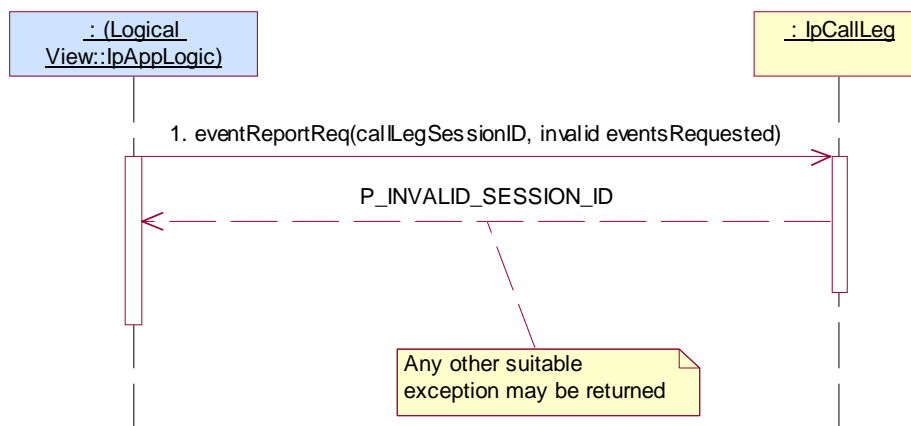
Condition: createCallLeg and eventReportReq methods are supported.

Test Sequence:

1. Method call **eventReportReq()**

Parameters: invalid callLegSessionID, valid eventsRequested

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpCallLeg_09**

Summary: IpCallLeg, eventReportReq, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_07

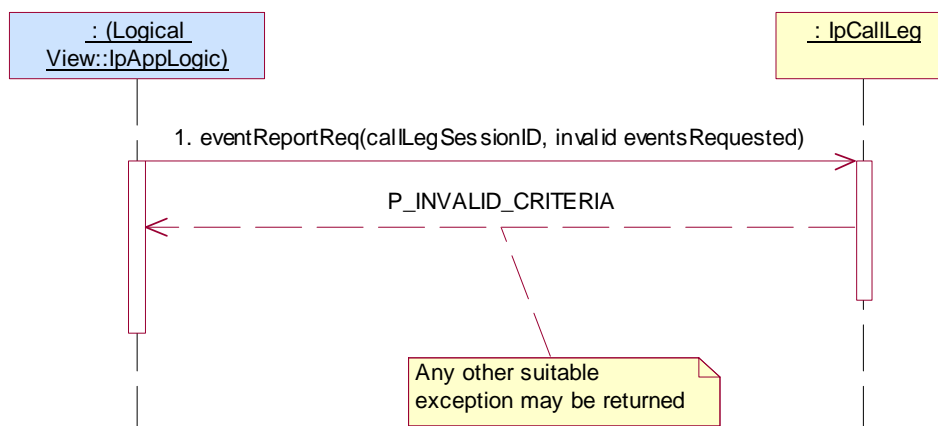
Condition: createCallLeg and eventReportReq methods are supported.

Test Sequence:

1. Method call **eventReportReq()**

Parameters: valid callLegSessionID returned in preamble, invalid eventsRequested

Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test MPCC_IpCallLeg_10

Summary: IpCallLeg, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

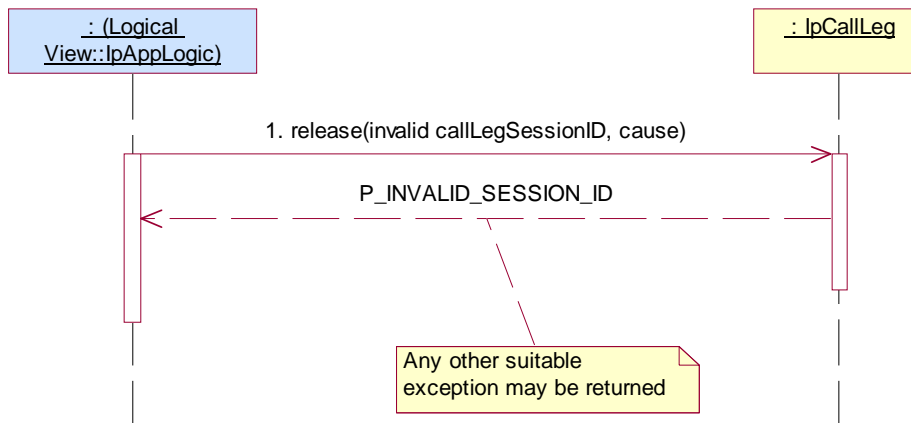
Preamble: Same as MPCC_IpMultiPartyCall_03

Test Sequence:

1. Method call **release()**

Parameters: invalid callLegSessionID, valid cause

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpCallLeg_11**

Summary: IpCallLeg, deassign, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

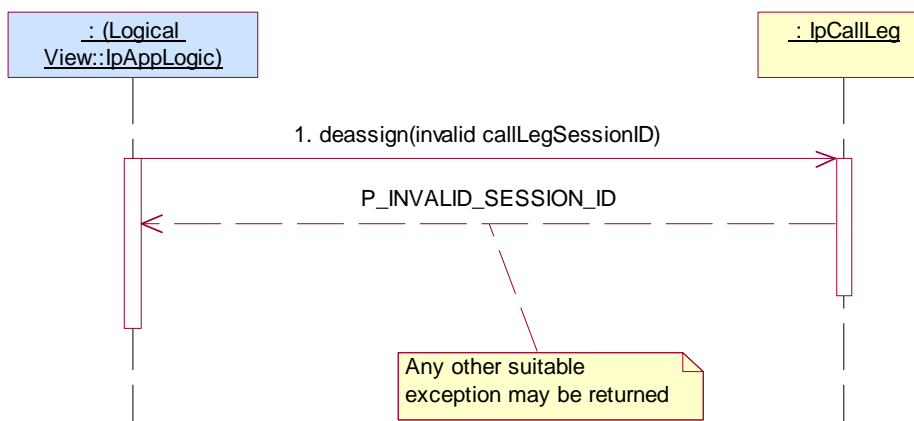
Preamble: Same as MPCC_IpMultiPartyCall_03

Test Sequence:

1. Method call **deassign()**

Parameters: invalid callLegSessionID

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



5.2.2.3.3 Optional, valid behaviour

Test MPCC_IpCallLeg_12

Summary: IpCallLeg, getInfoReq, successful

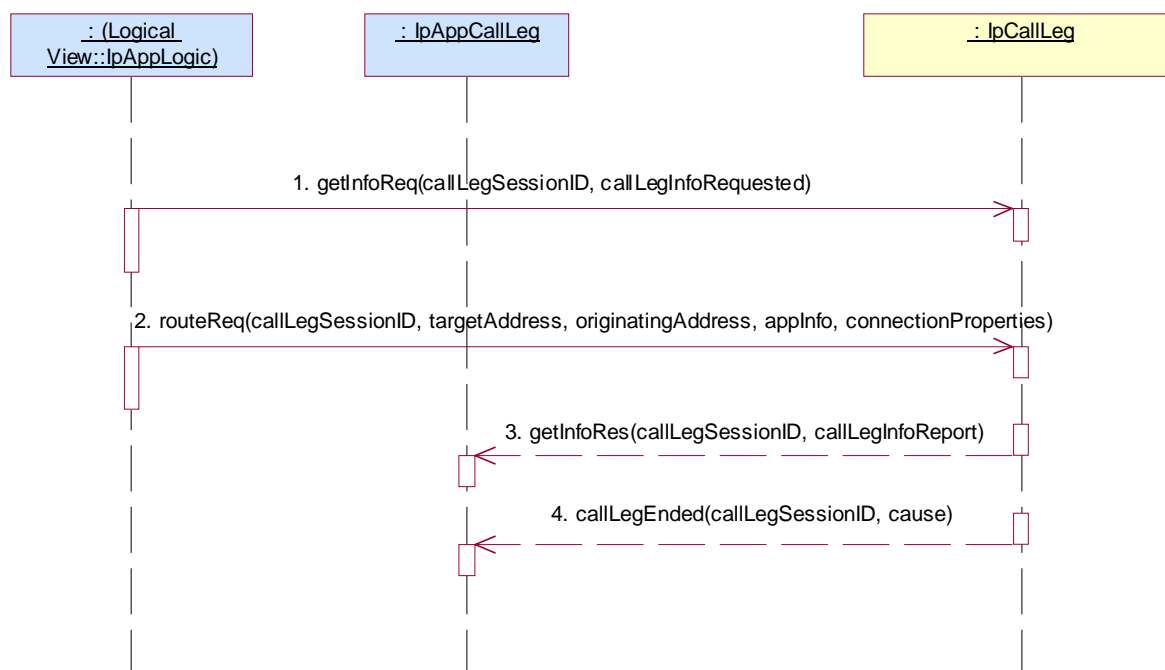
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()**
Parameters: valid callLegSessionID returned in preamble, valid callLegInfoRequested
Check: no exception is returned
2. Method call **routeReq()**
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
- 2 Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID given in 1., valid callLegInfoReport.
- 3 Triggered action: cause IUT to call **callLegEnded()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID given in 1, cause



Test MPCC_IpCallLeg_13

Summary: IpCallLeg, attachMediaReq, successful

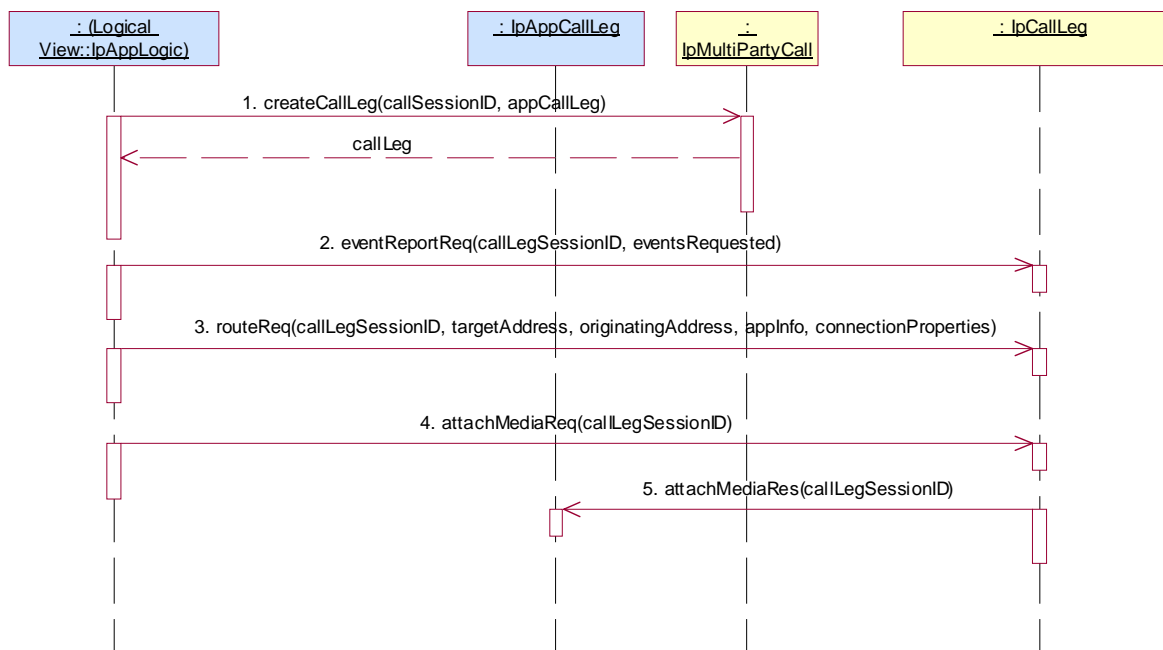
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createCallLeg and attachMediaReq methods are supported.

Test Sequence:

1. Method call **createCallLeg()**
Parameters: valid callSessionID reported in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()**
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()**
Parameters: valid callLegSessionID returned in 1, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned
4. Method call **attachMediaReq()**
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
5. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID



Test MPCC_IpCallLeg_14

Summary: IpCallLeg, detachMediaReq, successful

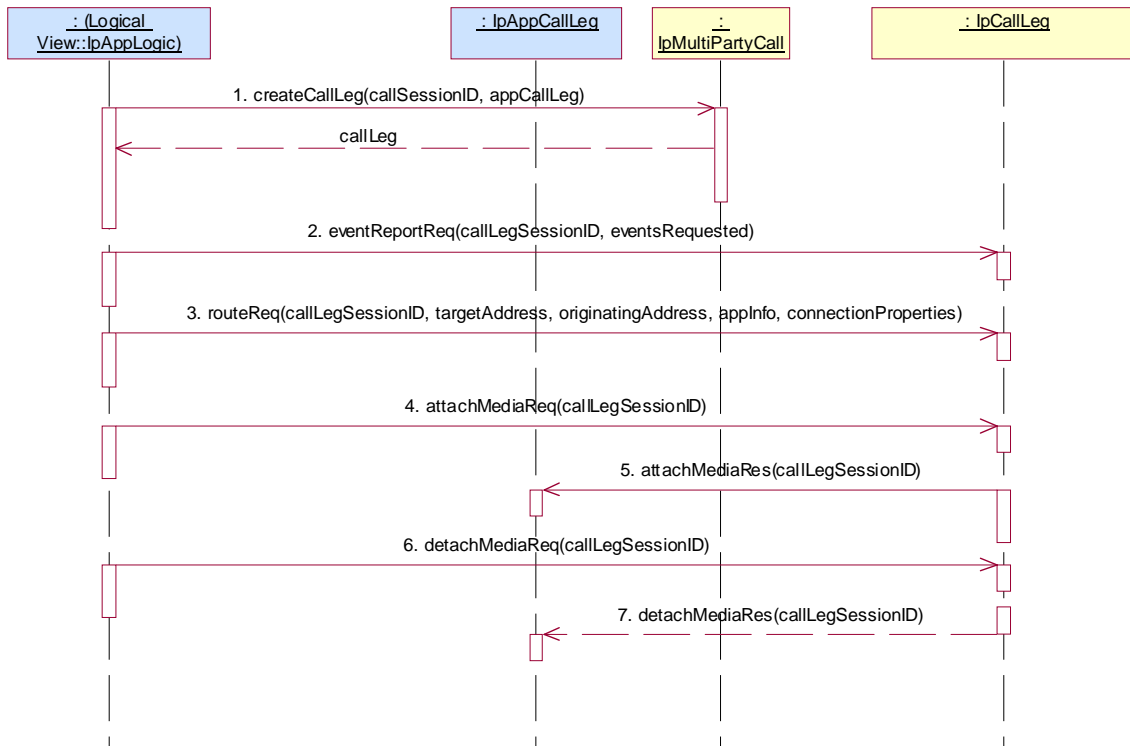
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_07

Condition: createCallLeg, attachMediaReq and detachMediaReq methods are supported.

Test Sequence:

1. Method call **createCallLeg()**
Parameters: valid callSessionID reported in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()**
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()**
Parameters: valid callLegSessionID returned in 1, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned
4. Method call **attachMediaReq()**
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
5. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID
6. Method call **detachMediaReq()**
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
7. Triggered action: cause IUT to call **detachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID



Test MPCC_IpCallLeg_15

Summary: IpCallLeg, getCurrentDestinationAddress, successful

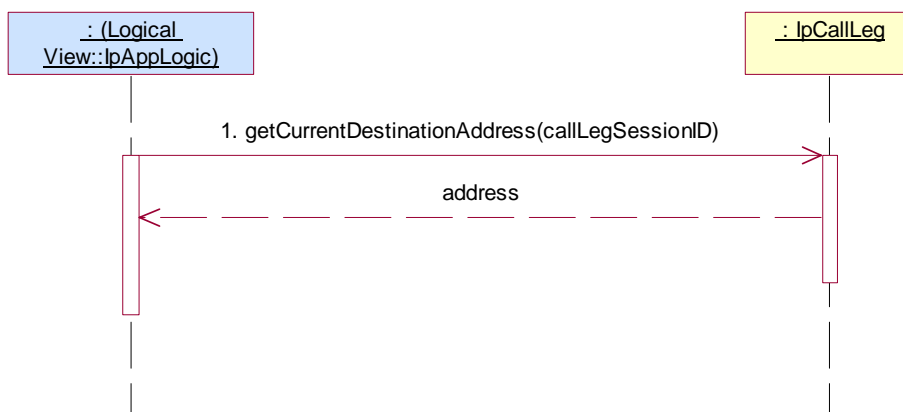
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_03

Condition: getCurrentDestinationAddress method is supported.

Test Sequence:

- Method call **getCurrentDestinationAddress()**
 Parameters: valid callLegSessionID returned in preamble.
 Check: valid value of TpAddress is returned



Test MPCC_IpCallLeg_16

Summary: IpCallLeg, setChargePlan, successful

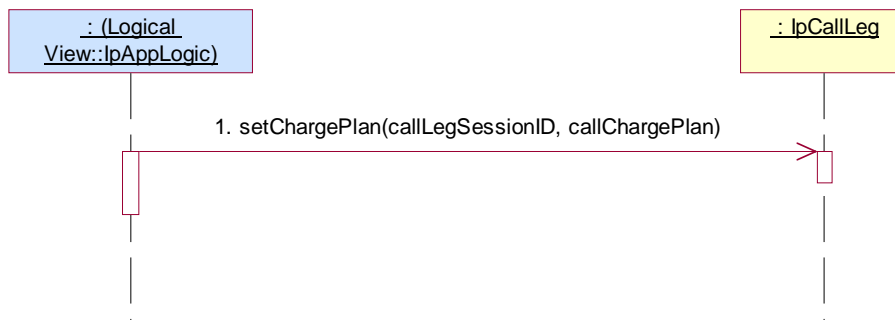
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

1. Method call **setChargePlan()**
 Parameters: valid callLegSessionID returned in preamble, valid callChargePlan
 Check: no exception is returned

**Test MPCC_IpCallLeg_17**

Summary: IpCallLeg, setAdviceOfCharge, successful

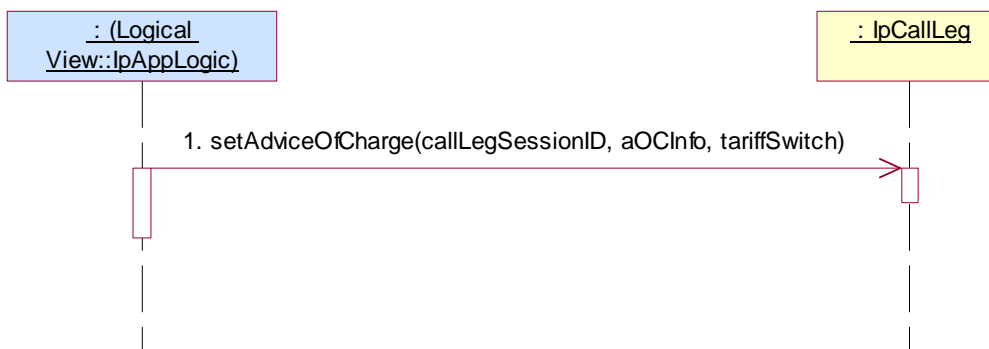
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
 Parameters: valid callLegSessionID returned in preamble, valid aOCInfo, valid tariffSwitch
 Check: no exception is returned



Test MPCC_IpCallLeg_18

Summary: IpCallLeg, superviseReq, successful

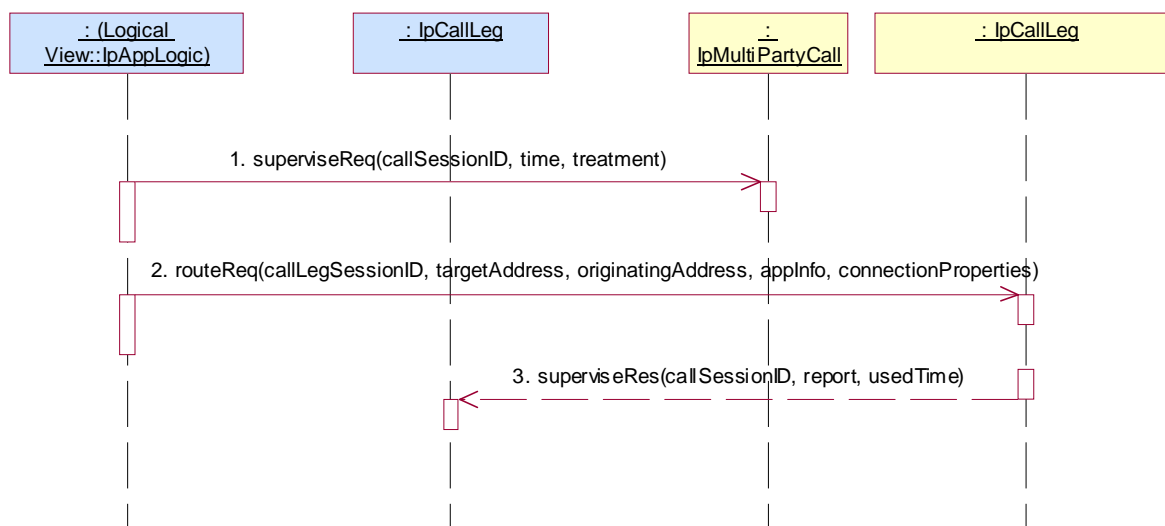
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

1. Method call **superviseReq()**
 Parameters: valid callLegSessionID returned in preamble, valid time, valid treatment
 Check: no exception is returned
2. Method call **routeReq()**
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned
3. Triggered action: cause IUT to call **superviseRes()** method on the tester's (Application) **IpAppCallLeg** interface.
 Parameters: callLegSessionID, report, usedTime



Test MPCC_IpCallLeg_19

Summary: IpCallLeg, getCall, successful

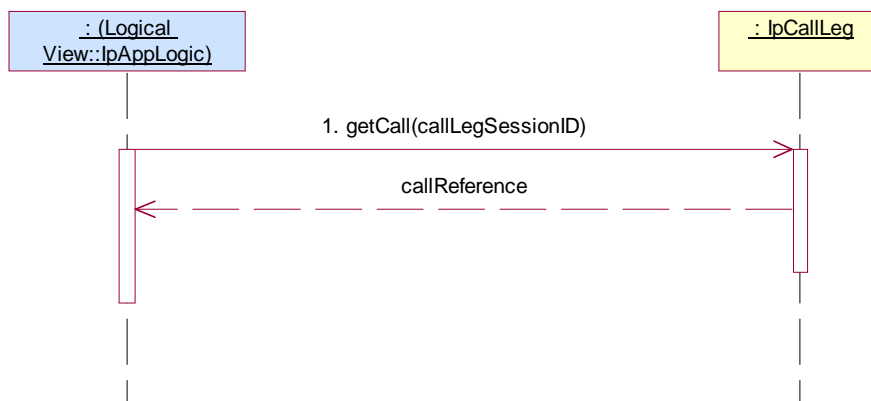
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_03

Condition: getCall method is supported.

Test Sequence:

1. Method call **getCall()**
 Parameters: valid callLegSessionID returned in preamble.
 Check: valid TpMultiPartyCallIdentifier is returned

**5.2.2.3.4 Optional, invalid behaviour****Test MPCC_IpCallLeg_20**

Summary: IpCallLeg, getInfoReq, P_INVALID_SESSION_ID

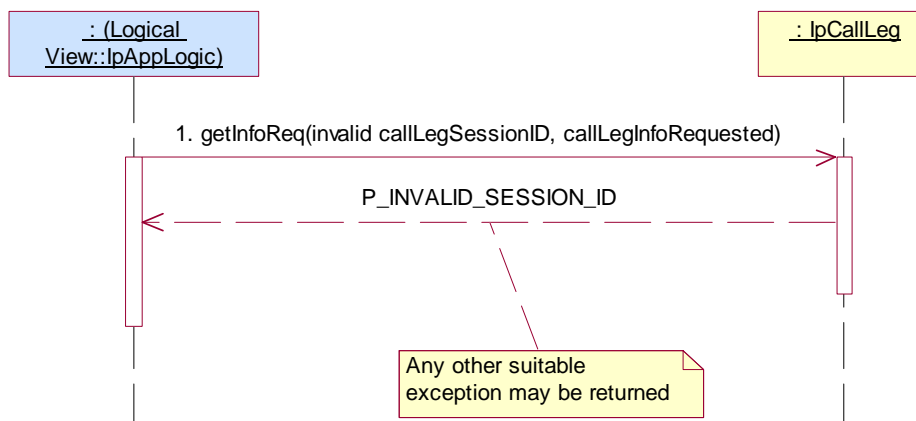
Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()**
 Parameters: invalid callLegSessionID, valid callLegInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpCallLeg_21

Summary: IpCallLeg, attachMediaReq, P_INVALID_SESSION_ID

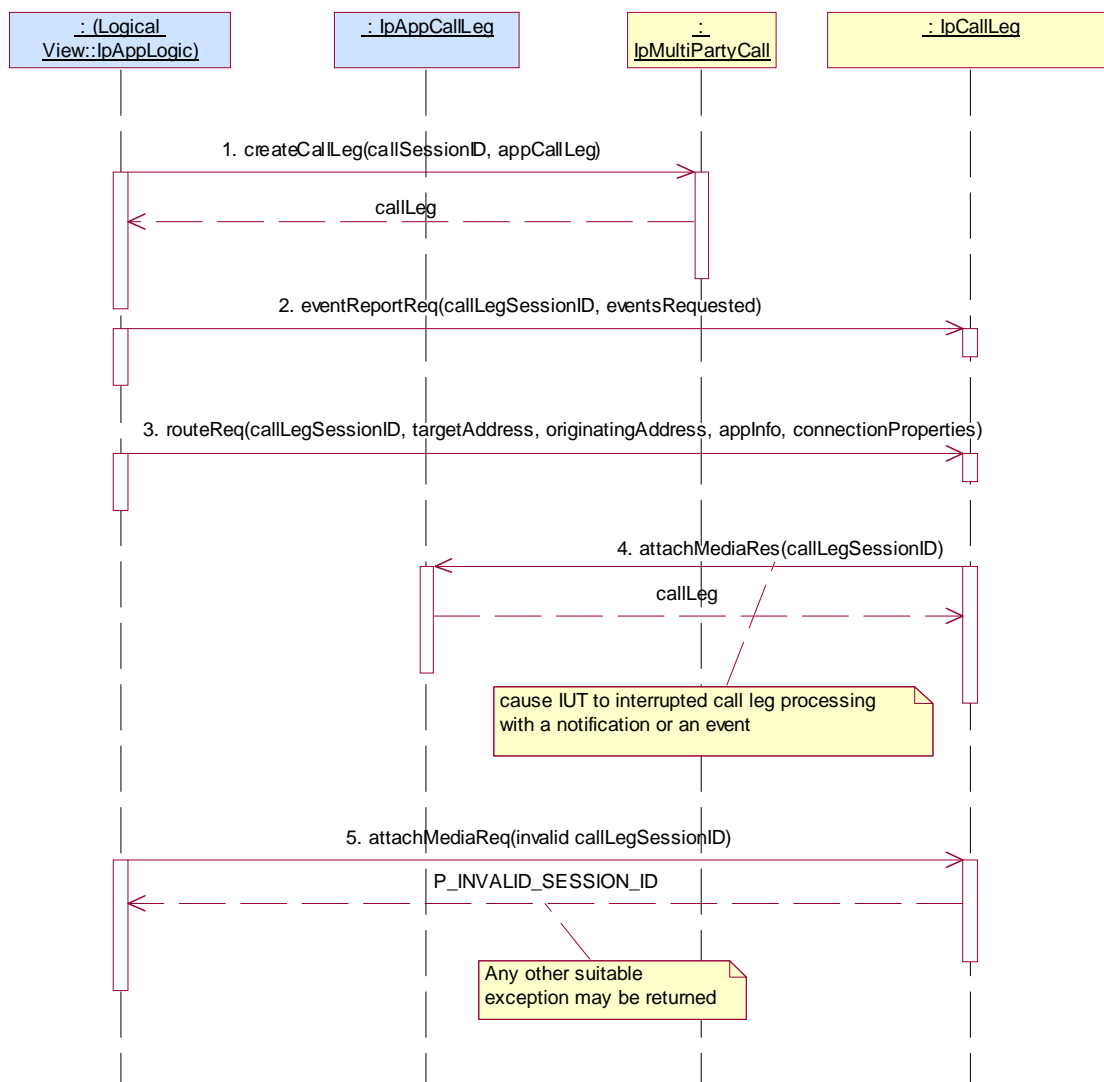
Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_25

Condition: attachMediaReq method is supported.

Test Sequence:

1. Method call **createCallLeg()**
Parameters: valid callSessionID reported in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()**
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()**
Parameters: valid callLegSessionID returned in 1, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties set to have implicit media management
Check: no exception is returned
4. Method call **attachMediaReq()**
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpCallLeg_22

Summary: IpCallLeg, detachMediaReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

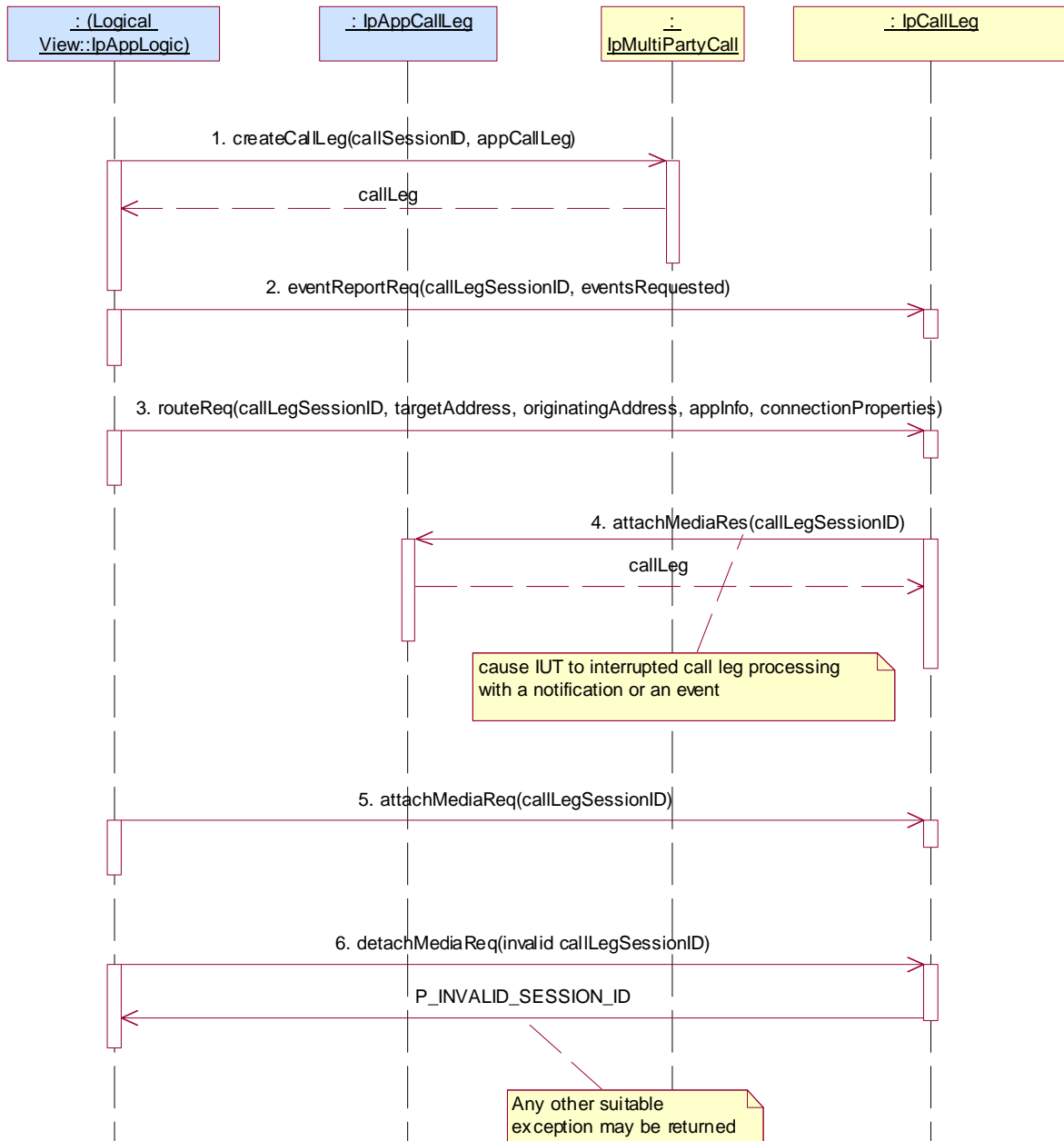
Preamble: Same as MPCC_IpMultiPartyCall_25

Condition: attachMediaReq and detachMediaReq methods are supported.

Test Sequence:

1. Method call **createCallLeg()**
 Parameters: valid callSessionID reported in preamble, valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()**
 Parameters: valid callLegSessionID returned in 1, valid eventsRequested
 Check: no exception is returned
3. Method call **routeReq()**
 Parameters: valid callLegSessionID returned in 1, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties set to have explicit media management
 Check: no exception is returned

4. Method call **attachMediaReq()**
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
5. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID
6. Method call **detachMediaReq()**
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpCallLeg_23

Summary: IpCallLeg, getCurrentDestinationAddress, P_INVALID_SESSION_ID

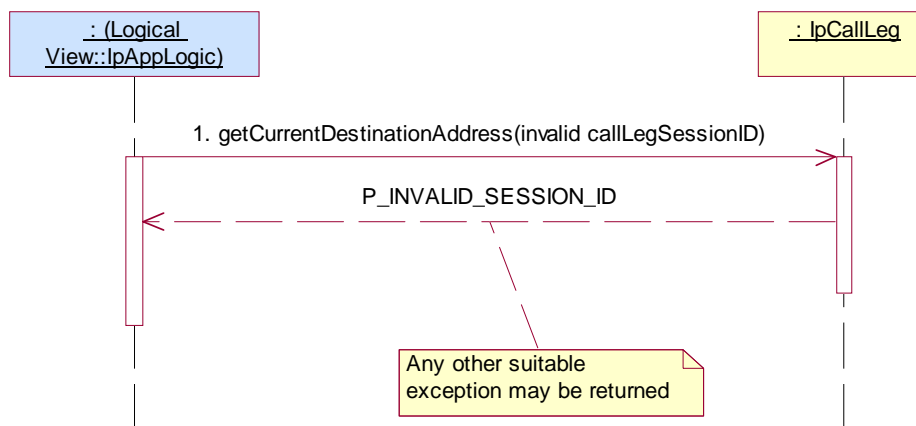
Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_03

Condition: getCurrentDestinationAddress method is supported.

Test Sequence:

- Method call **getCurrentDestinationAddress()**
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpCallLeg_24**

Summary: IpCallLeg, setChargePlan, P_INVALID_SESSION_ID

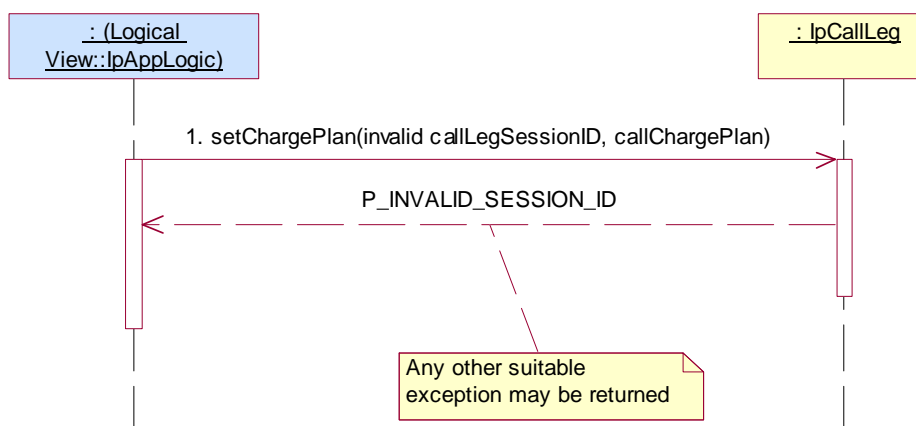
Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

- Method call **setChargePlan()**
 Parameters: invalid callLegSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpCallLeg_25

Summary: IpCallLeg, setAdviceOfCharge, P_INVALID_SESSION_ID

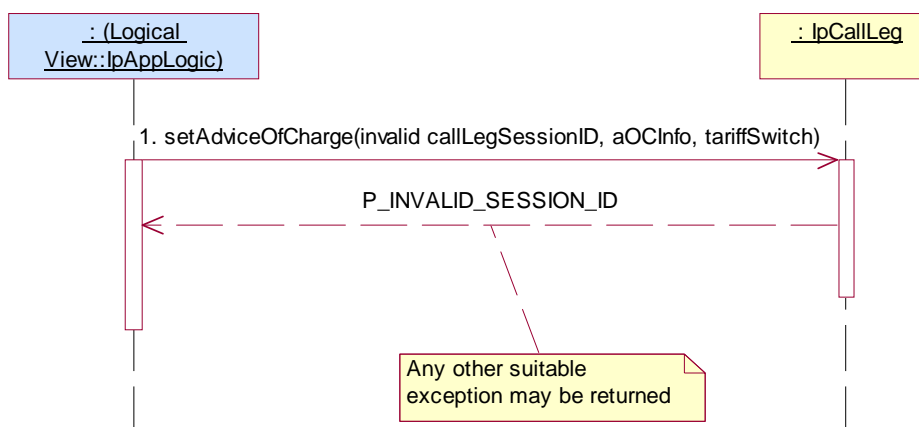
Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
 Parameters: invalid callLegSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MPCC_IpCallLeg_26**

Summary: IpCallLeg, setAdviceOfCharge, P_INVALID_CURRENCY

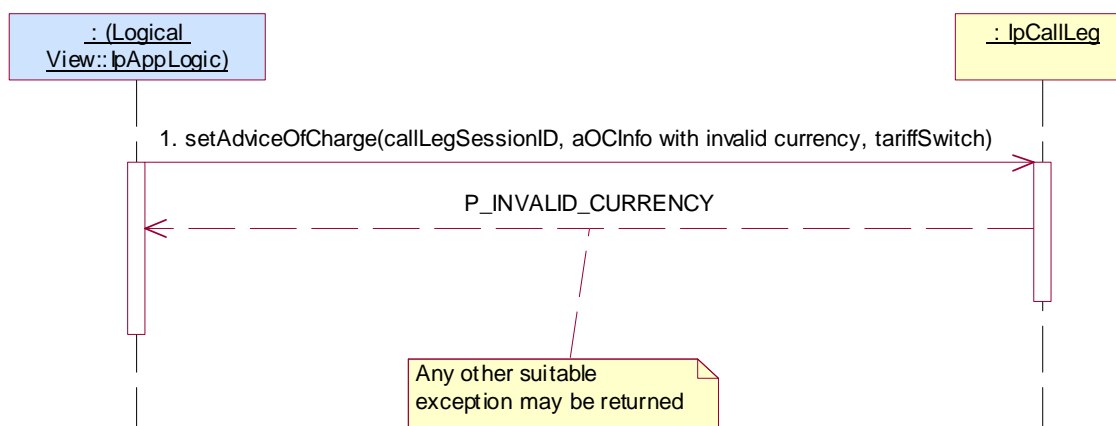
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
 Parameters: valid callLegSessionID returned in preamble, aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned



Test MPCC_IpCallLeg_27

Summary: IpCallLeg, setAdviceOfCharge, P_INVALID_AMOUNT

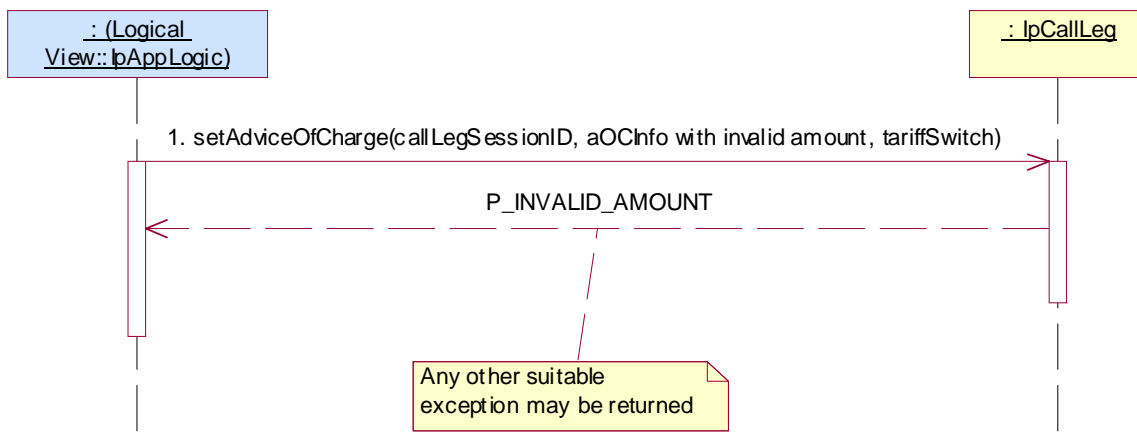
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()**
 Parameters: valid callLegSessionID returned in preamble, aOCInfo with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned

**Test MPCC_IpCallLeg_28**

Summary: IpCallLeg, superviseReq, P_INVALID_SESSION_ID

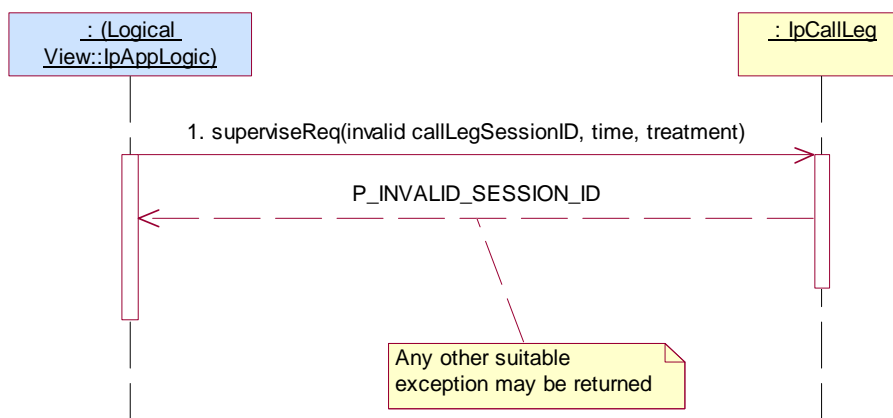
Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_14

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

1. Method call **superviseReq()**
 Parameters: invalid callLegSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MPCC_IpCallLeg_29

Summary: IpCallLeg, getCall, P_INVALID_SESSION_ID

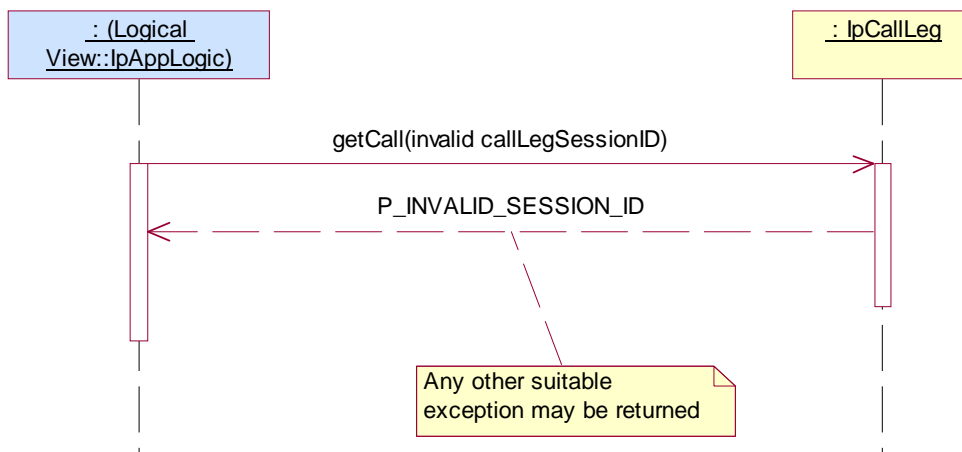
Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MPCC_IpMultiPartyCall_03

Condition: getCall method is supported.

Test Sequence:

1. Method call **getCall()**
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.3 MultiMedia Call Control Service (MMCC)

5.2.3.1 IpMultiMediaCallControlManager

5.2.3.1.1 Mandatory, valid behaviour

Test MMCC_IpMultiMediaCallControlManager_01

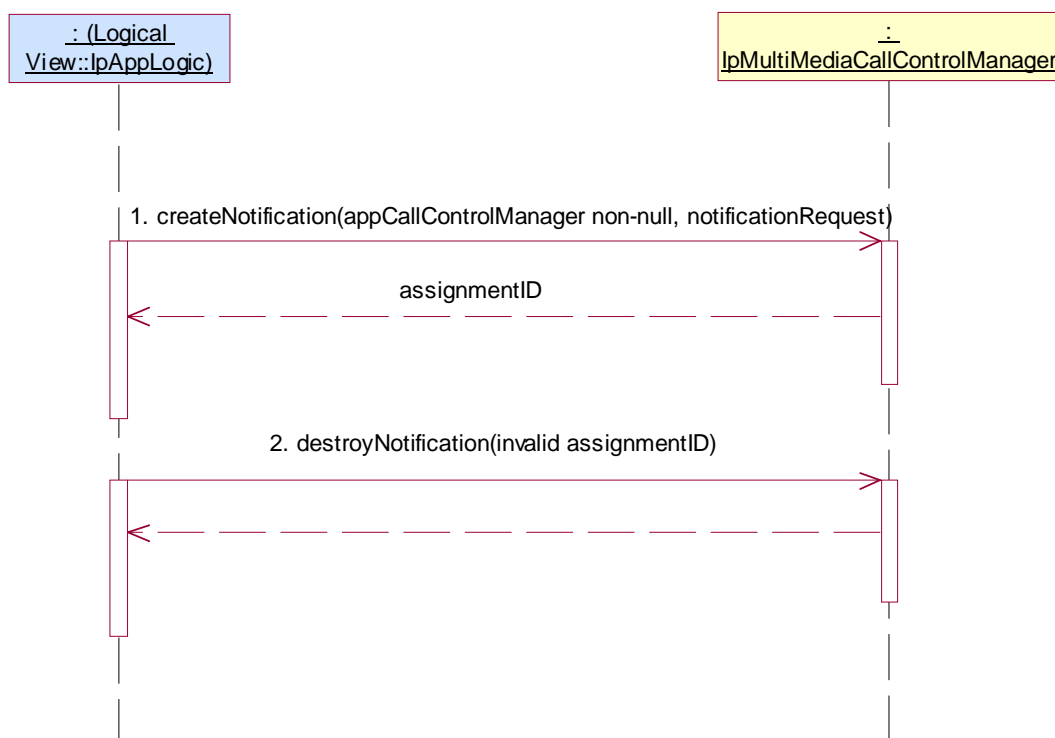
Summary: IpMultiMediaCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Condition: createNotification method is supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiMediaCallControlManager** interface.
 Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **destroyNotification()**
 Parameters: assignmentID returned in 1
 Check: no exception is returned



Test MMCC_ IpMultiMediaCallControlManager _02

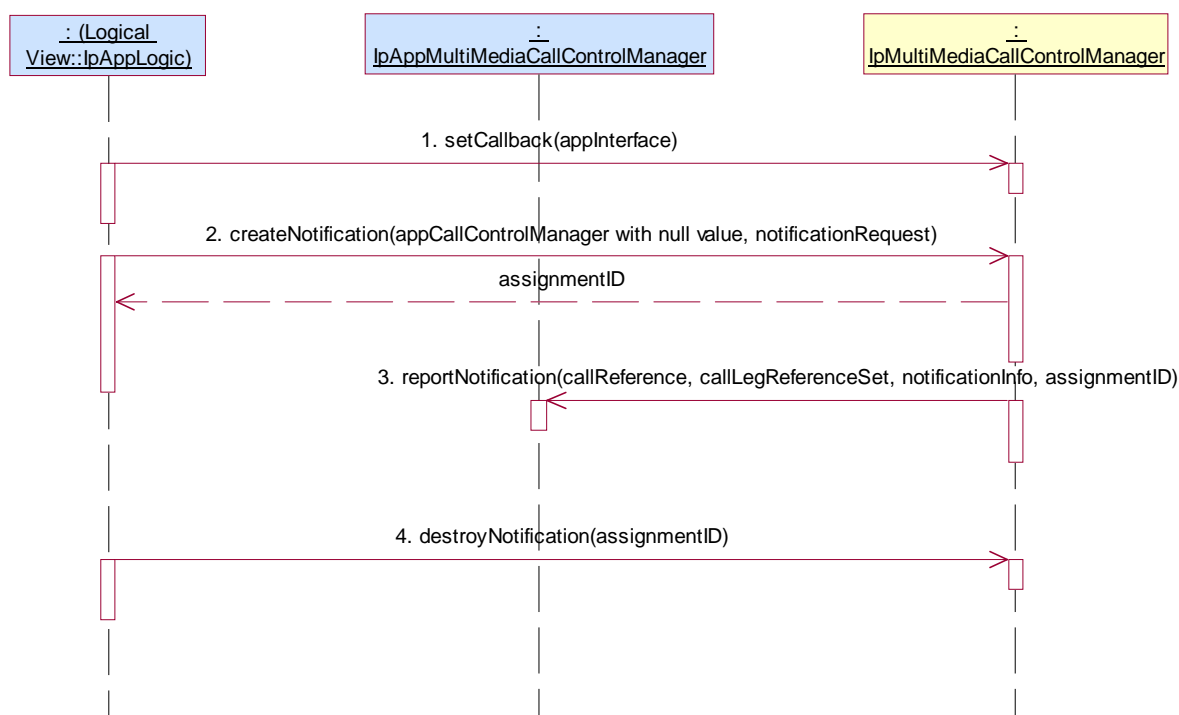
Summary: IpMultiMediaCallControlManager, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Condition: createNotification method is supported.

Test Sequence:

1. Method call **setCallback()** on IpCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createNotification()**
Parameters: appCallControlManager with null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiMediaCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
4. Method call **destroyNotification()**
Parameters: assignmentID returned in 1.
Check: no exception is returned



Test MMCC_IpMultiMediaCallControlManager_03

Summary: IpMultiMediaCallControlManager, all mandatory methods, successful

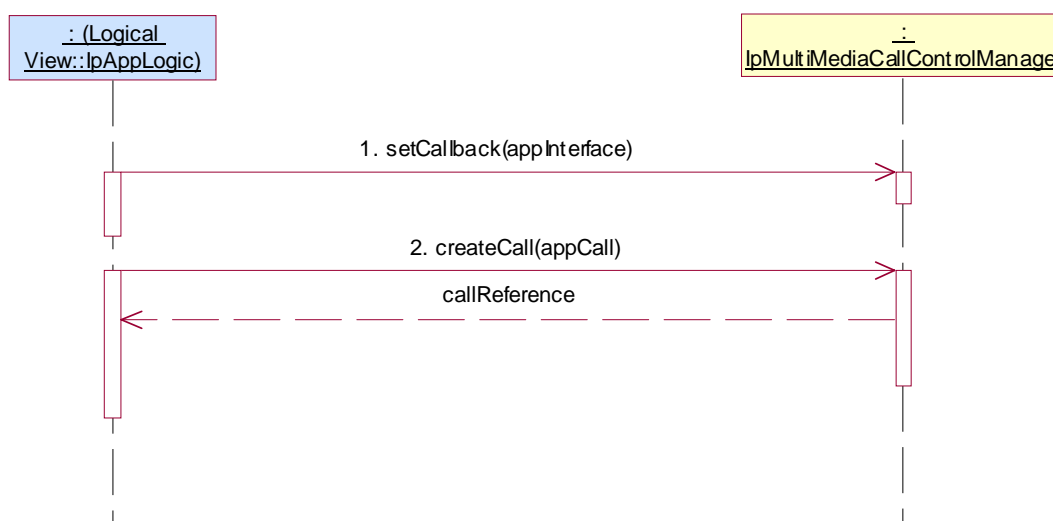
Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: createCall method is supported.

Test Sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
 Parameters: valid, non-null, value of appInterface parameter
 Check: no exception is returned
2. Method call **createCall()**
 Parameters: valid appCall
 Check: valid value of TpMultiMediaCallIdentifier is returned



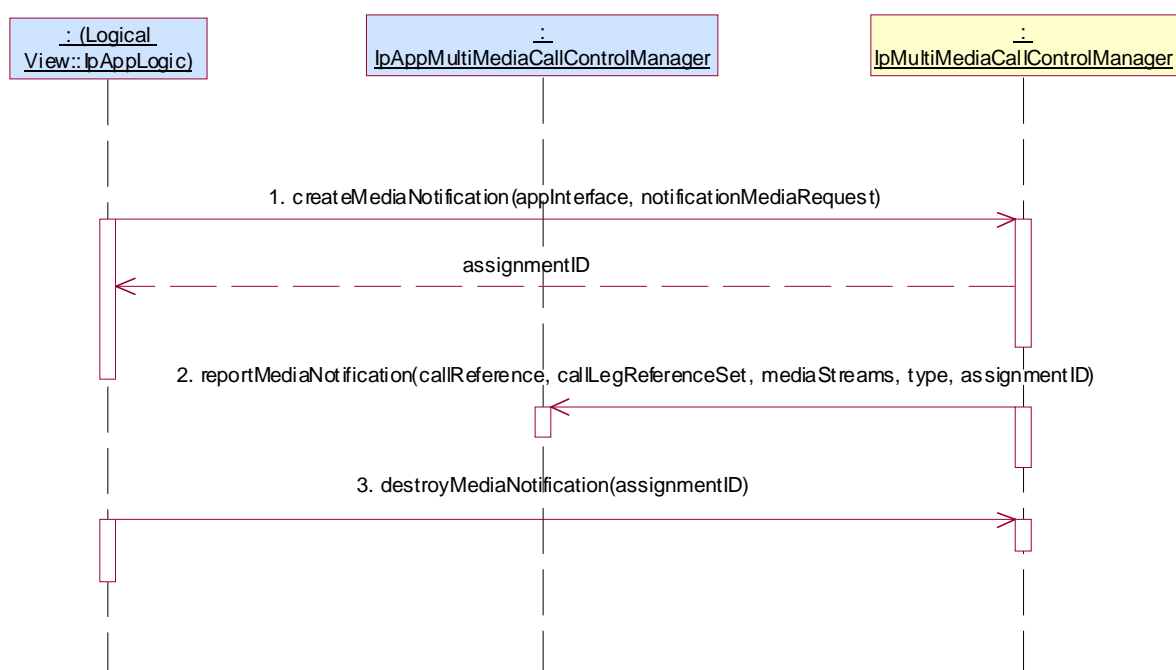
Test MMCC_IpMultiMediaCallControlManager_04

Summary: IpMultiMediaCallControlManager, all methods mandatory, successful

Reference: ES 201 915-4 [1], clause 8.3.1

Test Sequence:

1. Method call **createMediaNotification()**
Parameters: valid appInterface, valid notificationMediaRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportMediaNotification()** method on the tester's (application) **IpAppMultiMediaCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **destroyMediaNotification()**
Parameters: valid assignmentID returned in 1.
Check: no exception is returned



5.2.3.1.2 Mandatory, invalid behaviour

Test MMCC_IpMultiMediaCallControlManager_05

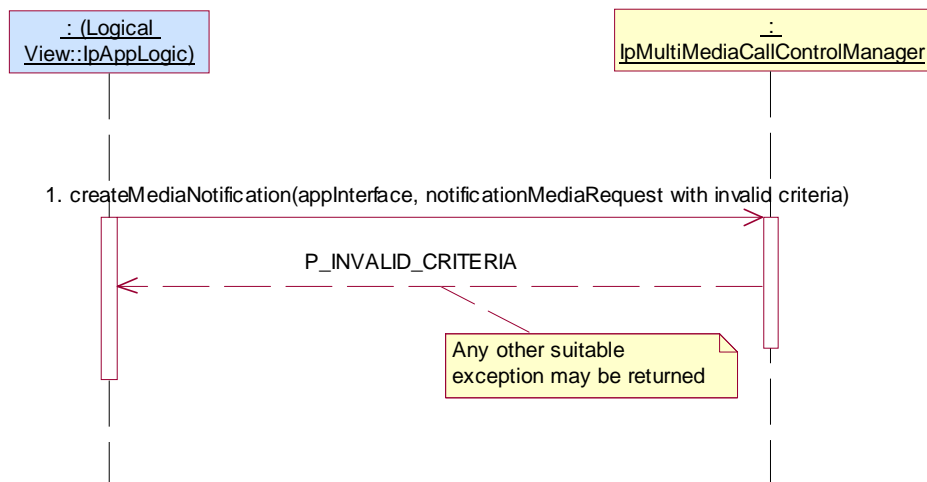
Summary: IpMultiMediaCallControlManager, createMediaNotification, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clause 8.3.1

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **createMediaNotification()**
 Parameters: valid appInterface, valid notificationMediaRequest with invalid criteria
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCallControlManager_06**

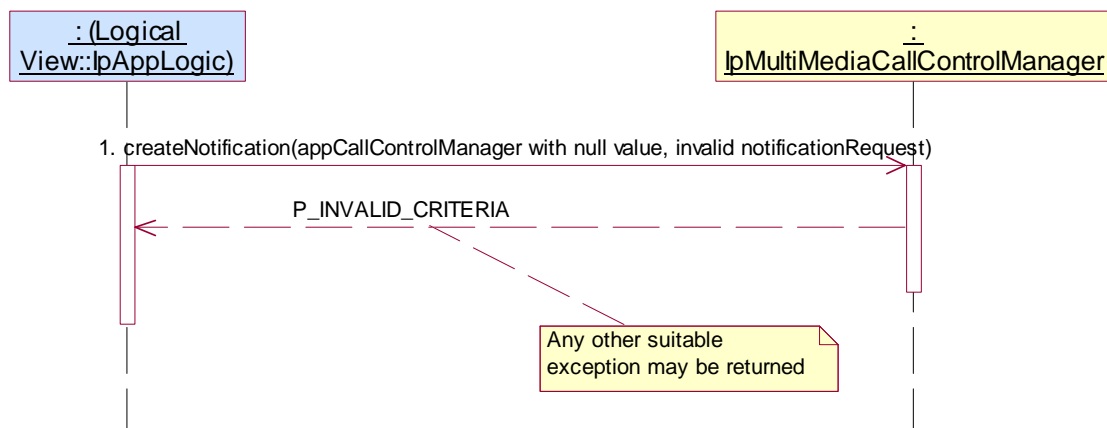
Summary: IpMultiMediaCallControlManager, createNotification, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification method is supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with null value, invalid notificationRequest
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallControlManager_07

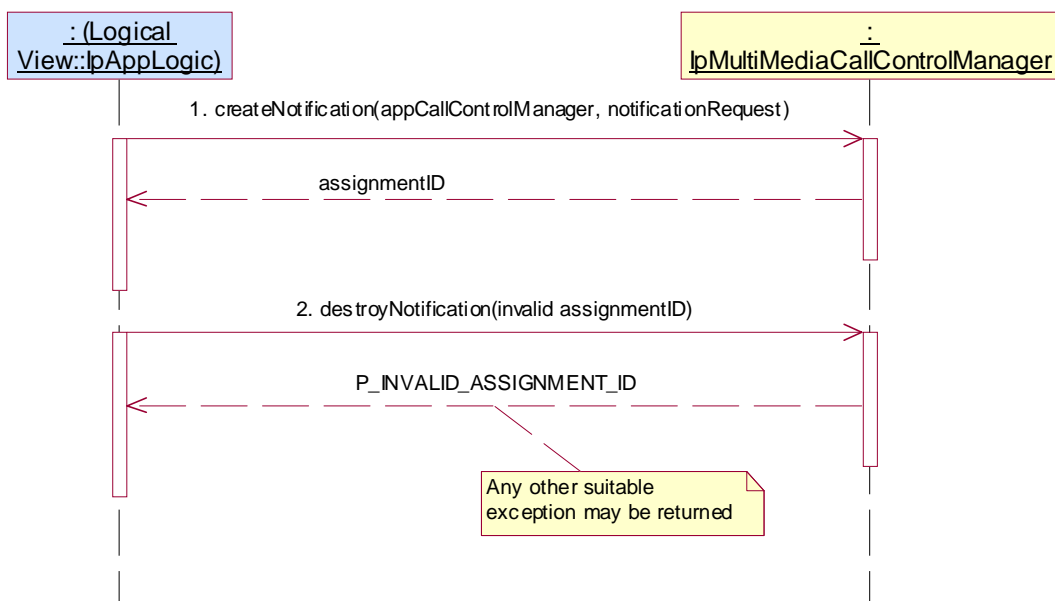
Summary: IpMultiMediaCallControlManager, destroyNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification, destroyNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **destroyNotification()**
 Parameters: invalid assignmentID
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallControlManager_08

Summary: IpMultiMediaCallControlManager, createCall, P_INVALID_INTERFACE_TYPE

Reference: ES 201 915-4 [1], clause 7.3.1

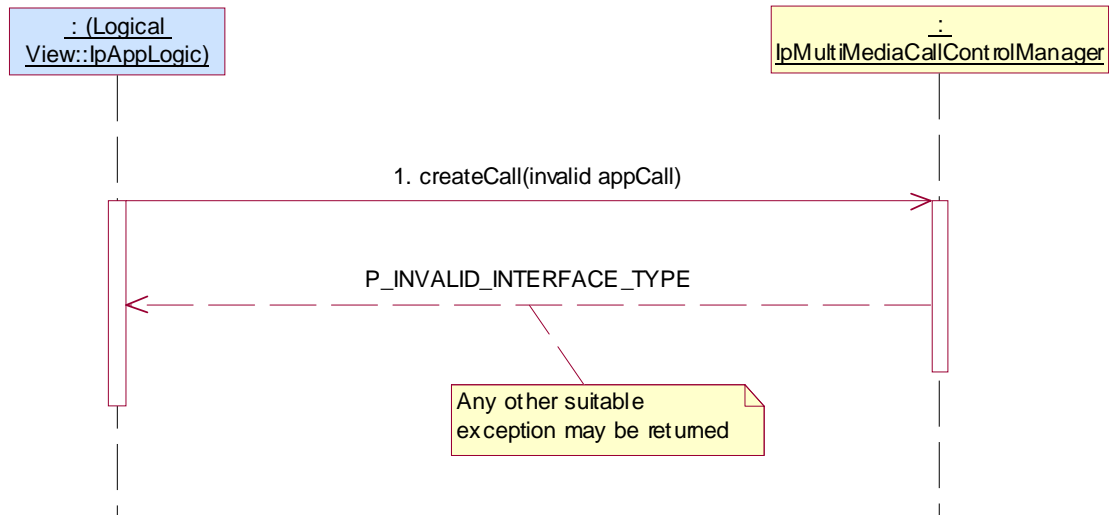
Condition: createCall method is supported.

Test Sequence:

1. Method call **createCall()**

Parameters: invalid value of appCall

Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



5.2.3.1.3 Optional, valid behaviour

Test MMCC_IpMultiMediaCallControlManager_09

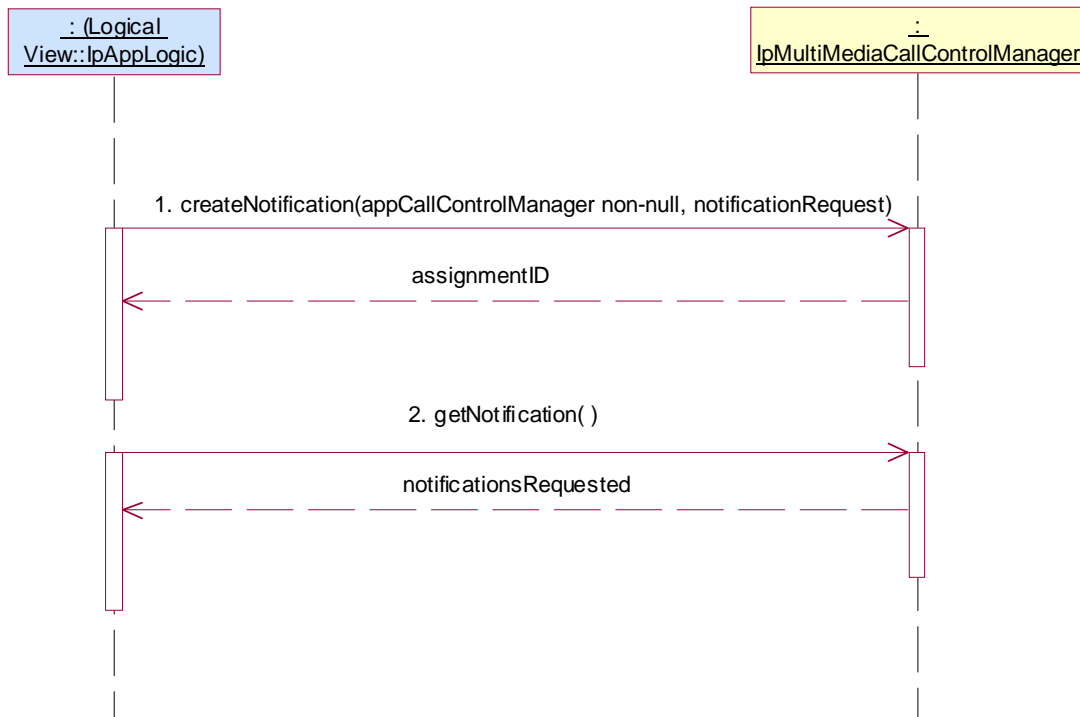
Summary: IpMultiMediaCallControlManager, getNotification, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification and getNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **getNotification()**
 Parameters: None
 Check: valid value of TpNotificationRequestedSet is returned where notificationRequest given in 1. is included as a value of this TpCallEventCriteriaResult



Test MMCC_IpMultiMediaCallControlManager_10

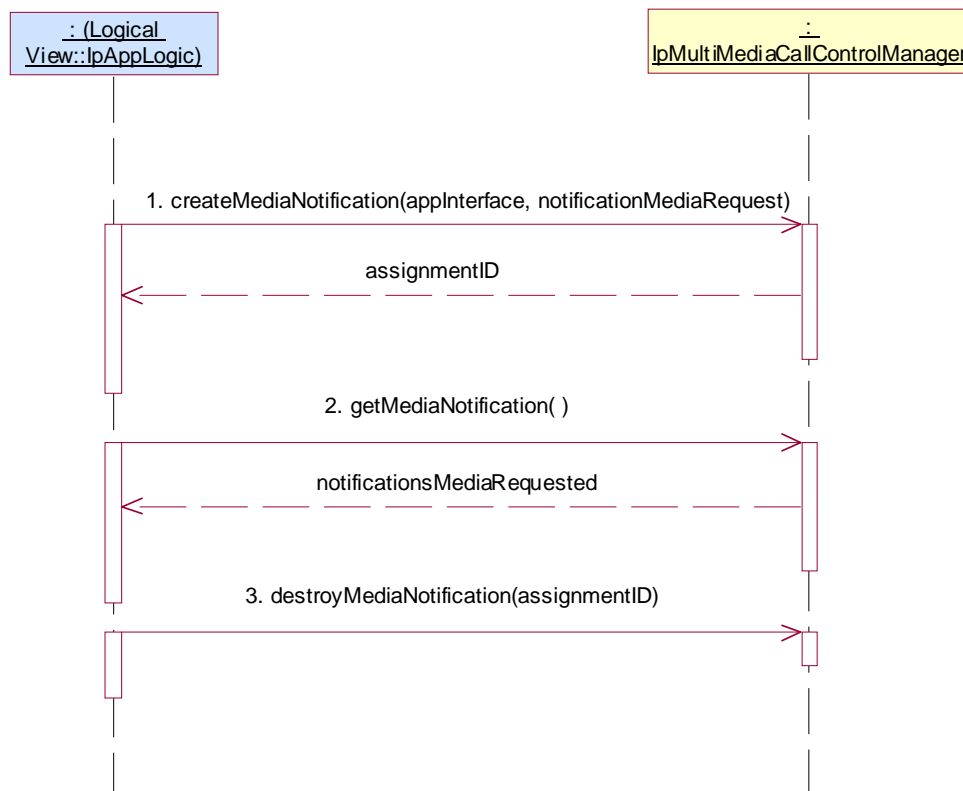
Summary: IpMultiMediaCallControlManager, getMediaNotification, successful

Reference: ES 201 915-4 [1], clause 8.3.1

Condition: getMediaNotification method is supported.

Test Sequence:

1. Method call **createMediaNotification()**
Parameters: valid appInterface, valid notificationMediaRequest
Check: valid value of TpAssignmentID is returned
2. Method call **getMediaNotification()**
Parameters: None
Check: valid value of TpMediaNotificatioRequestedSet is returned with values of notificationMediaRequest given in 1.
3. Method call **destroyMediaNotification()**
Parameters: valid assignmentID returned in 1.
Check: no exception is returned



Test MMCC_IpMultiMediaCallControlManager _11

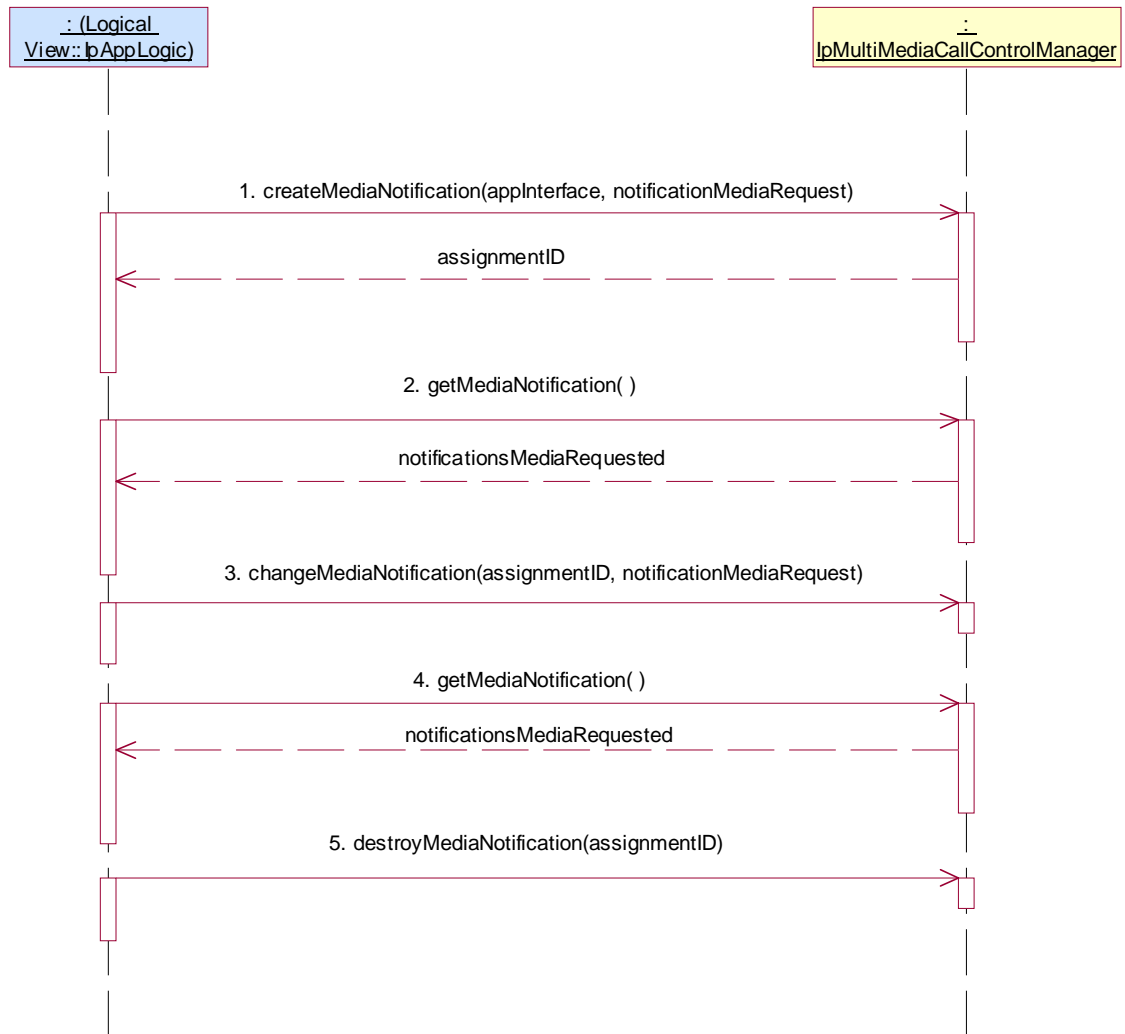
Summary: IpMultiMediaCallControlManager, changeMediaNotification, successful

Reference: ES 201 915-4 [1], clause 8.3.1

Condition: getMediaNotification and changeMediaNotification methods are supported.

Test Sequence:

1. Method call **createMediaNotification()**
Parameters: valid appInterface, valid notificationMediaRequest
Check: valid value of TpAssignmentID is returned
2. Method call **getMediaNotification()**
Parameters: None
Check: valid value of TpMediaNotificatioRequestedSet is returned with values of notificationMediaRequest given in 1.
3. Method call **changeMediaNotification()**
Parameters: valid assignmentID returned in 1., valid notificationMediaRequest with different values from notificationMediaRequest given in 1.
Check: no exception is returned
4. Method call **getMediaNotification()**
Parameters: None
Check: valid value of TpMediaNotificatioRequestedSet is returned with values of notificationMediaRequest given in 3.
5. Method call **destroyMediaNotification()**
Parameters: valid assignmentID returned in 1.
Check: no exception is returned



Test MMCC_IpMultiMediaCallControlManager_12

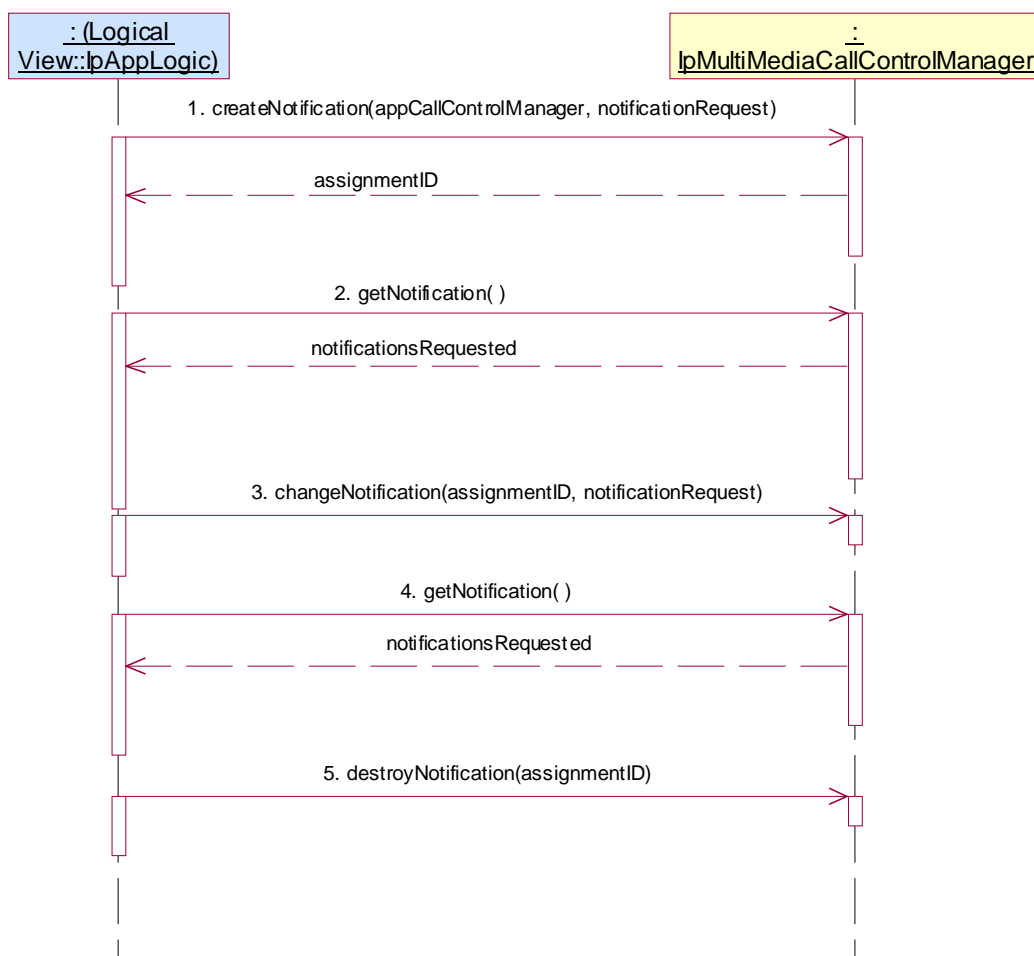
Summary: IpMultiMediaCallControlManager, changeNotification, successful

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification, getNotification and changeNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Method call **getNotification()**
Parameters: None
Check: valid value of TpNotificationRequestedSet is returned where notificationRequest given in 1. is included as a value of this TpCallEventCriteriaResult
3. Method call **changeNotification()**
Parameters: assignmentID returned in 1., valid notificationRequest different from this given in 1.
Check: no exception is returned
4. Method call **getNotification()**
Parameters: None
Check: valid value of TpNotificationRequestedSet is returned where notificationRequest given in 1. is included as a value of this TpCallEventCriteriaResult
5. Method call **destroyNotification()**
Parameters: assignmentID returned in 1.
Check: no exception is returned



Test MMCC_IpMultiMediaCallControlManager_13

Summary: IpMultiMediaCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Condition: createNotification, callOverLoadEncountered and callOverLoadCeased methods are supported.

Test Sequence:

1. Method call createNotification()
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Method call setCallLoadControl()
Parameters: valid duration, valid mechanism, valid treatment, valid addressRange
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call reportNotification() numerous times during the following sequence, and attempt to provoke an overload condition and then remove it.
4. Triggered action: cause IUT to call callOverLoadEncountered() method on the tester's (Application) IpAppMultiMediaCallControlManager interface.
Parameters: valid assignmentID returned in 2.
5. Triggered action: cause IUT to call **callOverLoadCeased()** method on the tester's (Application) **IpAppMultiMediaCallControlManager** interface.
Parameters: valid assignmentID returned in 2.



Test MMCC_IpMultiMediaCallControlManager_14

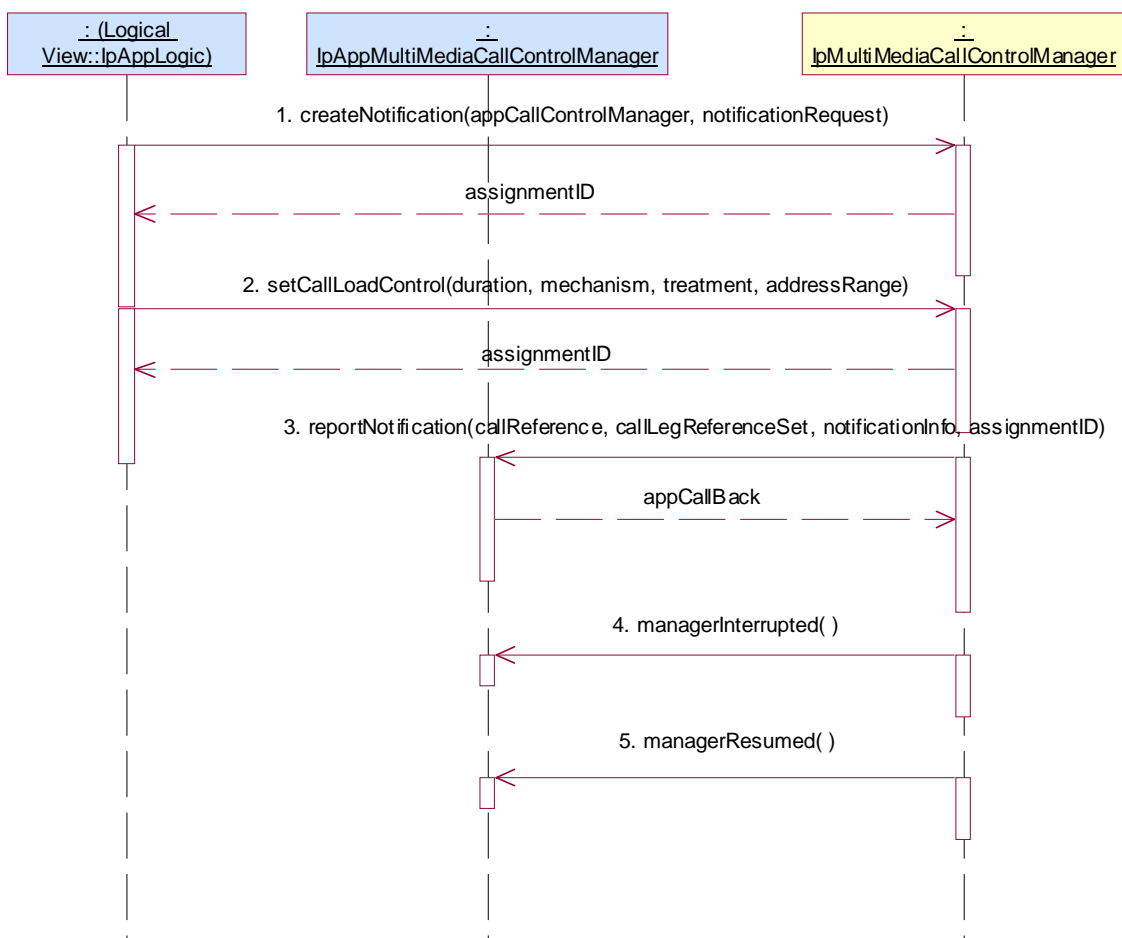
Summary: IpMultiMediaCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clause 7.3.1 and 8.3.1

Condition: createNotification, setCallLoadControl methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Method call **setCallLoadControl()**
Parameters: valid duration, valid mechanism, valid treatment, valid addressRange
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call **reportNotification()** method on the tester's (Application) **IpAppMultiMediaCallControlManager** interface.
4. Triggered action: cause IUT to call **managerInterrupted()** method on the tester's (Application) **IpAppMultiMediaCallControlManager** interface.
Parameters: None
5. Triggered action: cause IUT to call **managerResumed()** method on the tester's (Application) **IpAppMultiMediaCallControlManager** interface.
Parameters: None



Test MMCC_ IpMultiMediaCallControlManager _15

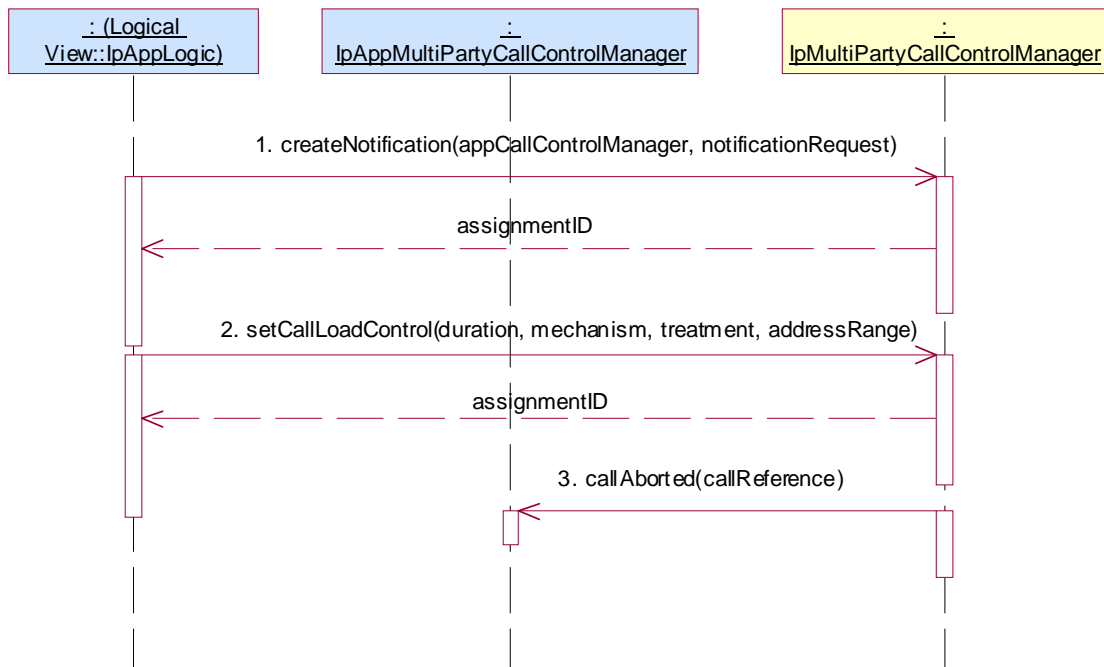
Summary: IpMultiMediaCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Condition: createNotification and callAborted methods are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **reportNotification()** method on the tester's (Application) **IpAppMultiMediaCallControlManager** interface.
3. Triggered action: cause IUT to call **callAborted()** method on the tester's (Application) **IpAppMultiMediaCallControlManager** interface.
Parameters: valid assignmentID as reported in reportNotification.



5.2.3.1.4 Optional, invalid behaviour

Test MMCC_IpMultiMediaCallControlManager_16

Summary: IpMultiMediaCallControlManager, changeMediaNotification, P_INVALID_CRITERIA

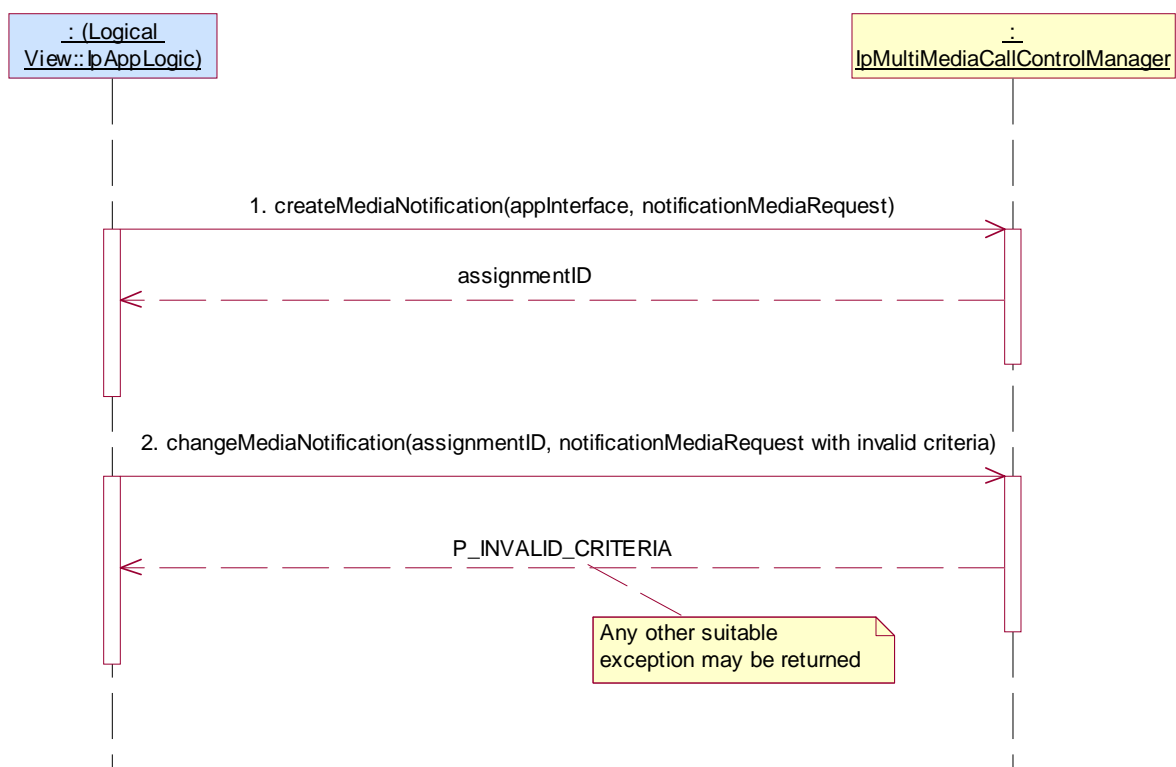
Reference: ES 201 915-4 [1], clause 8.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: changeMediaNotification method is supported.

Test Sequence:

1. Method call **createMediaNotification()**
 Parameters: valid appInterface, valid notificationMediaRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **changeMediaNotification()**
 Parameters: valid assignmentID returned in 1., valid notificationMediaRequest with invalid criteria
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallControlManager_17

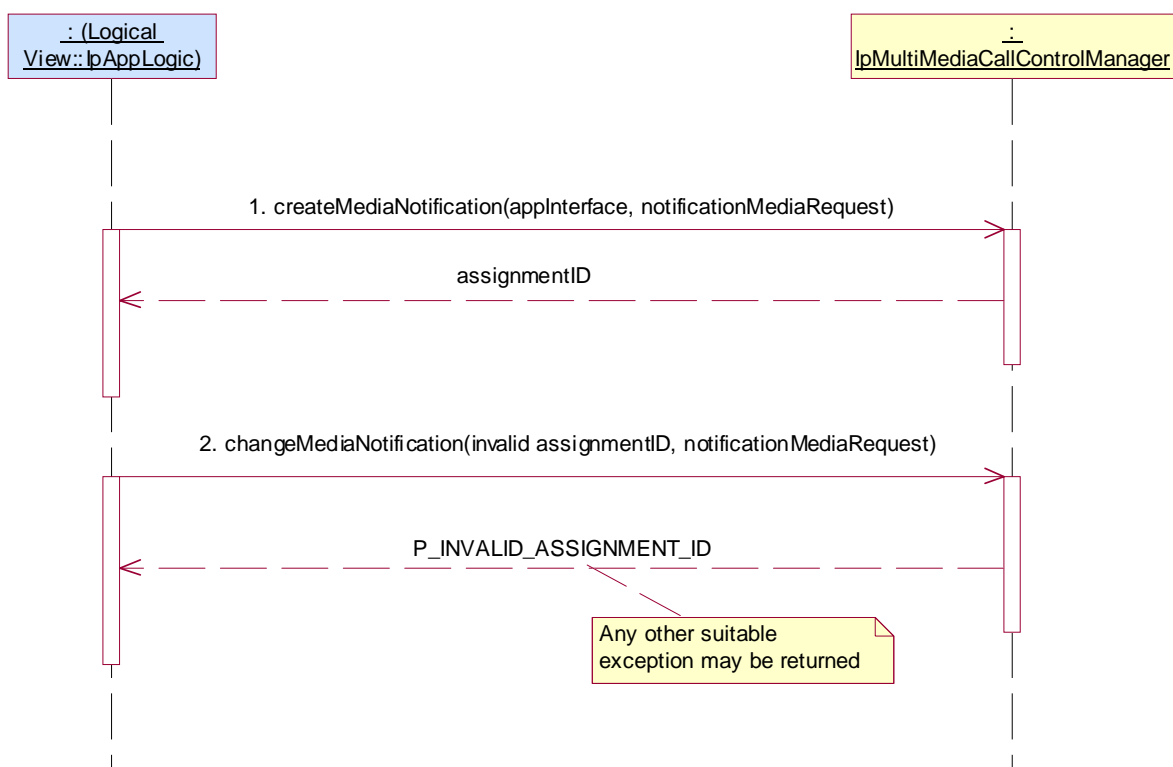
Summary: IpMultiMediaCallControlManager, changeMediaNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 8.3.1

Condition: createNotification, changeMediaNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **changeMediaNotification()**
 Parameters: invalid assignmentID, valid notificationMediaRequest
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallControlManager_18

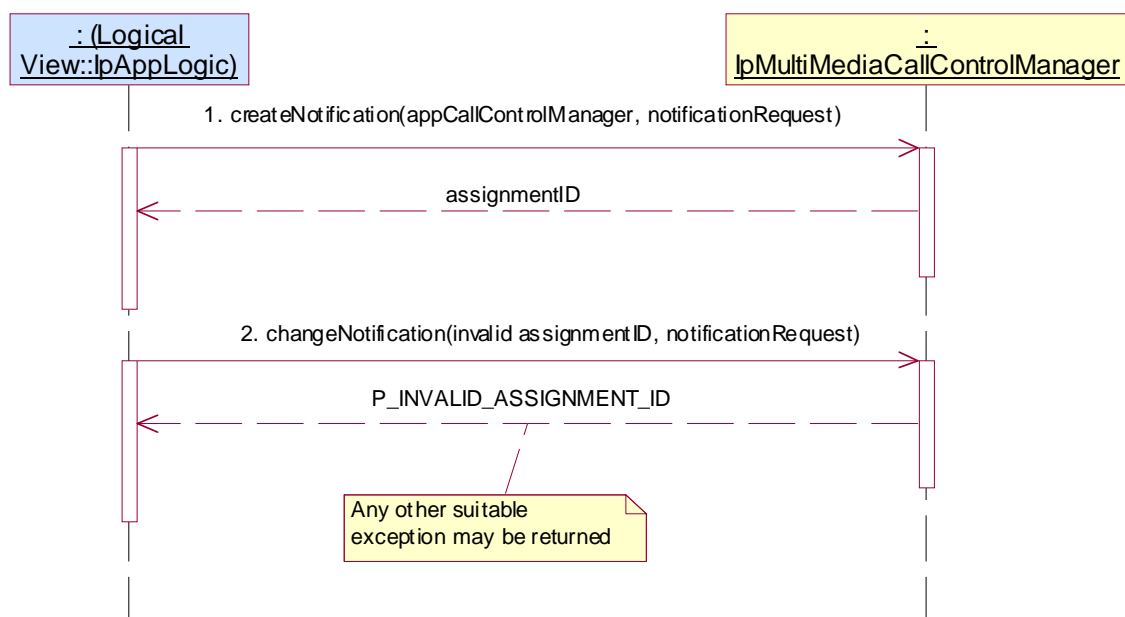
Summary: IpMultiMediaCallControlManager, changeNotification, P_INVALID_ASSIGNMENT_ID

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification, changeNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **changeNotification()**
 Parameters: invalid assignmentID, valid notificationRequest
 Check: P_INVALID_ASSIGNMENT_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallControlManager_19

Summary: IpMultiMediaCallControlManager, changeNotification, P_INVALID_CRITERIA

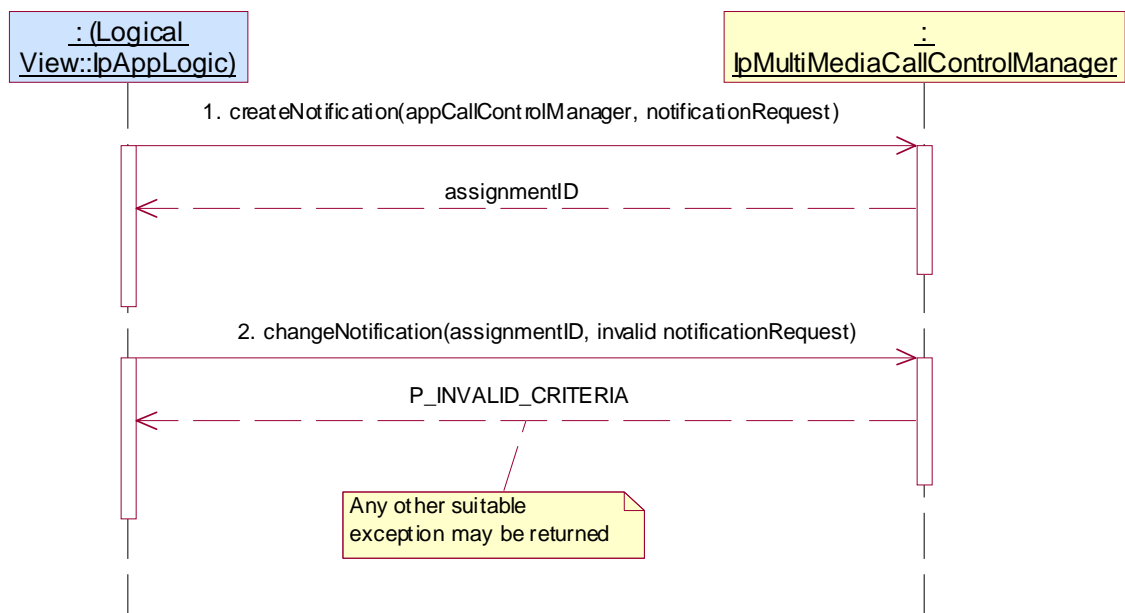
Reference: ES 201 915-4 [1], clause 7.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: createNotification and changeNotification methods are supported.

Test Sequence:

1. Method call **createNotification()**
 Parameters: appCallControlManager with null value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Method call **changeNotification()**
 Parameters: assignmentID returned in 1., invalid notificationRequest
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallControlManager _20

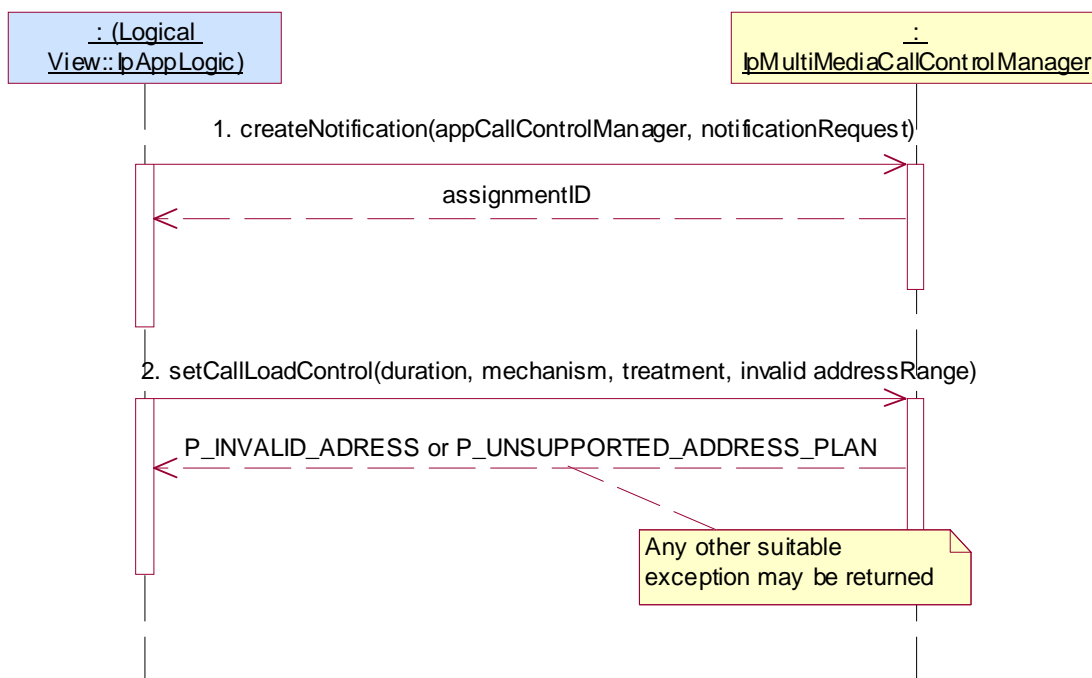
Summary: IpMultiMediaCallControlManager, setCallLoadControl, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clause 7.3.1

Condition: createNotification and setCallLoadControl are supported.

Test Sequence:

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, not null, value, valid eventCriteria
Check: valid value of TpAssignmentID is returned
2. Method call **setCallLoadControl()**
Parameters: valid duration, valid mechanism, valid treatment, invalid addressRange
Check: P_INVALID_ADDRESS, P_UNSUPPORTED_ADDRESS_PLAN or another suitable exception, is returned

**5.2.3.2 IpMultimediaCall****5.2.3.2.1 Mandatory, valid behaviour**

According Call Control SCF specification, at least one of the two following test sequence is mandatory.

Test MMCC_IpMultiMediaCall _01

Summary: IpMultiMediaCall, all methods mandatory, successful

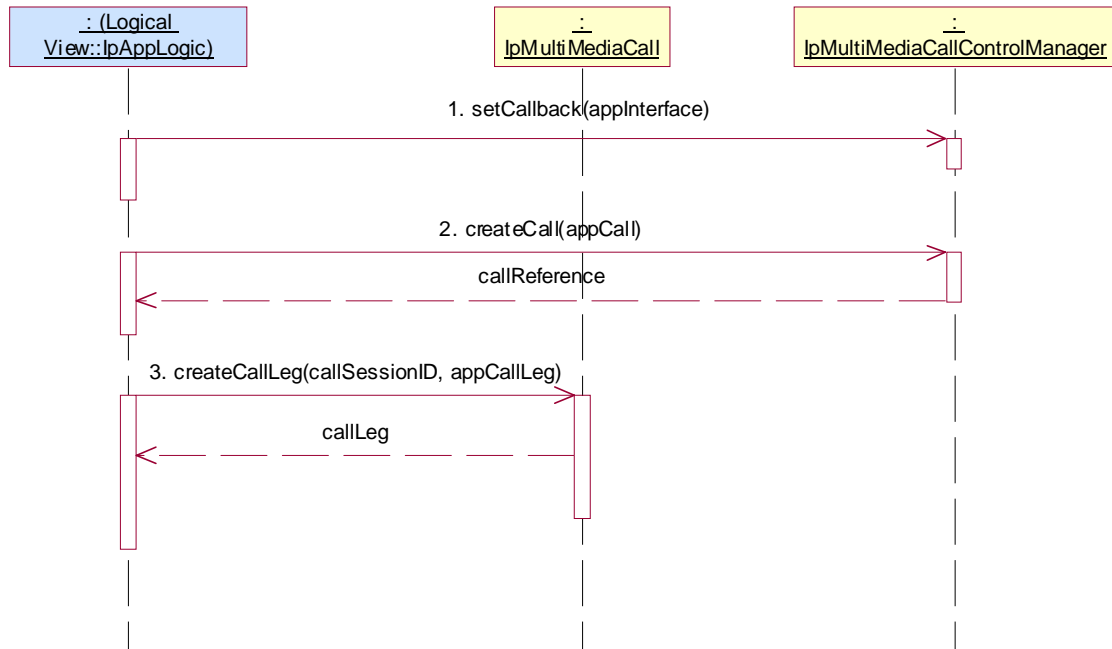
Reference: ES 201 915-4 [1], clause 7.3.1 and 7.3.3.

Condition: createCall, createCallLeg methods are supported.

Test Sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned

2. Method call **createCall()**
 Parameters: valid appCall
 Check: valid value of TpMultiMediaCallIdentifier is returned
3. Method call **createCallLeg()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 2., valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned



Test MMCC_IpMultiMediaCall_02

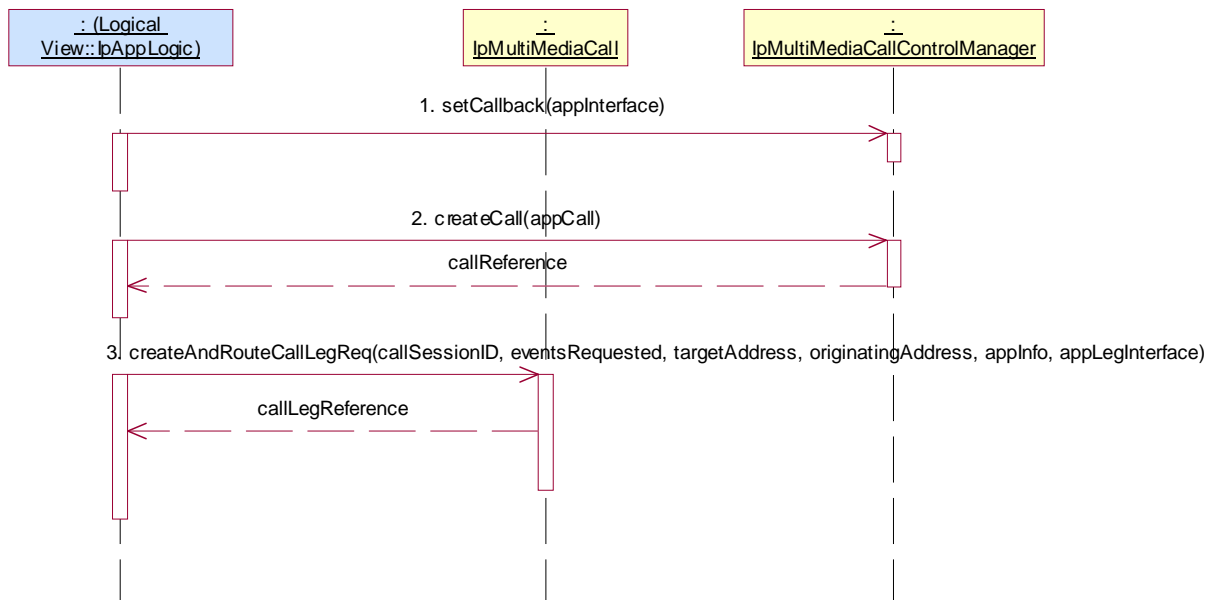
Summary: IpMultiMediaCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Condition: createCall, createAndRouteCallLeg method is supported.

Test Sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiMediaCallIdentifier is returned
3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier



Test MMCC_IpMultiMediaCall_03

Summary: IpMultiMediaCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the three following sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiMediaCallIdentifier is returned

either

3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application's) **IpMultiMediaCallControlManager** interface
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID

either

3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

or

1. Method call **createMediaNotification()**
Parameters: valid appInterface, valid notificationMediaRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportMediaNotification()** method on the tester's (application's) **IpMultiMediaCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID

either

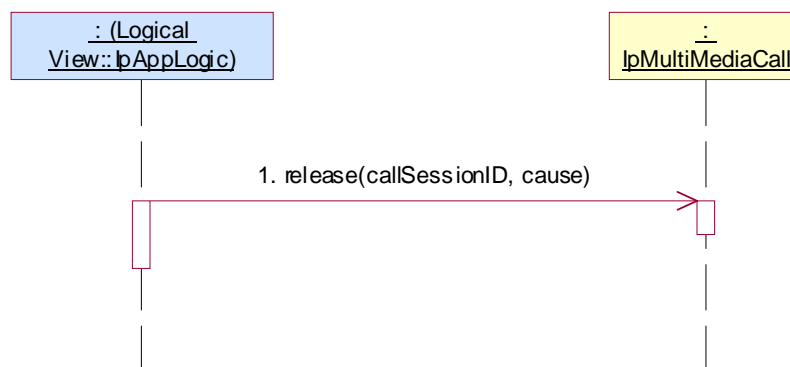
3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

Test Sequence:

1. Method call **release()** on IpMultiMediaCall
Parameters: valid callSessionID returned in preamble, valid cause
Check: no exception is returned



Test MMCC_IpMultiMediaCall_04

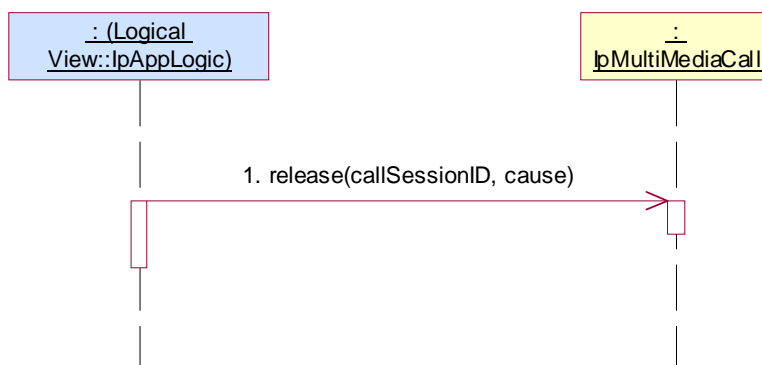
Summary: IpMultiMediaCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **deassignCall()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in preamble.
 Check: no exception is returned

**5.2.3.2.2 Mandatory, invalid behaviour****Test MMCC_IpMultiMediaCall_05**

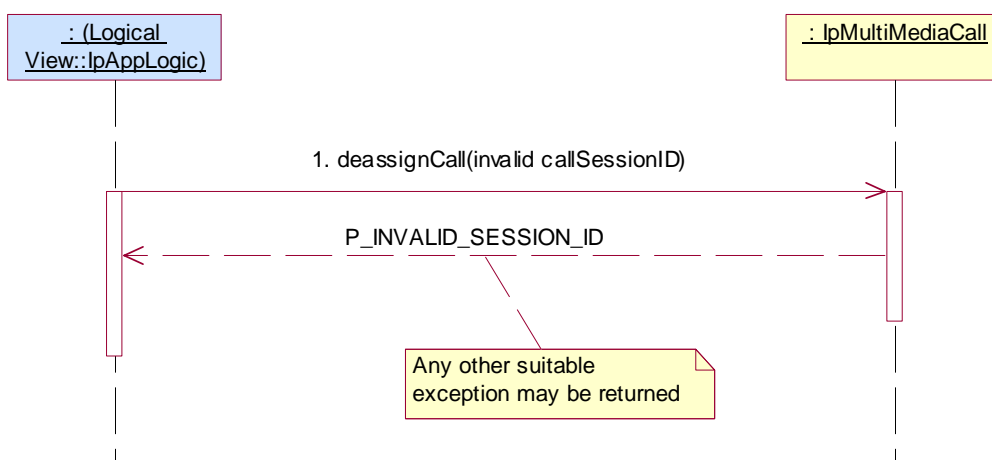
Summary: IpMultiMediaCall, deassignCall, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **deassignCall()** on IpMultiMediaCall
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_06

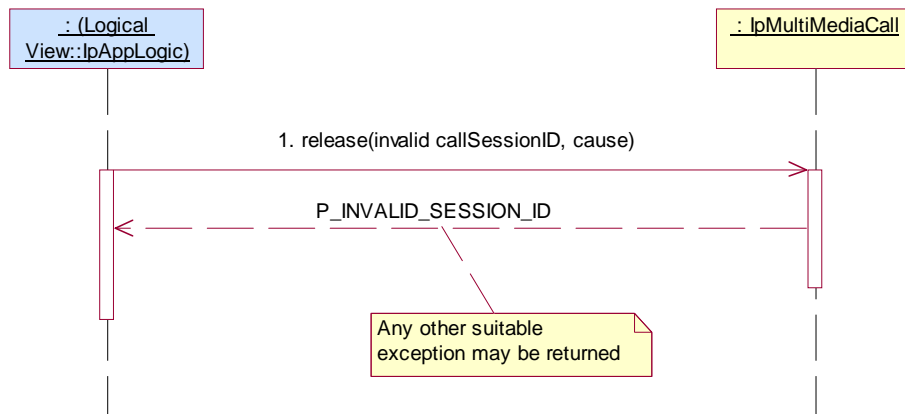
Summary: IpMultiMediaCall, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **release()** on IpMultiMediaCall
Parameters: invalid callSessionID, valid cause
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCall_07**

Summary: IpMultiMediaCall, createCallLeg, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiPartyCallIdentifier is returned

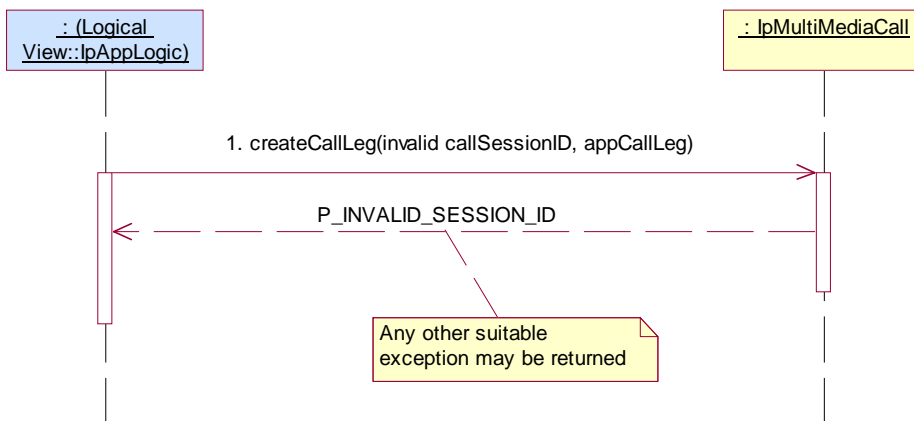
or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application)
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID

Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: invalid callSessionID, valid appCallLeg
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_08

Summary: IpMultiMediaCall, createCallLeg, P_INVALID_INTERFACE_TYPE

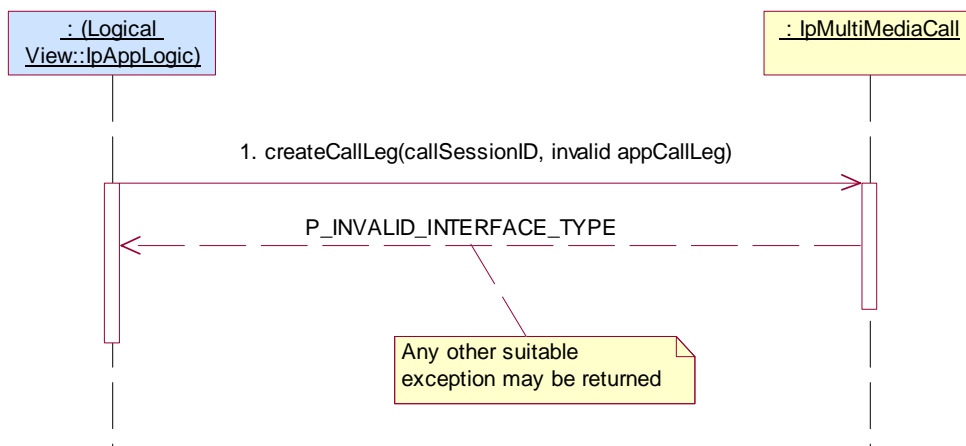
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3

Preamble: Same as MMCC_IpMultiMediaCall_07

Condition: CreateCallLeg method is supported.

Test Sequence:

1. Method call **createCallLeg()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in preamble, invalid appCallLeg
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_09

Summary: IpMultiMediaCall, createAndRouteCallLegReq, P_INVALID_SESSION_ID

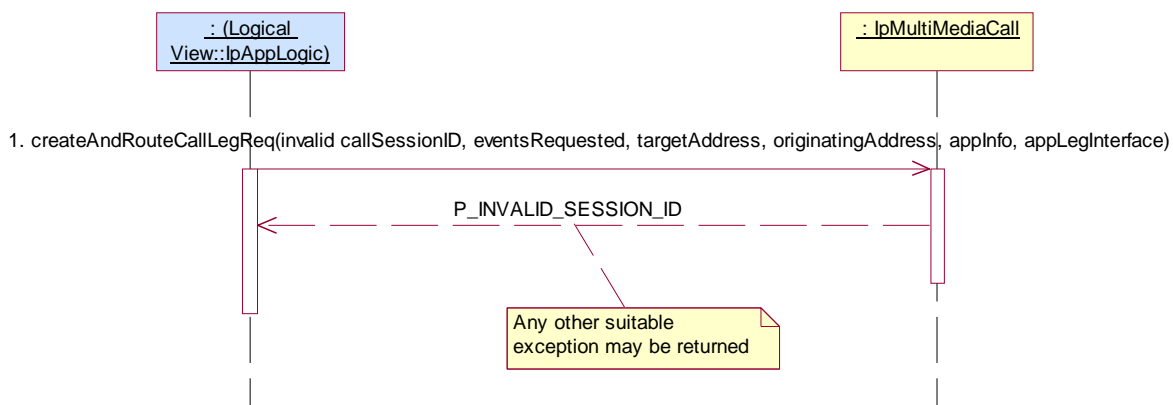
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_07

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: invalid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCall_10**

Summary: IpMultiMediaCall, createAndRouteCallLegReq, P_INVALID_INTERFACE_TYPE

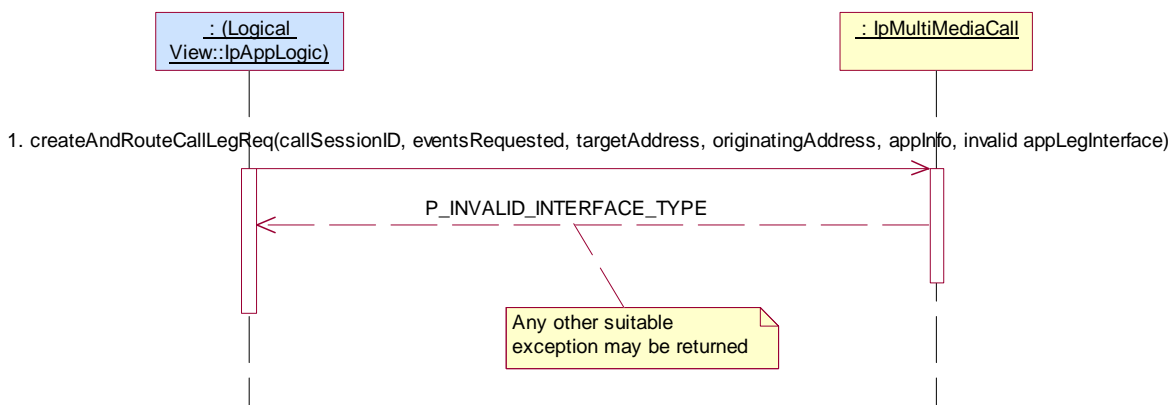
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_07

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, invalid appLegInterface
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_11

Summary: IpMultiMediaCall, createAndRouteCallLegReq, P_INVALID_ADDRESS

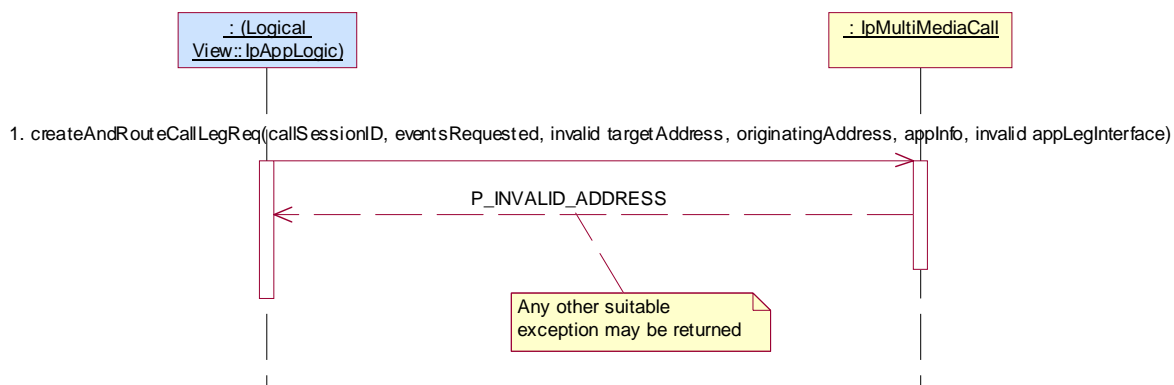
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_07

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: valid callSessionID, valid eventsRequested, invalid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCall_12**

Summary: IpMultiMediaCall, createAndRouteCallLegReq, P_INVALID_ADDRESS

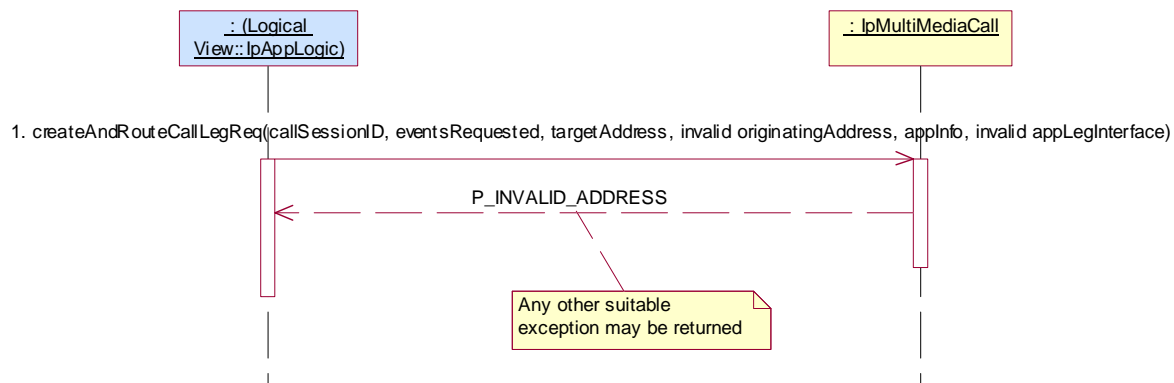
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_07

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, invalid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_13

Summary: IpMultiMediaCall, createAndRouteCallLegReq, P_INVALID_CRITERIA

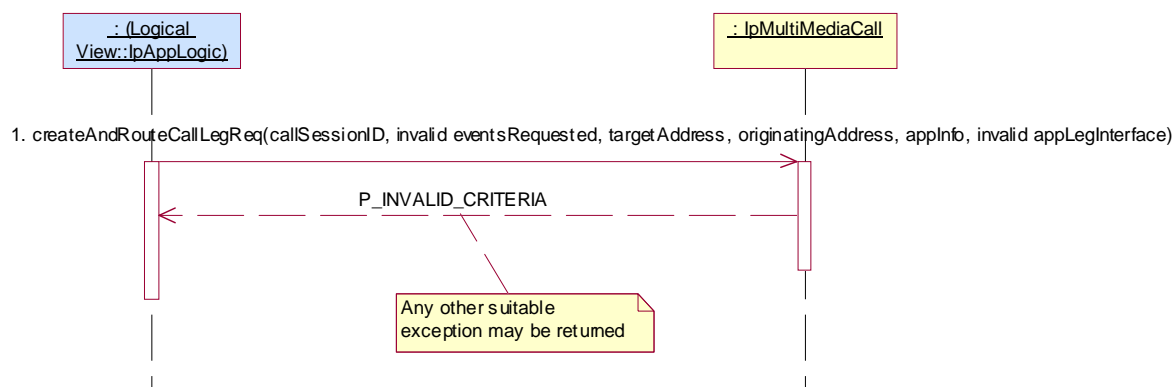
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_07

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

1. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: valid callSessionID, invalid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned

**5.2.3.2.3 Optional, valid behaviour****Test MMCC_IpMultiMediaCall_14**

Summary: IpMultiMediaCall, all methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
 Parameters: valid, non-null, value of appInterface parameter
 Check: no exception is returned
2. Method call **createCall()**
 Parameters: valid appCall
 Check: valid value of TpMultiPartyCallIdentifier is returned
3. Method call **createCallLeg()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 2., valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned

or

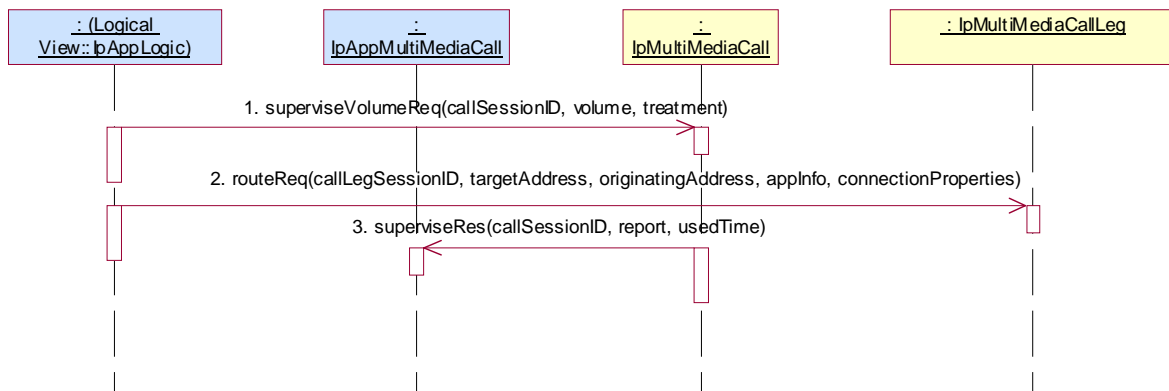
1. Method call **createNotification()**
 Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application) **IpAppMultiMediaCallControlManager interface**
 Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID

3. Method call **createCallLeg()** on IpMultiMediaCall
 Parameters: valid callSessionID reported in 2., valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned

Condition: superviseVolumeReq method is supported.

Test Sequence:

1. Method call **superviseVolumeReq()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in preamble, valid volume, valid treatment
 Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned
3. Triggered action: cause IUT to call Method **superviseVolumeRes()** method on the tester's (application) **IpMultiMediaCall** interface.
 Parameters: callSessionID, report, usedVolume



Test MMCC_ IpMultiMediaCall _15

Summary: IpMultiMediaCall, getInfoReq, successful

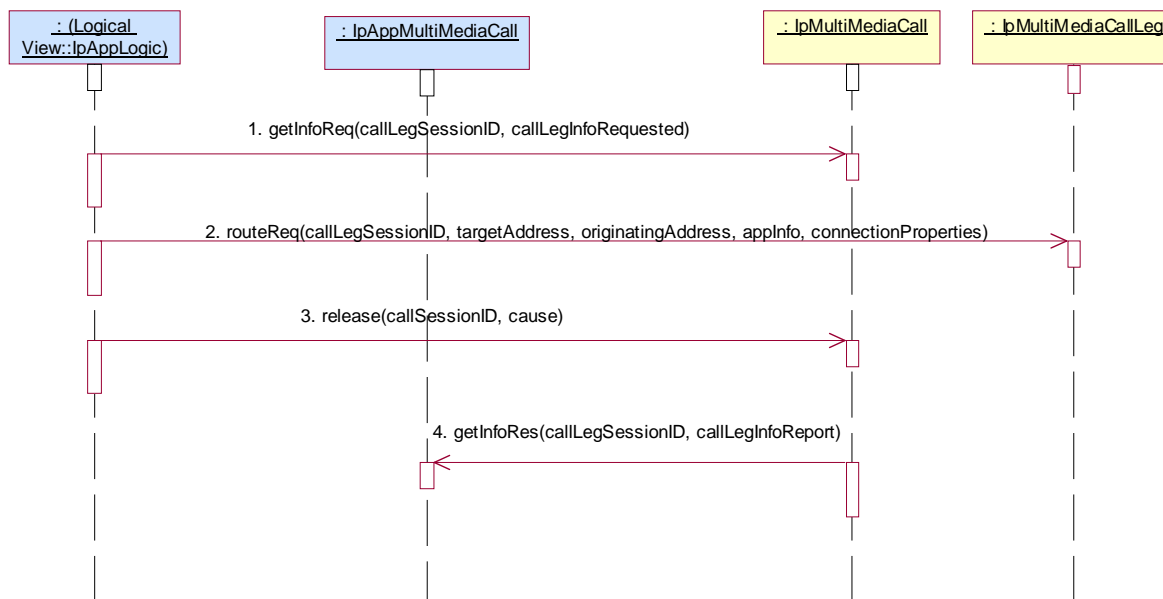
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_ IpMultiMediaCall _14

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()** on IpMultiMediaCall
Parameters: valid callSessionID returned in preamble, valid callInfoRequested
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Method call **release()** on IpMultiMediaCall
Parameters: valid callSessionID returned in preamble, valid cause
Check: no exception is returned
4. Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppMultiMediaCall** interface.
Parameters: callSessionID given in 1., valid callInfoReport.



Test MMCC_IpMultiMediaCall_16

Summary: IpMultiMediaCall, setChargePlan, successful

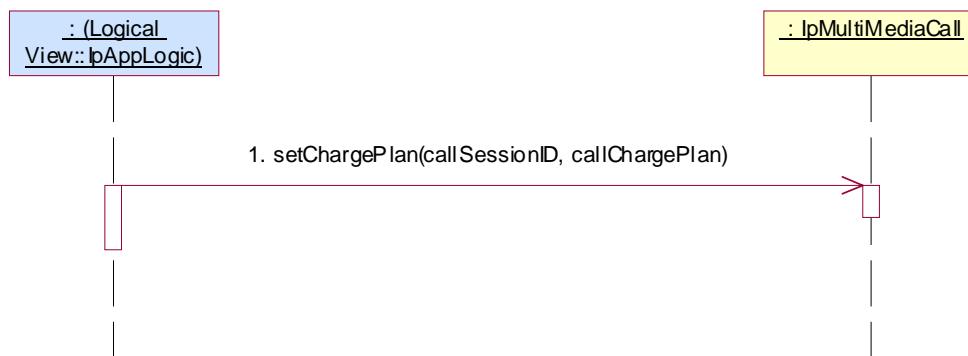
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

1. Method call **setChargePlan()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in preamble, valid callChargePlan
 Check: no exception is returned

**Test MMCC_IpMultiMediaCall_17**

Summary: IpMultiMediaCall, setAdviceOfCharge, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 1., valid aOCInfo, valid tariffSwitch
 Check: no exception is returned



Test MMCC_IpMultiMediaCall_18

Summary: IpMultiMediaCall, superviseReq, successful

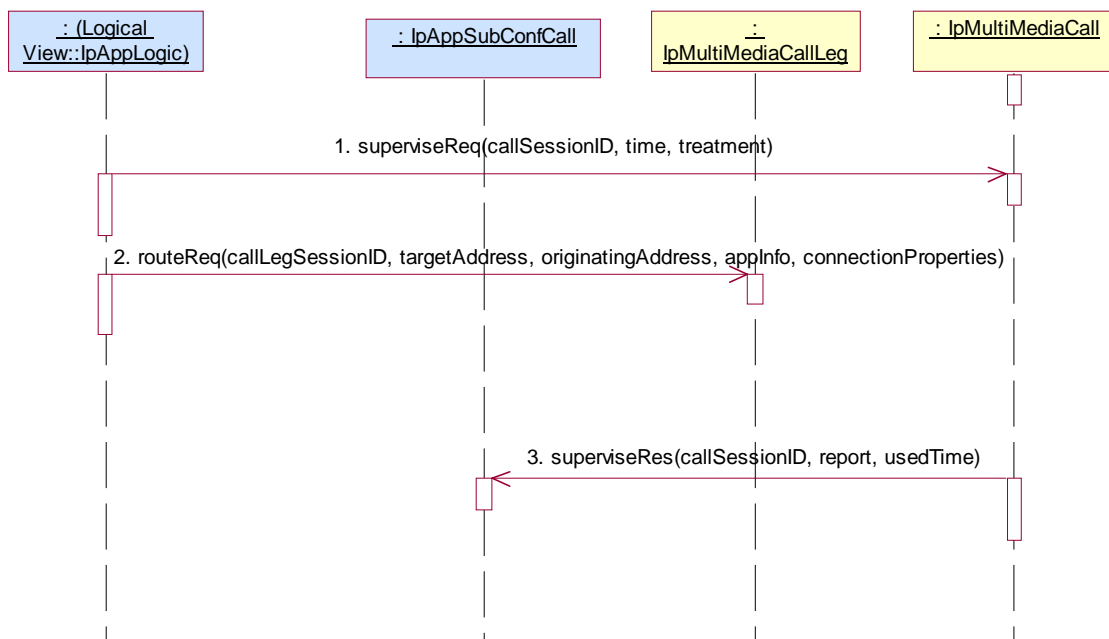
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

1. Method call **superviseReq()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in preamble, valid time, valid treatment
 Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned
3. Triggered action: cause IUT to call **superviseRes()** method on the tester's (Application) **IpAppMultiMediaCall** interface.
 Parameters: callSessionID given in 1., valid report, valid usedTime.



Test MMCC_IpMultiMediaCall_19

Summary: IpMultiMediaCall, all methods, successful

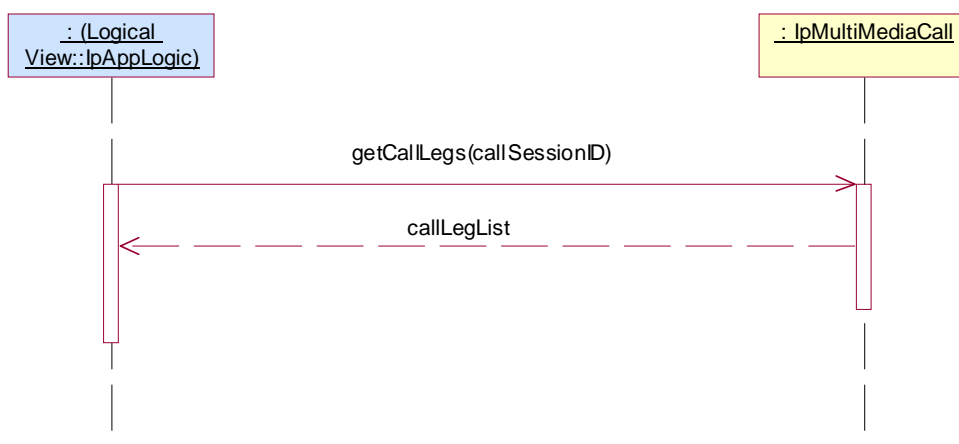
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_03

Condition: getCallLegs method is supported.

Test Sequence:

1. Method call **getCallLegs()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in preamble.
 Check: valid value of TpCallLegIdentifierSet which contains CallLegIdentifier returned in preamble.



5.2.3.2.4 Optional, invalid behaviour

Test MMCC_IpMultiMediaCall_20

Summary: IpMultiMediaCall, superviseVolumeReq, P_INVALID_SESSION_ID

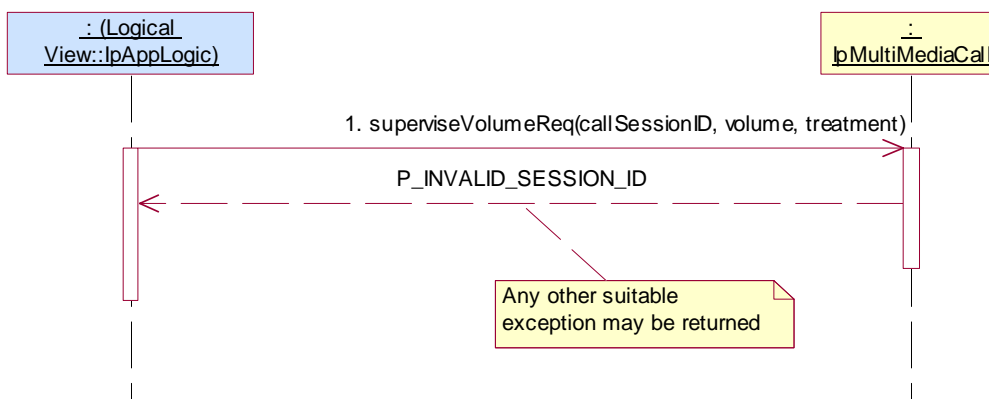
Reference: ES 201 915-4 [1], clause 8.3.1

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: superviseVolumeReq method is supported.

Test Sequence:

1. Method call **superviseVolumeReq()** on IpMultiMediaCall
 Parameters: invalid callSessionID, valid volume, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_21

Summary: IpMultiMediaCall, getInfoReq, P_INVALID_SESSION_ID

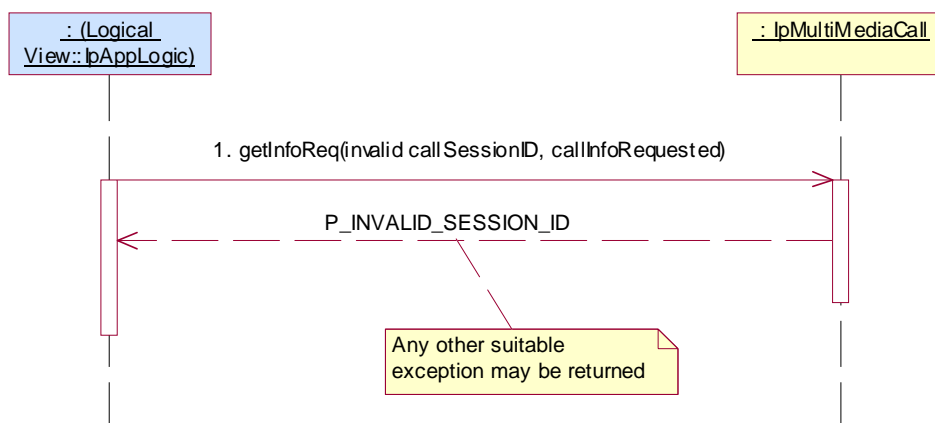
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()** on IpMultiMediaCall
 Parameters: invalid callSessionID, valid callInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCall_22**

Summary: IpMultiMediaCall, setChargePlan, P_INVALID_SESSION_ID

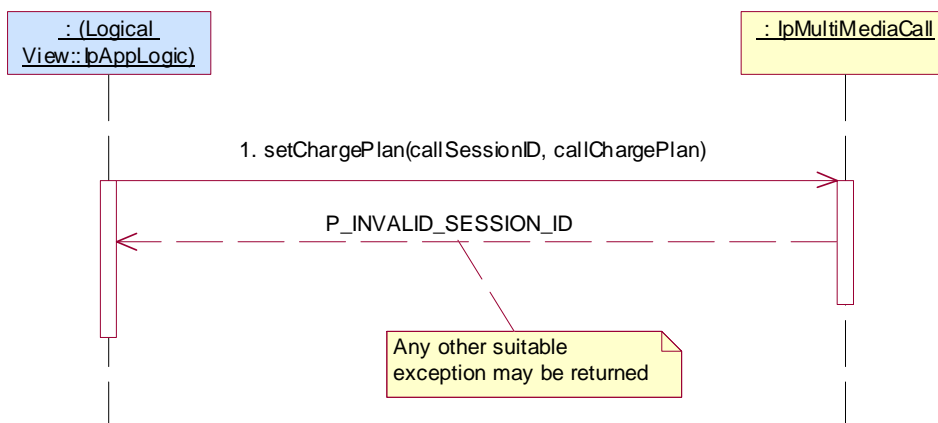
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

1. Method call **setChargePlan()** on IpMultiMediaCall
 Parameters: invalid callSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_23

Summary: IpMultiMediaCall, setAdviceOfCharge, P_INVALID_SESSION_ID

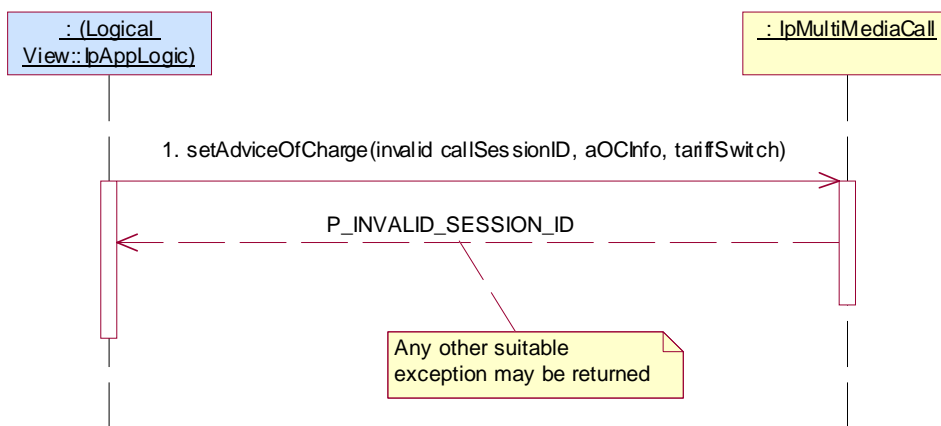
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCall
 Parameters: invalid callSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_24

Summary: IpMultiMediaCall, setAdviceOfCharge, P_INVALID_CURRENCY

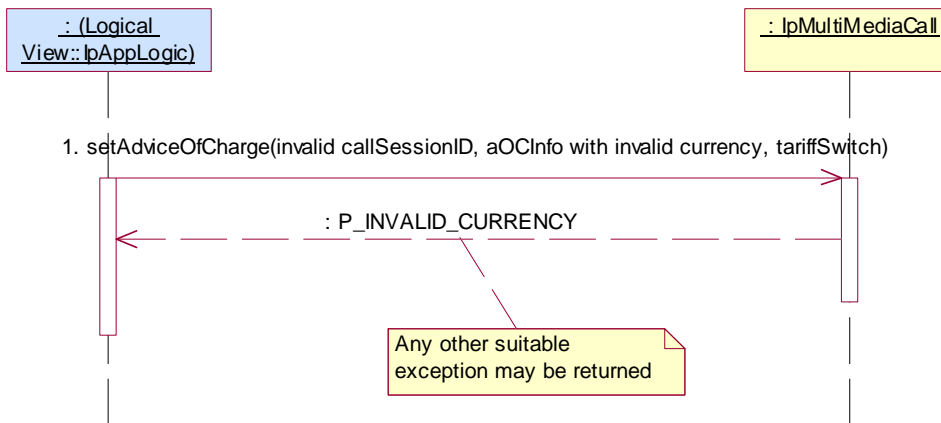
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 1., aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_25

Summary: IpMultiMediaCall, setAdviceOfCharge, P_INVALID_AMOUNT

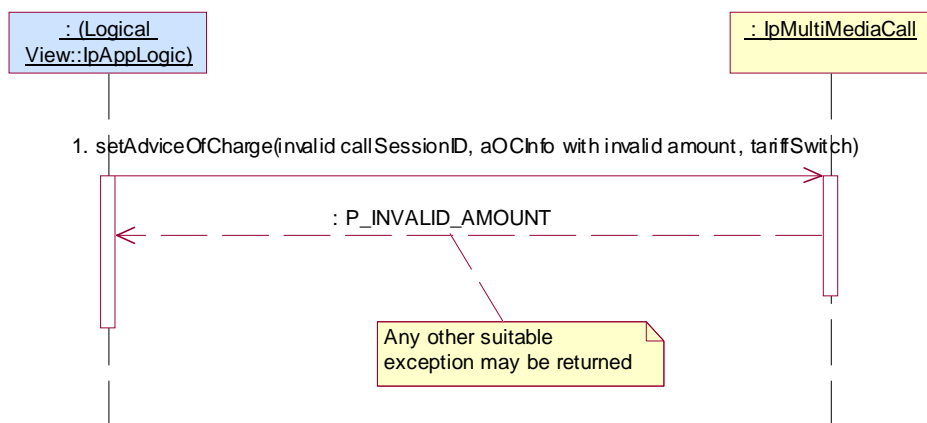
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 1., aOCInfo, with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCall_26**

Summary: IpMultiMediaCall, superviseReq, P_INVALID_SESSION_ID

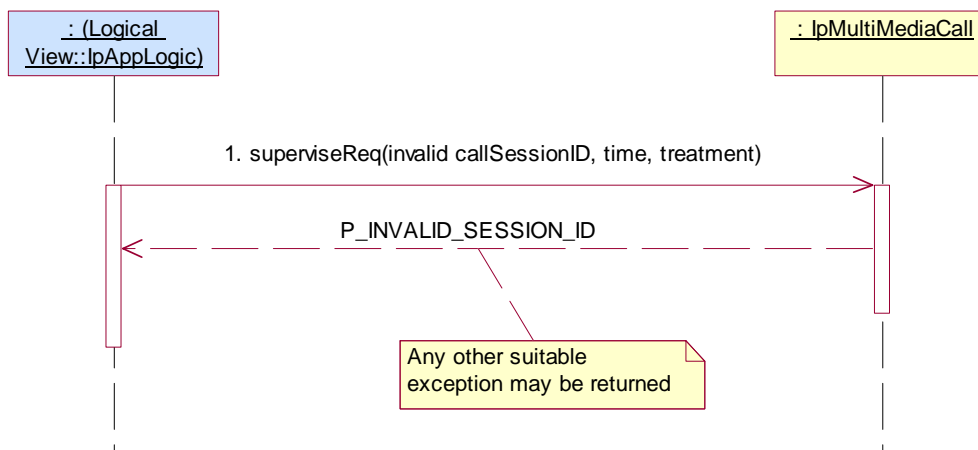
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_14

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

- Method call **superviseReq()** on IpMultiMediaCall
 Parameters: invalid callSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCall_27

Summary: IpMultiMediaCall, getCallLegs, P_INVALID_SESSION_ID

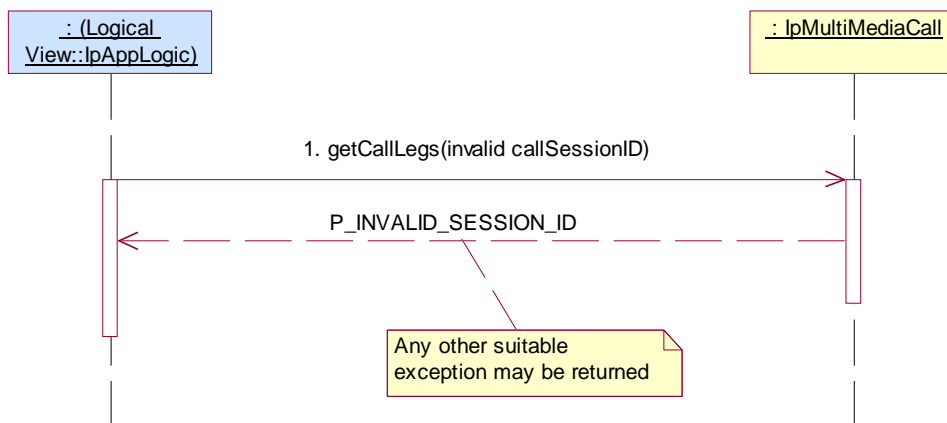
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as MMCC_IpMultiMediaCall_03

Condition: CreateCallLeg method is supported.

Test Sequence:

1. Method call **getCallLegs()** on IpMultiMediaCall
Parameters: invalid callSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.3.3 IpMultiMediaCallLeg

5.2.3.3.1 Mandatory, valid behaviour

Test MMCC_IpMultiMediaCallLeg_01

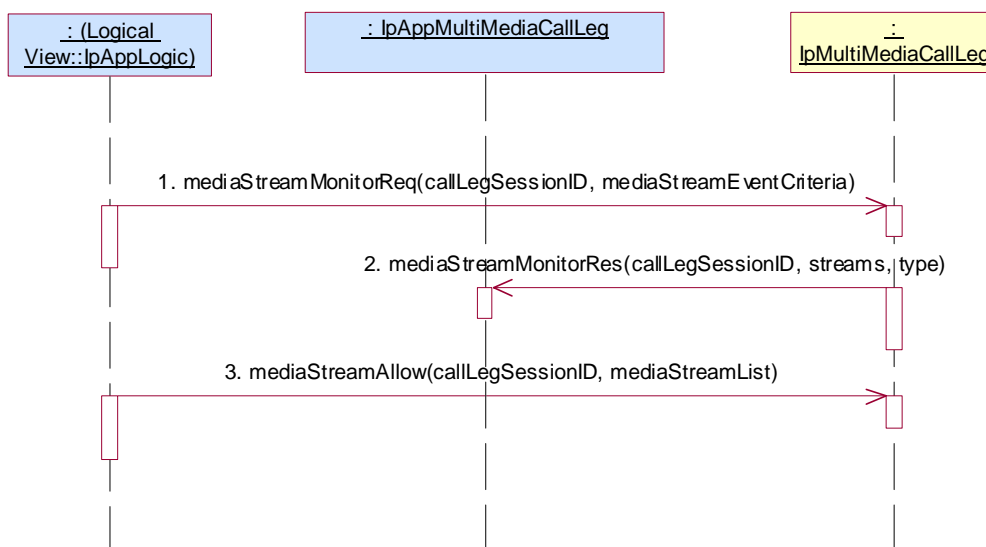
Summary: IpMultiMediaCallLeg, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 8.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid mediaStreamEventCriteria
 Check: no exception is returned
2. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
 Parameters: callLegSessionID, streams, type
3. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid mediaStreamList
 Check: no exception is returned



Test MMCC_ IpMultiMediaCallLeg _02

Summary: IpMultiMediaCallLeg, all mandatory methods, successful

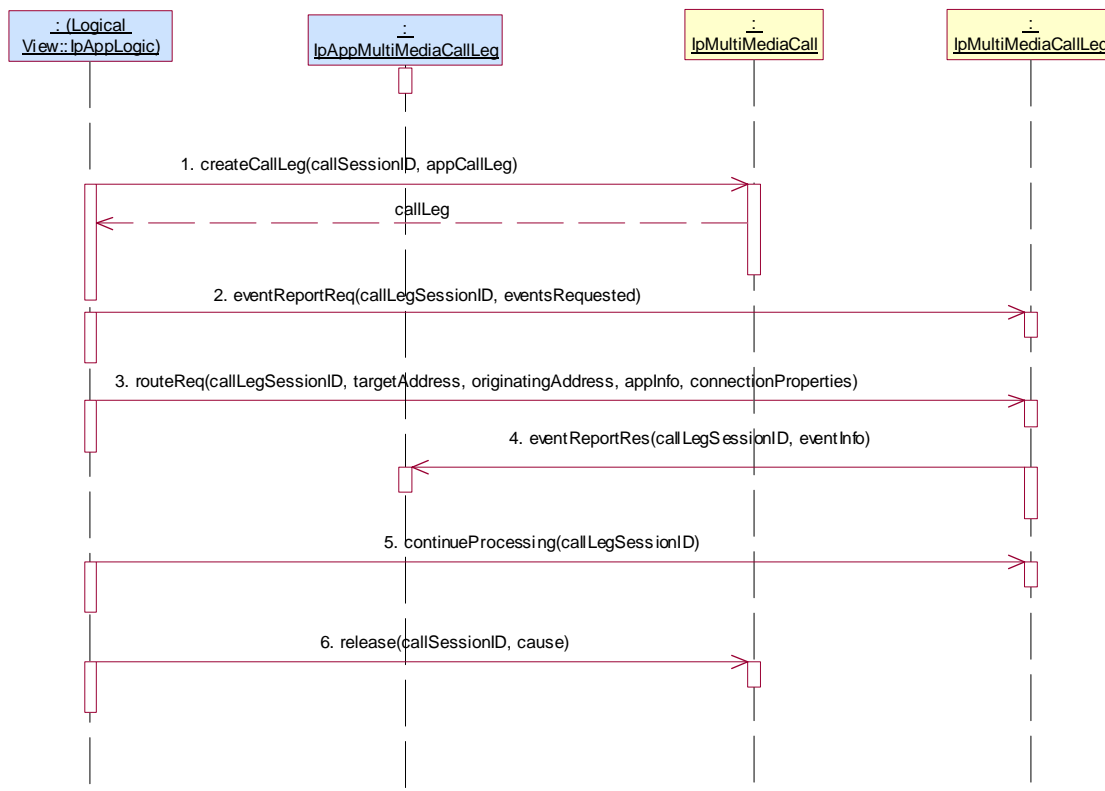
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_ IpMultiMediaCall _07

Condition: createCallLeg method is supported

Test Sequence:

1. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID returned in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
4. Triggered action: cause IUT to interrupt call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, errorIndication
5. Method call **continueProcessing()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
6. Method call **release()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid cause
Check: no exception is returned



Test MMCC_ IpMultiMediaCallLeg _03

Summary: IpMultiMediaCallLeg, all mandatory methods, successful

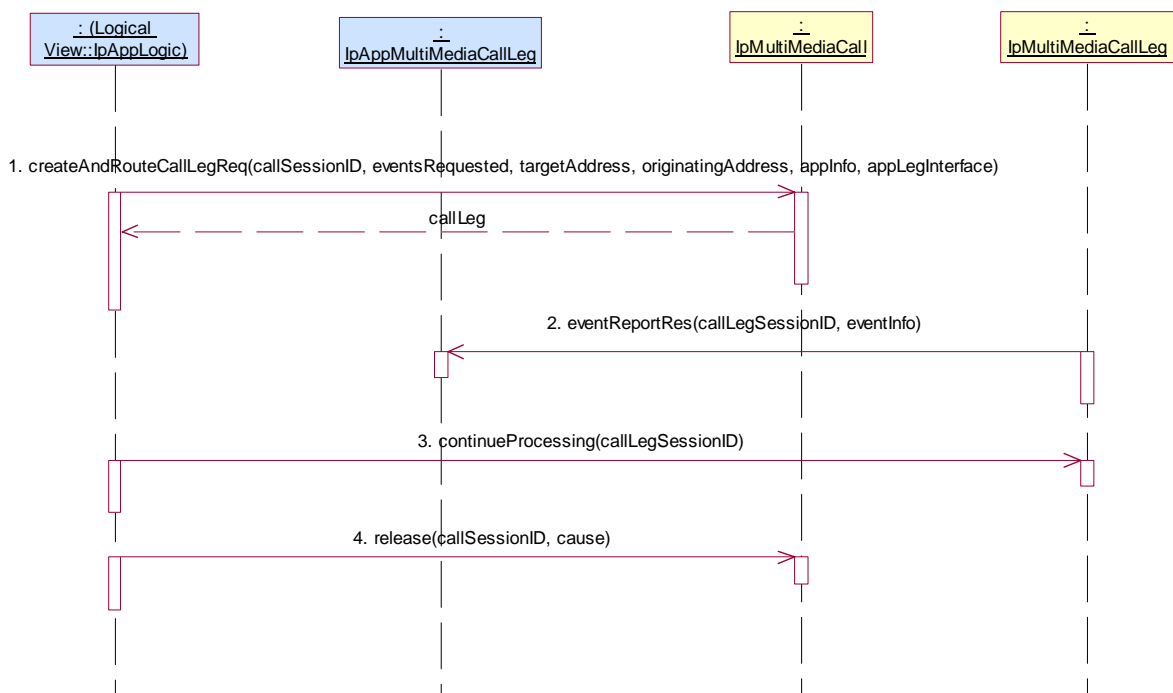
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_ IpMultiMediaCall _07

Condition: createAndRouteCallLeg method is supported

Test Sequence:

1. Method call **createAndRouteCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID returned in preamble, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier is returned
2. Triggered action: cause IUT to interrupt call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID returned in 1, errorIndication
3. Method call **continueProcessing()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
4. Method call **release()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid cause
Check: no exception is returned



Test MMCC_IpMultiMediaCallLeg_04

Summary: IpMultiMediaCallLeg, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **deassign()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned

**5.2.3.3.2 Mandatory, invalid behaviour****Test MMCC_IpMultiMediaCallLeg_05**

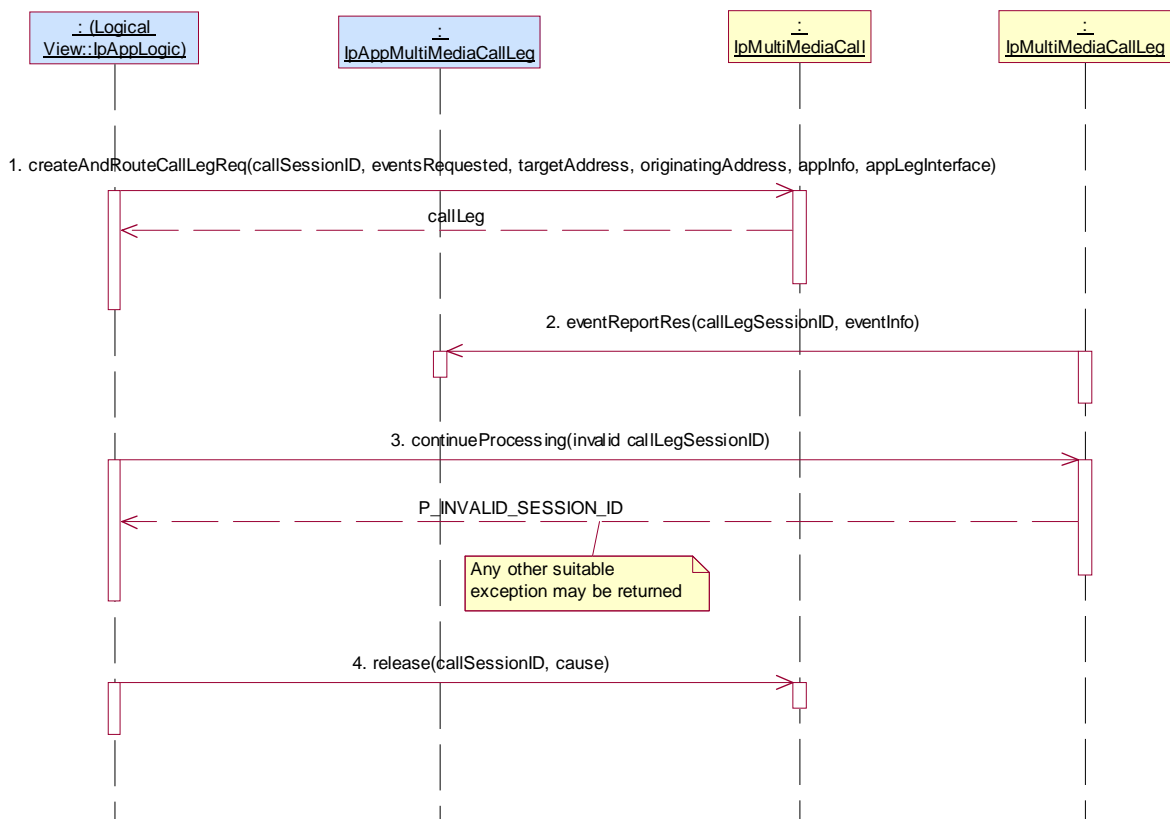
Summary: IpMultiMediaCallLeg, continueProcessing, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_07

Test Sequence:

1. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID returned in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
4. Triggered action: cause IUT to interrupt call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, errorIndication
5. Method call **continueProcessing()** on IpMultiMediaCallLeg
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
6. Method call **release()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid cause
Check: no exception is returned



Test MMCC_ IpMultiMediaCallLeg _06

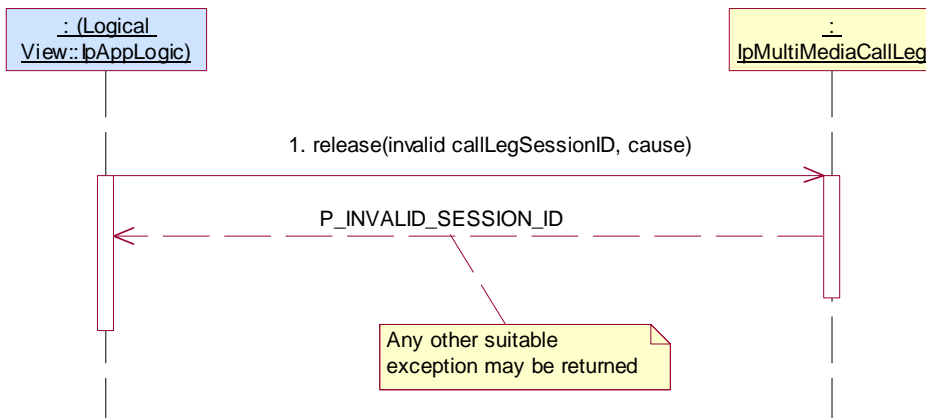
Summary: IpMultiMediaCallLeg, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_ IpMultiMediaCall _03

Test Sequence:

- Method call **release()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid cause
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_07

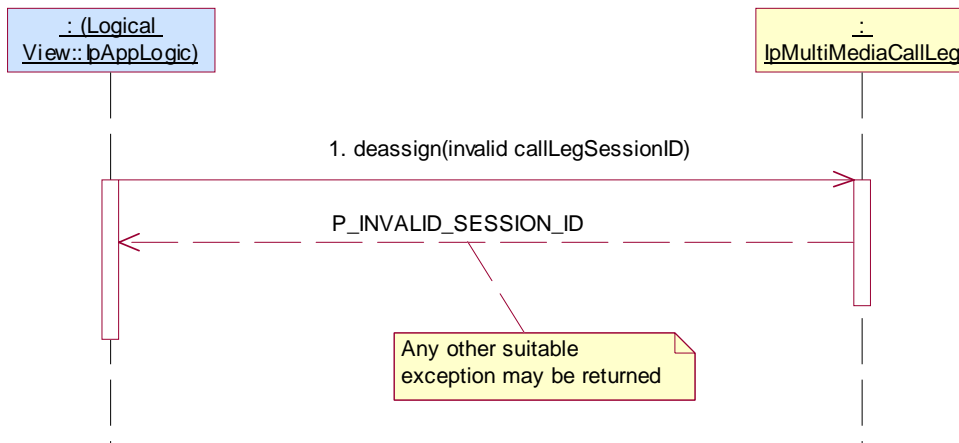
Summary: IpMultiMediaCallLeg, deassign, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **deassign()** on IpMultiMediaCallLeg
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_ IpMultiMediaCallLeg _08

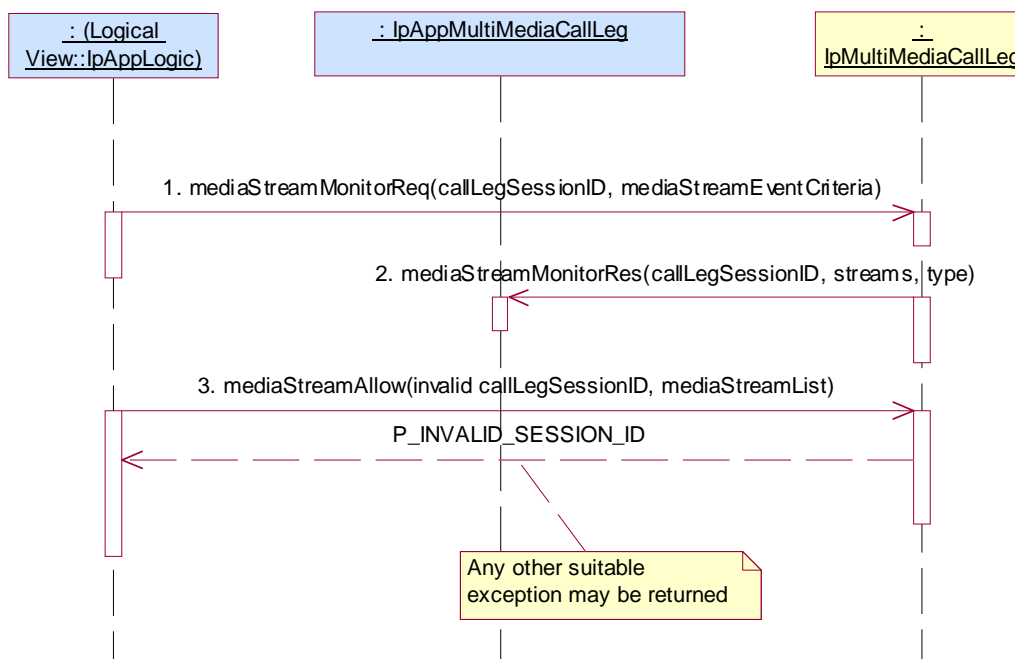
Summary: IpMultiMediaCallLeg, mediaStreamAllow, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.5.

Preamble: Same as MMCC_ IpMultiMediaCall _03

Test Sequence:

1. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid mediaStreamEventCriteria
Check: no exception is returned
2. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
Parameters: callLegSessionID, streams, type
3. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
Parameters: invalid callLegSessionID, valid mediaStreamList
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_09

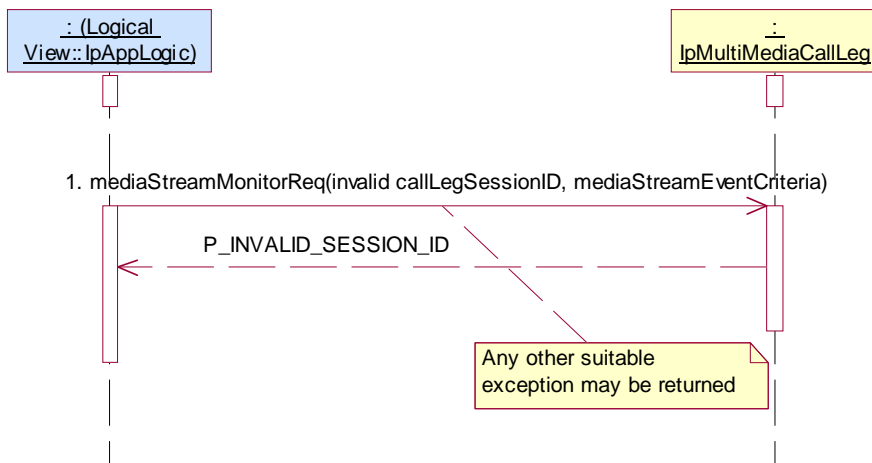
Summary: IpMultiMediaCallLeg, mediaStreamMonitorReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid mediaStreamEventCriteria
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCallLeg_10**

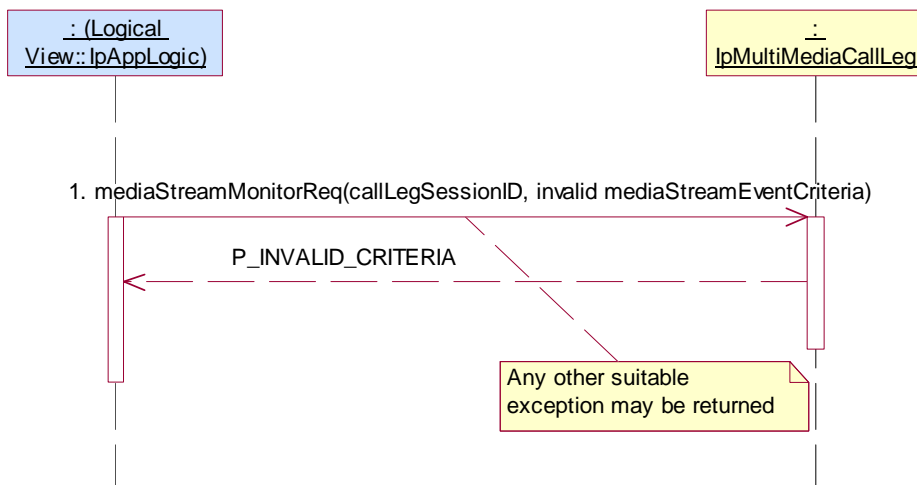
Summary: IpMultiMediaCallLeg, mediaStreamMonitorReq, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 8.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 2., valid mediaStreamEventCriteria with invalid criteria
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



5.2.3.3.3 Optional, valid behaviour

Test MMCC_IpMultiMediaCallLeg_11

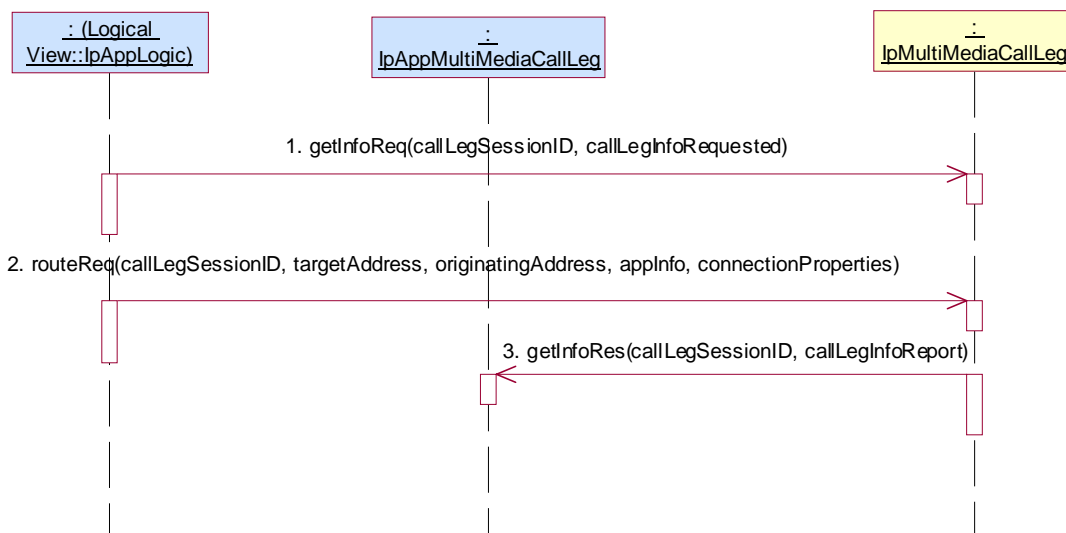
Summary: IpMultiMediaCallLeg, getInfoReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **getInfoReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid callLegInfoRequested
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID given in 1., valid callLegInfoReport.



Test MMCC_IpMultiMediaCallLeg_12

Summary: IpMultiMediaCallLeg, attachMediaReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Application has a valid callSessionID returned by one of the three following sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiMediaCallIdentifier is returned
3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned

or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application's) **IpMultiMediaCallControlManager** interface
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned

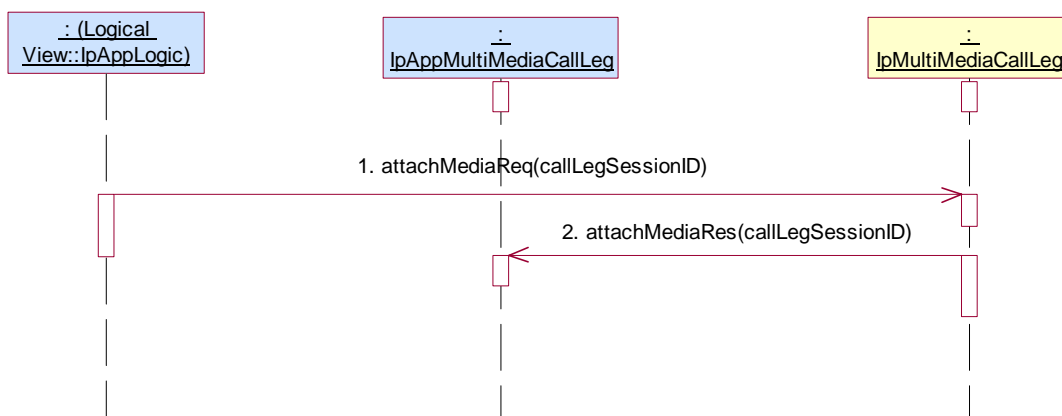
or

1. Method call **createMediaNotification()**
Parameters: valid appInterface, valid notificationMediaRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportMediaNotification()** method on the tester's (application's) **IpMultiMediaCallControlManager** interface.
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned

4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned

Test Sequence:

1. Method call **attachMediaReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
2. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID



Test MMCC_ IpMultiMediaCallLeg _13

Summary: IpMultiMediaCallLeg, detachMediaReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_ IpMultiMediaCallleg _12

Test Sequence:

1. Method call **attachMediaReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
2. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID
3. Method call **detachMediaReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
4. Triggered action: cause IUT to call **detachMediaRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID



Test MMCC_ IpMultiMediaCallLeg _14

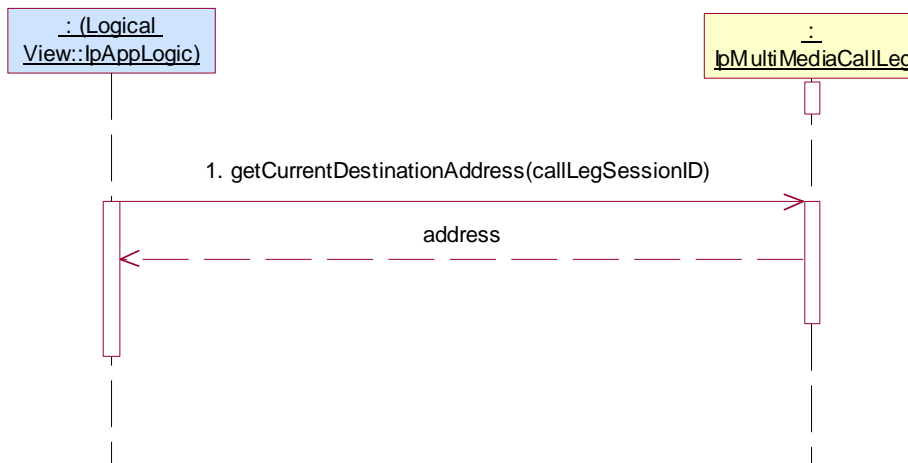
Summary: IpMultiMediaCallLeg, getCurrentDestinationAddress, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_ IpMultiMediaCall _03

Test Sequence:

1. Method call **getCurrentDestinationAddress()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble.
 Check: valid value of TpAddress is returned

**Test MMCC_ IpMultiMediaCallLeg _15**

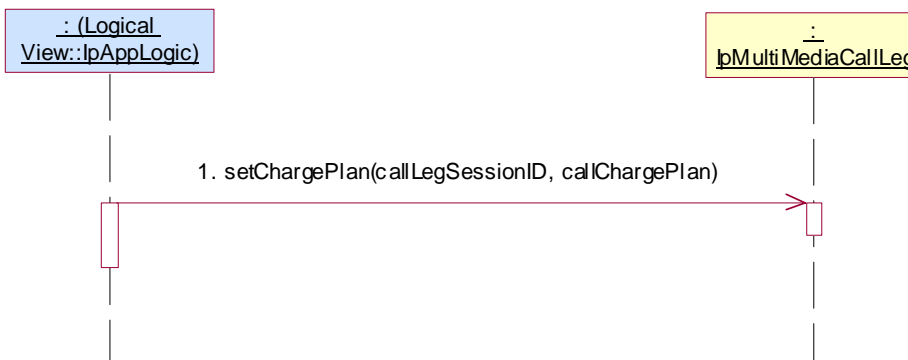
Summary: IpMultiMediaCallLeg, setChargePlan, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_ IpMultiMediaCall _14

Test Sequence:

1. Method call **setChargePlan()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid callChargePlan
 Check: no exception is returned



Test MMCC_IpMultiMediaCallLeg_16

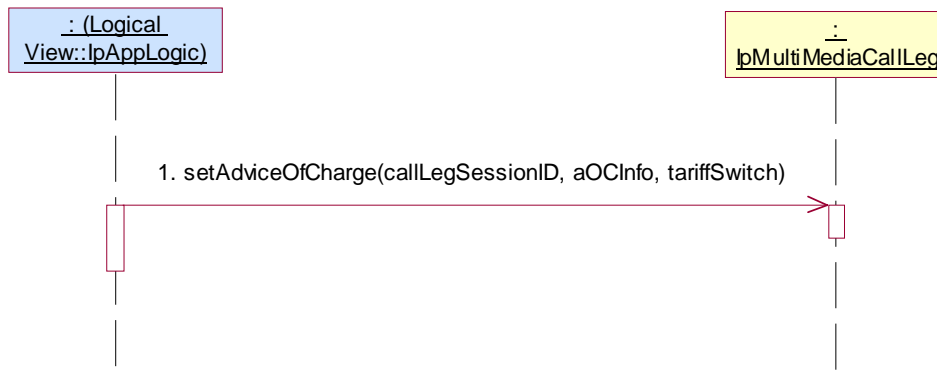
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid aOCInfo, valid tariffSwitch
Check: no exception is returned



Test MMCC_IpMultiMediaCallLeg _17

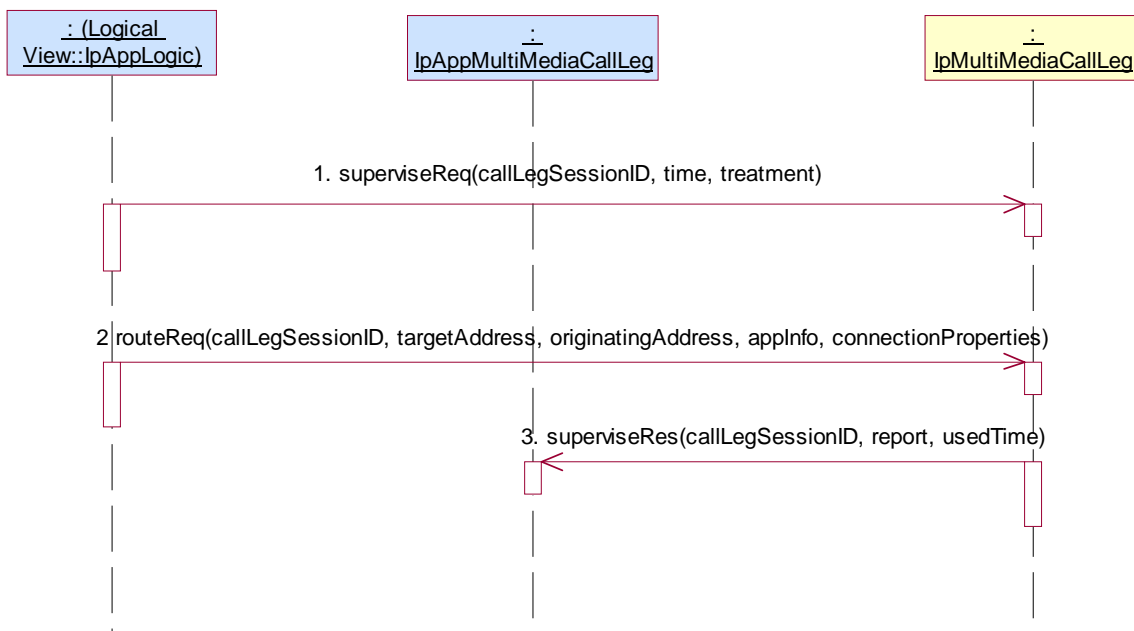
Summary: IpMultiMediaCallLeg, superviseReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall _14

Test Sequence:

1. Method call **superviseReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid time, valid treatment
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to call **superviseRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, report, usedTime



Test MMCC_ IpMultiMediaCallLeg _18

Summary: IpMultiMediaCallLeg, getCall, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_ IpMultiMediaCall _14

Test Sequence:

1. Method call **getCall()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: valid TpMultiPartyCallIdentifier is returned



Test MMCC_IpMultiMediaCallLeg_19

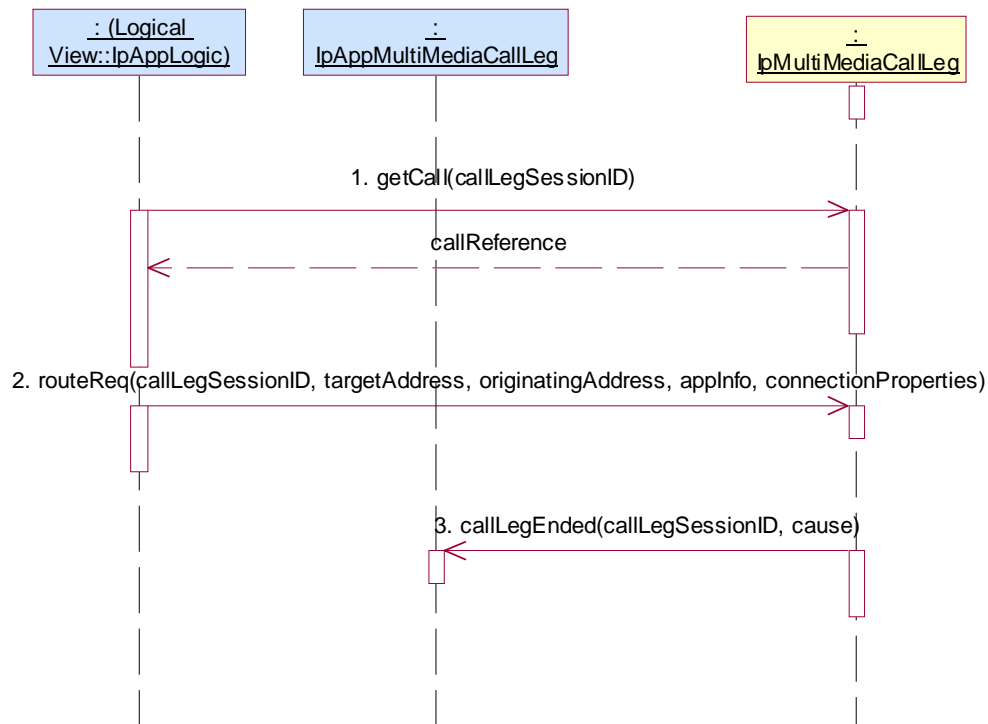
Summary: IpMultiMediaCallLeg, getCallEnded, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **getCall()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble.
 Check: valid TpMultiPartyCallIdentifier is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned
3. Triggered action: cause IUT to call **callLegEnded()** method on the tester's (Application) **IpAppCallLeg** interface.
 Parameters: callLegSessionID, cause



5.2.3.3.4 Optional, invalid behaviour

Test MMCC_IpMultiMediaCallLeg_20

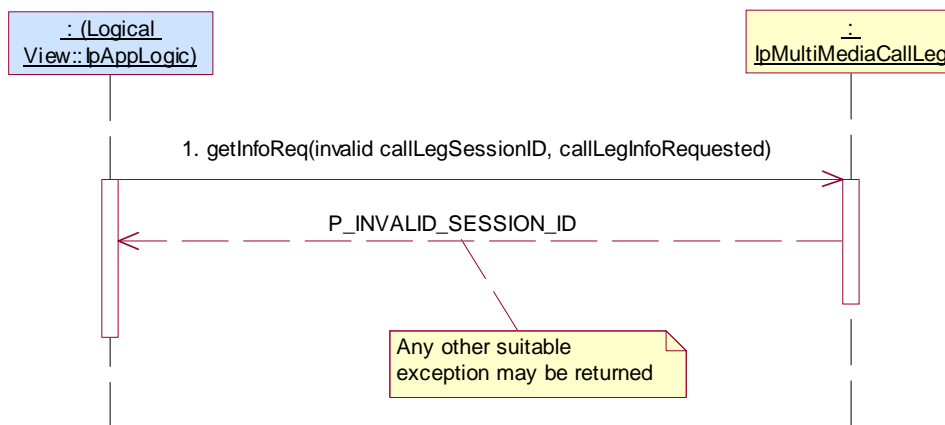
Summary: IpMultiMediaCallLeg, getInfoReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **getInfoReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid callLegInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_21

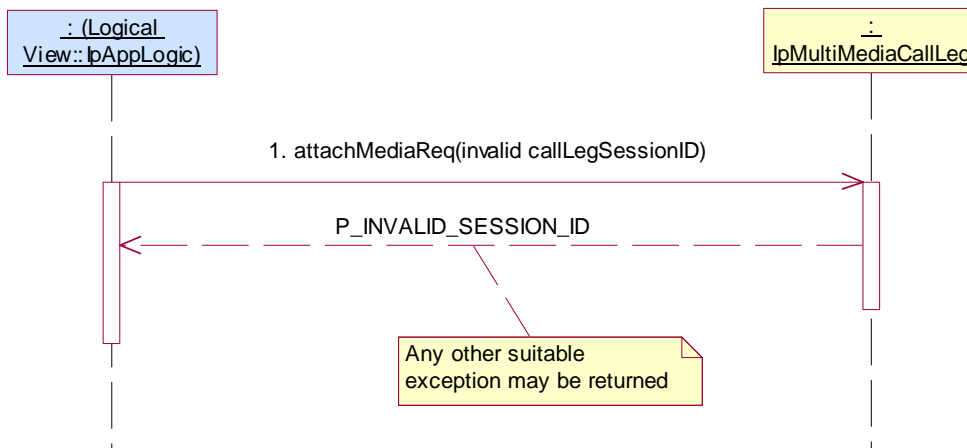
Summary: IpMultiMediaCallLeg, attachMediaReq: P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCallLeg_12

Test Sequence:

1. Method call **attachMediaReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_22

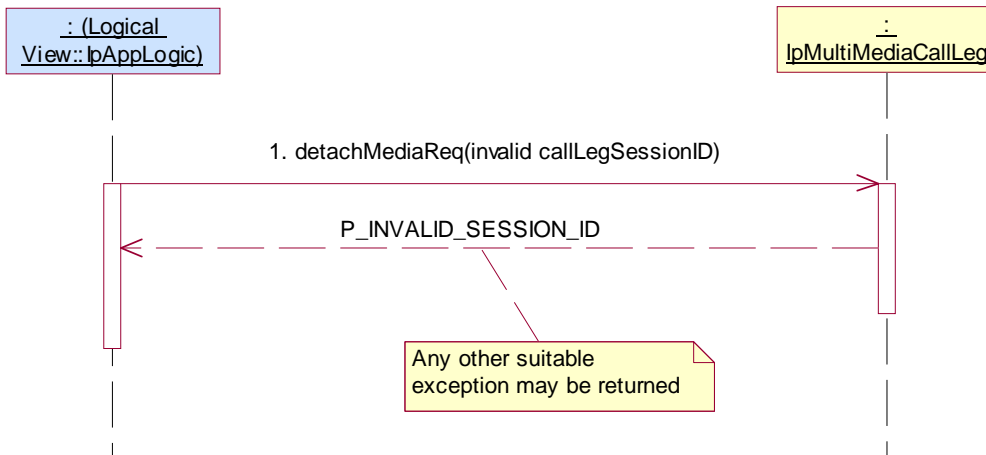
Summary: IpMultiMediaCallLeg, detachMediaReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

- Method call **detachMediaReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_23

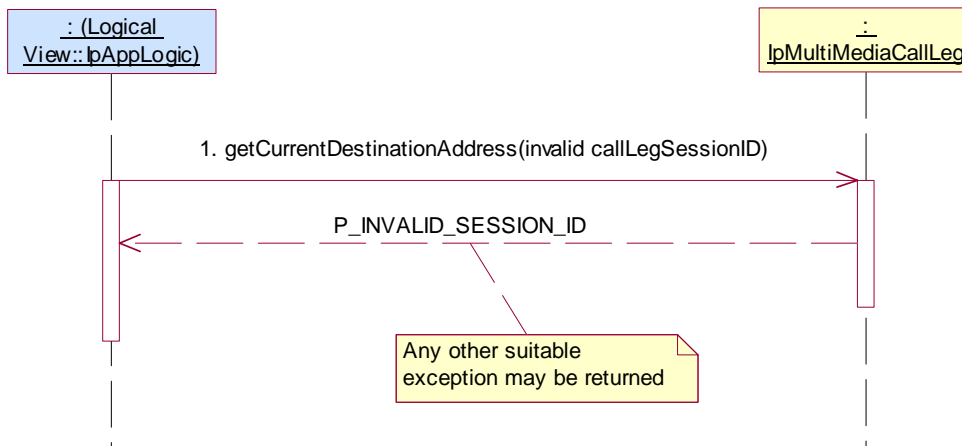
Summary: IpMultiMediaCallLeg, getCurrentDestinationAddress, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

- Method call **getCurrentDestinationAddress()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_24

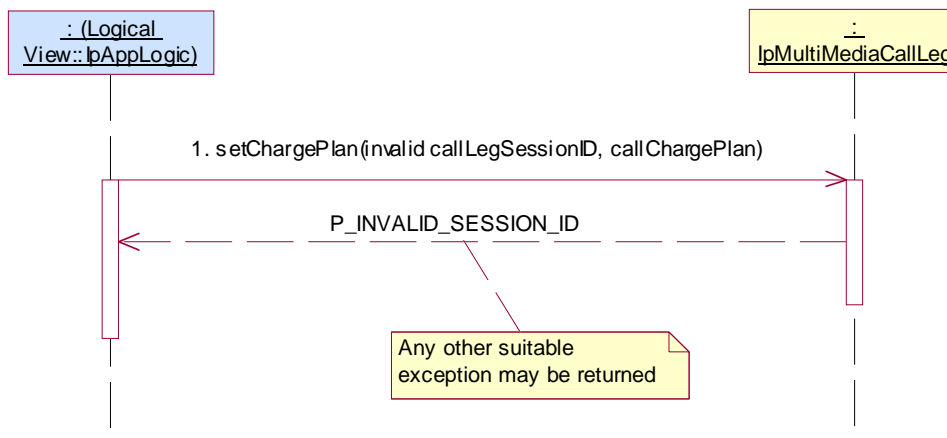
Summary: IpMultiMediaCallLeg, setChargePlan: P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **setChargePlan()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCallLeg_25**

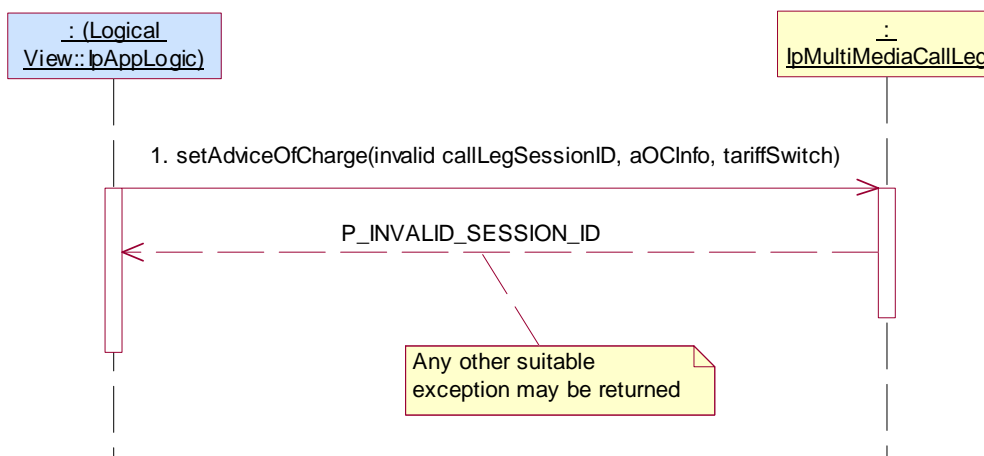
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_26

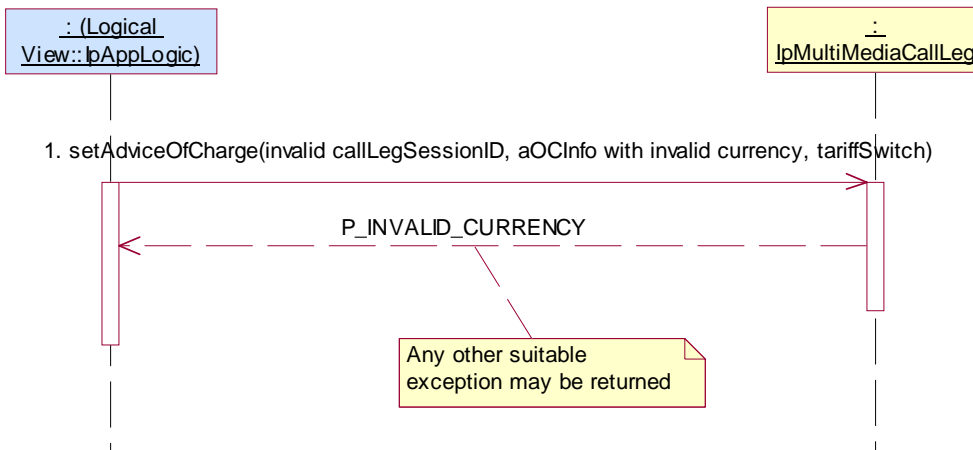
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, P_INVALID_CURRENCY

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_27

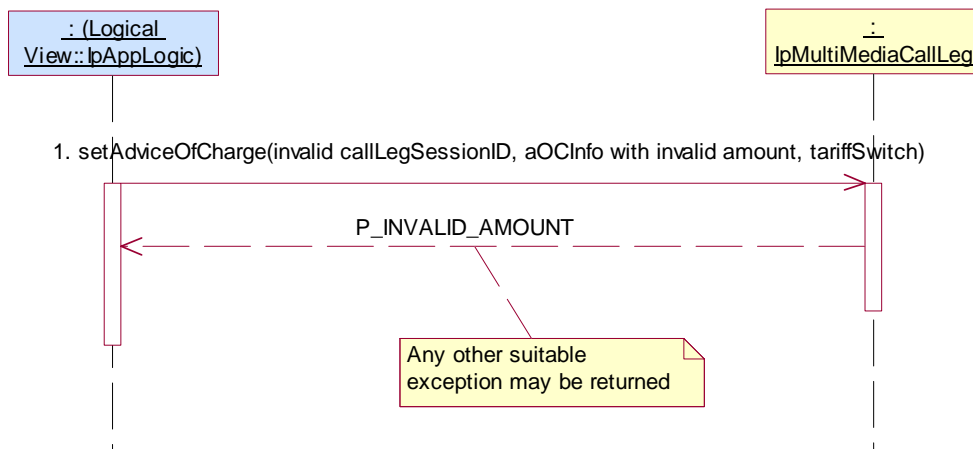
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, P_INVALID_AMOUNT

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, aOCInfo with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_28

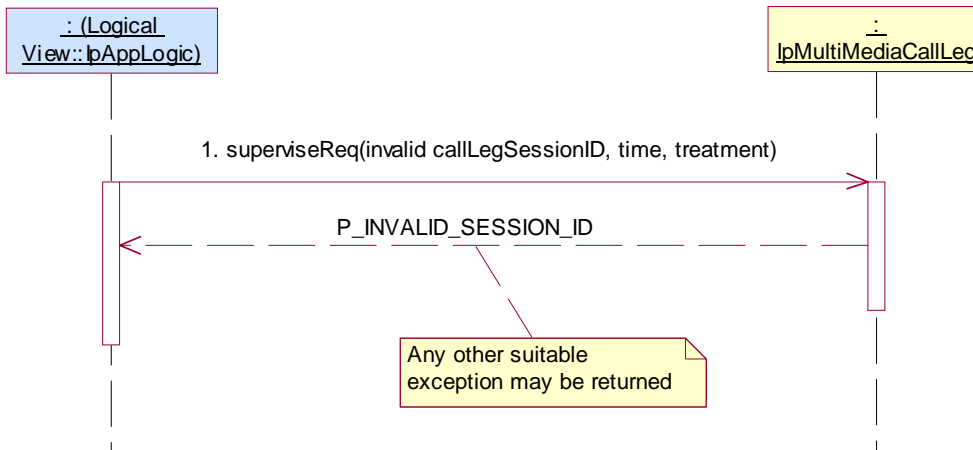
Summary: IpMultiMediaCallLeg, superviseReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

- Method call **superviseReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_29

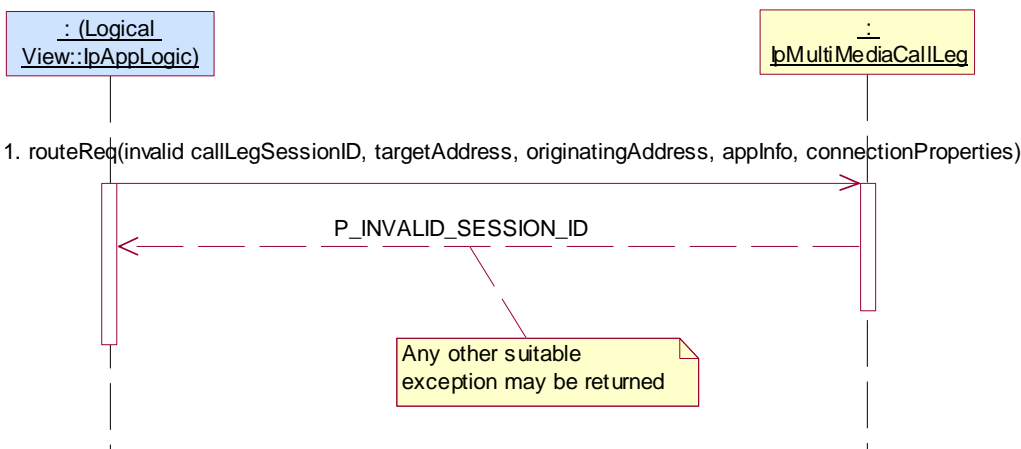
Summary: IpMultiMediaCallLeg, routeReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

- Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_30

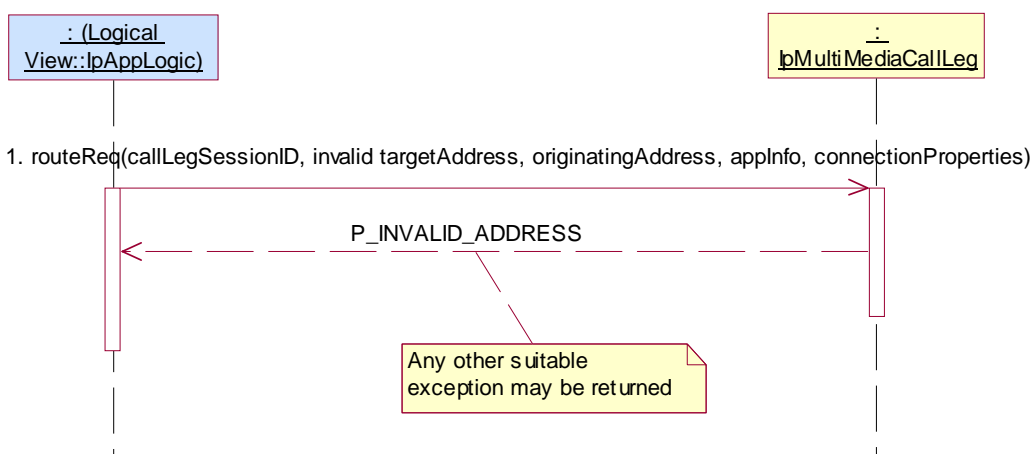
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

- Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, invalid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCallLeg_31**

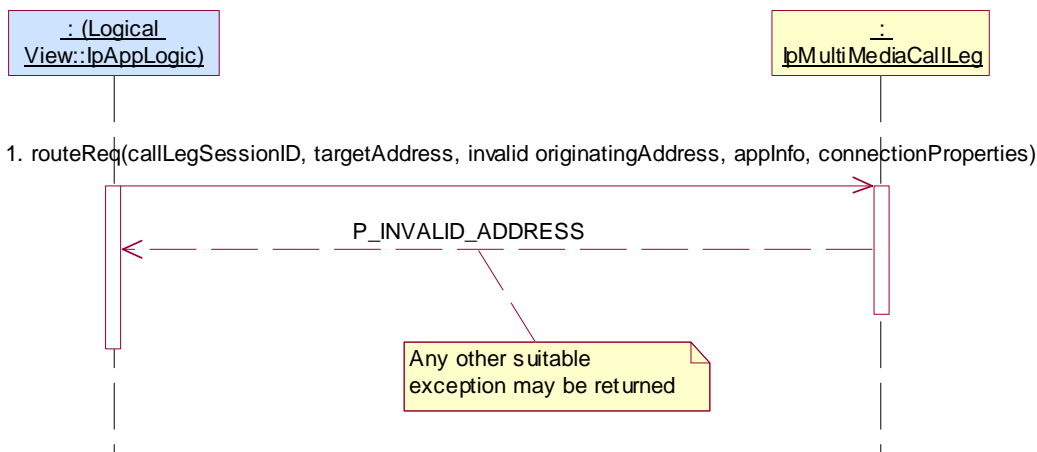
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

- Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, invalid originatingAddress, valid appInfo, valid connectionProperties
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test MMCC_IpMultiMediaCallLeg_32

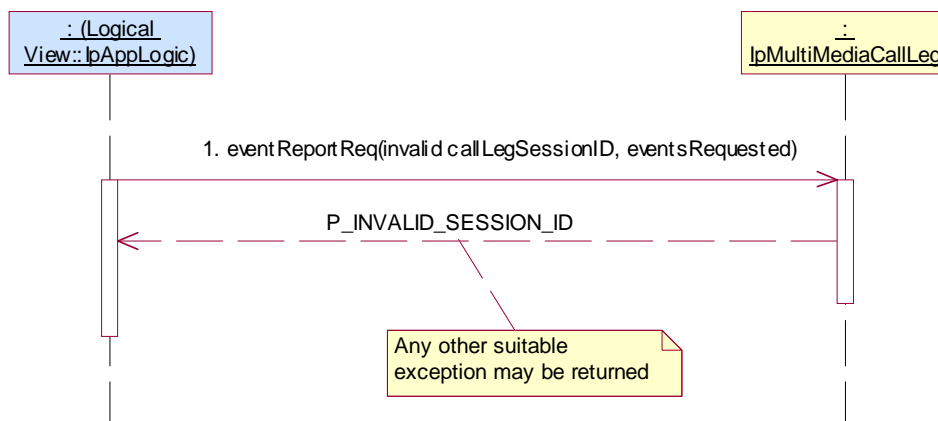
Summary: IpMultiMediaCallLeg, eventReportReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **eventReportReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid eventsRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCallLeg_33**

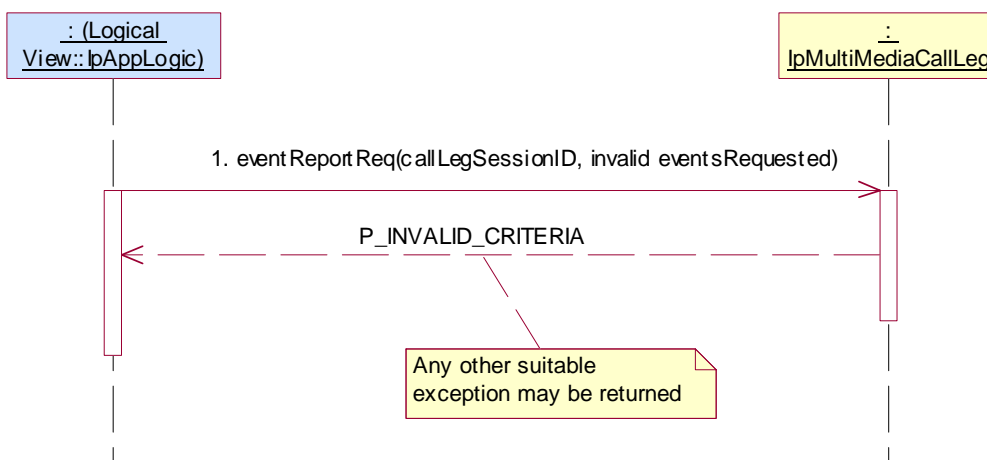
Summary: IpMultiMediaCallLeg, eventReportReq, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_14

Test Sequence:

1. Method call **eventReportReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, invalid eventsRequested
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



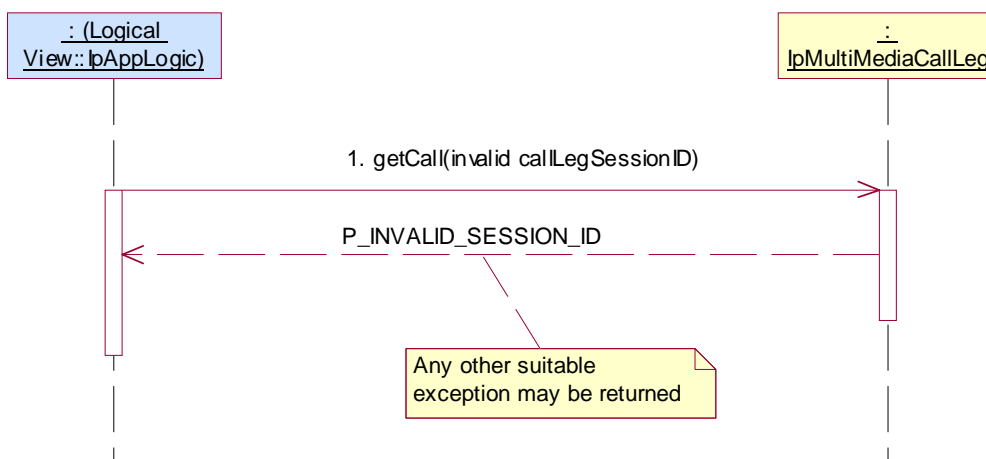
Test MMCC_IpMultiMediaCallLeg_34

Summary: IpMultiMediaCallLeg, getCall, P_INVALID_SESSION_ID

Preamble: Same as MMCC_IpMultiMediaCall_03

Reference: ES 201 915-4 [1], clause 7.3.5

1. Method call **getCall()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test MMCC_IpMultiMediaCallLeg_35**

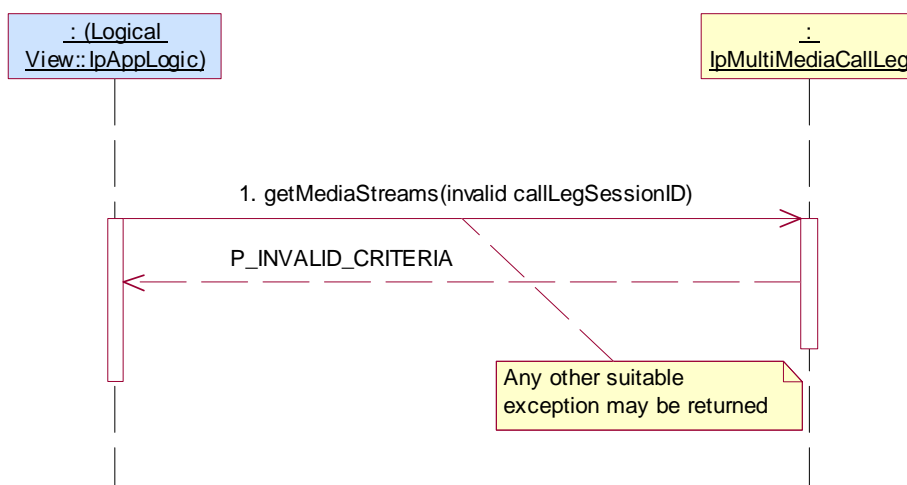
Summary: IpMultiMediaCallLeg, getMediaStreams, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.5.

Preamble: Same as MMCC_IpMultiMediaCall_03

Test Sequence:

1. Method call **getMediaStreams()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.3.4 IpMultiMediaStream

5.2.3.4.1 Mandatory, valid behaviour

Test MMCC_ IpMultiMediaStream _01

Summary: IpMultiMediaStream, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3, 8.3.5 and 8.3.7.

Preamble: Application has a valid callSessionID returned by one of the three following sequence:

1. Method call **setCallback()** on IpMultiMediaCallControlManager
Parameters: valid, non-null, value of appInterface parameter
Check: no exception is returned
2. Method call **createCall()**
Parameters: valid appCall
Check: valid value of TpMultiMediaCallIdentifier is returned
3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 2, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier
5. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid mediaStreamEventCriteria
Check: no exception is returned
6. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
Parameters: callLegSessionID, streams, type
7. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid mediaStreamList
Check: no exception is returned

or

1. Method call **createNotification()**
Parameters: appCallControlManager with valid, non-null, value, valid notificationRequest
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportNotification()** method on the tester's (application)
Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **createCallLeg()** on IpMultiMediaCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned

4. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 2, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: valid value of TpCallLegIdentifier
5. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamEventCriteria
 Check: no exception is returned
6. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
 Parameters: callLegSessionID, streams, type
7. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamList
 Check: no exception is returned

or

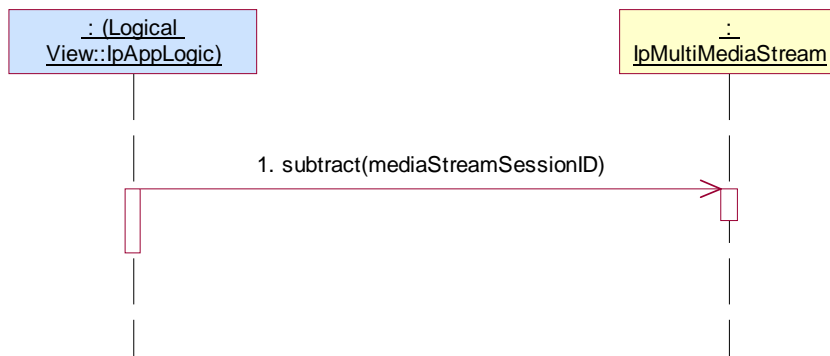
1. Method call **createMediaNotification()**
 Parameters: valid appInterface, valid notificationMediaRequest
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call Method **reportMediaNotification()** method on the tester's (application)
 Parameters: callReference, callLegReferenceSet, notificationInfo, assignmentID
3. Method call **createCallLeg()** on IpMultiMediaCall
 Parameters: valid callSessionID reported in 2., valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 2, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpMultiMediaCall
 Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: valid value of TpCallLegIdentifier
5. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamEventCriteria
 Check: no exception is returned
6. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
 Parameters: callLegSessionID, streams, type
7. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamList
 Check: no exception is returned

Test Sequence:

- Method call **subtract()** on IpMultiMediaStream
 Parameters: valid mediaStreamSessionID from TpMediaStreamSet returned in preamble.
 Check: no exception is returned



5.2.3.4.2 Mandatory, invalid behaviour

Test MMCC_ IpMultiMediaStream _02

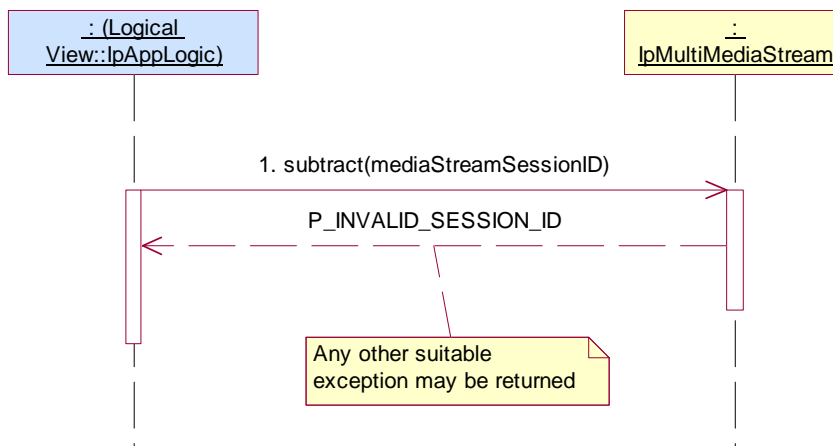
Summary: IpMultiMediaStream, subtract, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.7.

Preamble: Same as MMCC_ IpMultiMediaStream _01

Test Sequence:

- Method call **subtract()** on IpMultiMediaStream
 Parameters: invalid mediaStreamSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.4 Conference Call Control Service (CCC)

5.2.4.1 IpConfCallControlManager

5.2.4.1.1 Mandatory, valid behaviour

According to Call Control SCF specification, at least one of the two following test sequence is mandatory:

Test CCC _ IpConfCallControlManager _01

Summary: IpConfCallControlManager, all mandatory methods, successful

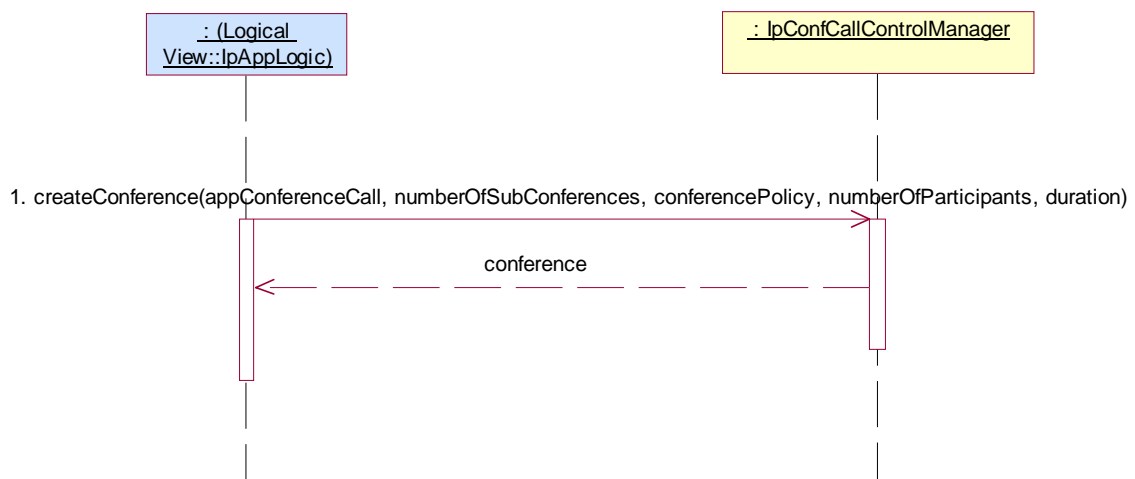
Reference: ES 201 915-4 [1], clause 9.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: createConference method is supported.

Test Sequence:

- Method call **createConference()**
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned



Test CCC _ IpConfCallControlManager _02

Summary: IpConfCallControlManager, all mandatory methods, successful

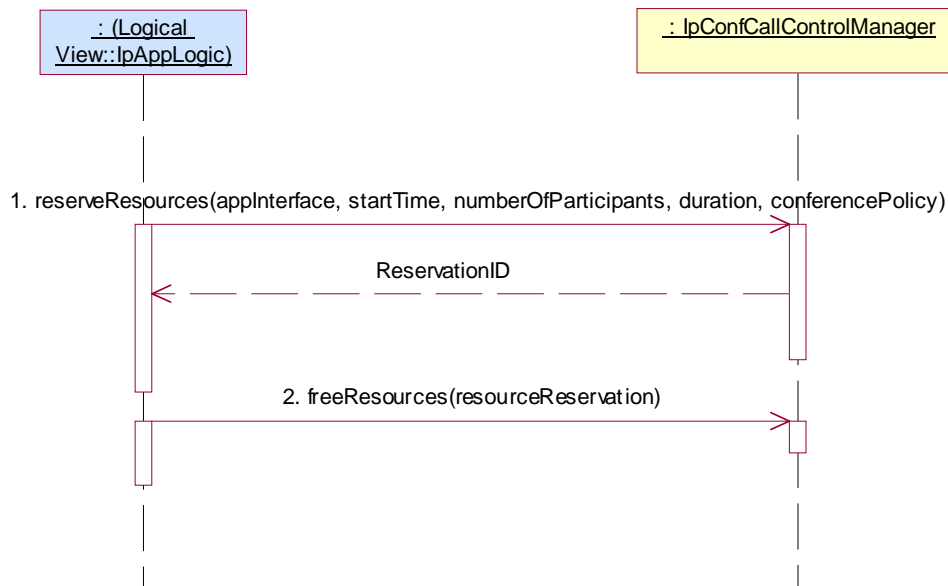
Reference: ES 201 915-4 [1], clause 9.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: reserveResources method is supported

Test Sequence:

1. Method call **reserveResources()**
 Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
 Check: valid value of TpResourceReservation is returned
2. Method call **freeResources()**
 Parameters: valid resourceReservation returned in 1.
 Check: no exception is returned



Test CCC _ IpConfCallControlManager _03

Summary: IpConfCallControlManager, all mandatory methods, successful

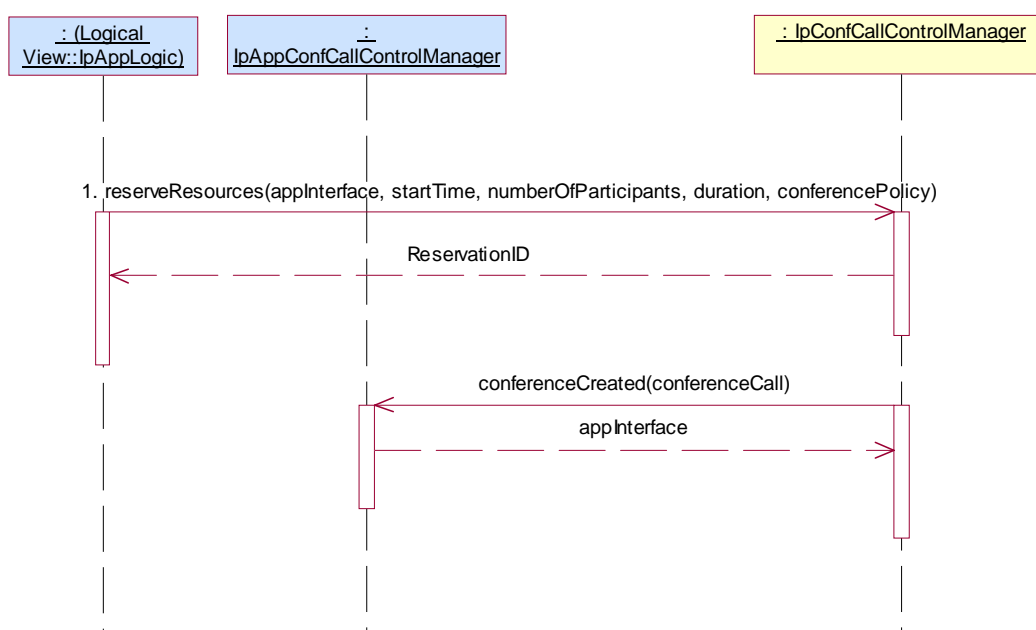
Reference: ES 201 915-4 [1], clause 9.3.1

Preamble: Application has a reference interface used for callbacks.

Condition: reserveResources method is supported

Test Sequence:

1. Method call **reserveResources()**
 Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
 Check: valid value of TpResourceReservation is returned
2. Trigger IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
 Parameters: valid conferenceCall.



5.2.4.1.2 Mandatory, invalid behaviour

For further study.

5.2.4.1.3 Optional, valid behaviour

Test CCC _ IpConfCallControlManager _04

Summary: IpConfCallControlManager, checkResources, successful

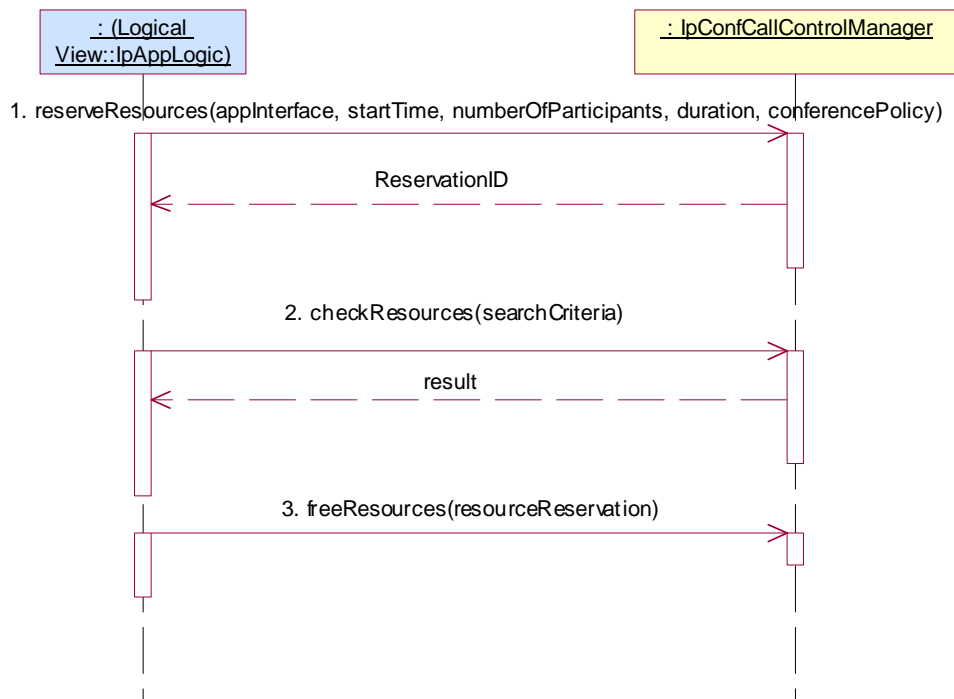
Reference: ES 201 915-4 [1], clause 9.3.1

Condition: reserveResources, checkResources methods are supported

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **reserveResources()**
 Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
 Check: valid value of TpResourceReservation is returned
2. Method call **checkResources()**
 Parameters: valid searchCriteria regarding reservation made in 1.
 Check: valid value of TpConfSearchResult is returned with values of reservation made in 1.
3. Method call **freeResources()**
 Parameters: valid resourceReservation returned in 2.
 Check: no exception is returned



Test CCC _ IpConfCallControlManager _05

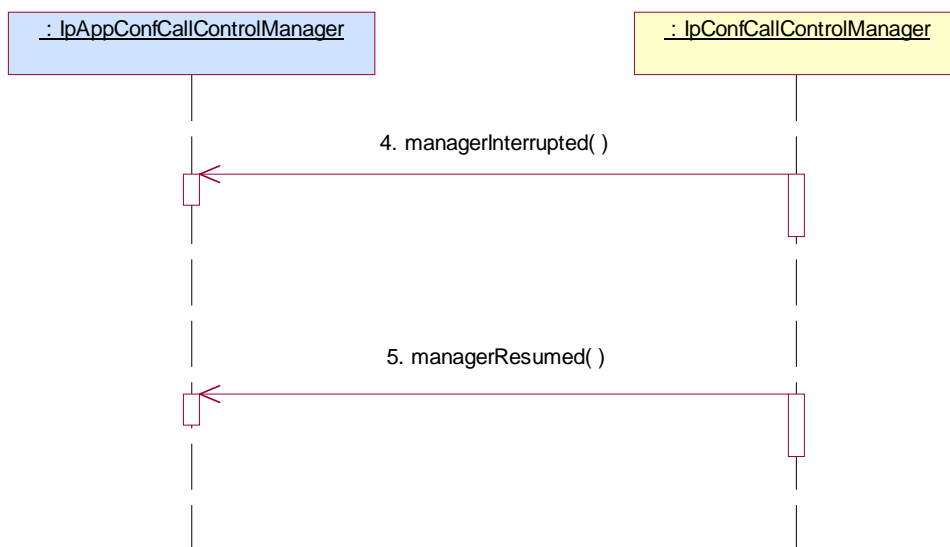
Summary: IpConfCallControlManager, all methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Condition: managerInterrupted, managerResumed methods are supported.

Test Sequence:

1. Triggered action: cause IUT to call **managerInterrupted()** method on the tester's (Application) **IpAppConfCallControlManager** interface.
Parameters: None
2. Triggered action: cause IUT to call **managerResumed()** method on the tester's (Application) **IpAppConfCallControlManager** interface.
Parameters: None



5.2.4.1.4 Optional, invalid behaviour

For further study.

5.2.4.2 IpConfCall

5.2.4.2.1 Mandatory, valid behaviour

Test CCC _ IpConfCall _01

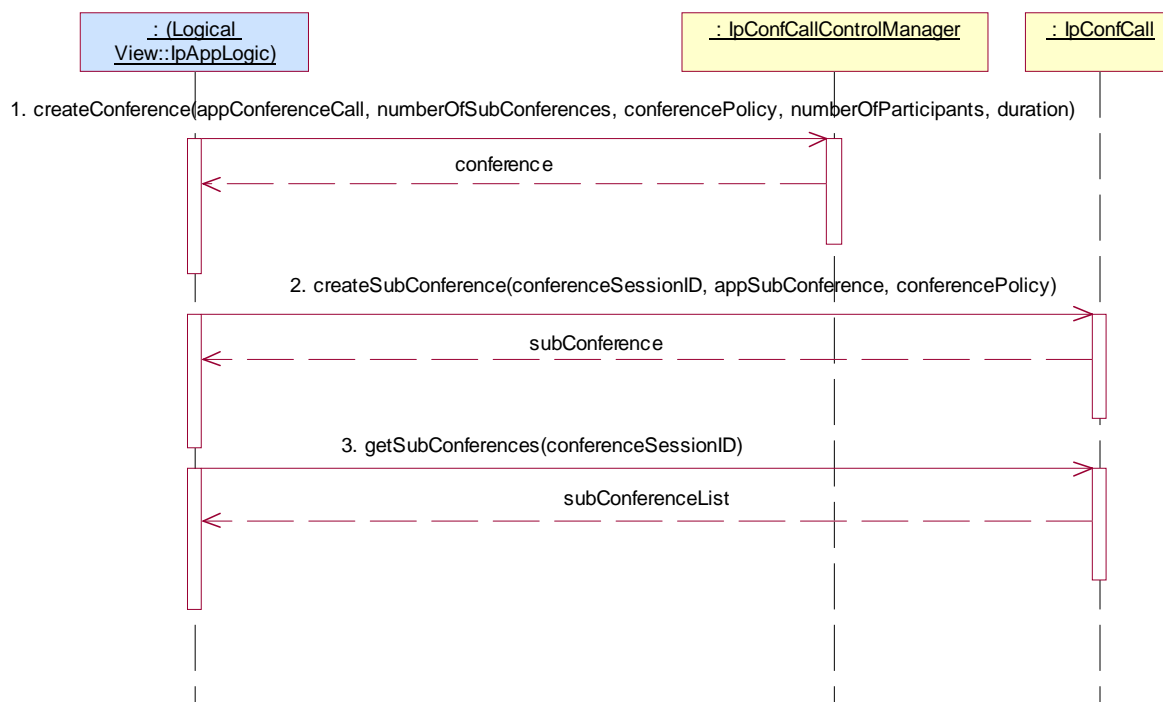
Summary: IpConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
 Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1.
 Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.



Test CCC _ IpConfCall _02

Summary: IpConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the following sequences:

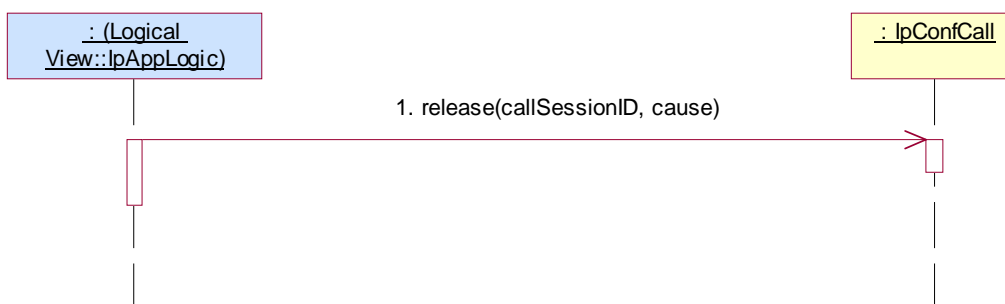
1. Method call **createConference()** on IpConfCallControlManager
Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.

or

1. Method call **reserveResources()**
Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
Check: valid value of TpResourceReservation is returned
2. Triggered action: cause IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
Parameters: valid conferenceCall.
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.

Test Sequence:

1. Method call **release()** on IpConfCall
Parameters: valid callSessionID returned in preamble, valid cause
Check: no exception is returned



Test CCC _ IpConfCall _03

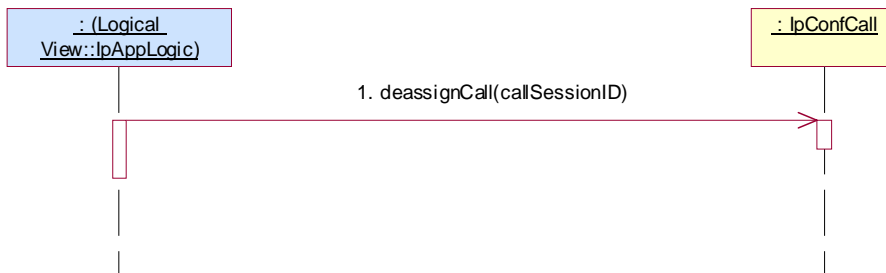
Summary: IpConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Test Sequence:

1. Method call **deassignCall()** on IpConfCall
 Parameters: valid callSessionID returned in preamble.
 Check: no exception is returned



5.2.4.2.2 Mandatory, invalid behaviour

Test CCC _ IpConfCall _04

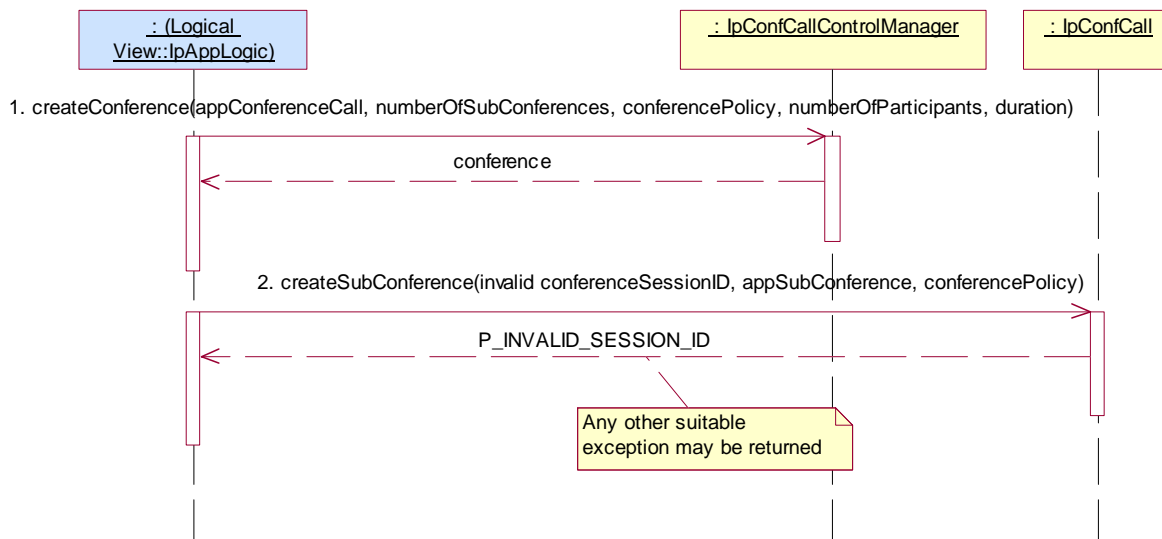
Summary: IpConfCall createSubConference, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 9.3.3

Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
 Parameters: invalid conferenceSessionID, valid appSubConference, valid conferencePolicy
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpConfCall _05

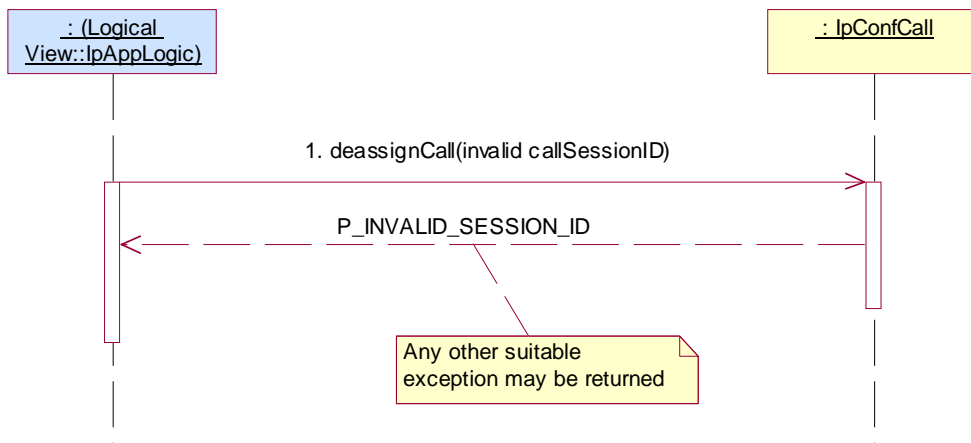
Summary: IpConfCall, deassignCall, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Test Sequence:

1. Method call **deassignCall()** on IpConfCall
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpConfCall _06**

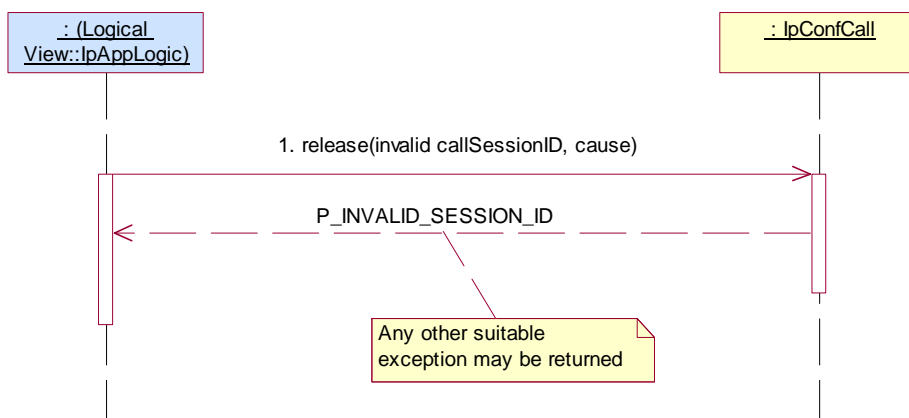
Summary: IpConfCall, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Test Sequence:

1. Method call **release()** on IpConfCall
 Parameters: invalid callSessionID, valid cause
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.4.2.3 Optional, valid behaviour

Test CCC _ IpConfCall _07

Summary: IpConfCall, all methods, successful

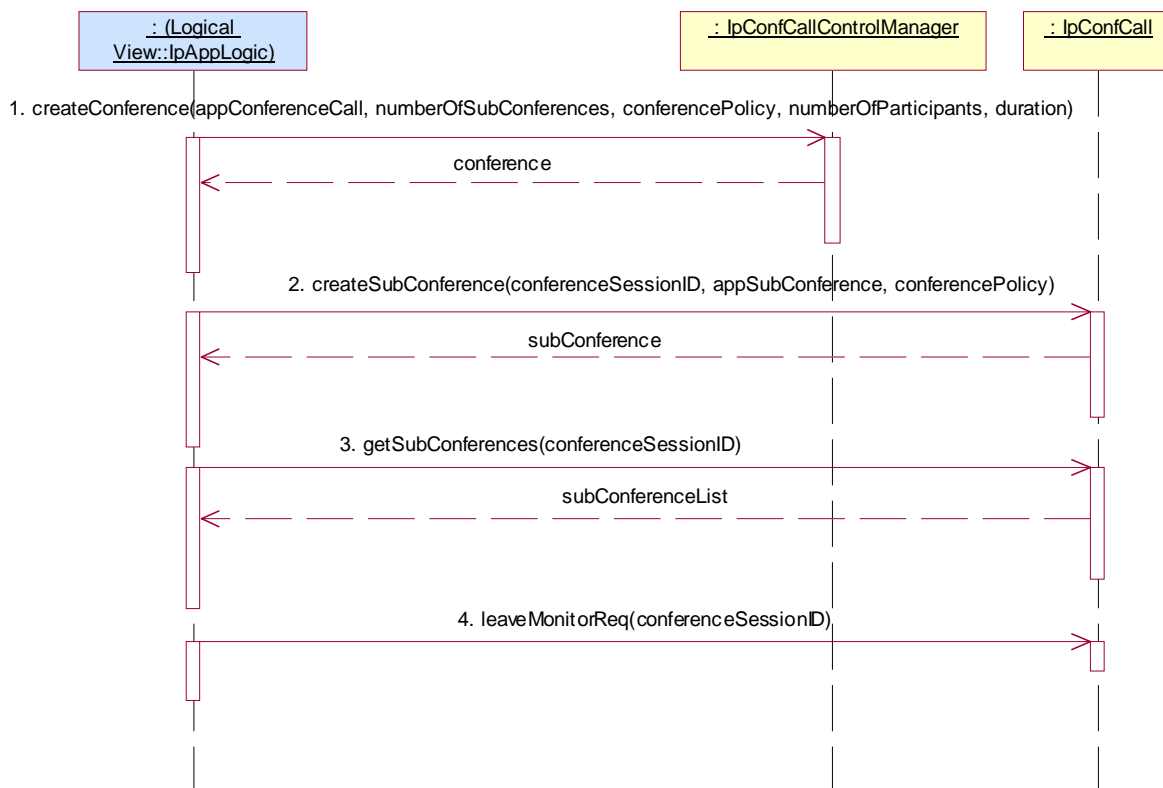
Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Application has a reference interface used for callbacks.

Condition: leaveMonitorReq method is supported.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
 Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1.
 Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.
4. Method call **leaveMonitorReq()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1.
 Check: no exception is returned



Test CCC _ IpConfCall _08

Summary: IpConfCall, all methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 8.3.1

Preamble: Application has a valid callSessionID returned by one of the two following sequence:

1. Method call **createConference()** on IpConfCallControlManager
Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.
4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned

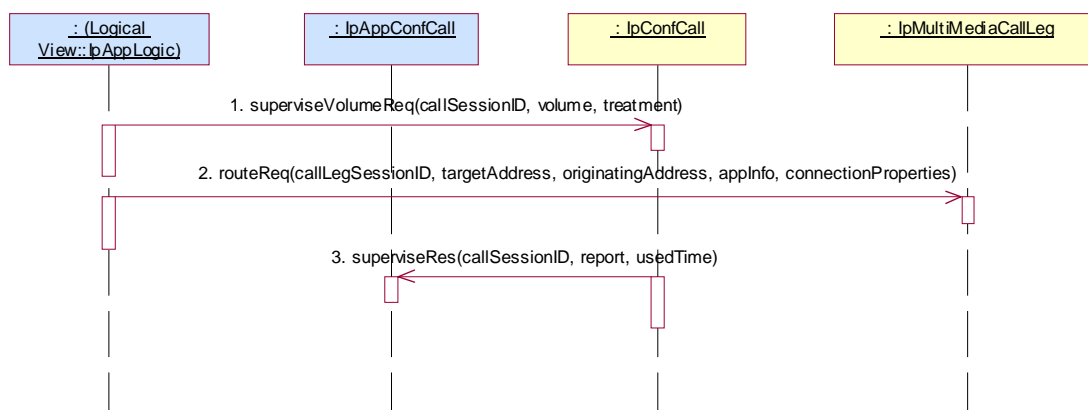
or

1. Method call **reserveResources()**
Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
Check: valid value of TpResourceReservation is returned
2. Triggered action: cause IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
Parameters: valid conferenceCall.
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.
4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned

Condition: superviseVolumeReq method is supported.

Test Sequence:

1. Method call **superviseVolumeReq()** on IpConfCall
Parameters: valid callSessionID returned in preamble, valid volume, valid treatment
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to call Method **superviseVolumeRes()** method on the tester's (application) **IpConfCall** interface.
Parameters: callSessionID, report, usedVolume



Test CCC _ IpConfCall _09

Summary: IpConfCall, getInfoReq, successful

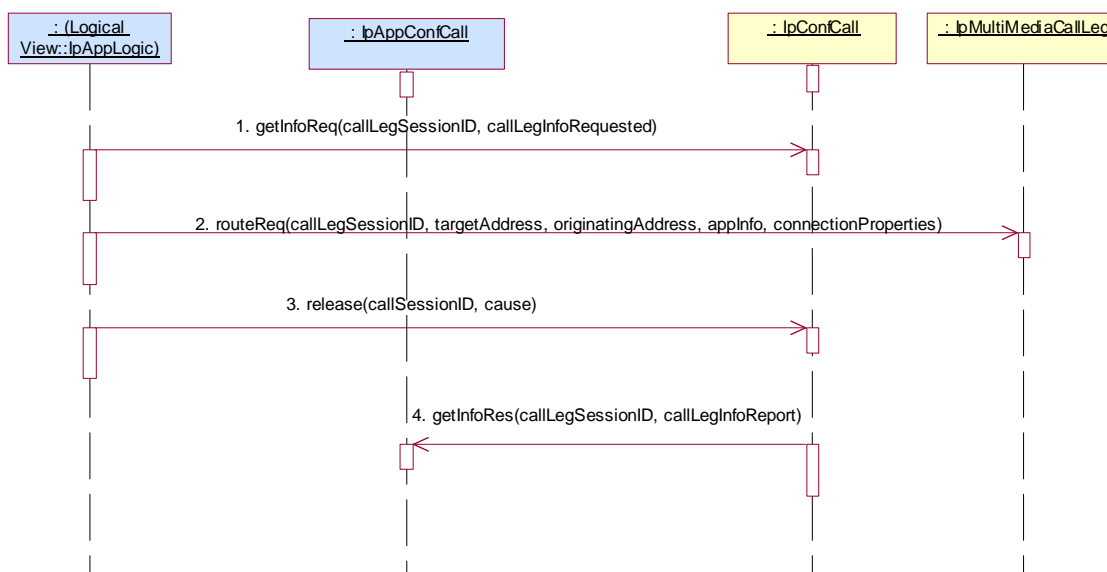
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()** on IpConfCall
Parameters: valid callSessionID returned in preamble, valid callInfoRequested
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
4. Method call **release()** on IpConfCall
Parameters: valid callSessionID returned in preamble, valid cause
Check: no exception is returned
5. Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppConfCall** interface.
Parameters: callSessionID given in 1., valid callInfoReport.



Test CCC _ IpConfCall _10

Summary: IpConfCall, setChargePlan, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

1. Method call **setChargePlan()** on IpConfCall
 Parameters: valid callSessionID returned in 1., valid callChargePlan
 Check: no exception is returned

**Test CCC _ IpConfCall _11**

Summary: IpConfCall, setAdviceOfCharge, successful

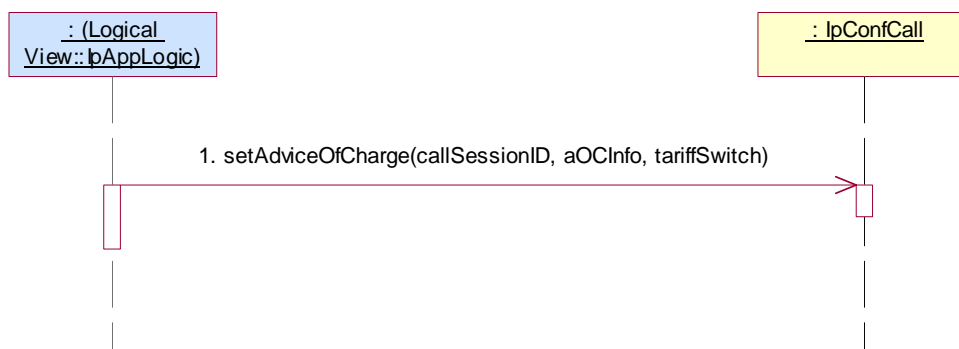
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpConfCall
 Parameters: valid callSessionID returned in 1., valid aOCInfo, valid tariffSwitch
 Check: no exception is returned



Test CCC _ IpConfCall _12

Summary: IpConfCall, superviseReq, successful

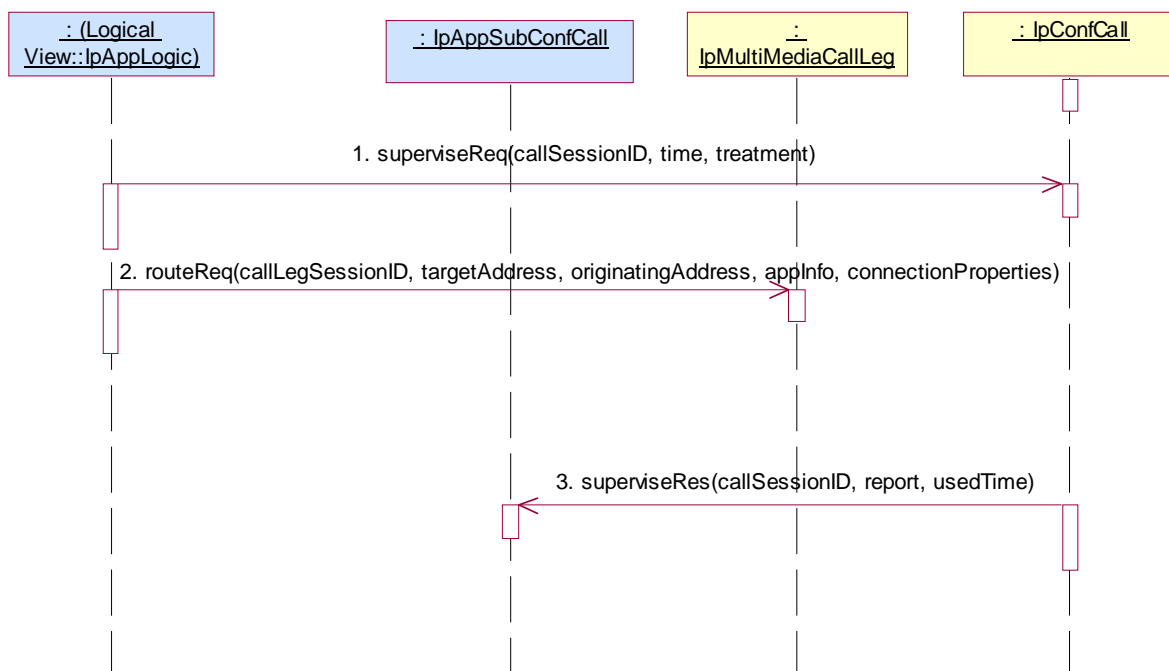
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg and superviseReq methods are supported.

Test Sequence:

1. Method call **superviseReq()** on IpConfCall
 Parameters: valid callSessionID returned in preamble, valid time, valid treatment
 Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned
3. Triggered action: cause IUT to call **superviseRes()** method on the tester's (Application) **IpAppConfCall** interface.
 Parameters: callSessionID given in 1., valid report, valid usedTime.



Test CCC _ IpConfCall _13

Summary: IpConfCall, all methods, successful

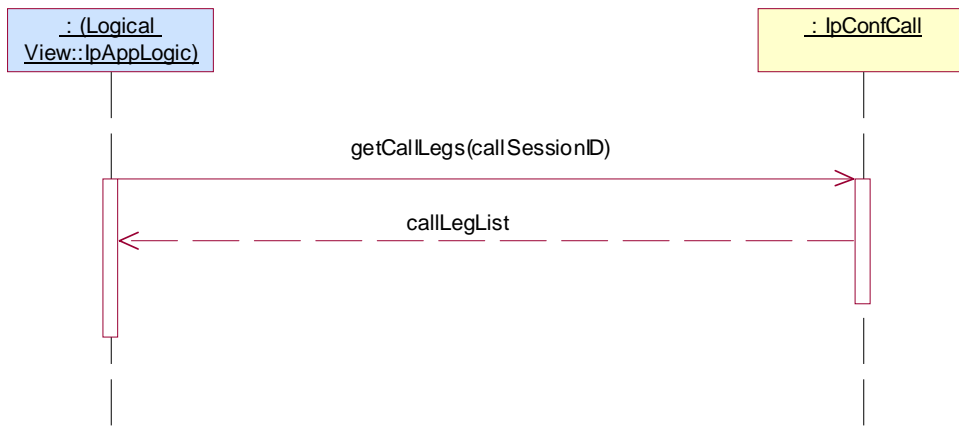
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: getCallLegs method is supported.

Test Sequence:

1. Method call **getCallLegs()** on IpConfCall
Parameters: valid callSessionID returned in preamble.
Check: valid value of TpCallLegIdentifierSet which contains CallLegIdentifier returned in preamble.



5.2.4.2.4 Optional, invalid behaviour

Test CCC _ IpConfCall _14

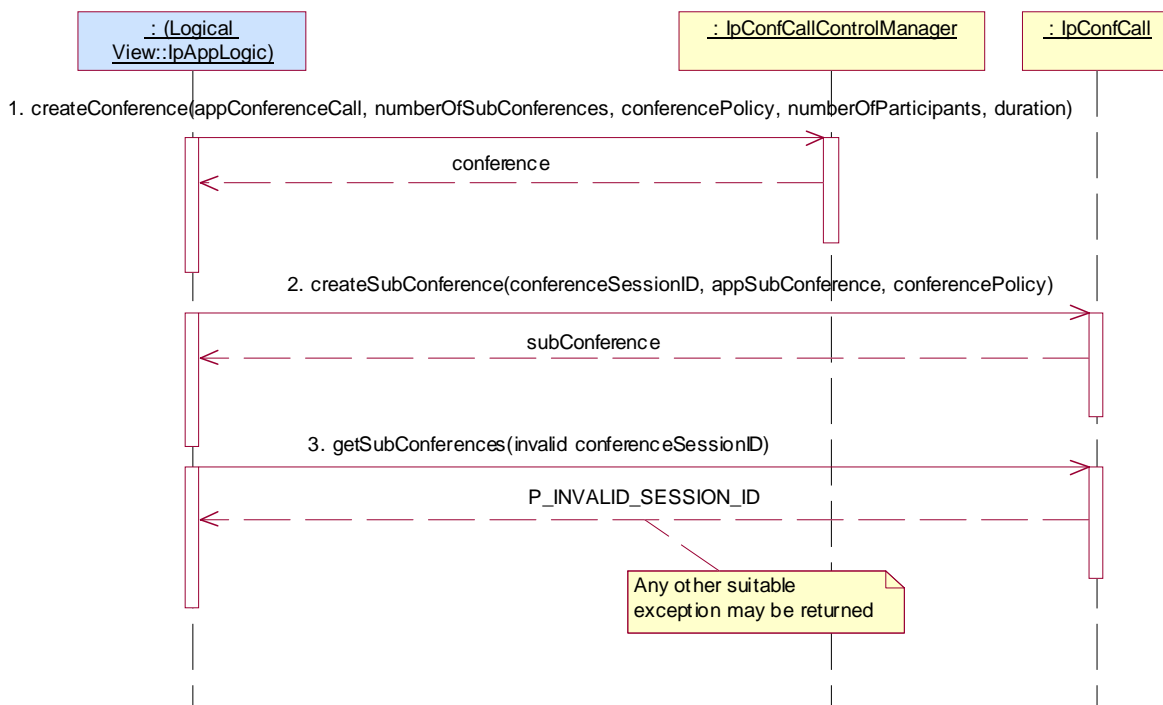
Summary: IpConfCall, getSubConferences, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 9.3.3

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
 Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()**
 Parameters: invalid conferenceSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpConfCall _15

Summary: IpConfCall, leaveMonitorReq, P_INVALID_SESSION_ID

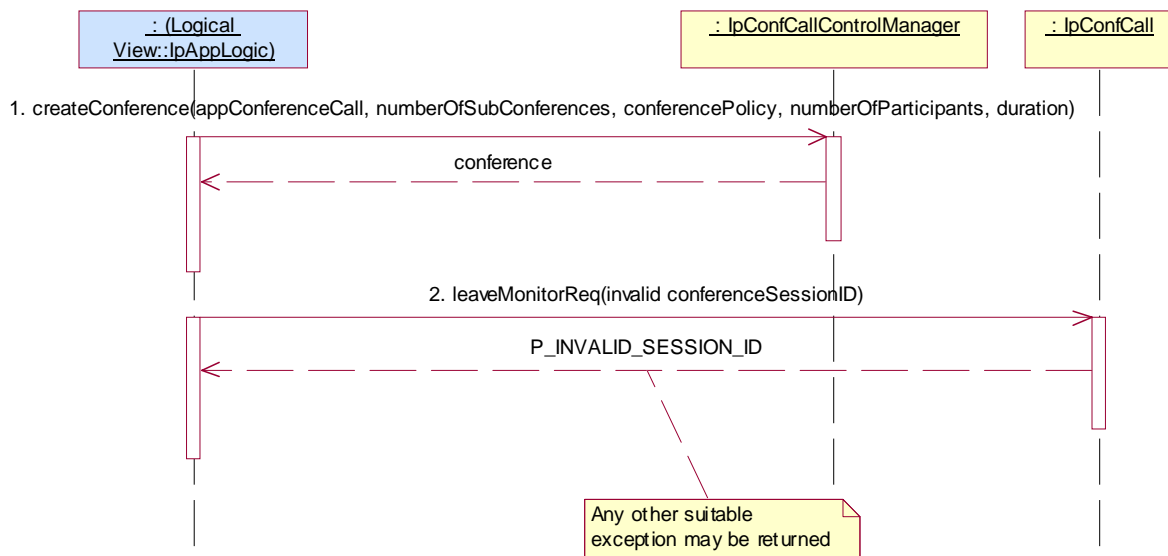
Reference: ES 201 915-4 [1], clause 9.3.3

Preamble: Application has a reference interface used for callbacks.

Condition: leaveMonitorReq method is supported.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **leaveMonitorReq()**
 Parameters: invalid conferenceSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpConfCall _16

Summary: IpConfCall, superviseVolumeReq, P_INVALID_SESSION_ID

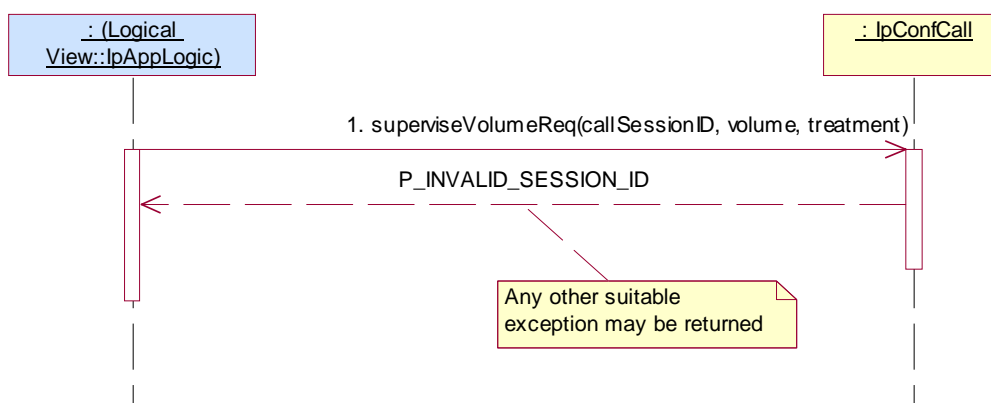
Reference: ES 201 915-4 [1], clause 8.3.1

Preamble: Same as CCC _ IpConfCall _02

Condition: superviseVolumeReq method is supported.

Test Sequence:

1. Method call **superviseVolumeReq()** on IpConfCall
 Parameters: invalid callSessionID, valid volume, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpConfCall _17**

Summary: IpConfCall, getInfoReq, P_INVALID_SESSION_ID

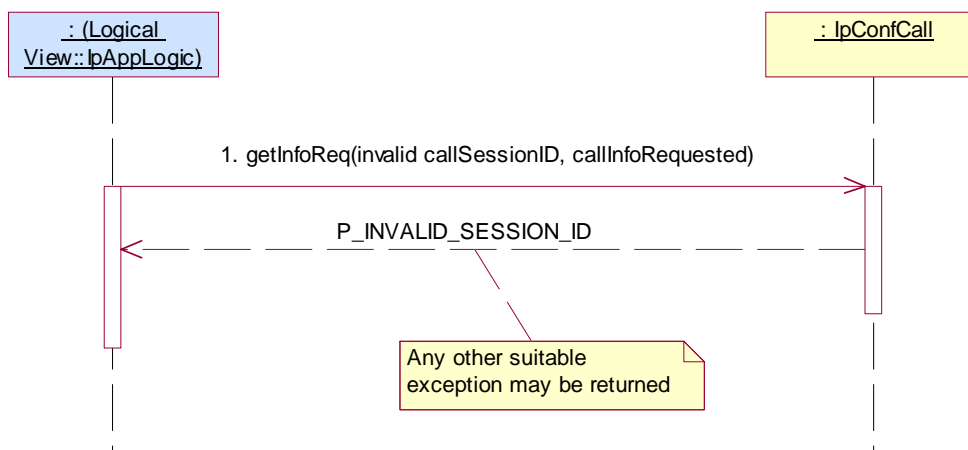
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: getInfoReq method is supported.

Test Sequence:

1. Method call **getInfoReq()** on IpConfCall
 Parameters: invalid callSessionID, valid callInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpConfCall _18

Summary: IpConfCall, setChargePlan, P_INVALID_SESSION_ID

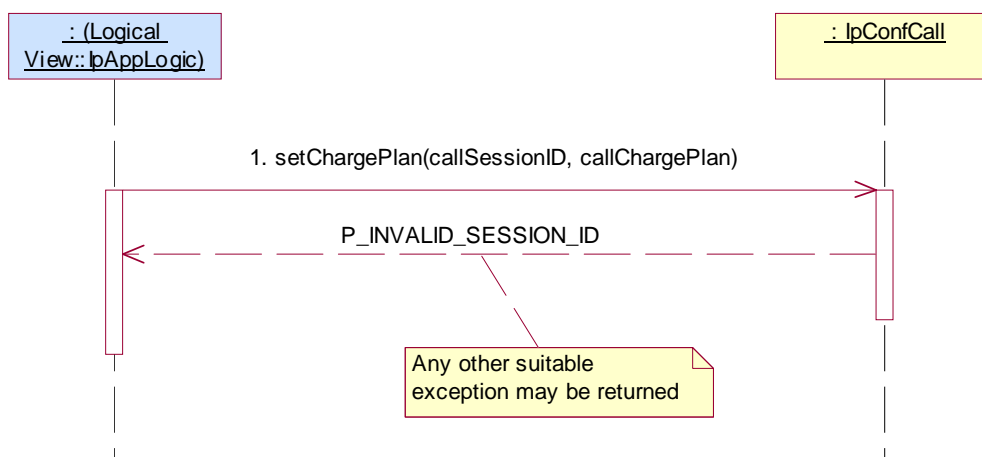
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: setChargePlan method is supported.

Test Sequence:

1. Method call **setChargePlan()** on IpConfCall
 Parameters: invalid callSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpConfCall _19**

Summary: IpConfCall, setAdviceOfCharge, P_INVALID_SESSION_ID

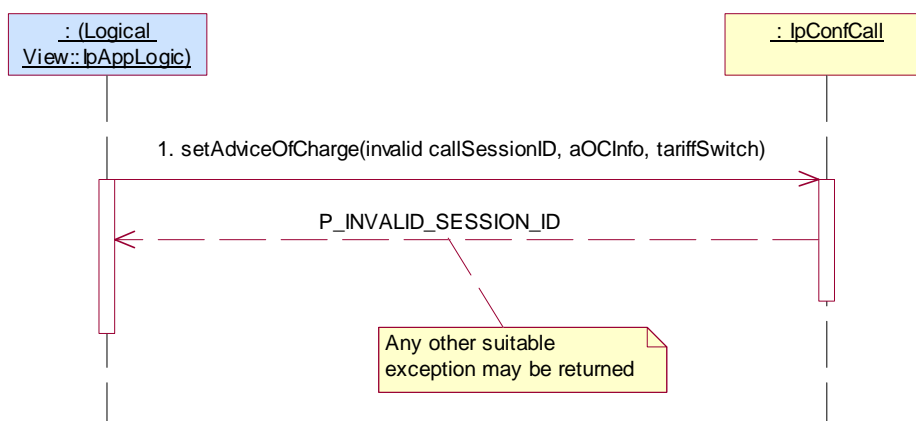
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: setAdviceOfCharge method is supported.

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpConfCall
 Parameters: invalid callSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpConfCall _20

Summary: IpConfCall, setAdviceOfCharge, P_INVALID_CURRENCY

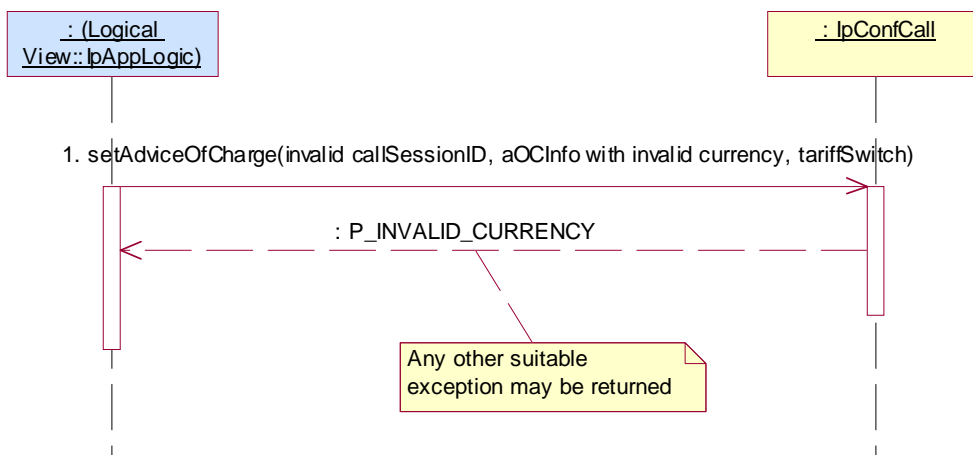
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: setAdviceOfCharge method is supported.

Test Sequence:

- Method call **setAdviceOfCharge()** on IpConfCall
 Parameters: valid callSessionID returned in 1., aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned



Test CCC _ IpConfCall _21

Summary: IpConfCall, setAdviceOfCharge, P_INVALID_AMOUNT

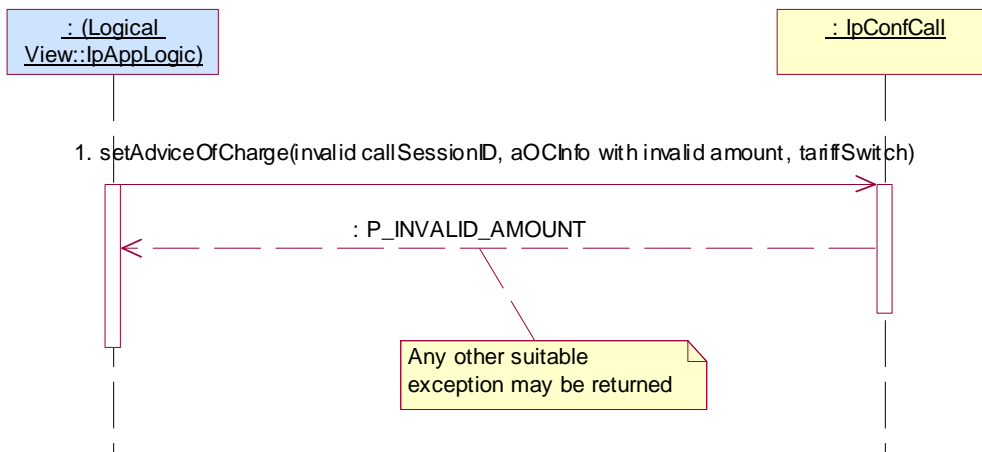
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: setAdviceOfCharge method is supported.

Test Sequence:

- Method call **setAdviceOfCharge()** on IpConfCall
 Parameters: valid callSessionID returned in 1., aOCInfo, with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned



Test CCC _ IpConfCall _22

Summary: IpConfCall, superviseReq, P_INVALID_SESSION_ID

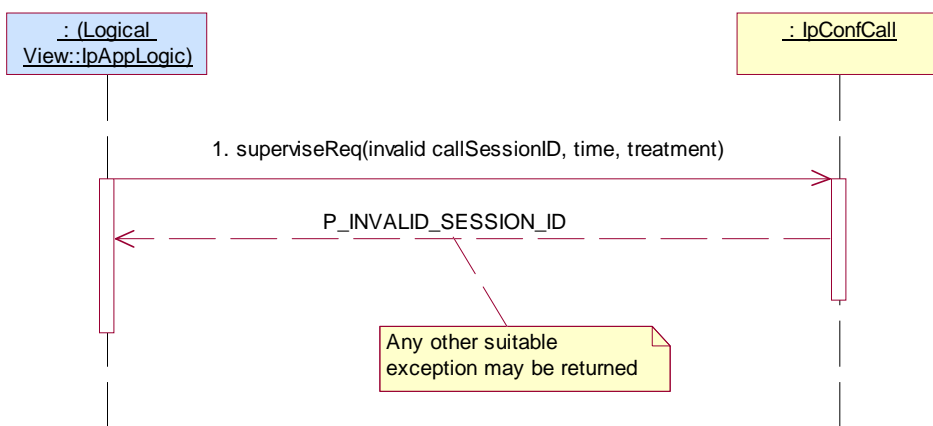
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC _ IpConfCall _02

Condition: superviseReq method is supported.

Test Sequence:

1. Method call **superviseReq()** on IpConfCall
 Parameters: invalid callSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpConfCall _23

Summary: IpConfCall, getCallLegs, P_INVALID_SESSION_ID

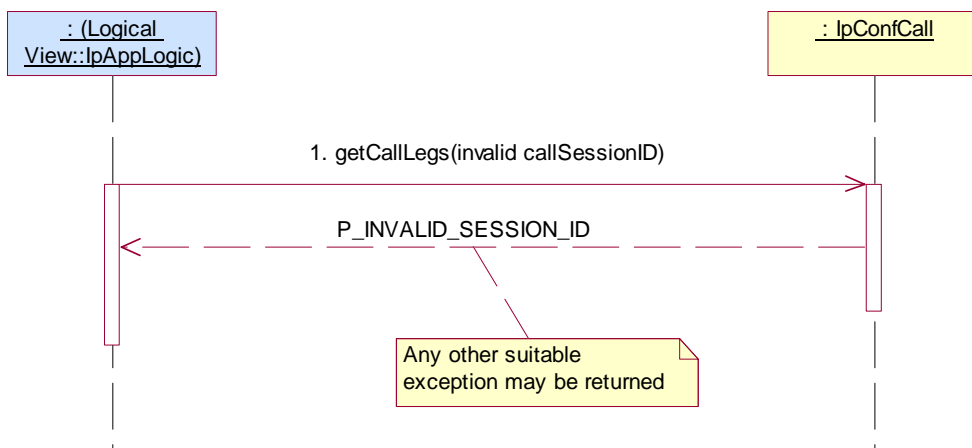
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg, getCallLegs methods are supported.

Test Sequence:

1. Method call **getCallLegs()** on IpConfCall
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.4.3 IpSubConfCall

5.2.4.3.1 Mandatory, valid behaviour

Test CCC _ IpSubConfCall _01

Summary: IpSubConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Application has a valid callSessionID returned by one of the three following sequence:

1. Method call **createConference()** on IpConfCallControlManager
Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.

either

4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
5. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

4. Method call **createAndRouteCallLegReq()** on IpSubConfCall
Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

or

1. Method call **reserveResources()**
Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
Check: valid value of TpResourceReservation is returned
2. Triggered action: cause IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
Parameters: valid conferenceCall.
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.

either

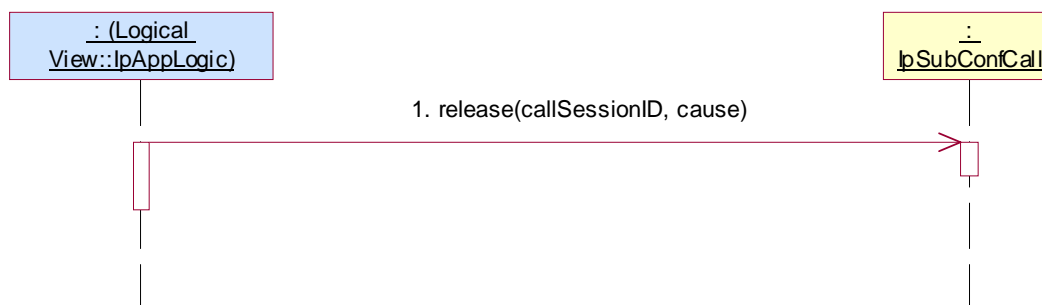
4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
5. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

4. Method call **createAndRouteCallLegReq()** on IpSubConfCall
Parameters: valid callSessionID reported in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

Test Sequence:

1. Method call **release()** on IpSubConfCall
Parameters: valid callSessionID returned in preamble, valid cause
Check: no exception is returned



Test CCC _ IpSubConfCall _02

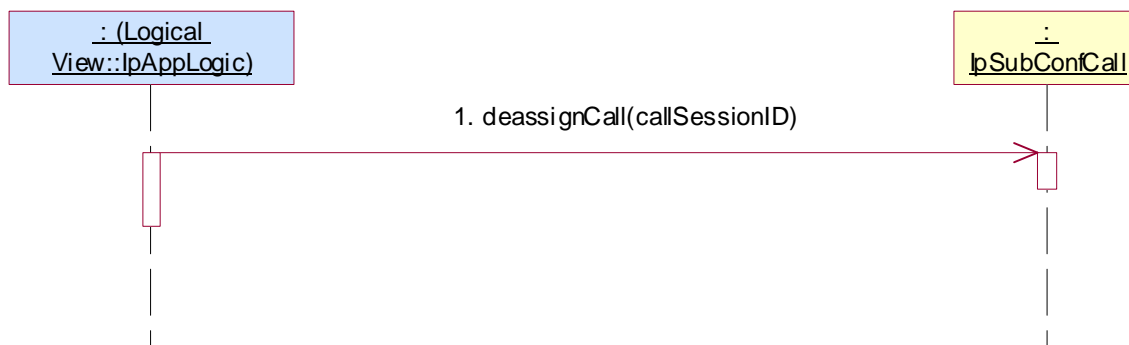
Summary: IpSubConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **deassignCall()** on IpSubConfCall
Parameters: valid callSessionID returned in preamble.
Check: no exception is returned



According Call Control SCF specification, at least one of the two following test sequence is mandatory

Test CCC _ IpSubConfCall _03

Summary: IpSubConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Condition: createCall, createCallLeg methods are supported.

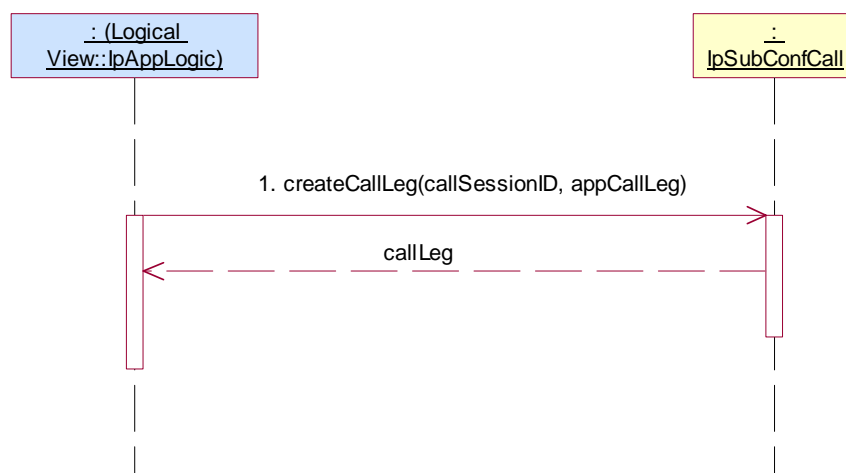
Preamble: Same as CCC_IpConfCall_02

Test Sequence:

1. Method call **createCallLeg()** on IpSubConfCall

Parameters: valid callSessionID returned in 2., valid appCallLeg

Check: valid value of TpCallLegIdentifier is returned



Test CCC _ IpSubConfCall _04

Summary: IpSubConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

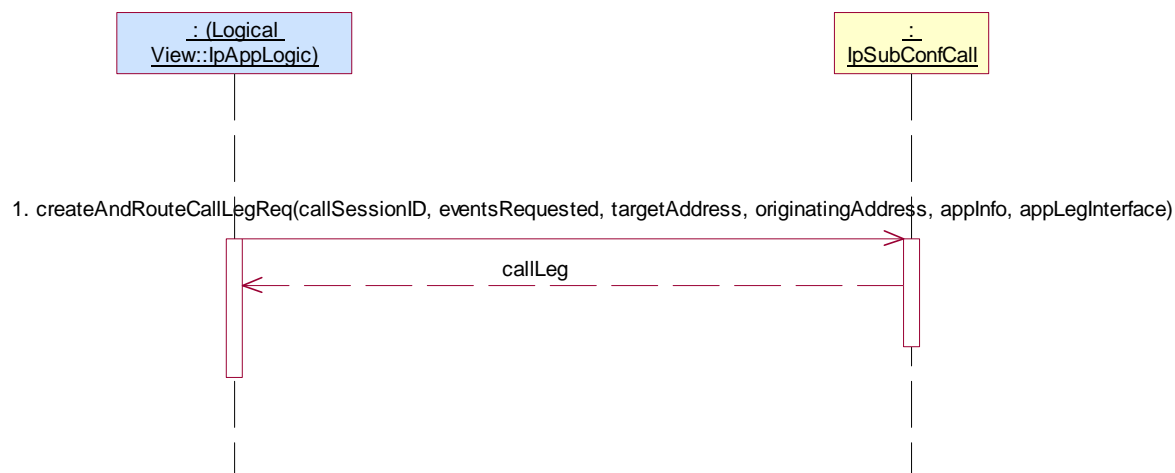
Condition: createCall, createAndRouteCallLeg method is supported.

Preamble CCC_IpConfCall_02

1. Method call **createAndRouteCallLegReq()** on IpSubConfCall

Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface

Check: valid value of TpCallLegIdentifier



According Call Control SCF specification, at least one of the two following test sequence is mandatory

Test CCC _ IpSubConfCall _05

Summary: IpSubConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Application has a valid subConferenceSessionID returned by one of the following sequence:

1. Method call **createConference()** on IpConfCallControlManager
Parameters: valid appConferenceCall, valid numberOfSubConferences equal to 1, valid conferencePolicy, valid numberOfParticipants, valid duration
Check: valid value of TpConfCallIdentifier is returned
2. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned.

either

3. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
4. Method call **eventReportReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3, valid eventsRequested
Check: no exception is returned
5. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpSubConfCall
Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

and then, for both:

- 6/4 Triggered action: cause IUT to interrupted call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID, errorIndication

or

1. Method call **reserveResources()**
Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
Check: valid value of TpResourceReservation is returned
2. Triggered action: cause IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
Parameters: valid conferenceCall.
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.

either

4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
5. Method call **eventReportReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3, valid eventsRequested
Check: no exception is returned
6. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
Check: no exception is returned

or

4. Method call **createAndRouteCallLegReq()** on IpSubConfCall
Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier

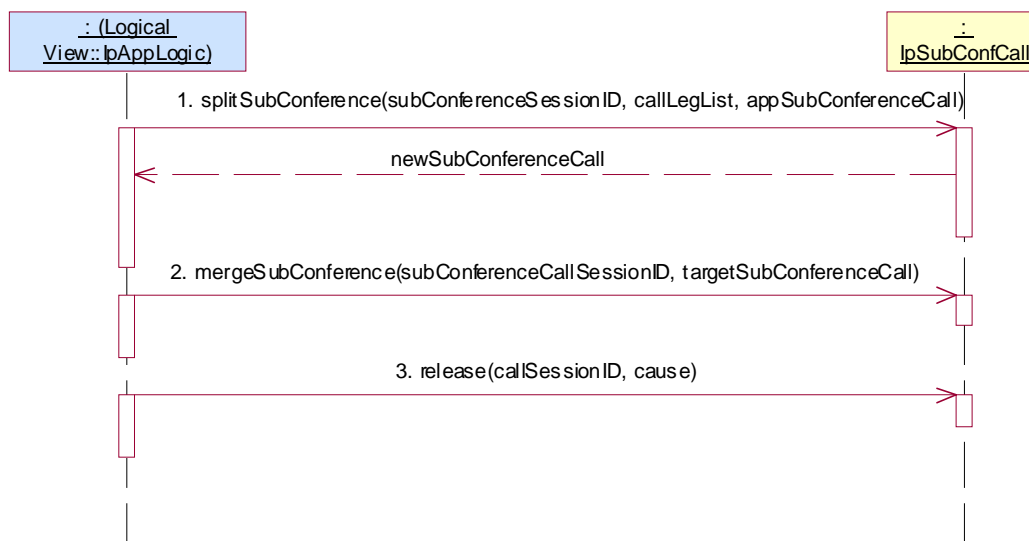
and then, for both:

- 7/5 Triggered action: cause IUT to interrupted call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID, errorIndication

Condition: splitSubConference method is supported.

Test Sequence:

1. Method call **splitSubConference()**
Parameters: valid subConferenceSessionID returned in preamble, valid callLegList, valid appSubConferenceCall
Check: valid value of TpSubConfCallIdentifierSet is returned.
2. Method call **mergeSubConference()**
Parameters: valid subConferenceSessionID returned in preamble, valid targetSubConferenceCall returned in 3.
Check: no exception is returned.
3. Method call **release()** on IpSubConfCall
Parameters: valid callLegSessionID returned in preamble, valid cause
Check: no exception is returned



Test CCC _ IpSubConfCall _06

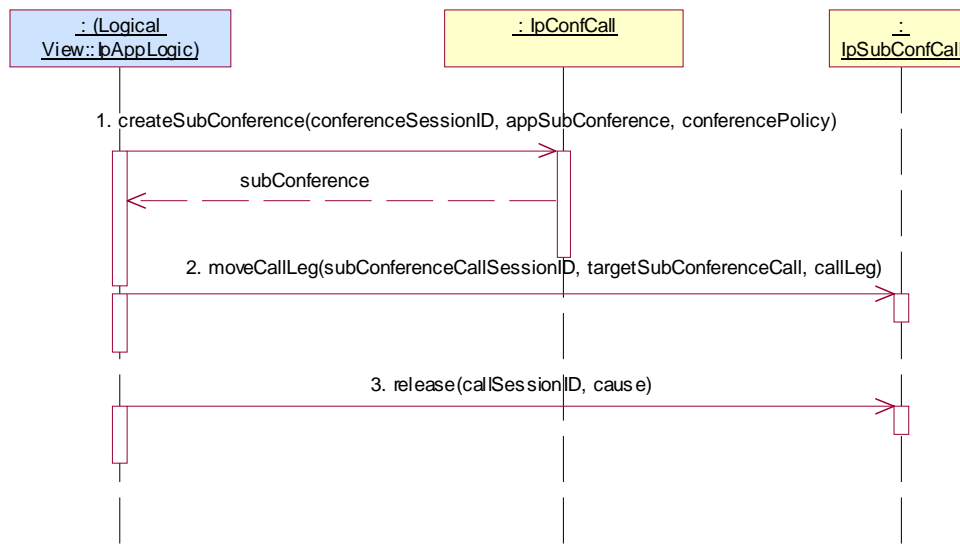
Summary: IpSubConfCall, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Test Sequence:

1. Method call **createSubConference()** on IpConfCall
 Parameters: valid conferenceSessionID returned in preamble, valid appSubConference, valid conferencePolicy
 Check: valid value of TpSubConfCallIdentifier is returned
2. Method call **moveCallLeg()**
 Parameters: valid subConferenceSessionID returned in preamble, valid targetSubConferenceCall returned in 1., valid callLeg
 Check: no exception is returned.
3. Method call **release()** on IpConfCall
 Parameters: valid callSessionID returned in preamble, valid cause
 Check: no exception is returned



5.2.4.3.2 Mandatory, invalid behaviour

Test CCC _ IpSubConfCall _07

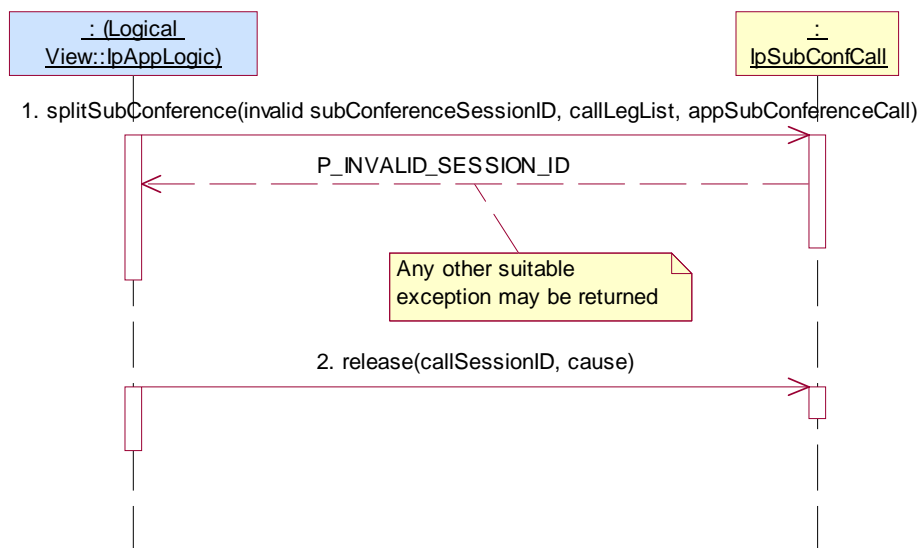
Summary: IpSubConfCall, splitSubConference, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Test Sequence:

1. Method call **splitSubConference()**
 Parameters: invalid subConferenceSessionID, valid callLegList, valid appSubConferenceCall
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _08

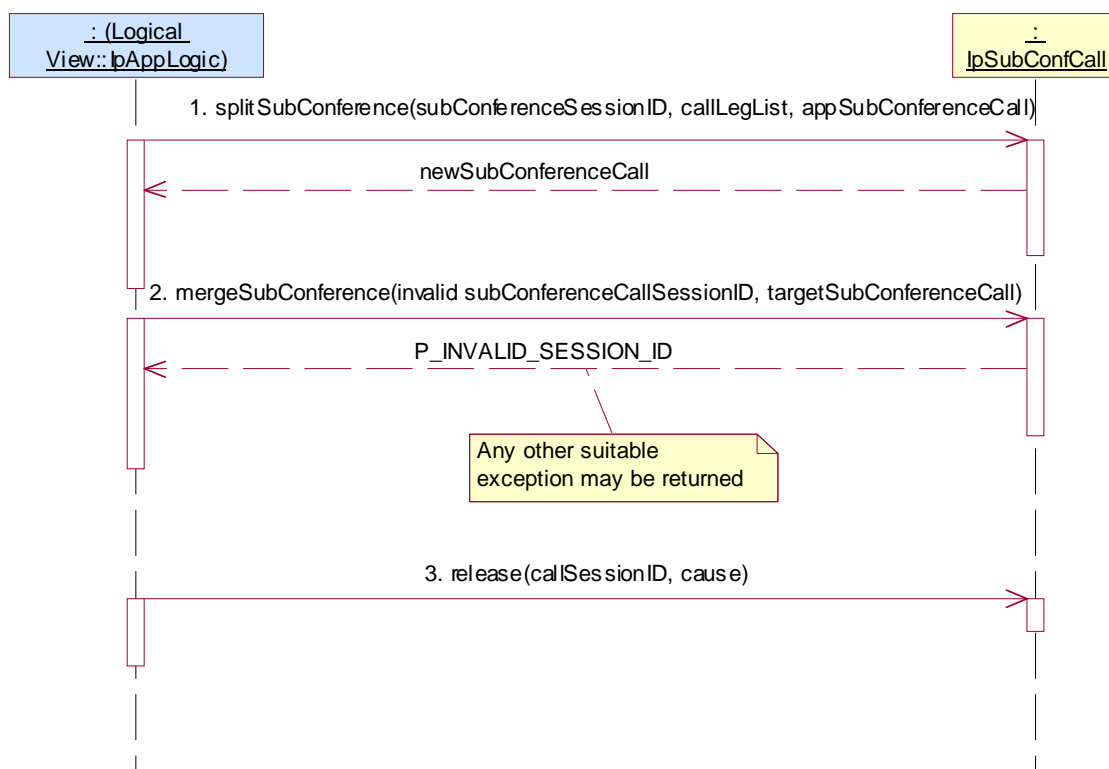
Summary: IpSubConfCall, mergeSubConference, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Test Sequence:

1. Method call **splitSubConference()**
 Parameters: valid subConferenceSessionID returned in preamble, valid callLegList, valid appSubConferenceCall
 Check: valid value of TpSubConfCallIdentifierSet is returned.
2. Method call **mergeSubConference()**
 Parameters: invalid subConferenceSessionID, valid targetSubConferenceCall
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _09

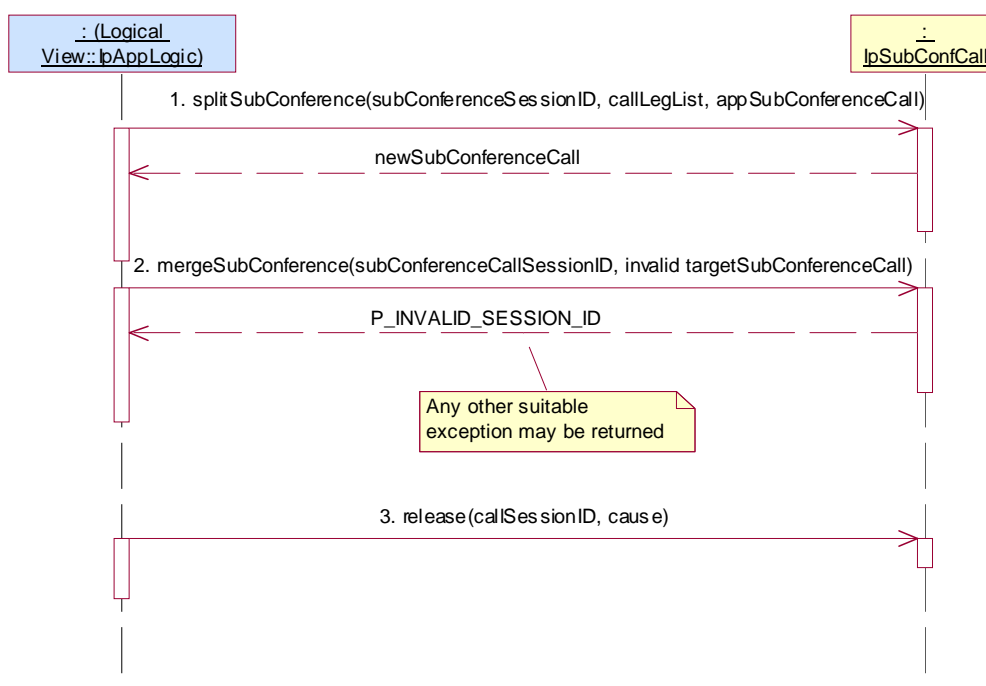
Summary: IpSubConfCall, mergeSubConference, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Test Sequence:

1. Method call **splitSubConference()**
 Parameters: valid subConferenceSessionID returned in preamble, valid callLegList, valid appSubConferenceCall
 Check: valid value of TpSubConfCallIdentifierSet is returned.
2. Method call **mergeSubConference()**
 Parameters: valid subConferenceSessionID, invalid targetSubConferenceCall
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _10

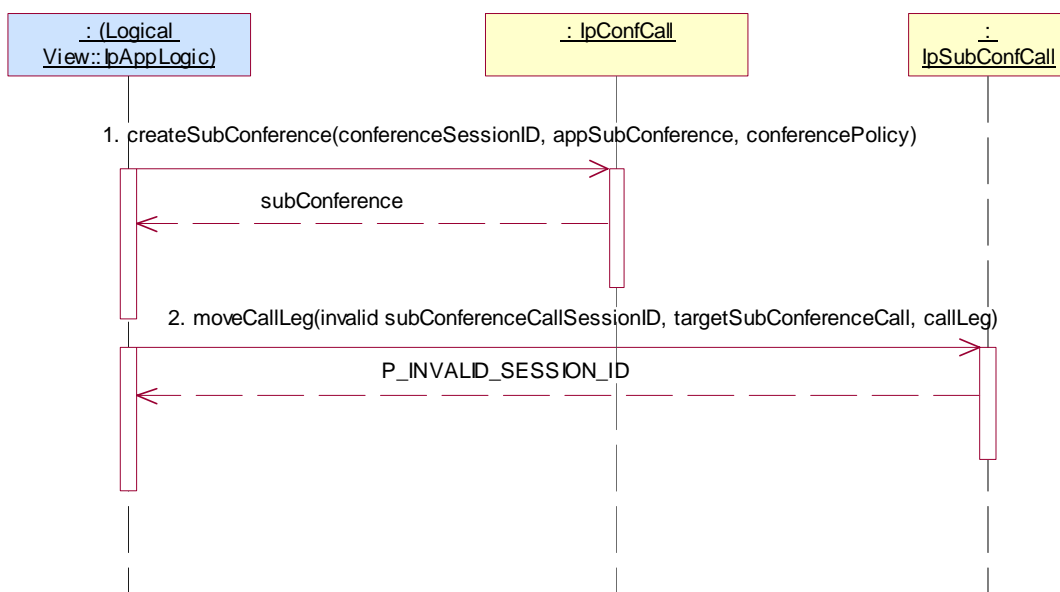
Summary: IpSubConfCall, moveCallLeg, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Test Sequence:

1. Method call **createSubConference()** on IpConfCall
 Parameters: valid conferenceSessionID returned in preamble, valid appSubConference, valid conferencePolicy
 Check: valid value of TpSubConfCallIdentifier is returned
2. Method call **moveCallLeg()**
 Parameters: invalid subConferenceSessionID, valid targetSubConferenceCall, valid callLeg
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _11

Summary: IpSubConfCall, moveCallLeg, P_INVALID_SESSION_ID

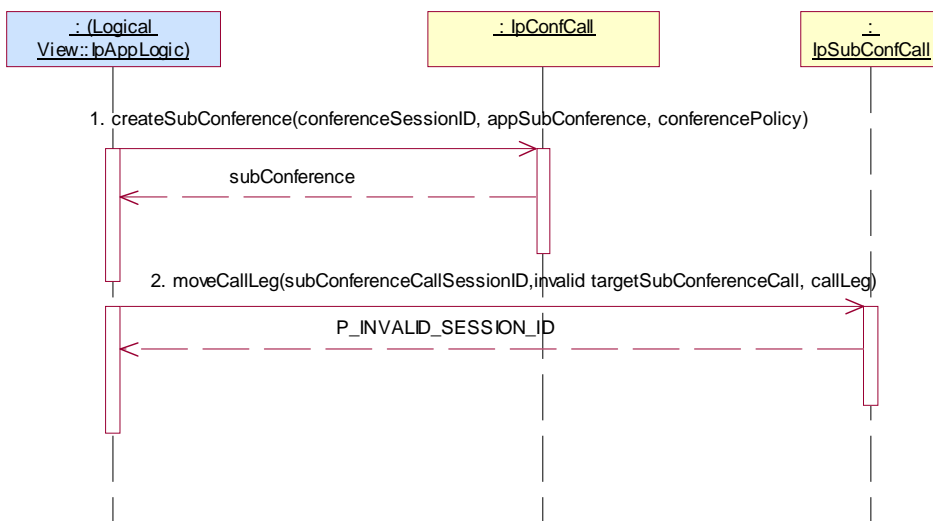
Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Test Sequence:

1. Method call **createSubConference()** on IpConfCall
 Parameters: valid conferenceSessionID returned in preamble, valid appSubConference, valid conferencePolicy
 Check: valid value of TpSubConfCallIdentifier is returned

2. Method call **moveCallLeg()**
 Parameters: valid subConferenceSessionID, invalid targetSubConferenceCall, valid callLeg
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _12

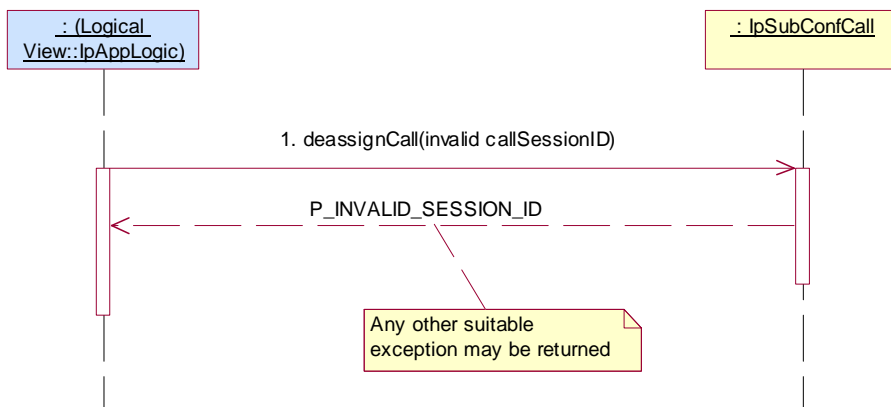
Summary: IpSubConfCall, deassignCall, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **deassignCall()** on IpSubConfCall
 Parameters: invalid callSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpSubConfCall _13

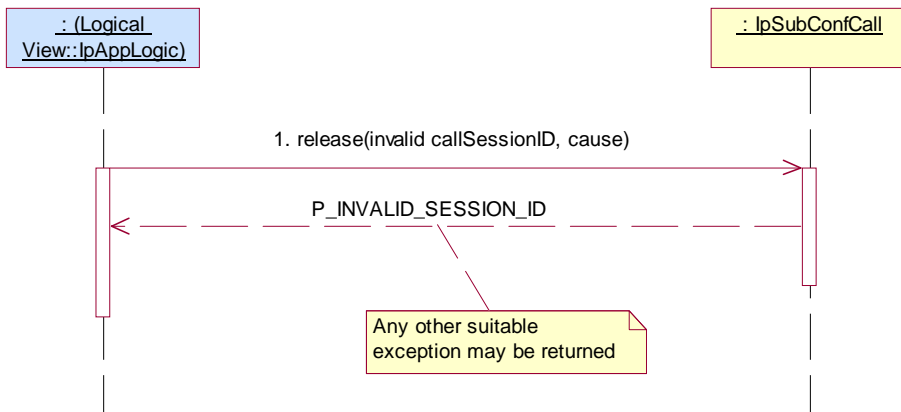
Summary: IpSubConfCall, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **release()** on IpSubConfCall
 Parameters: invalid callSessionID, valid cause
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpSubConfCall _14

Summary: IpSubConfCall, createCallLeg, P_INVALID_SESSION_ID

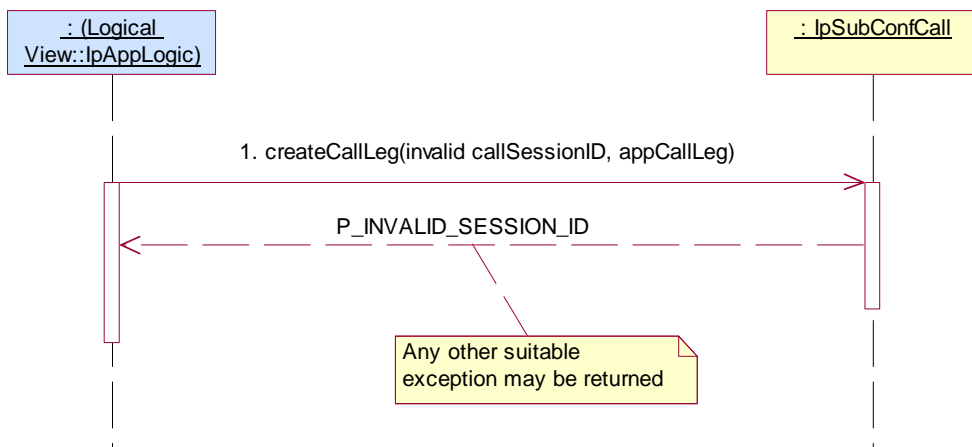
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: createCallLeg method is supported.

Test Sequence:

1. Method call **createCallLeg()** on IpSubConfCall
 Parameters: invalid callSessionID, valid appCallLeg
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpSubConfCall _15

Summary: IpSubConfCall, createCallLeg, P_INVALID_INTERFACE_TYPE

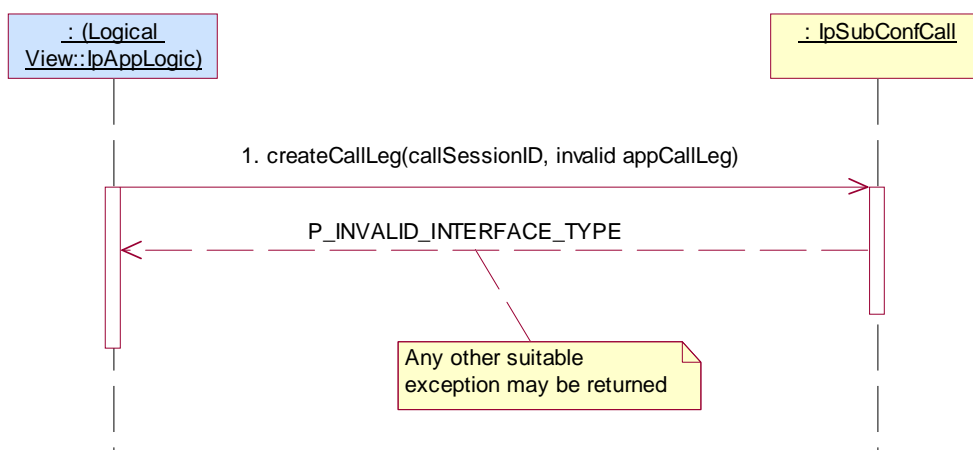
Reference: ES 201 915-4 [1], clause 7.3.1 and 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: CreateCallLeg method is supported.

Test Sequence:

- Method call **createCallLeg()** on IpSubConfCall
 Parameters: valid callSessionID returned in preamble, invalid appCallLeg
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned

**Test CCC _ IpSubConfCall _16**

Summary: IpSubConfCall, createAndRouteCallLegReq, P_INVALID_SESSION_ID

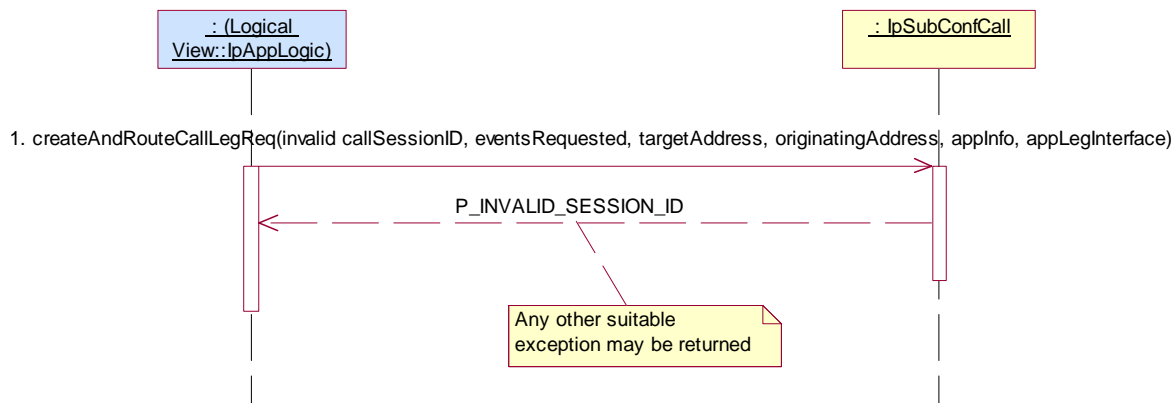
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: invalid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpSubConfCall _17

Summary: IpSubConfCall, createAndRouteCallLegReq, P_INVALID_INTERFACE_TYPE

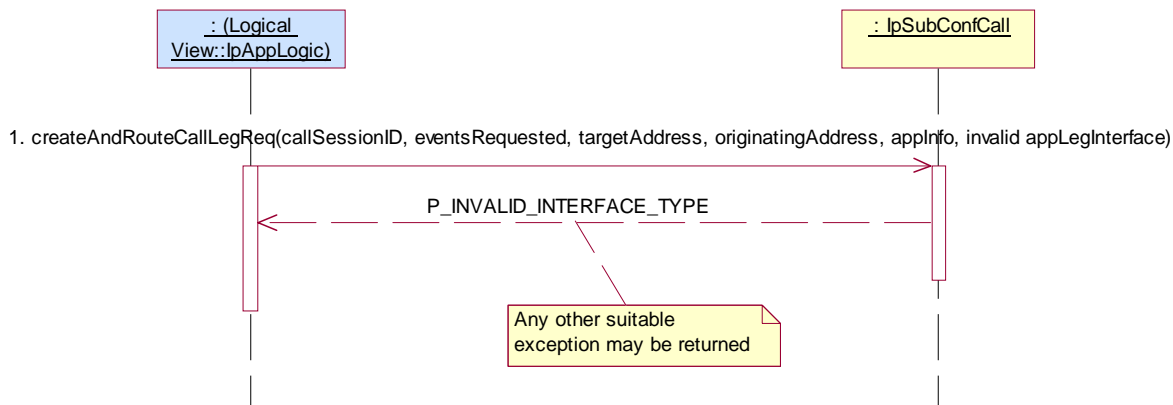
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, invalid appLegInterface
 Check: P_INVALID_INTERFACE_TYPE, or another suitable exception, is returned



Test CCC _ IpSubConfCall _18

Summary: IpSubConfCall, createAndRouteCallLegReq, P_INVALID_ADDRESS

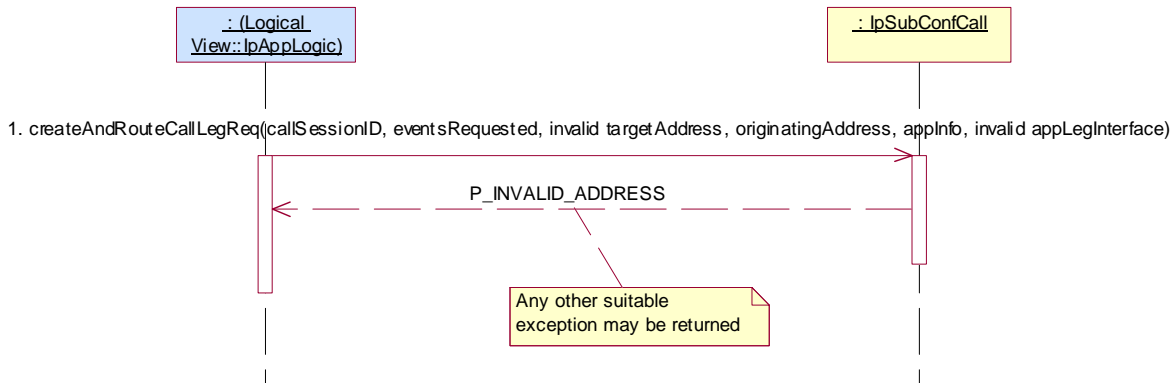
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: valid callSessionID, valid eventsRequested, invalid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test CCC _ IpSubConfCall _19

Summary: IpSubConfCall, createAndRouteCallLegReq, P_INVALID_ADDRESS

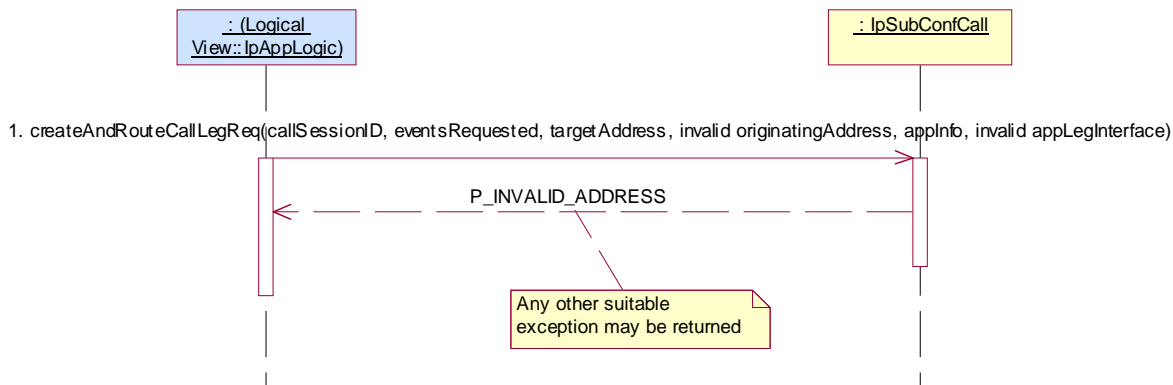
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: valid callSessionID, valid eventsRequested, valid targetAddress, invalid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test CCC _ IpSubConfCall _20

Summary: IpSubConfCall, createAndRouteCallLegReq, P_INVALID_CRITERIA

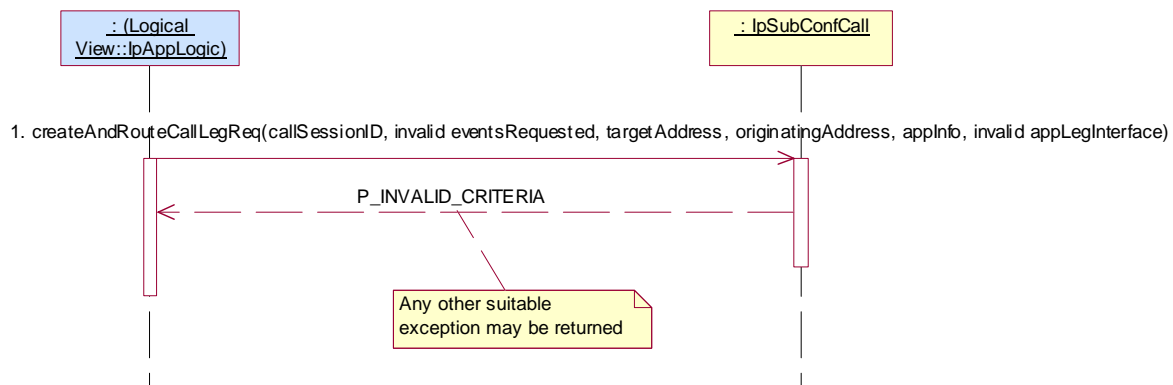
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble: Same as CCC_IpConfCall_02

Condition: CreateAndRouteCallLeg method is supported.

Test Sequence:

- Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: valid callSessionID, invalid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



5.2.4.3.3 Optional, valid behaviour

Test CCC _ IpSubConfCall _21

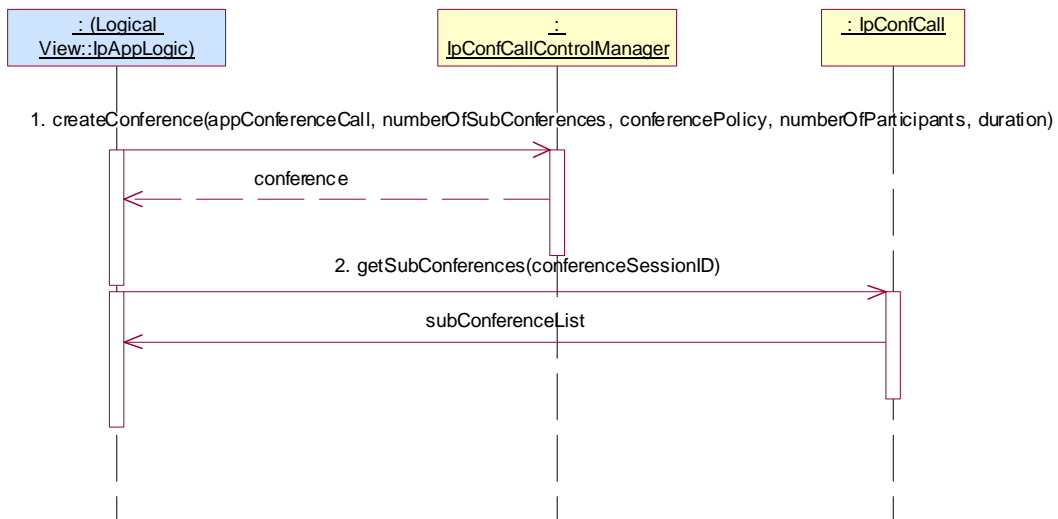
Summary: IpSubConfCall, all methods, successful

Reference: ES 201 915-4 [1], clause 9.3.1 and 9.3.3.

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences equal to 1, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **getSubConferences()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1.
 Check: valid value of TpSubConfCallIdentifierSet is returned.



Test CCC _ IpSubConfCall _22

Summary: IpSubConfCall, all methods, successful

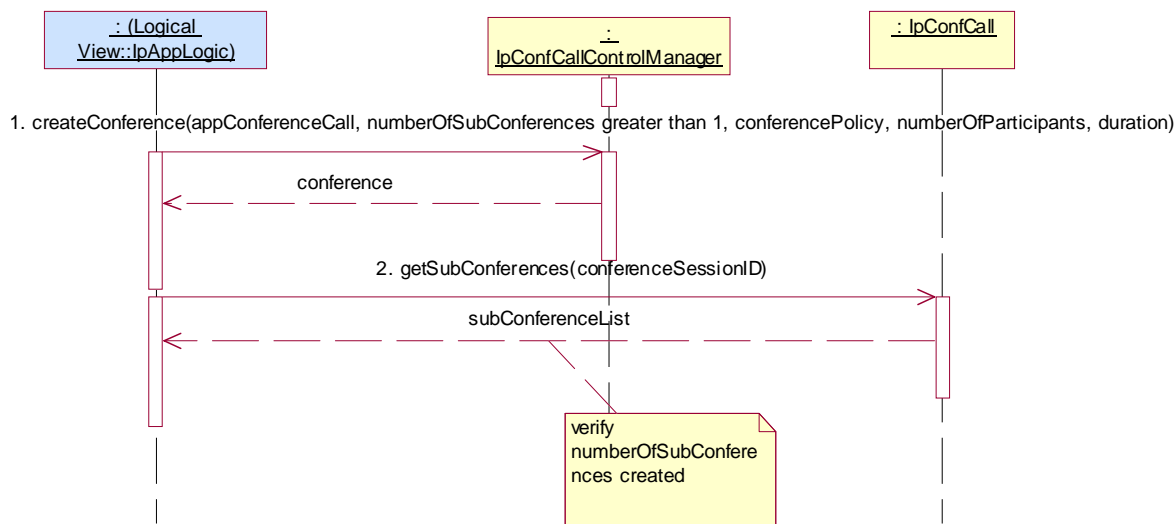
Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Application has a reference interface used for callbacks.

Test Sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences greater than 1, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned

2. Method call **getSubConferences()** on IpConfCall
 Parameters: valid conferenceSessionID returned in 1.
 Check: valid value of TpSubConfCallIdentifierSet is returned and verify numberOfSubConferences created.



Test CCC _ IpSubConfCall _23

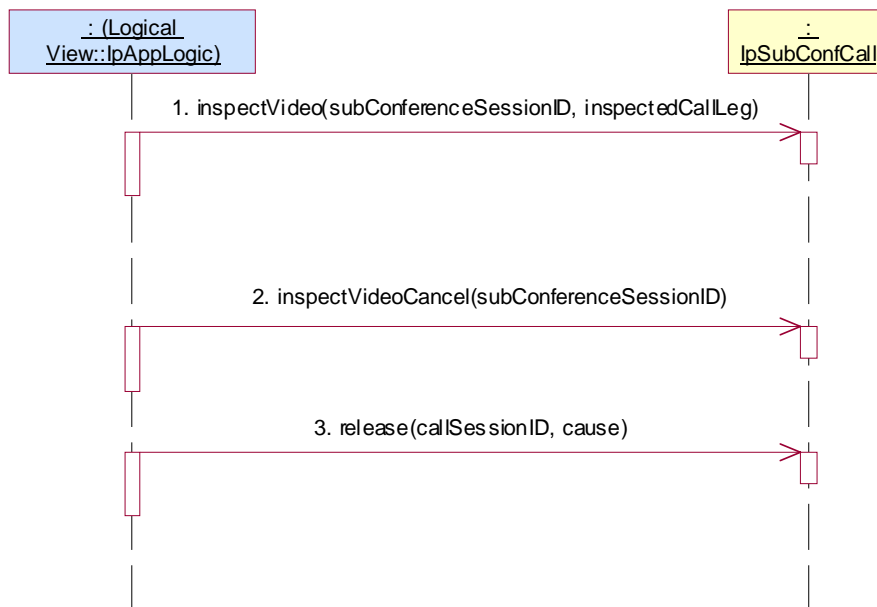
Summary: IpSubConfCall, all methods, successful

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **inspectVideo()**
Parameters: valid subConferenceSessionID returned in preamble, valid inspectedCallLeg
Check: no exception is returned.
2. Method call **inspectVideoCancel()**
Parameters: valid subConferenceSessionID returned in preamble
Check: no exception is returned.
3. Method call **release() on IpSubConfCall**
Parameters: valid callLegSessionID returned in preamble, valid cause
Check: no exception is returned



Test CCC _ IpSubConfCall _24

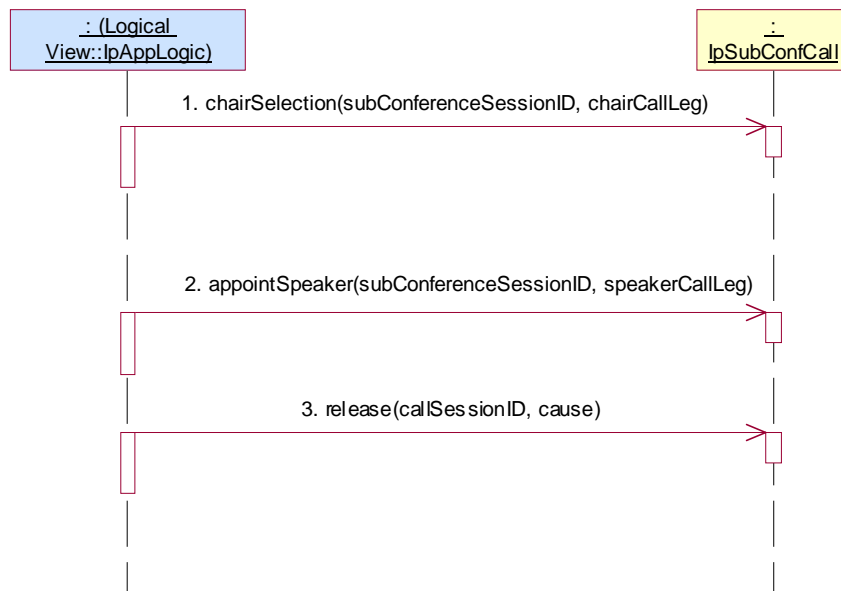
Summary: IpSubConfCall, all methods, successful

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **chairSelection()**
Parameters: valid subConferenceSessionID returned in preamble, valid chairCallLeg
Check: no exception is returned.
2. Method call **appointSpeaker()**
Parameters: valid subConferenceSessionID returned in preamble, valid speakerCallLeg
Check: no exception is returned.
3. Method call **release() on IpSubConfCall**
Parameters: valid callLegSessionID returned in preamble, valid cause
Check: no exception is returned



Test CCC _ IpSubConfCall _25

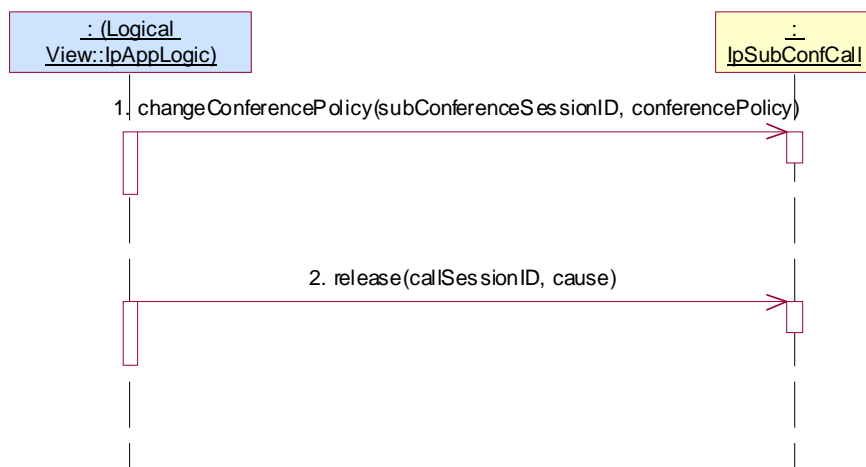
Summary: IpSubConfCall, all methods, successful

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **changeConferencePolicy()**
 Parameters: valid subConferenceSessionID returned in preamble, valid conferencePolicy
 Check: no exception is returned.
2. Method call **release() on IpSubConfCall**
 Parameters: valid callLegSessionID returned in preamble, valid cause
 Check: no exception is returned



Test CCC _ IpSubConfCall _26

Summary: IpSubConfCall, getInfoReq, successful

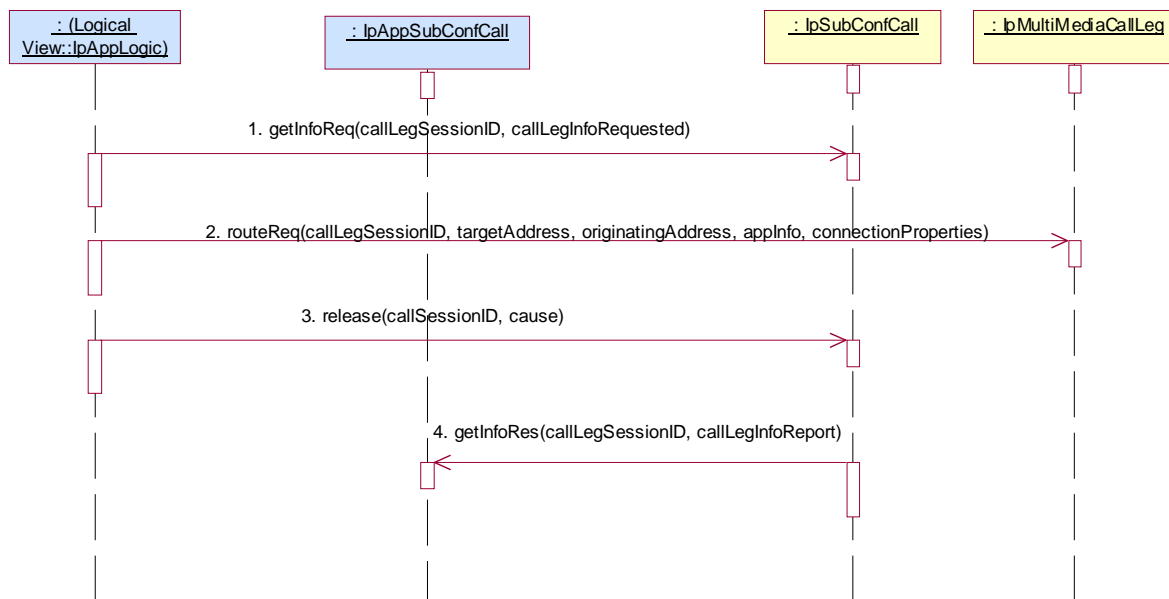
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()** on IpSubConfCall
Parameters: valid callSessionID returned in preamble, valid callInfoRequested
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Method call **release()** on IpSubConfCall
Parameters: valid callSessionID returned in preamble, valid cause
Check: no exception is returned
4. Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppSubConfCall** interface.
Parameters: callSessionID given in 1., valid callInfoReport.



Test CCC _ IpSubConfCall _27

Summary: IpSubConfCall, setChargePlan, successful

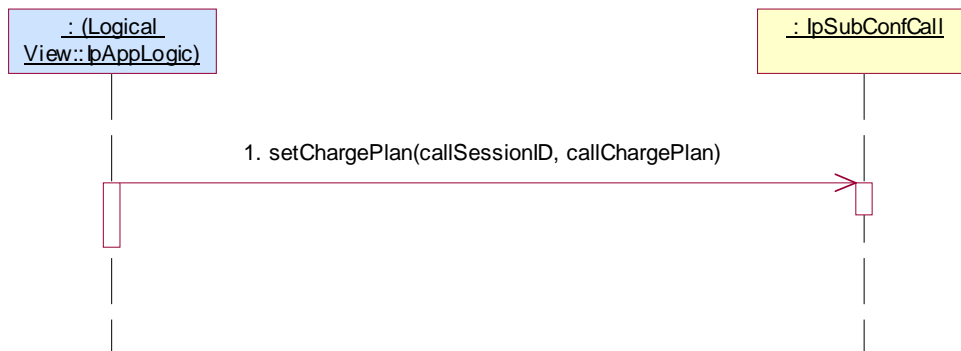
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

1. Method call **setChargePlan()** on IpSubConfCall
 Parameters: valid callSessionID returned in 1., valid callChargePlan
 Check: no exception is returned

**Test CCC _ IpSubConfCall _28**

Summary: IpSubConfCall, setAdviceOfCharge, successful

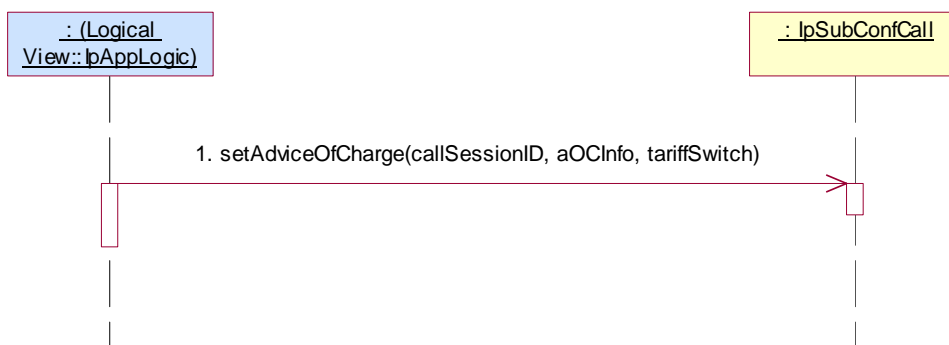
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpSubConfCall
 Parameters: valid callSessionID returned in 1., valid aOCInfo, valid tariffSwitch
 Check: no exception is returned



Test CCC _ IpSubConfCall _29

Summary: IpSubConfCall, all methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpSubConfCall _05

Condition: getCallLegs method is supported.

Test Sequence:

- Method call **getCallLegs()** on IpSubConfCall
 Parameters: valid callSessionID returned in preamble.
 Check: valid value of TpCallLegIdentifierSet which contains CallLegIdentifier returned in preamble.



5.2.4.3.4 Optional, invalid behaviour

Test CCC _ IpSubConfCall _30

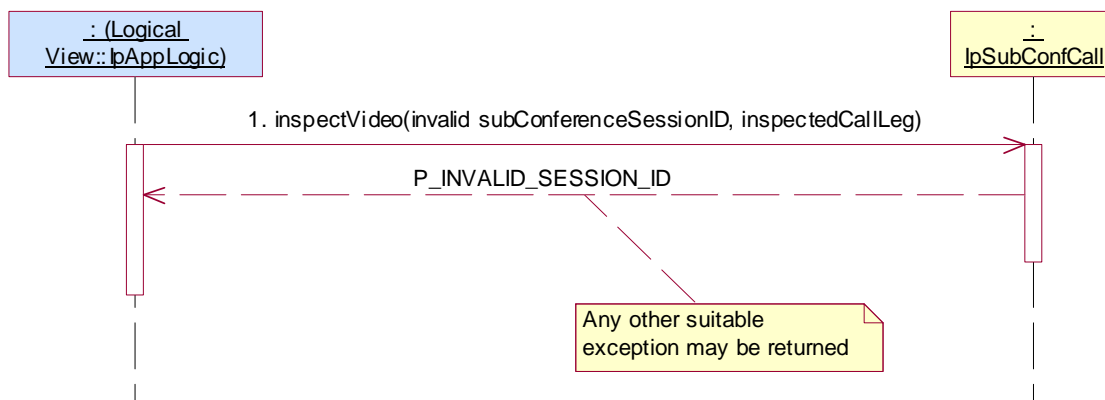
Summary: IpSubConfCall, inspectVideo, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

- Method call **inspectVideo()**
 Parameters: invalid subConferenceSessionID, valid inspectedCallLeg
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _31

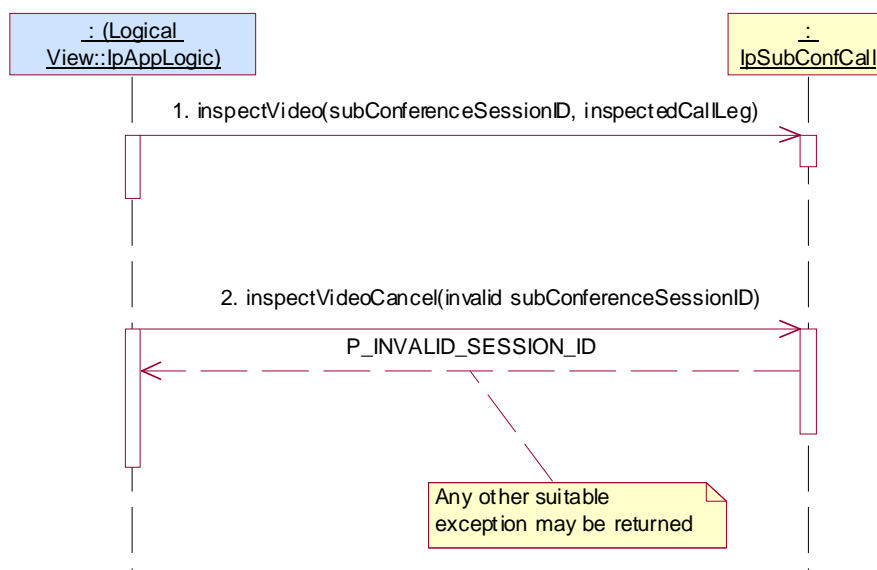
Summary: IpSubConfCall, inspectVideoCancel, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **inspectVideo()**
 Parameters: valid subConferenceSessionID returned in preamble, valid inspectedCallLeg
 Check: no exception is returned.
2. Method call **inspectVideoCancel()**
 Parameters: invalid subConferenceSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _32

Summary: IpSubConfCall, appointSpeaker, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

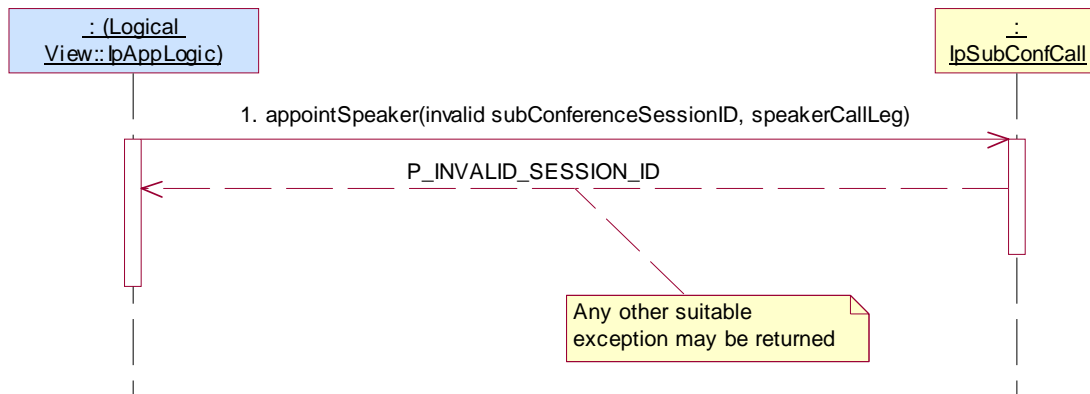
Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **appointSpeaker()**

Parameters: invalid subConferenceSessionID, valid speakerCallLeg

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.

**Test CCC _ IpSubConfCall _33**

Summary: IpSubConfCall, chairSelection, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

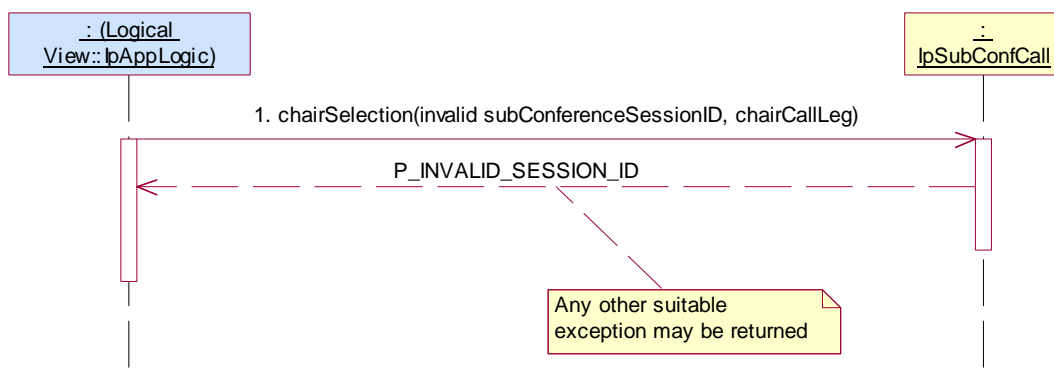
Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **chairSelection()**

Parameters: invalid subConferenceSessionID, valid chairCallLeg

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.



Test CCC _ IpSubConfCall _34

Summary: IpSubConfCall, changeConferencePolicy, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 9.3.1 and 9.3.3.

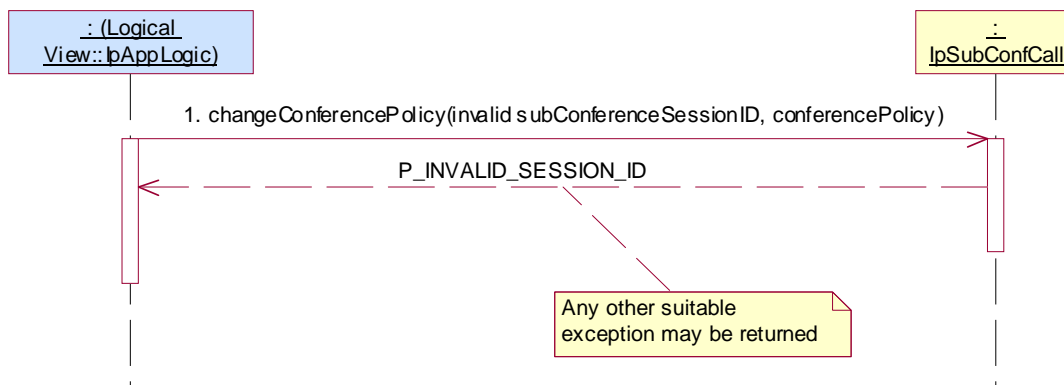
Preamble: Same as CCC _ IpSubConfCall _01

Test Sequence:

1. Method call **changeConferencePolicy()**

Parameters: invalid subConferenceSessionID, valid conferencePolicy

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned.

**Test CCC _ IpSubConfCall _35**

Summary: IpSubConfCall, getInfoReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble: Same as CCC _ IpSubConfCall _01

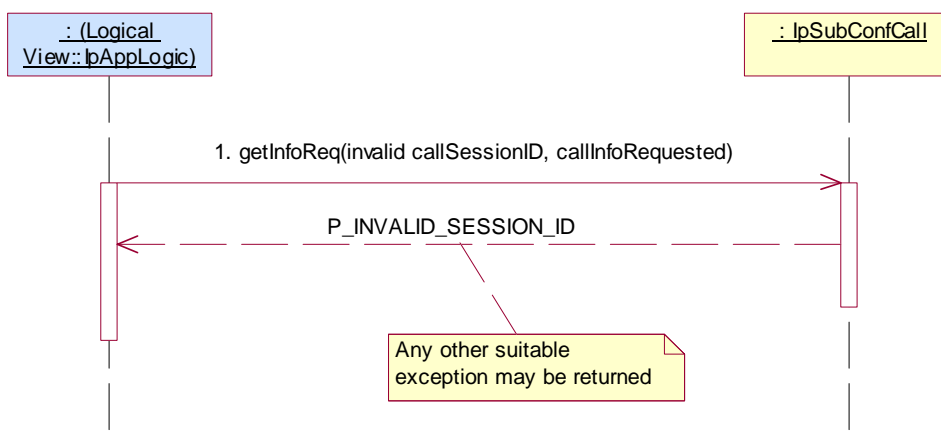
Condition: createCallLeg and getInfoReq methods are supported.

Test Sequence:

1. Method call **getInfoReq()** on IpSubConfCall

Parameters: invalid callSessionID, valid callInfoRequested

Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpSubConfCall _36

Summary: IpSubConfCall, setChargePlan, P_INVALID_SESSION_ID

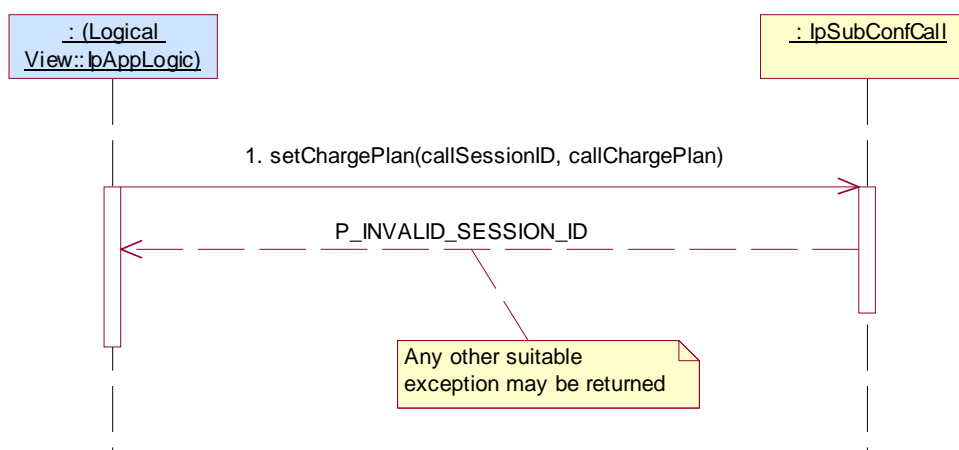
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble Same as CCC_IpConfCall_02

Condition: createCallLeg and setChargePlan methods are supported.

Test Sequence:

- Method call **setChargePlan()** on IpSubConfCall
 Parameters: invalid callSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpSubConfCall _37**

Summary: IpSubConfCall, setAdviceOfCharge, P_INVALID_SESSION_ID

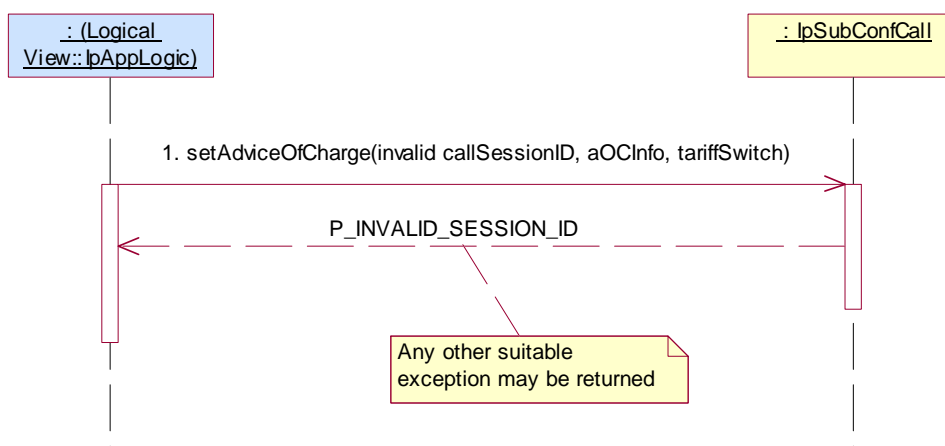
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble Same as CCC_IpConfCall_02

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

- Method call **setAdviceOfCharge()** on IpSubConfCall
 Parameters: invalid callSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpSubConfCall _38

Summary: IpSubConfCall, setAdviceOfCharge, P_INVALID_CURRENCY

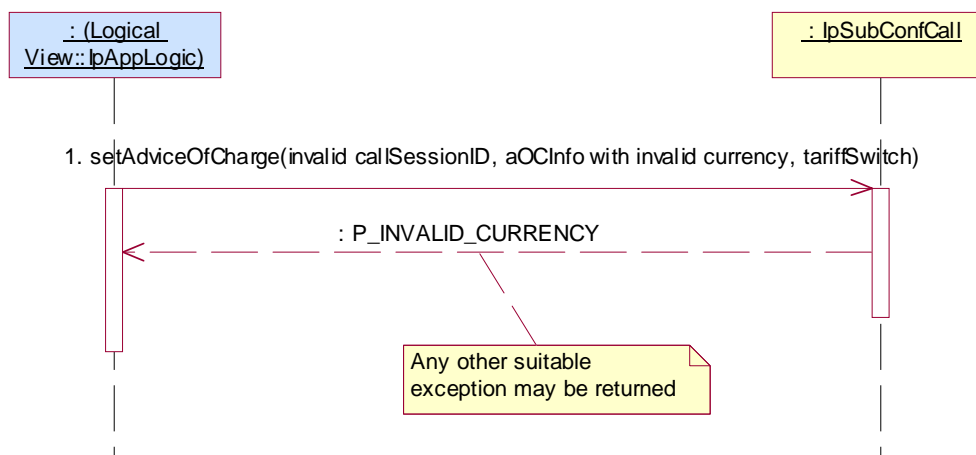
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble Same as CCC_IpConfCall_02

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpSubConfCall
 Parameters: valid callSessionID returned in 1., aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned

**Test CCC _ IpSubConfCall _39**

Summary: IpSubConfCall, setAdviceOfCharge, P_INVALID_AMOUNT

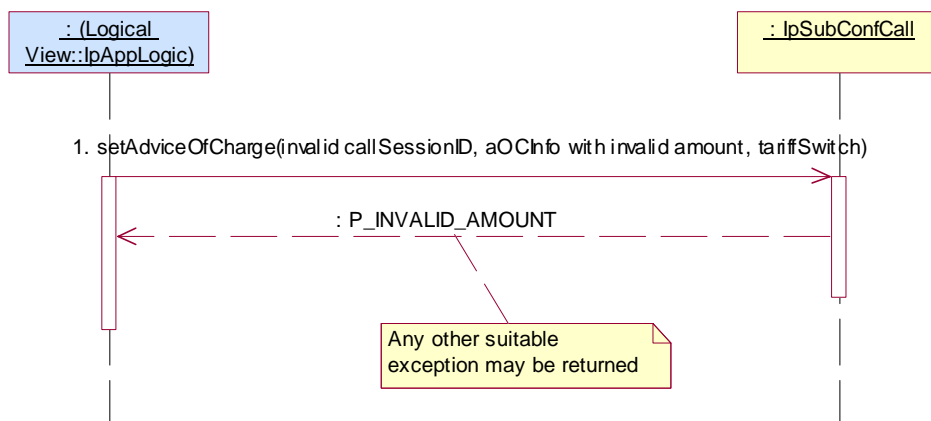
Reference: ES 201 915-4 [1], clauses 7.3.1 and 7.3.3.

Preamble Same as CCC_IpConfCall_02

Condition: createCallLeg and setAdviceOfCharge methods are supported.

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpSubConfCall
 Parameters: valid callSessionID returned in 1., aOCInfo, with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned



Test CCC_IpSubConfCall_40

Summary: IpSubConfCall, getCallLegs, P_INVALID_SESSION_ID

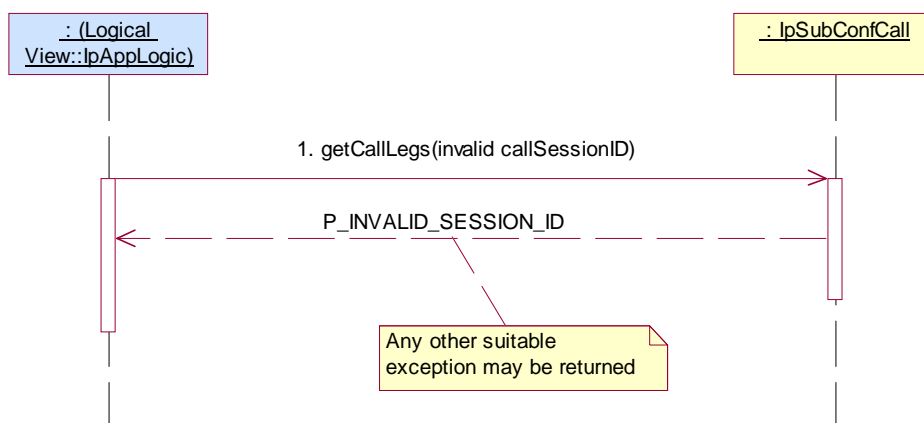
Reference: ES 201 915-4 [1], clause 7.3.3.

Preamble Same as CCC_IpConfCall_02

Condition: CreateCallLeg method is supported.

Test Sequence:

1. Method call **getCallLegs()** on IpSubConfCall
Parameters: invalid callSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



5.2.4.4 IpMultiMediaCallLeg

5.2.4.4.1 Mandatory, valid behaviour

Test CCC _ IpMultiMediaCallLeg _01

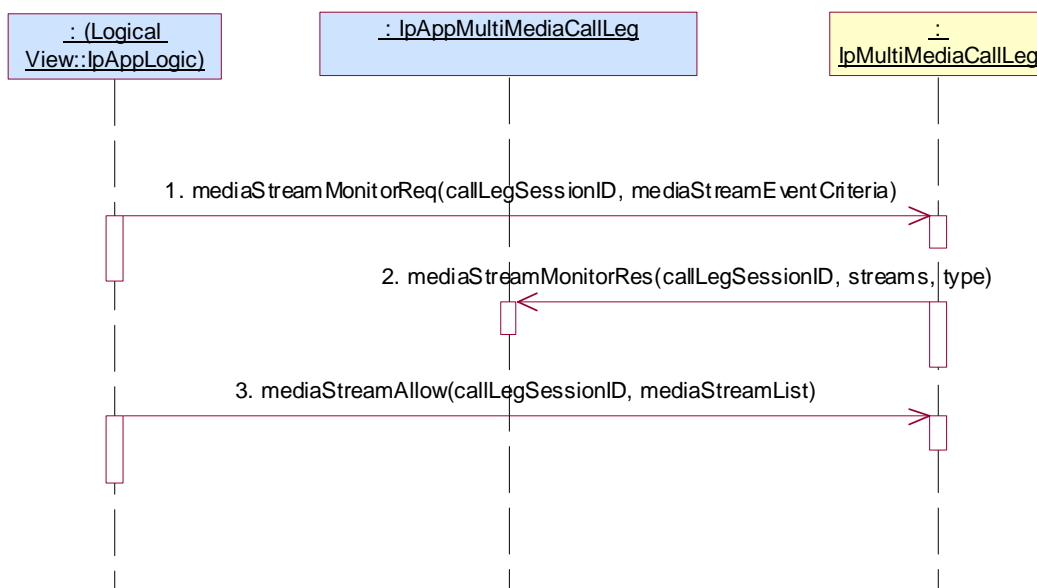
Summary: IpMultiMediaCallLeg, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 8.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

1. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid mediaStreamEventCriteria
 Check: no exception is returned
2. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
 Parameters: callLegSessionID, streams, type
3. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid mediaStreamList
 Check: no exception is returned



Test CCC _ IpMultiMediaCallLeg _02

Summary: IpMultiMediaCallLeg, all mandatory methods, successful

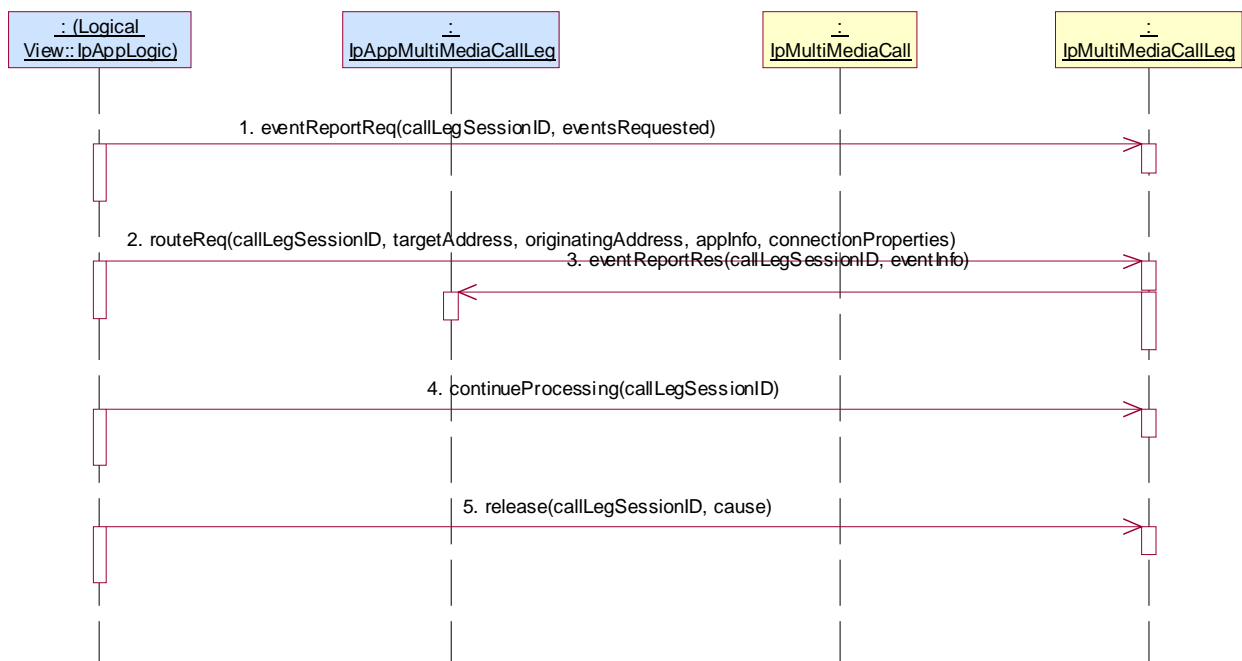
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Condition: createCallLeg method is supported

Test Sequence:

1. Method call **eventReportReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to interrupt call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID, errorIndication
4. Method call **continueProcessing()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1.
Check: no exception is returned
5. Method call **release()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid cause
Check: no exception is returned



Test CCC _ IpMultiMediaCallLeg _03

Summary: IpMultiMediaCallLeg, all mandatory methods, successful

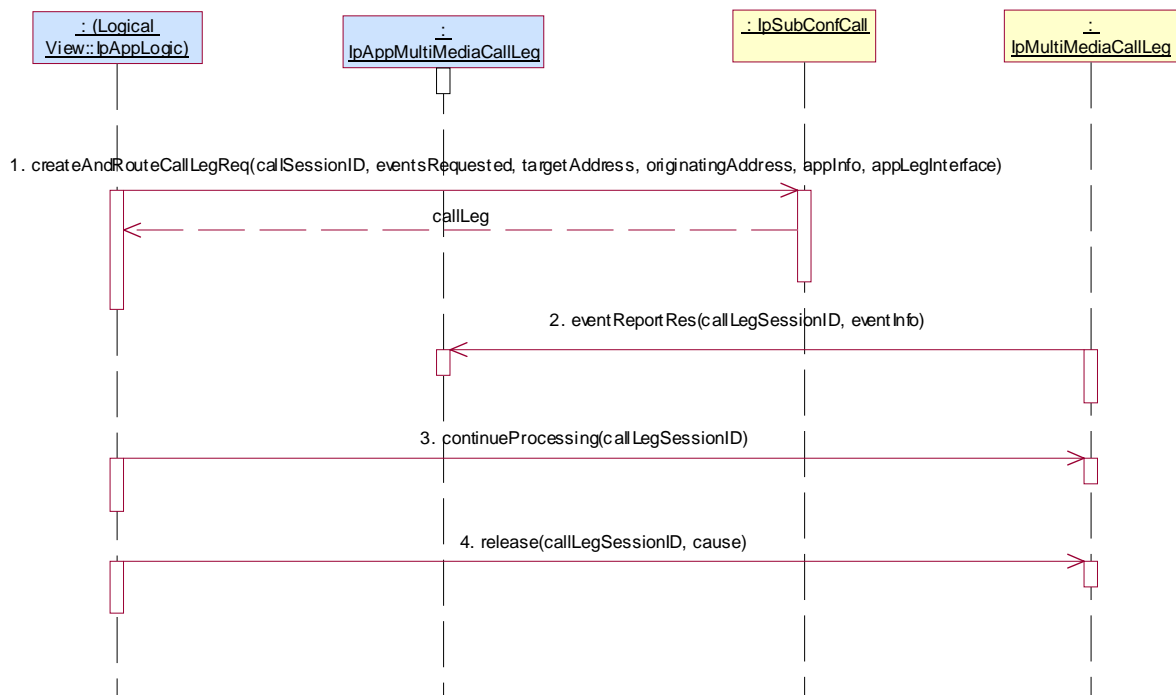
Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC_IpConfCall_02

Condition: createAndRouteCallLeg method is supported

Test Sequence:

1. Method call **createAndRouteCallLeg()** on IpSubConfCall
Parameters: valid callSessionID returned in preamble, valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
Check: valid value of TpCallLegIdentifier is returned
2. Triggered action: cause IUT to interrupt call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID returned in 1, errorIndication
3. Method call **continueProcessing()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
4. Method call **release()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid cause
Check: no exception is returned



Test CCC _ IpMultiMediaCallLeg _04

Summary: IpMultiMediaCallLeg, all mandatory methods, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC_IpSubConfCall _01

Test Sequence:

1. Method call **deassign()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned



5.2.4.4.2 Mandatory, invalid behaviour

Test CCC _ IpMultiMediaCallLeg _05

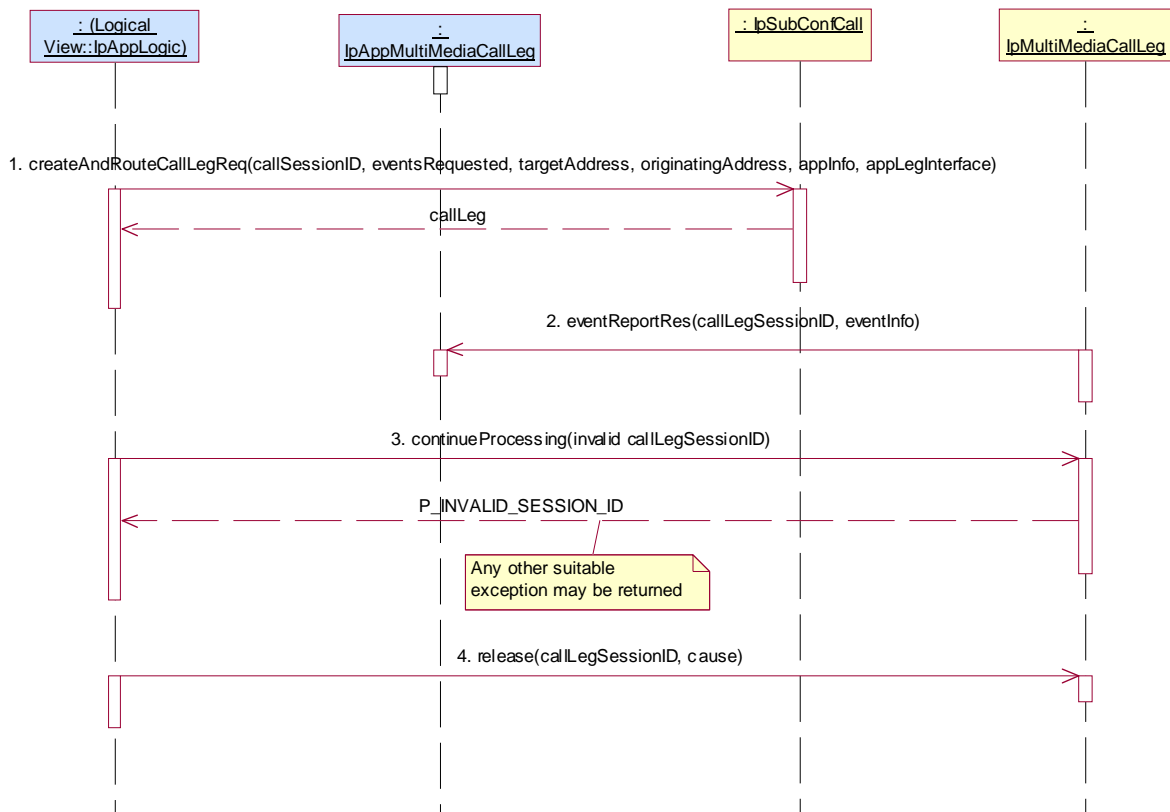
Summary: IpMultiMediaCallLeg, continueProcessing, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC_IpConfCall_02

Test Sequence:

1. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID returned in preamble, valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
2. Method call **eventReportReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid eventsRequested
Check: no exception is returned
3. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1., valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
4. Triggered action: cause IUT to interrupt call leg processing with a notification or an event: cause IUT to call **eventReportRes()** method on the tester's (Application) **IpAppCallLeg** interface.
Parameters: callLegSessionID, errorIndication
5. Method call **continueProcessing()** on IpMultiMediaCallLeg
Parameters: invalid callLegSessionID
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned
6. Method call **release()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 1, valid cause
Check: no exception is returned



Test CCC _ IpMultiMediaCallLeg _06

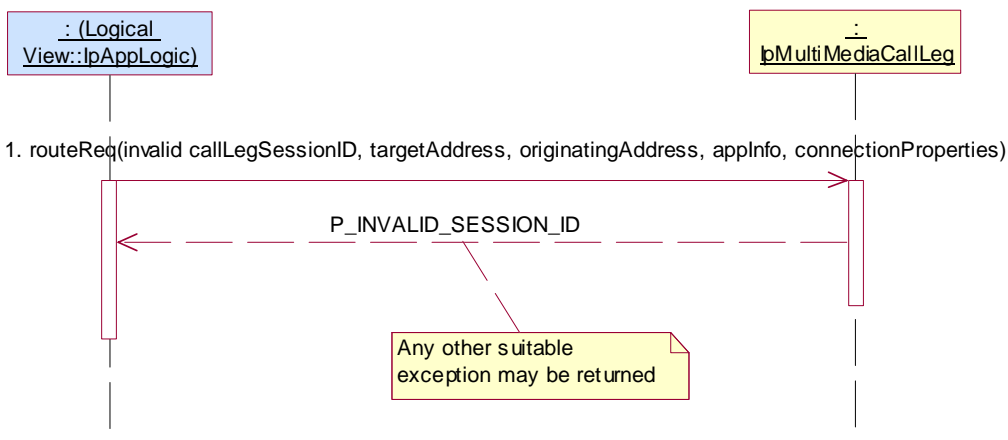
Summary: IpMultiMediaCallLeg, routeReq: P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

- Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _07

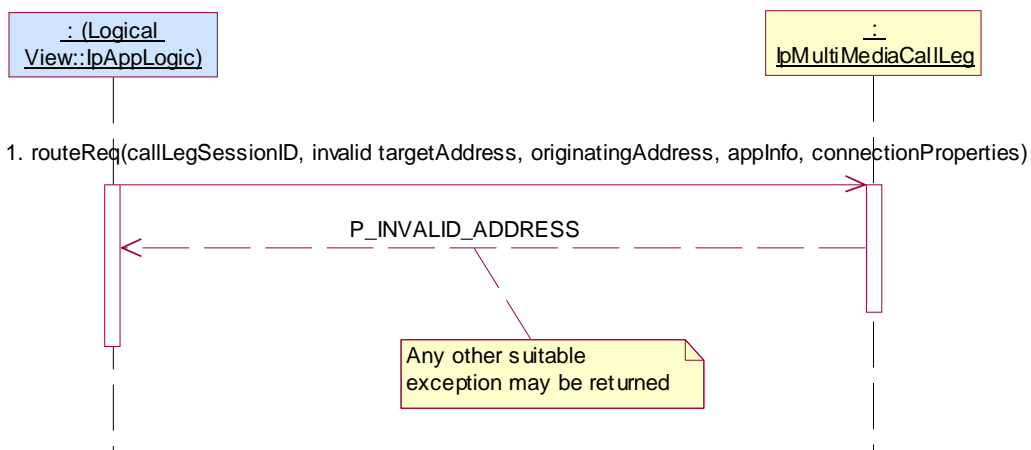
Summary: IpMultiMediaCallLeg, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

- Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, invalid targetAddress, valid originatingAddress, valid appInfo, valid connectionProperties
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _08**

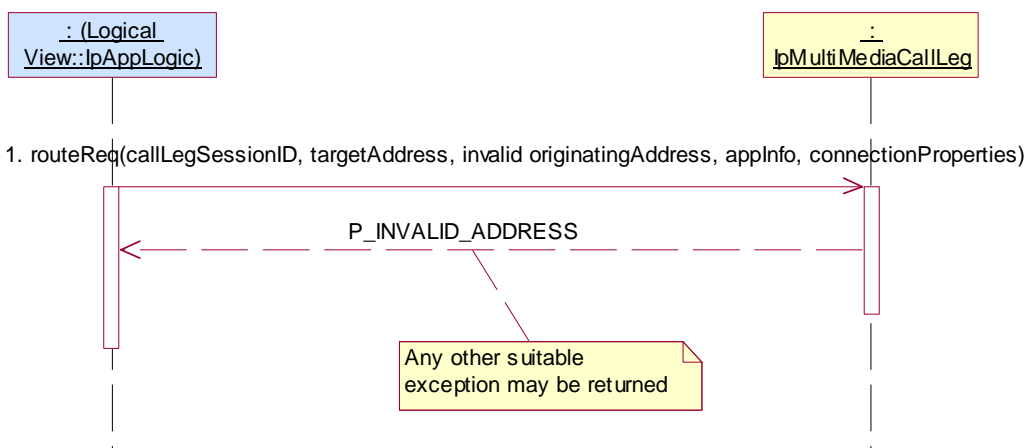
Summary: IpMultiMediaCallLeg, routeReq, P_INVALID_ADDRESS

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

- Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, invalid originatingAddress, valid appInfo, valid connectionProperties
 Check: P_INVALID_ADDRESS, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _09

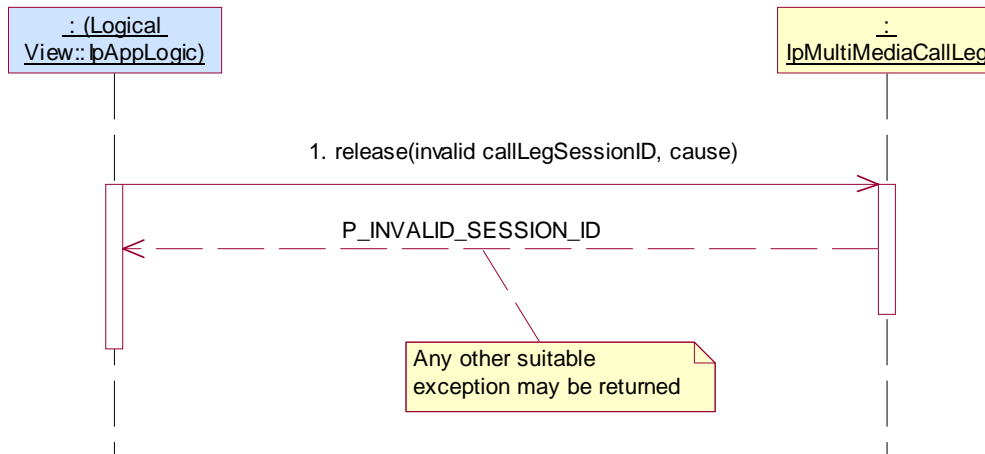
Summary: IpMultiMediaCallLeg, release, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

1. Method call **release()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid cause
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _10**

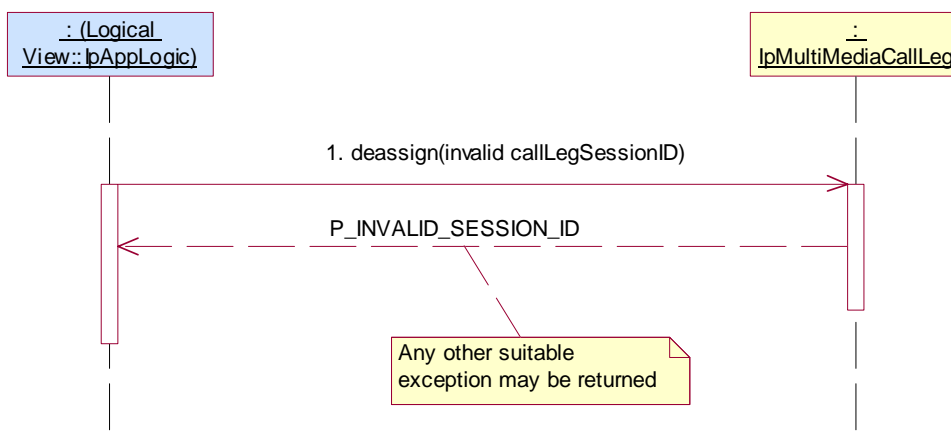
Summary: IpMultiMediaCallLeg, deassign, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

1. Method call **deassign()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _11

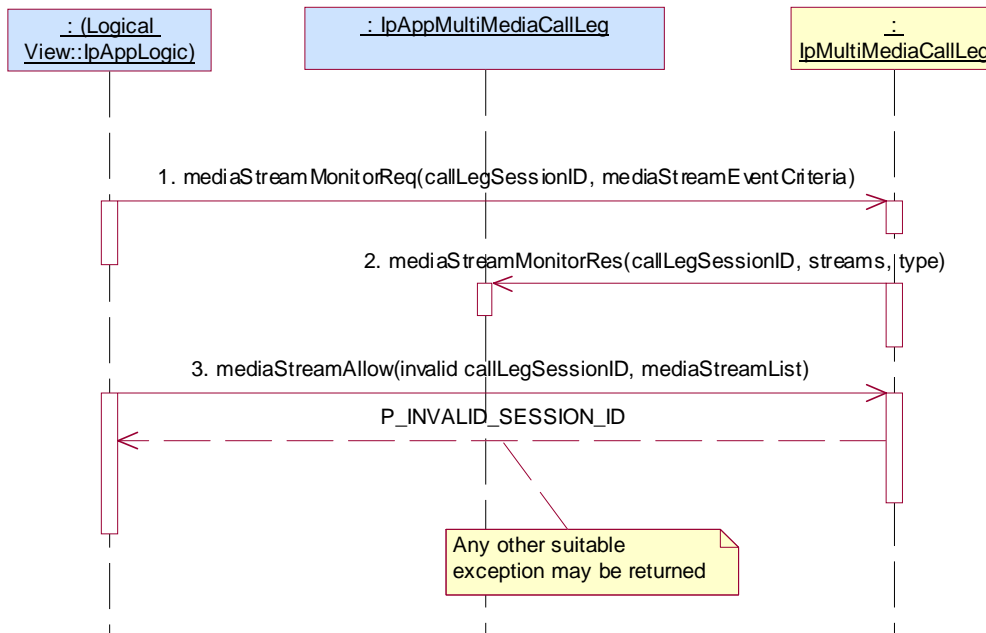
Summary: IpMultiMediaCallLeg, mediaStreamAllow, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

1. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid mediaStreamEventCriteria
Check: no exception is returned
2. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
Parameters: callLegSessionID, streams, type
3. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
Parameters: invalid callLegSessionID, valid mediaStreamList
Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _12

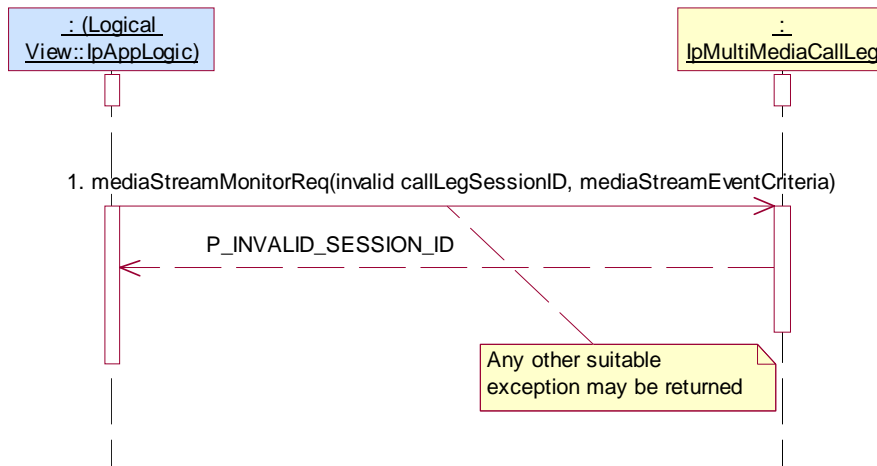
Summary: IpMultiMediaCallLeg, mediaStreamMonitorReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

- Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid mediaStreamEventCriteria
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _13**

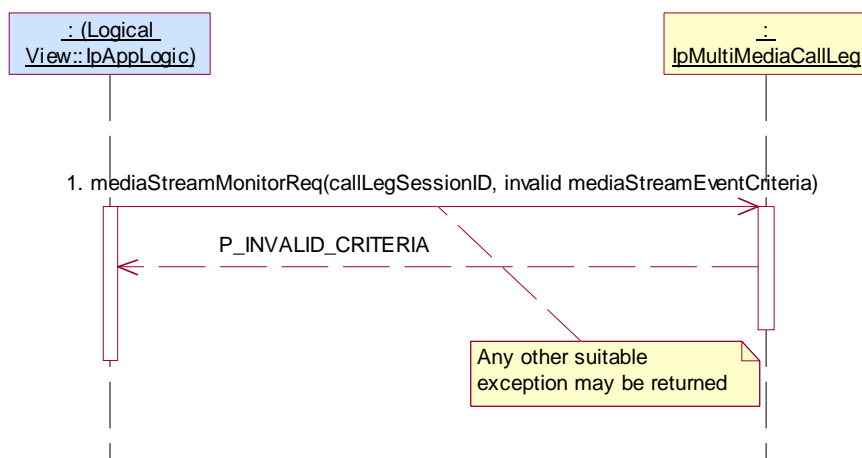
Summary: IpMultiMediaCallLeg, mediaStreamMonitorReq, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 8.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

- Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 2., valid mediaStreamEventCriteria with invalid criteria
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned



5.2.4.4.3 Optional, valid behaviour

Test CCC _ IpMultiMediaCallLeg _14

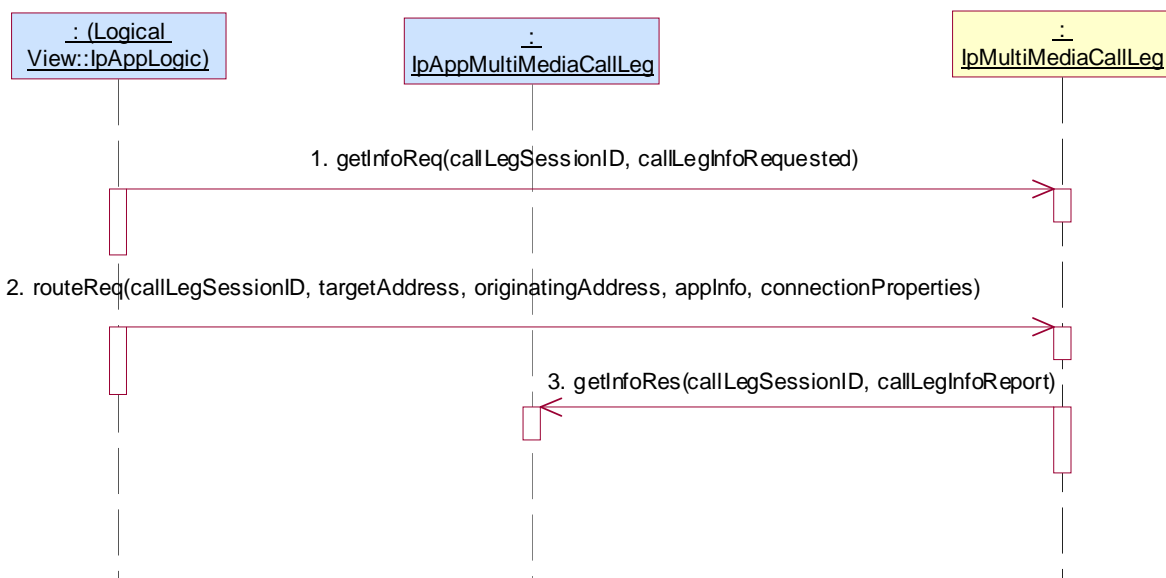
Summary: IpMultiMediaCallLeg, getInfoReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **getInfoReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid callLegInfoRequested
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to call **getInfoRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID given in 1., valid callLegInfoReport.



Test CCC _ IpMultiMediaCallLeg _15

Summary: IpMultiMediaCallLeg, attachMediaReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Application has a valid callSessionID returned by one of the three following sequence:

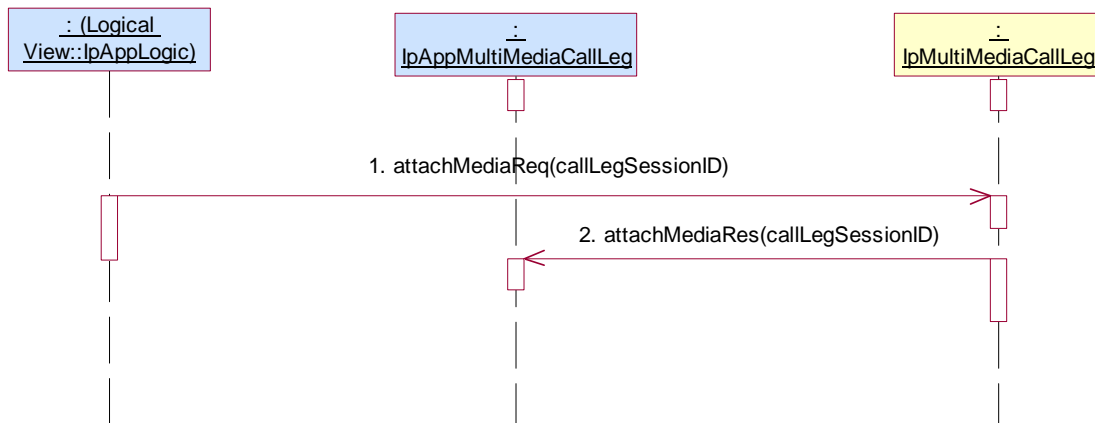
1. Method call **createConference()** on IpConfCallControlManager
Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
Check: valid value of TpConfCallIdentifier is returned
2. Method call **createSubConference()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1., valid appSubConference, valid conferencePolicy
Check: valid value of TpSubConfCallIdentifier is returned
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.
4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID returned in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
5. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned

or

1. Method call **reserveResources()**
Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
Check: valid value of TpResourceReservation is returned
2. Triggered action: cause IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
Parameters: valid conferenceCall.
3. Method call **getSubConferences()** on IpConfCall
Parameters: valid conferenceSessionID returned in 1.
Check: valid value of TpSubConfCallIdentifierSet is returned which contains TpSubConfCallIdentifier returned in 2.
4. Method call **createCallLeg()** on IpSubConfCall
Parameters: valid callSessionID reported in 2., valid appCallLeg
Check: valid value of TpCallLegIdentifier is returned
5. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in 3., valid targetAddress, valid appInfo, valid connectionProperties set to have explicit media management
Check: no exception is returned

Test Sequence:

1. Method call **attachMediaReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
2. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID



Test CCC _ IpMultiMediaCallLeg _16

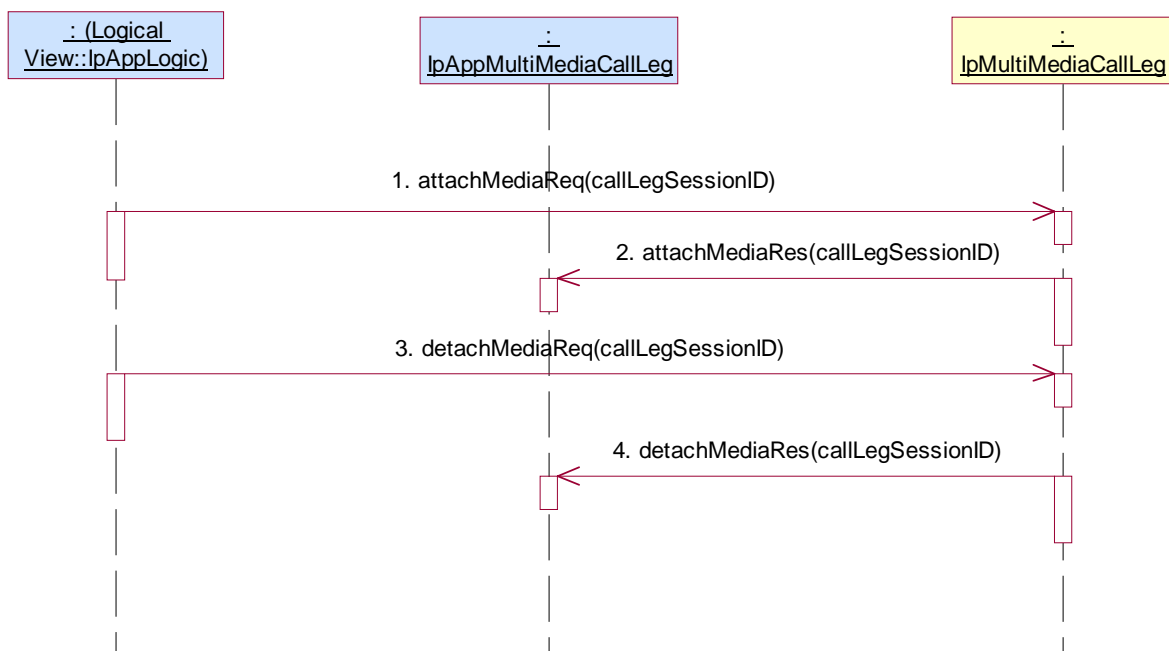
Summary: IpMultiMediaCallLeg, detachMediaReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpMultiMediaCallLeg_15

Test Sequence:

1. Method call **attachMediaReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
2. Triggered action: cause IUT to call **attachMediaRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID
3. Method call **detachMediaReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: no exception is returned
4. Triggered action: cause IUT to call **detachMediaRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID



Test CCC _ IpMultiMediaCallLeg _17

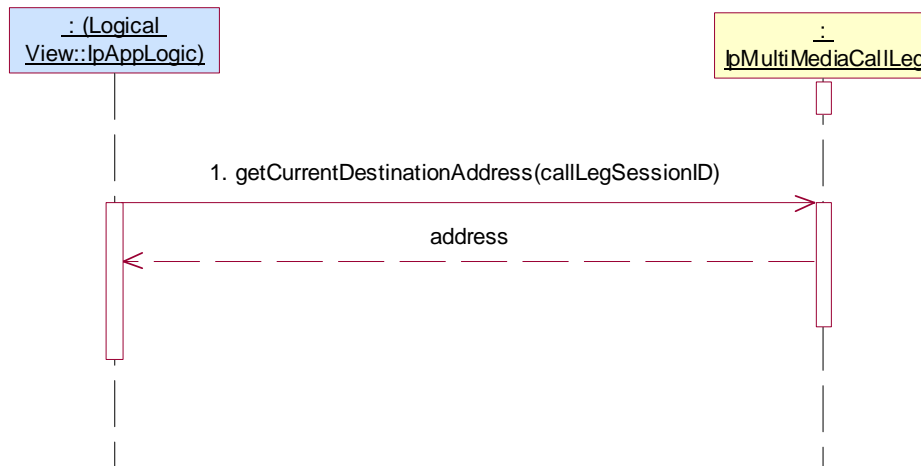
Summary: IpMultiMediaCallLeg, getCurrentDestinationAddress, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

1. Method call **getCurrentDestinationAddress()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble.
 Check: valid value of TpAddress is returned

**Test CCC _ IpMultiMediaCallLeg _18**

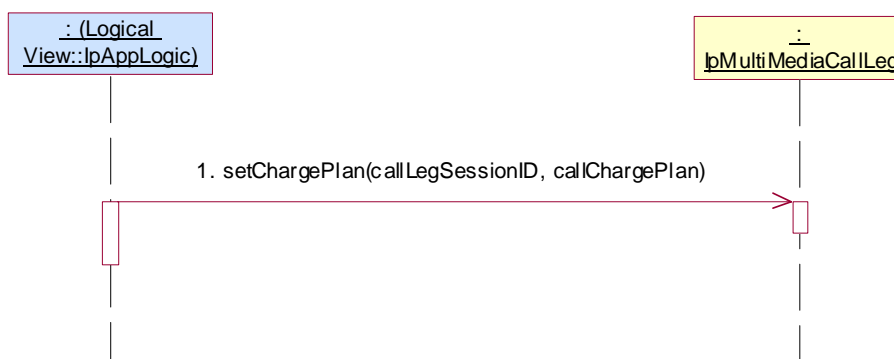
Summary: IpMultiMediaCallLeg, setChargePlan, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **setChargePlan()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid callChargePlan
 Check: no exception is returned



Test CCC _ IpMultiMediaCallLeg _19

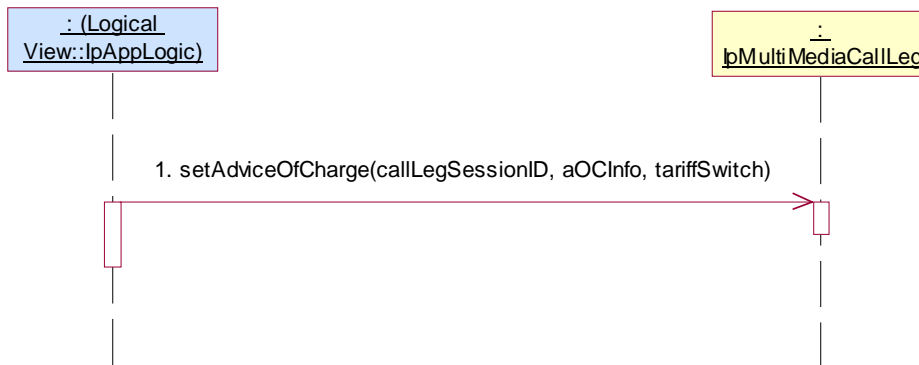
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid aOCInfo, valid tariffSwitch
Check: no exception is returned



Test CCC _ IpMultiMediaCallLeg _20

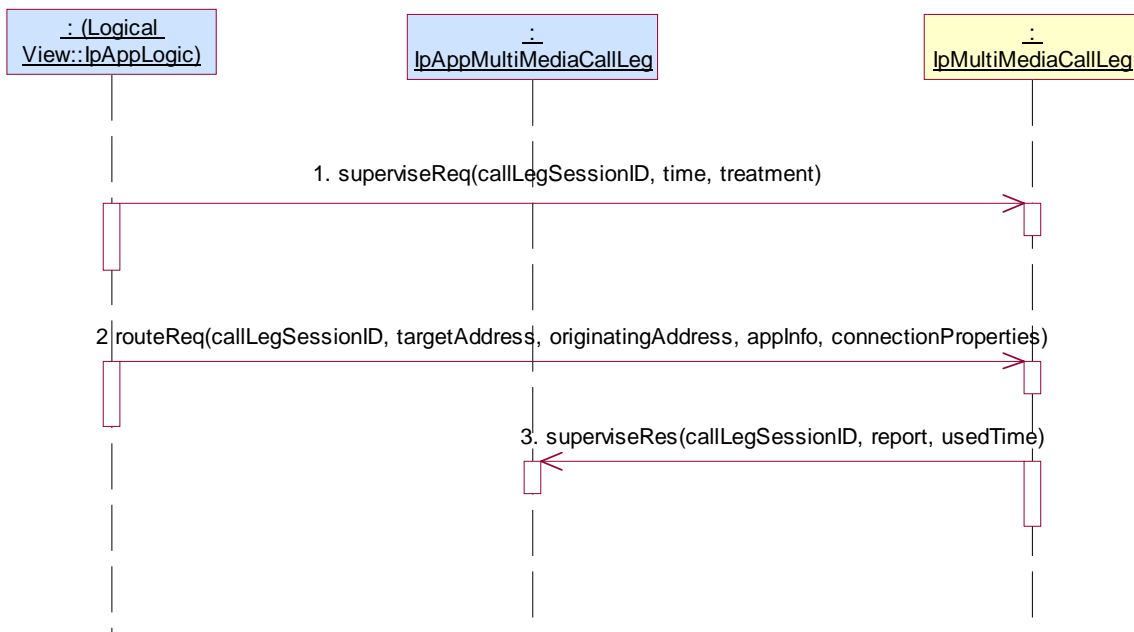
Summary: IpMultiMediaCallLeg, superviseReq, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **superviseReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid time, valid treatment
Check: no exception is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
Check: no exception is returned
3. Triggered action: cause IUT to call **superviseRes()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
Parameters: callLegSessionID, report, usedTime



Test CCC _ IpMultiMediaCallLeg _21

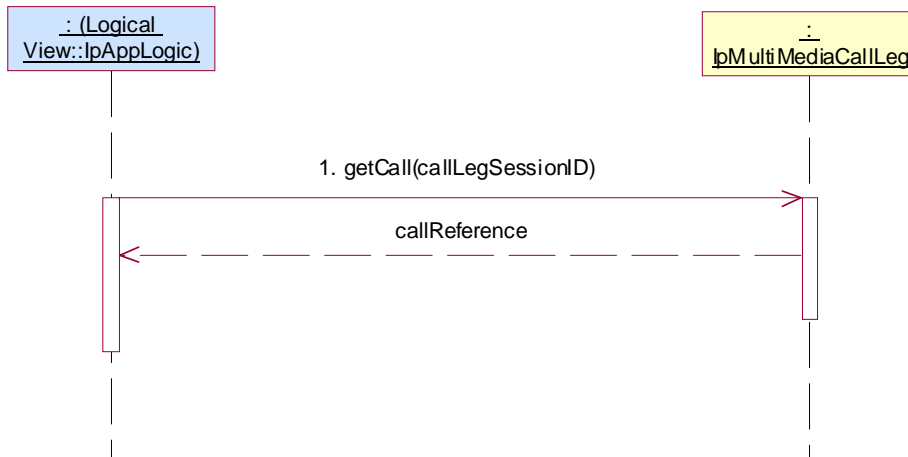
Summary: IpMultiMediaCallLeg, getCall, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **getCall()** on IpMultiMediaCallLeg
Parameters: valid callLegSessionID returned in preamble.
Check: valid TpMultiPartyCallIdentifier is returned



Test CCC _ IpMultiMediaCallLeg _22

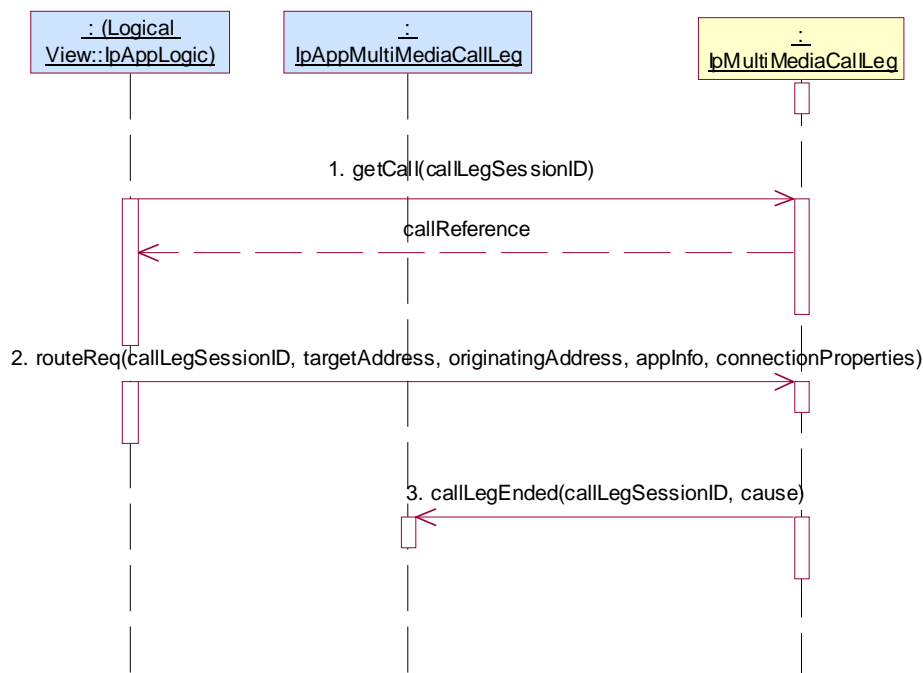
Summary: IpMultiMediaCallLeg, getCall, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **getCall()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble.
 Check: valid TpMultiPartyCallIdentifier is returned
2. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned
3. Triggered action: cause IUT to call **callLegEnded()** method on the tester's (Application) **IpAppMultiMediaCallLeg** interface.
 Parameters: callLegSessionID, cause



5.2.4.4.4 Optional, invalid behaviour

Test CCC _ IpMultiMediaCallLeg _23

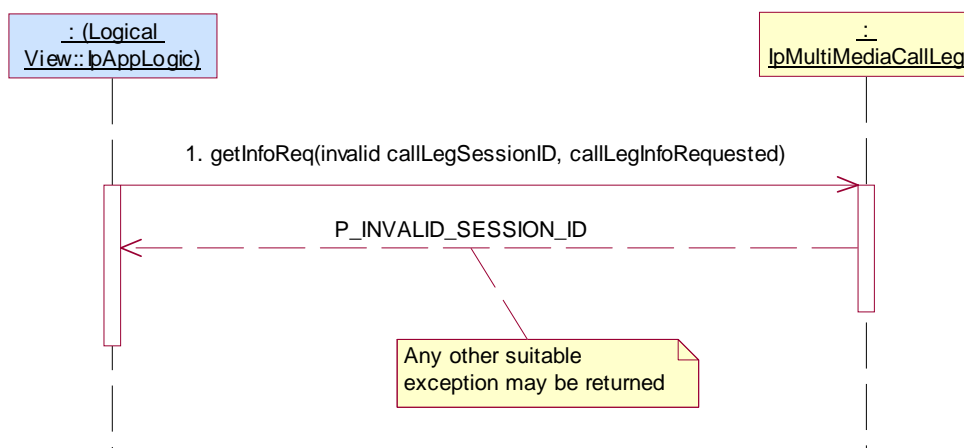
Summary: IpMultiMediaCallLeg, getInfoReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **getInfoReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid callLegInfoRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _24**

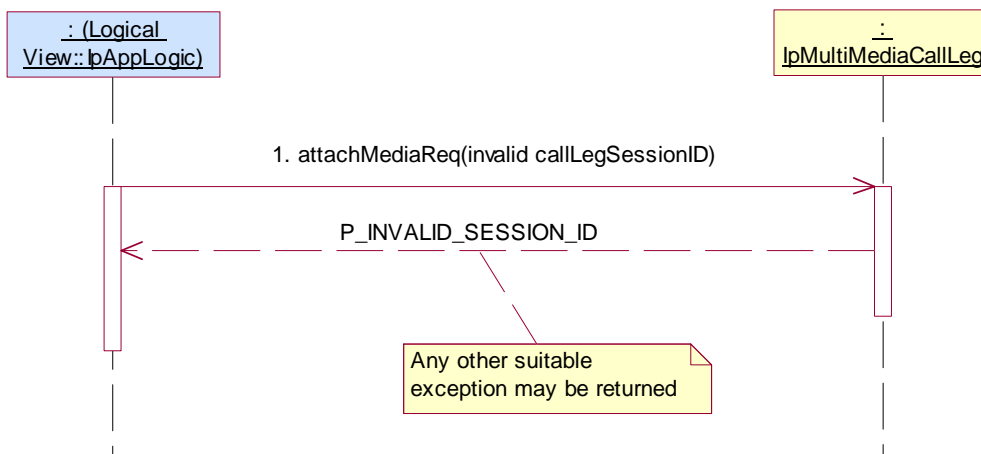
Summary: IpMultiMediaCallLeg, attachMediaReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as CCC _ IpMultiMediaCallLeg_15

Test Sequence:

1. Method call **attachMediaReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _25

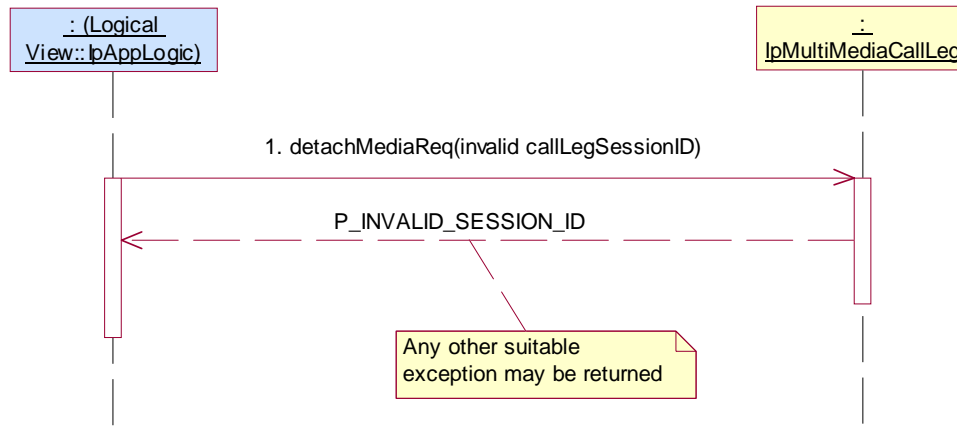
Summary: IpMultiMediaCallLeg, detachMediaReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

- Method call **detachMediaReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _26**

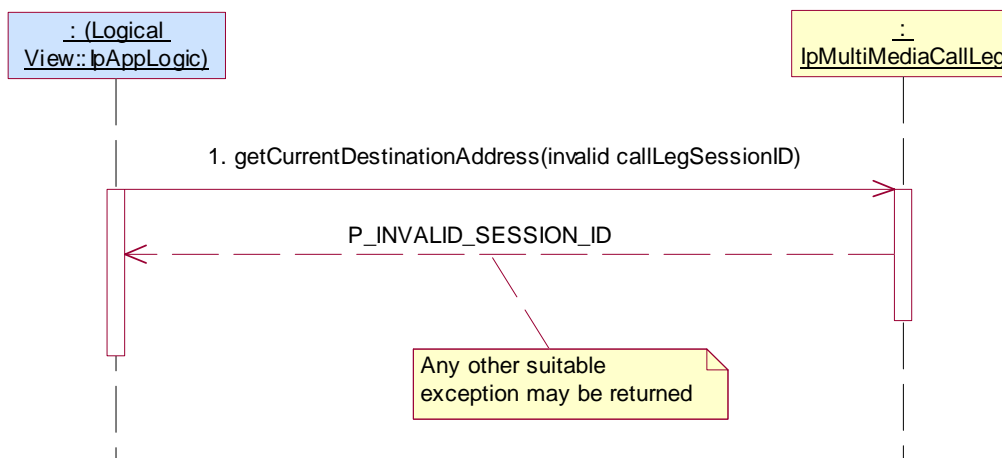
Summary: IpMultiMediaCallLeg, getCurrentDestinationAddress, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5.

Preamble: Same as CCC _ IpSubConfCall_01

Test Sequence:

- Method call **getCurrentDestinationAddress()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _27

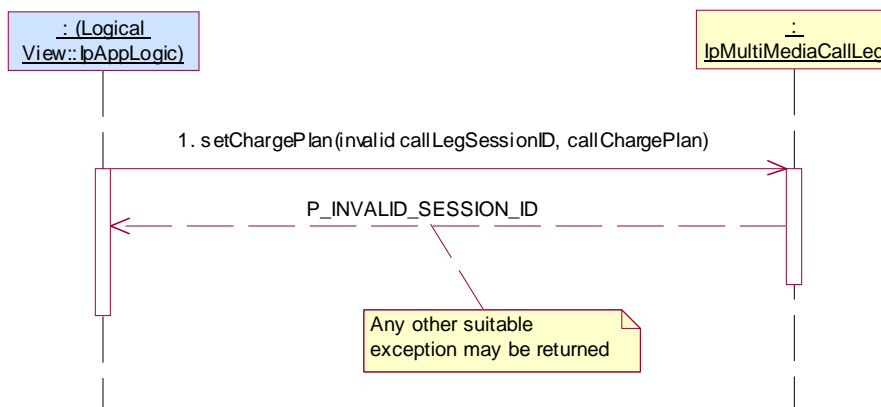
Summary: IpMultiMediaCallLeg, setChargePlan, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **setChargePlan()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid callChargePlan
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _28**

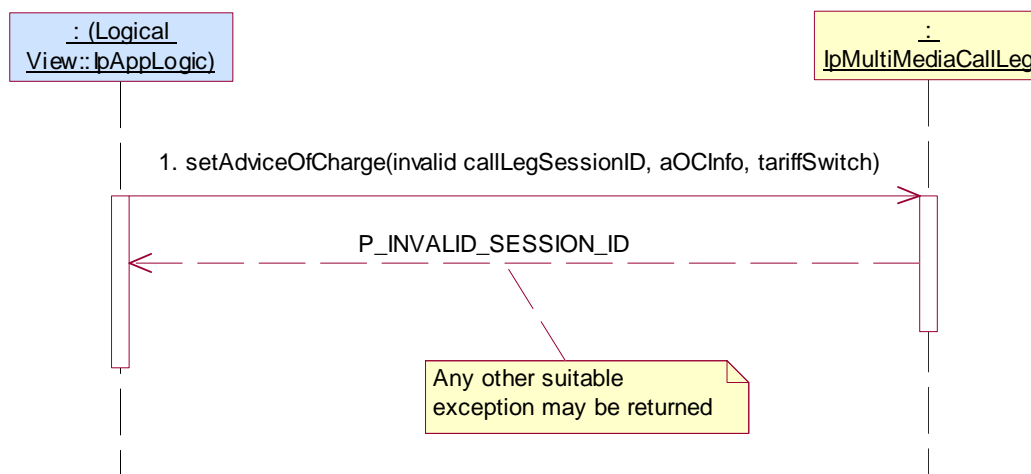
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid aOCInfo, valid tariffSwitch
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _29

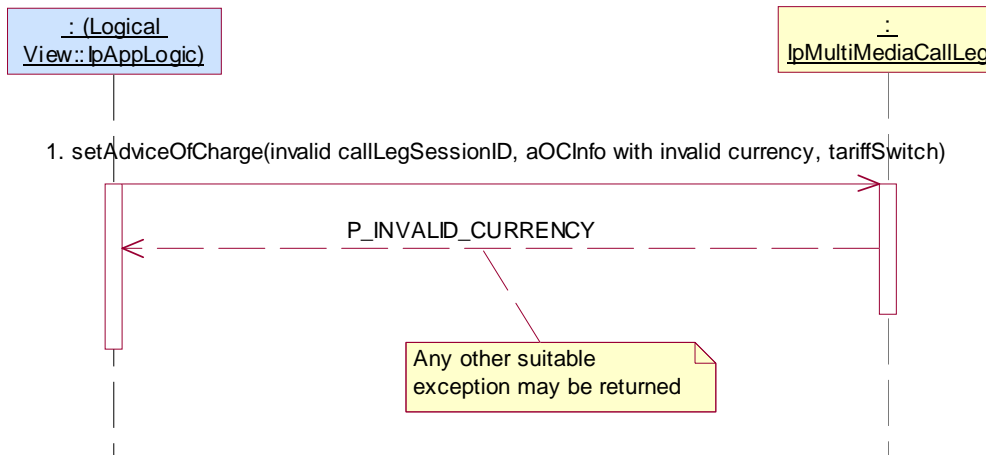
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, P_INVALID_CURRENCY

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, aOCInfo with invalid currency, valid tariffSwitch
 Check: P_INVALID_CURRENCY, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _30

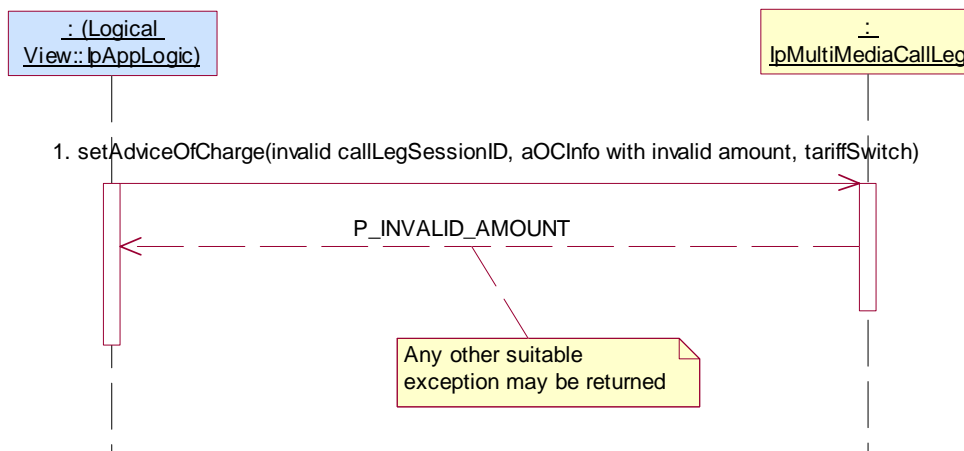
Summary: IpMultiMediaCallLeg, setAdviceOfCharge, P_INVALID_AMOUNT

Reference: ES 201 915-4 [1], clause 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

- Method call **setAdviceOfCharge()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, aOCInfo with invalid amount, valid tariffSwitch
 Check: P_INVALID_AMOUNT, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _31

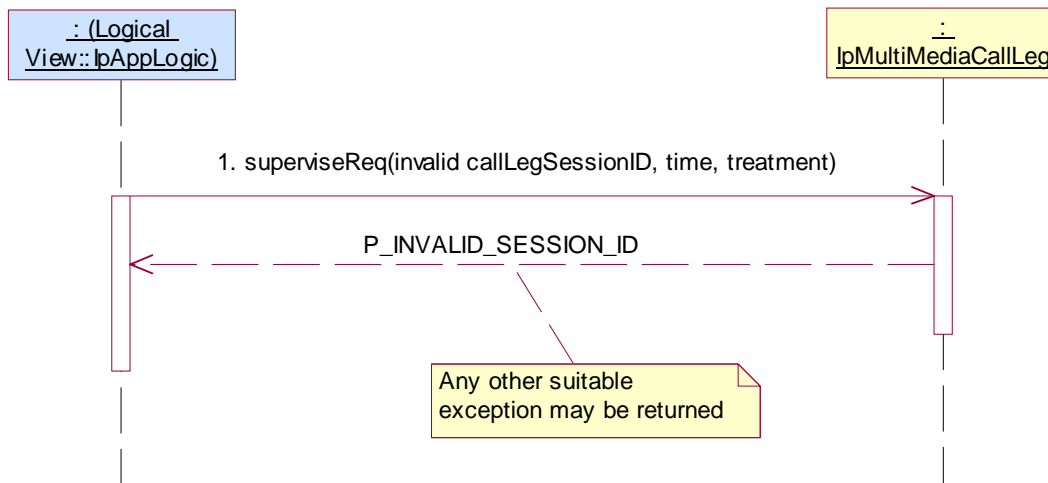
Summary: IpMultiMediaCallLeg, superviseReq, : P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **superviseReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid time, valid treatment
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**Test CCC _ IpMultiMediaCallLeg _32**

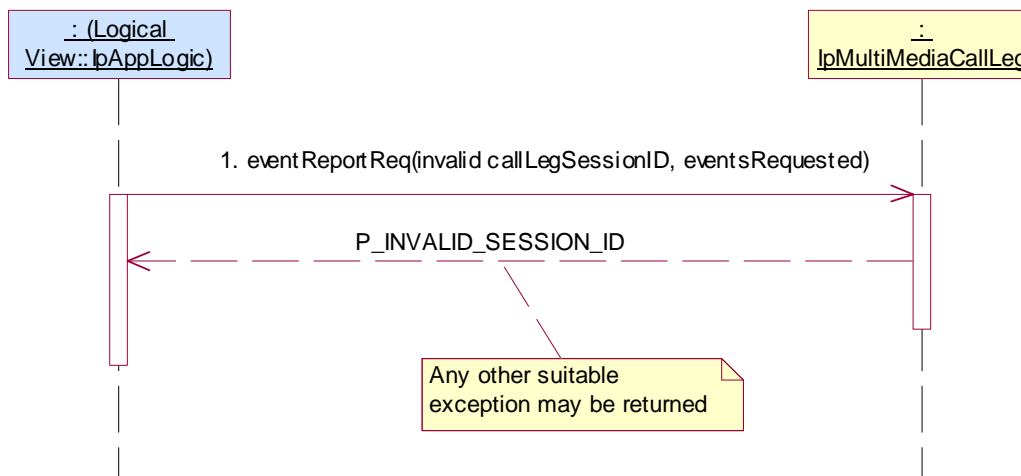
Summary: IpMultiMediaCallLeg, eventReportReq, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **eventReportReq()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID, valid eventsRequested
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC _ IpMultiMediaCallLeg _33

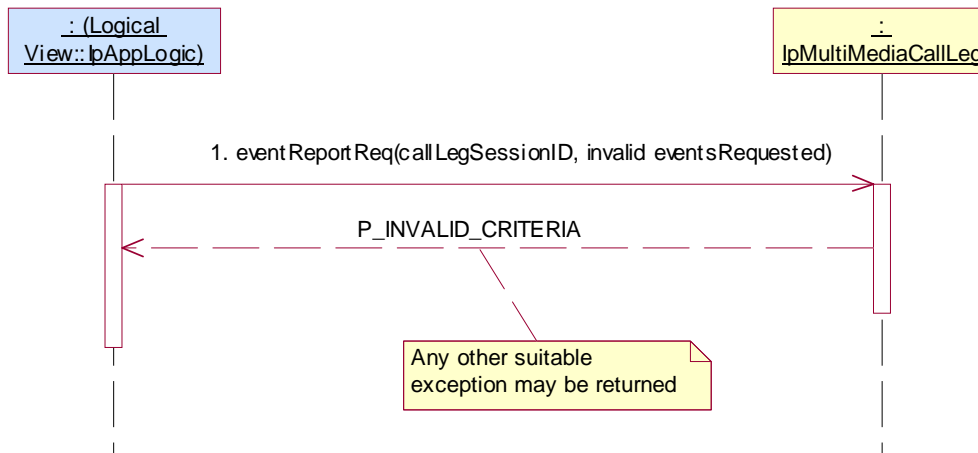
Summary: IpMultiMediaCallLeg, eventReportReq, P_INVALID_CRITERIA

Reference: ES 201 915-4 [1], clause 7.3.1, 7.3.3 and 7.3.5.

Preamble: Same as CCC _ IpConfCall _08

Test Sequence:

1. Method call **eventReportReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in preamble, invalid eventsRequested
 Check: P_INVALID_CRITERIA, or another suitable exception, is returned

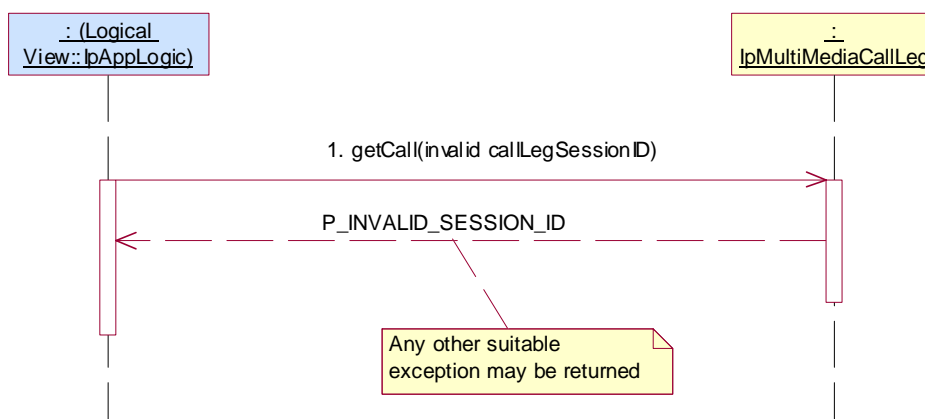
**Test CCC _ IpMultiMediaCallLeg _34**

Summary: IpMultiMediaCallLeg, getCall, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 7.3.5

Preamble: Same as CCC _ IpConfCall _08

1. Method call **getCall()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



Test CCC_IpMultiMediaCallLeg_35

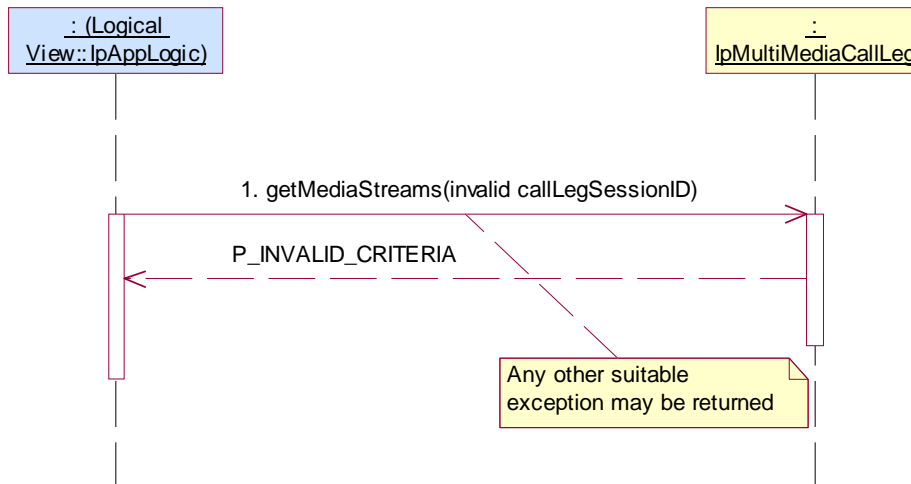
Summary: IpMultiMediaCallLeg, getMediaStreams, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.5.

Preamble: Same as CCC_IpSubConfCall_01

Test Sequence:

1. Method call **getMediaStreams()** on IpMultiMediaCallLeg
 Parameters: invalid callLegSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned

**5.2.4.5 IpMultiMediaStream****5.2.4.5.1 Mandatory, valid behaviour****Test CCC_IpMultiMediaStream_01**

Summary: IpMultiMediaStream, all methods mandatory, successful

Reference: ES 201 915-4 [1], clauses 7.3.1, 7.3.3, 8.3.5 and 8.3.7.

Preamble: Application has a valid callSessionID returned by one of the three following sequence:

1. Method call **createConference()** on IpConfCallControlManager
 Parameters: valid appConferenceCall, valid numberOfSubConferences, valid conferencePolicy, valid numberOfParticipants, valid duration
 Check: valid value of TpConfCallIdentifier is returned
2. Method call **getSubConferences()**
 Parameters: valid conferenceSessionID
 Check: valid value of TpSubConfCallIdentifierSet is returned
3. Method call **createCallLeg()** on IpSubConfCall
 Parameters: valid callSessionID returned in 2., valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned
4. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 2, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned

or

3. Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: valid value of TpCallLegIdentifier
4. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamEventCriteria
 Check: no exception is returned
5. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
 Parameters: callLegSessionID, streams, type
6. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamList
 Check: no exception is returned

or

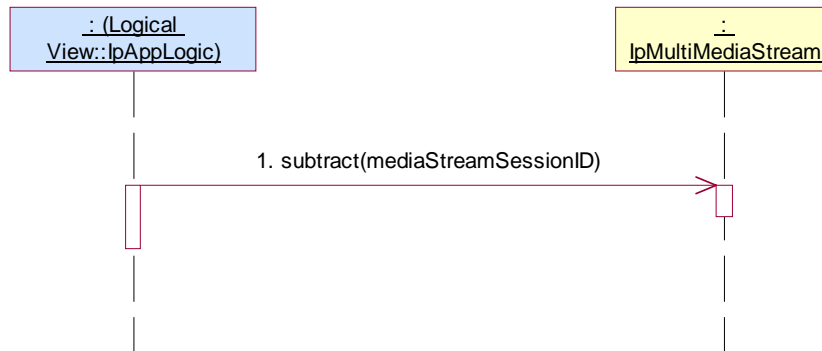
1. Method call **reserveResources()**
 Parameters: valid appInterface, valid startTime, valid numberOfParticipants, valid duration, valid conferencePolicy
 Check: valid value of TpResourceReservation is returned
2. Triggered action: cause IUT to call **conferenceCreated()** on Tester's (application's) IpAppConfCallControlManager interface
 Parameters: valid conferenceCall.
3. Method call **getSubConferences()**
 Parameters: valid conferenceSessionID
 Check: valid value of TpSubConfCallIdentifierSet is returned
4. Method call **createCallLeg()** on IpSubConfCall
 Parameters: valid callSessionID reported in 2., valid appCallLeg
 Check: valid value of TpCallLegIdentifier is returned
5. Method call **routeReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 2, valid targetAddress, valid appInfo, valid connectionProperties
 Check: no exception is returned

or

4. Method call **createAndRouteCallLegReq()** on IpSubConfCall
 Parameters: valid callSessionID returned in 2., valid eventsRequested, valid targetAddress, valid originatingAddress, valid appInfo, valid appLegInterface
 Check: valid value of TpCallLegIdentifier
5. Method call **mediaStreamMonitorReq()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamEventCriteria
 Check: no exception is returned
6. Triggered action: cause IUT to call Method **mediaStreamMonitorRes()** method on the tester's (application)
 Parameters: callLegSessionID, streams, type
7. Method call **mediaStreamAllow()** on IpMultiMediaCallLeg
 Parameters: valid callLegSessionID returned in 3., valid mediaStreamList
 Check: no exception is returned

Test Sequence:

- Method call **subtract()** on IpMultiMediaStream
 Parameters: valid mediaStreamSessionID from TpMediaStreamSet returned in preamble.
 Check: no exception is returned



5.2.4.5.2 Mandatory, invalid behaviour

Test CCC_IpMultiMediaStream_02

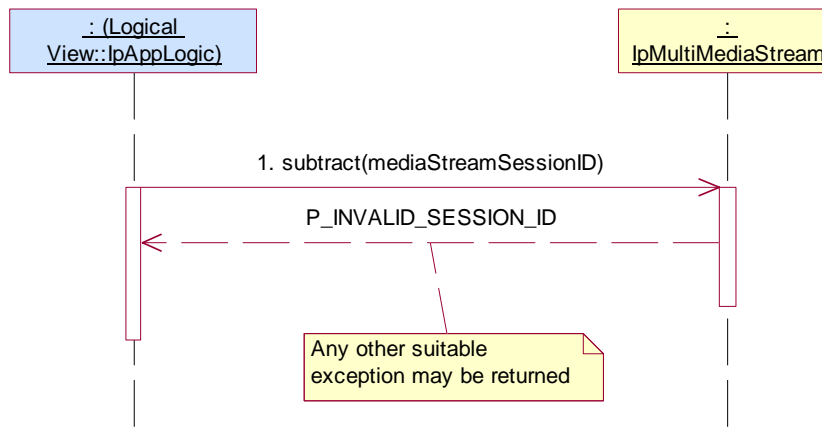
Summary: IpMultiMediaStream, subtract, P_INVALID_SESSION_ID

Reference: ES 201 915-4 [1], clause 8.3.7.

Preamble: Same as Test CCC_IpMultiMediaStream_01

Test Sequence:

- Method call **subtract()** on IpMultiMediaStream
 Parameters: invalid mediaStreamSessionID
 Check: P_INVALID_SESSION_ID, or another suitable exception, is returned



History

Document history		
V1.1.1	June 2003	Membership Approval Procedure MV 20030801: 2003-06-03 to 2003-08-01
V1.1.1	August 2003	Publication