

**Open Service Access (OSA);
Application Programming Interface (API);
Test Suite Structure and Test Purposes (TSS&TP);
Part 5: User interaction SCF;
(Parlay 4)**



Reference

DES/TISPAN-06004-05-OSA

Keywords

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Foreword

This ETSI Standard (ES) has been produced by ETSI Technical Committee Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN), and is now submitted for the ETSI standards Membership Approval Procedure.

The present document is part 5 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 User Interaction SCF of the Application Programming Interface (API) for Open Service Access (OSA) defined in ES 202 915-5 [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 202 915-5: "Open Service Access (OSA); Application Programming Interface (API); Part 5: User Interaction SCF (Parlay 4)".
- [2] ETSI ES 202 363: "Open Service Access (OSA); Application Programming Interface (API); Implementation Conformance Statement (ICS) proforma specification; (Parlay 4)".
- [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 202 388-1: "Open Service Access (OSA); Application Programming Interface (API); Test Suite Structure and Test Purposes (TSS&TP); Part 1: Overview; (Parlay 4)".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 202 915-5 [1], ISO/IEC 9646-1 [3], 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
ICS	Implementation Conformance Statement
IUT	Implementation Under Test
IXIT	Implementation eXtra Information for Testing
LT	Lower Tester
OSA	Open Service Access
SCF	Service Capability Feature
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

- User Interaction
 - IPUIManager interface
 - IPUI interface
 - IPUICall interface

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>_<nnn>	
<suite_id>	= SCG name: "UI" for U ser I nteraction part of User Interaction SCF 'UI_APP' for U ser I nteraction part of User interaction Application
<nn>	= sequential number: (01-99)

5.1.2 Source of TP definition

The TPs are based on ES 202 915-5 [1].

5.1.3 Test strategy

As the base standard ES 202 915-5 [1] contains no explicit requirements for testing, the TPs were generated as a result of an analysis of the base standard and the PICS specification ES 202 363 [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 User Interaction SCF

All PICS items referred to in this clause are as specified in ES 202 363 [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 the present document. Those method calls are preceded by the words "Triggered action".

5.2.1 User Interaction, SCF side

Pre-requisite:

- Registration of the IUT (User Interaction SCF) and the tester (application) to the framework. The tester must have obtained a reference to an instance of the IpUIManager interface through selecting that service and signing the required service agreement.

5.2.1.1 IpUIManager interface

Test UI_01

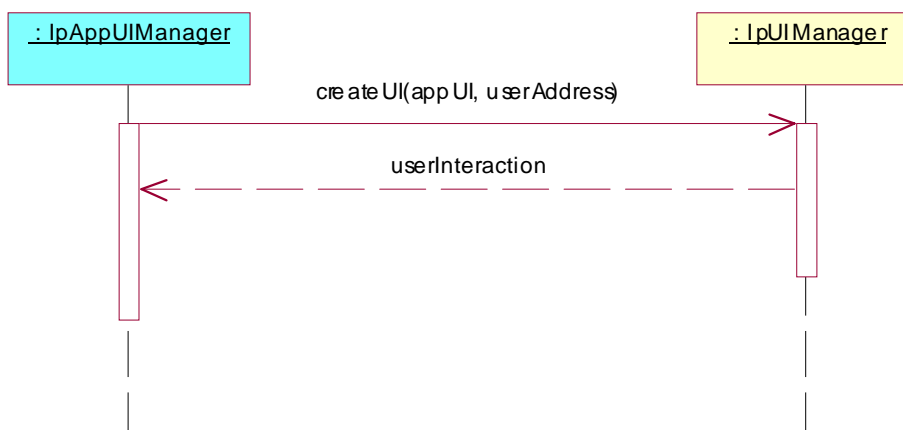
Summary: **IpUIManager**, createUI method, successful

Reference: ES 202 915-5 [1], clause 8.1

Selection: createUI method supported - PICS item: [2] UIM1

Test Sequence:

1. Method call **createUI()**
Parameters: appUI, userAddress
Check: valid value of TpUIIdentifier is returned



Test UI_02

Summary: **IpUIManager**, createUI method, P_INVALID_NETWORK_STATE

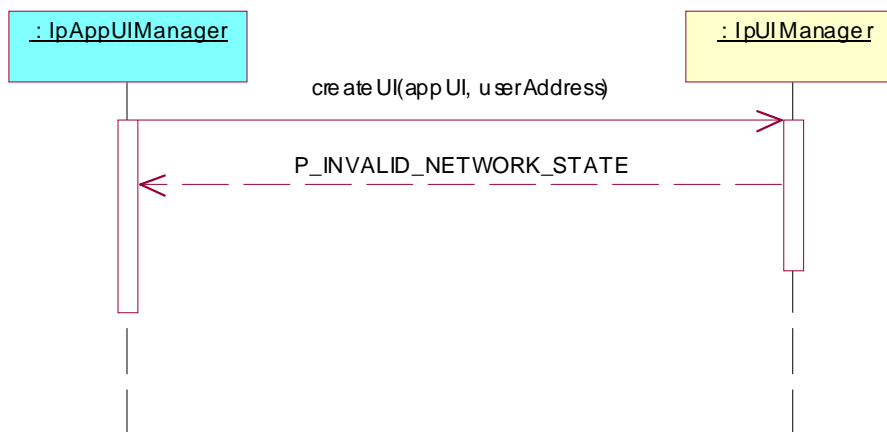
Reference: ES 202 915-5 [1], clause 8.1

Selection: createUI method supported - PICS item: [2] UIM1

Condition: the underlying protocol cannot support the method call.

Test Sequence:

1. Method call **createUI()**
 Parameters: appUI, userAddress
 Check: P_INVALID_NETWORK_STATE is returned

**Test UI_03**

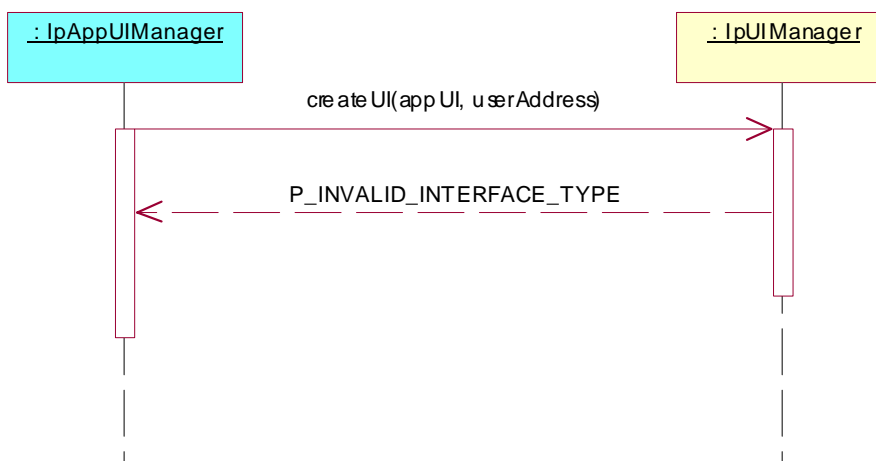
Summary: **IpUIManager**, createUI method, P_INVALID_INTERFACE_TYPE

Reference: ES 202 915-5 [1], clause 8.1

Selection: createUI method supported - PICS item: [2] UIM1

Test Sequence:

1. Method call **createUI()**
 Parameters: appUI including an invalid reference type, userAddress
 Check: P_INVALID_INTERFACE_TYPE is returned



Test UI_04

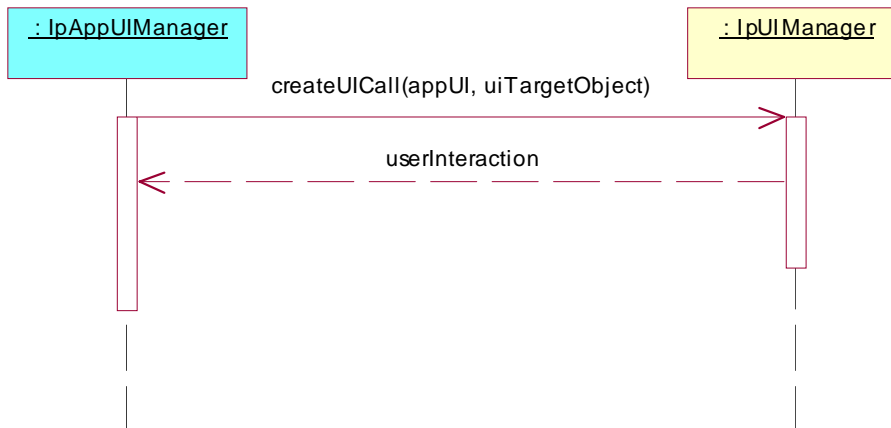
Summary: **IpUIManager**, createUICall method, successful

Reference: ES 202 915-5 [1], clause 8.1

Selection: createUICall method supported - PICS item: [2] UIM2

Test Sequence:

1. Method call **createUICall()**
 Parameters: appUI, uiTargetObject
 Check: valid value of TpUIIdentifier is returned

**Test UI_05**

Summary: **IpUIManager**, createUICall method, P_INVALID_NETWORK_STATE

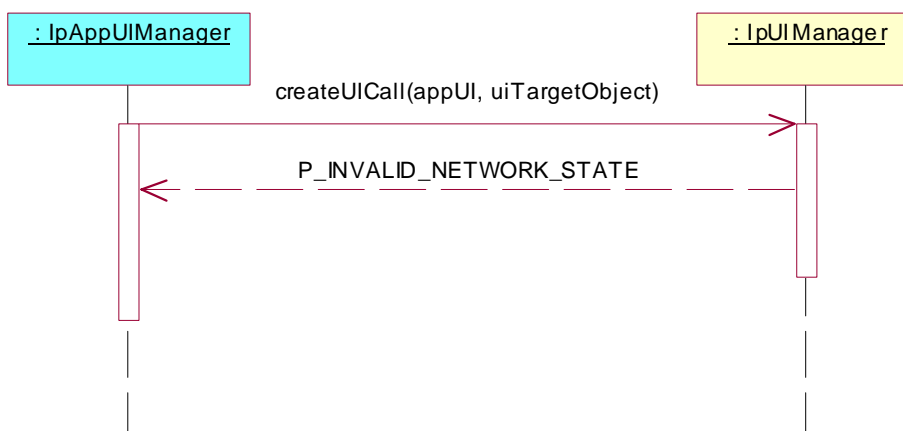
Reference: ES 202 915-5 [1], clause 8.1

Selection: createUICall method supported - PICS item: [2] UIM2

Condition: the underlying protocol cannot support the method call.

Test Sequence:

1. Method call **createUICall()**
 Parameters: appUI, userAddress
 Check: P_INVALID_NETWORK_STATE is returned



Test UI_06

Summary: **IpUIManager**, createUICall method, P_INVALID_INTERFACE_TYPE

Reference: ES 202 915-5 [1], clause 8.1

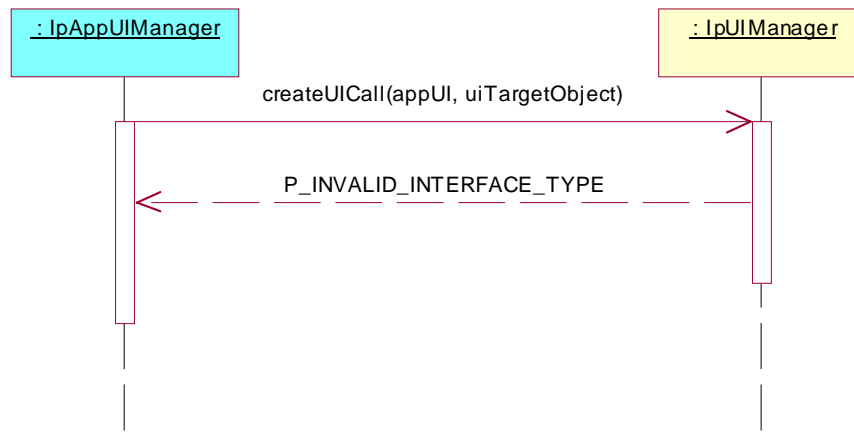
Selection: createUICall method supported - PICS item: [2] UIM2

Test Sequence:

1. Method call **createUICall()**

Parameters: appUI including an invalid reference type, uiTargetObject

Check: P_INVALID_INTERFACE_TYPE is returned

**Test UI_07**

Summary: **IpUIManager**, all createNotification and destroyNotification methods, successful

Reference: ES 202 915-5 [1], clause 8.1

Selection: createNotification methods supported - PICS item: [2] UIM3

Test Sequence:

1. Method call **createNotification()**

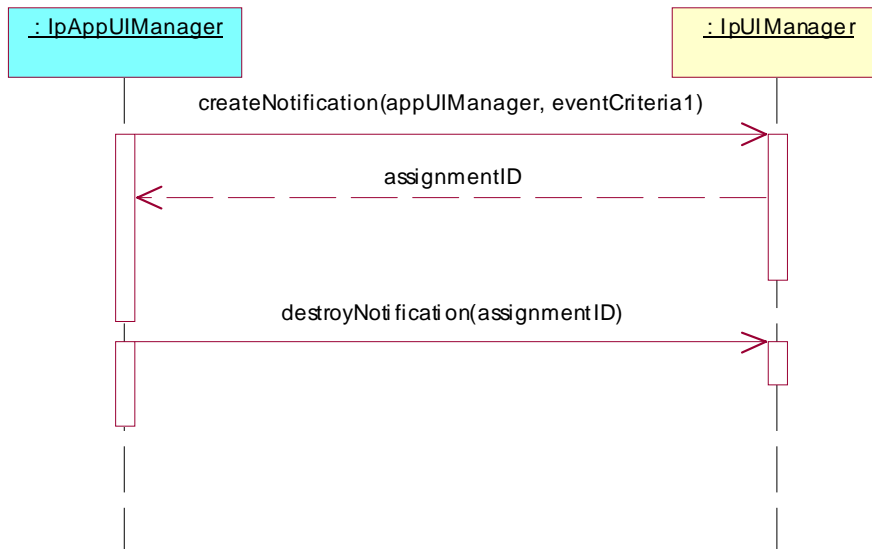
Parameters: appUIManager, eventCriteria,

Check: valid value of TpAssignmentID is returned

2. Method call **destroyNotification()**

Parameters: assignmentID as returned in 1..

Check: no exception is returned.



Test UI_08

Summary: **IpUIManager**, receipt of reportEventNotification method, successful

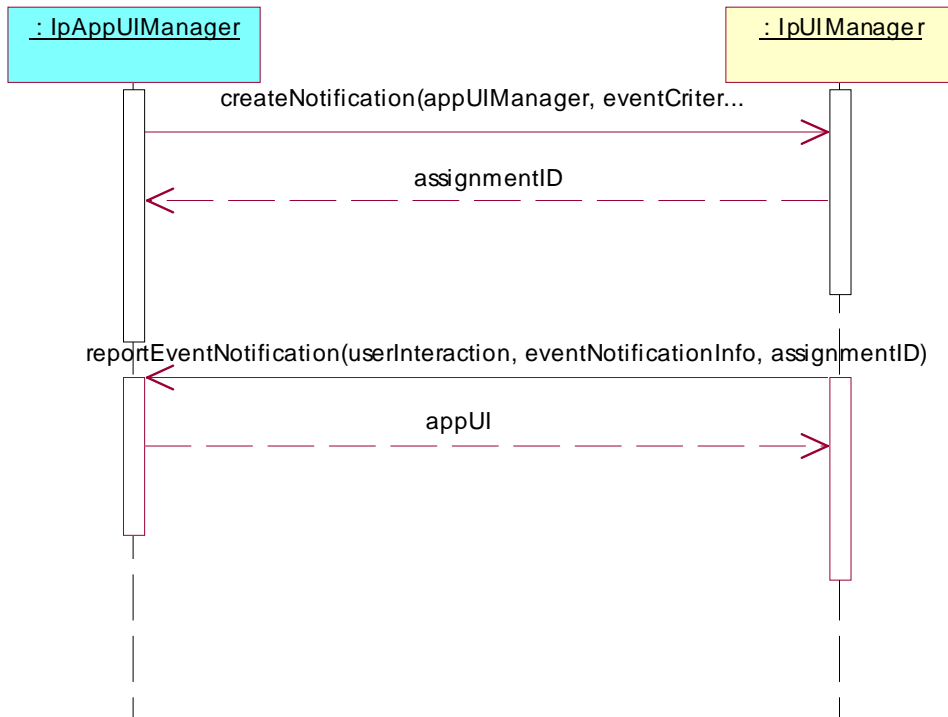
Reference: ES 202 915-5 [1], clauses 8.1 and 8.2

Selection: createNotification methods supported - PICS item: [2] UIM3

Test Sequence:

1. Method call **createNotification()**
 Parameters: appUIManager, eventCriteria,
 Check: valid value of TpAssignmentID is returned

2. Triggered action: cause IUT to call **reportEventNotification()** method on the tester's (Application) **IpAppUIManager** interface.
 Check: valid value of userInteraction, eventNotificationInfo and assignmentID given in 1. is transmitted,
 Return: valid value of IpAppUIRef



Test UI_09

Summary: **IpUIManager**, createNotification method, P_INVALID_INTERFACE_TYPE

Reference: ES 202 915-5 [1], clause 8.1

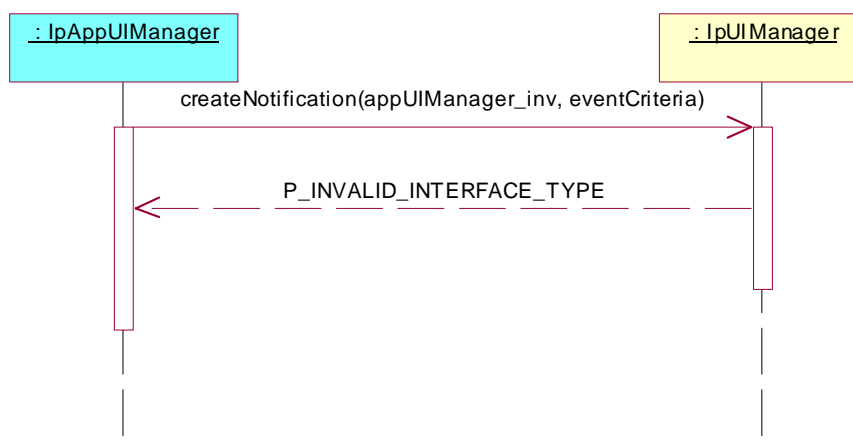
Selection: createNotification methods supported - PICS item: [2] UIM3

Test Sequence:

1. Method call **createNotification()**

Parameters: appUIManager including an invalid reference type, eventCriteria,

Check: P_INVALID_INTERFACE_TYPE is returned



Test UI_10

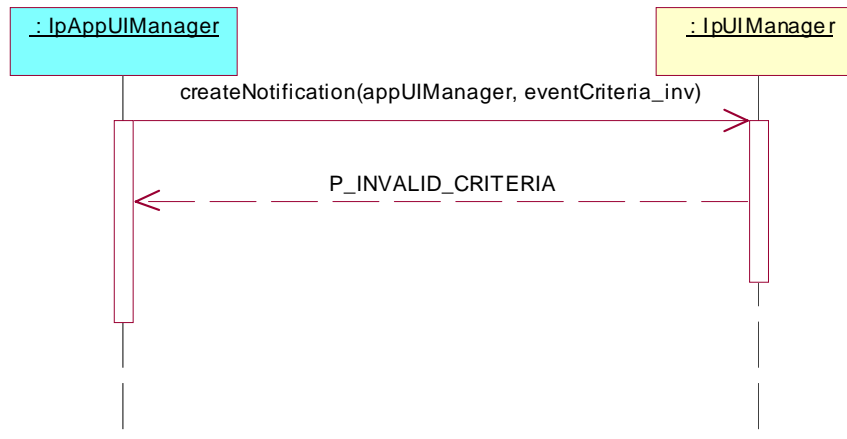
Summary: **IpUIManager**, createNotification method, P_INVALID_CRITERIA

Reference: ES 202 915-5 [1], clause 8.1

Selection: createNotification methods supported - PICS item: [2] UIM3

Test Sequence:

1. Method call **createNotification()**
Parameters: appUIManager, eventCriteria containing an invalid criteria.
Check: P_INVALID_CRITERIA is returned.

**Test UI_11**

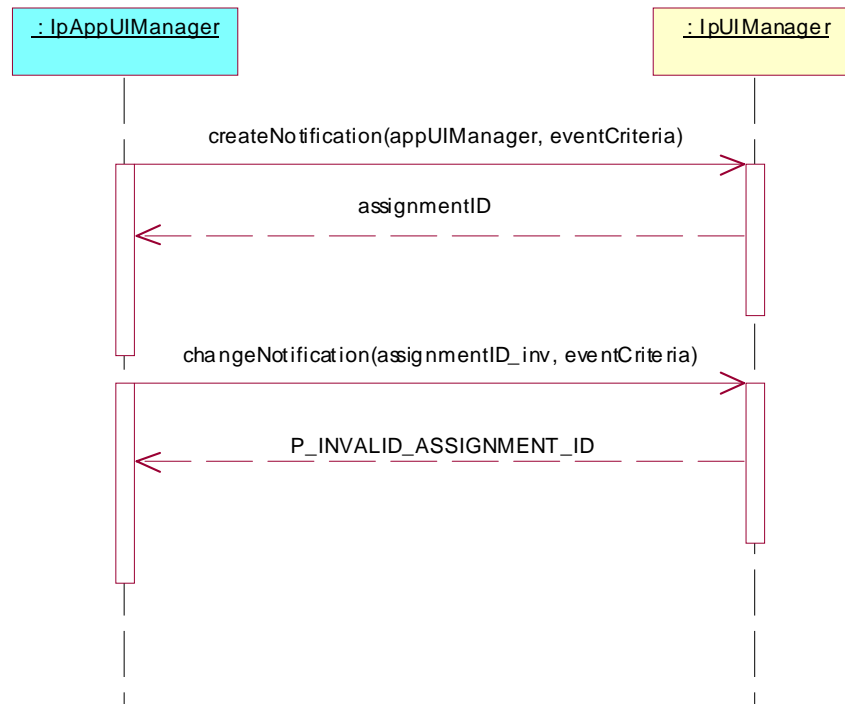
Summary: **IpUIManager**, createNotification and changeNotification methods, P_INVALID_ASSIGNMENT_ID

Reference: ES 202 915-5 [1], clause 8.1

Selection: createNotification and changeNotification methods supported - PICS item: [2] UIM3 AND UIM5

Test Sequence:

1. Method call **createNotification()**
Parameters: appUIManager, eventCriteria,
Check: valid value of TpAssignmentID is returned
2. Method call **changeNotification()**
Parameters: assignmentID different from returned in 1., eventCriteria.
Check: P_INVALID_ASSIGNMENT_ID is returned.



Test UI_12

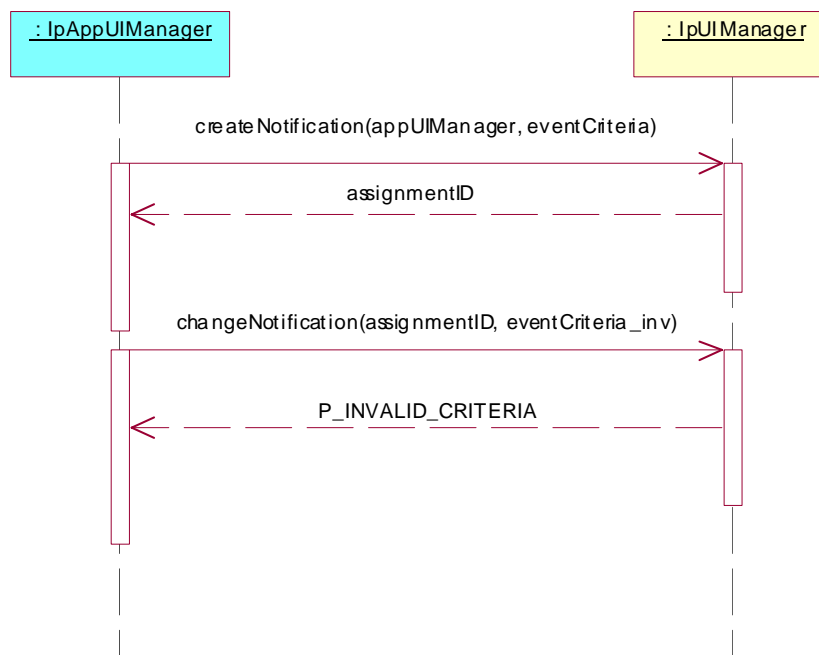
Summary: **IpUIManager**, createNotification and changeNotification method, P_INVALID_CRITERIA

Reference: ES 202 915-5 [1], clause 8.1

Selection: createNotification and changeNotification methods supported - PICS item: [2] UIM3 AND UIM5

Test Sequence:

1. Method call **createNotification()**
 Parameters: appUIManager, eventCriteria,
 Check: valid value of TpAssignmentID is returned
2. Method call **changeNotification()**
 Parameters: assignmentID as returned in 1., eventCriteria containing an invalid criteria..
 Check: P_INVALID_CRITERIA is returned.



Test UI_13

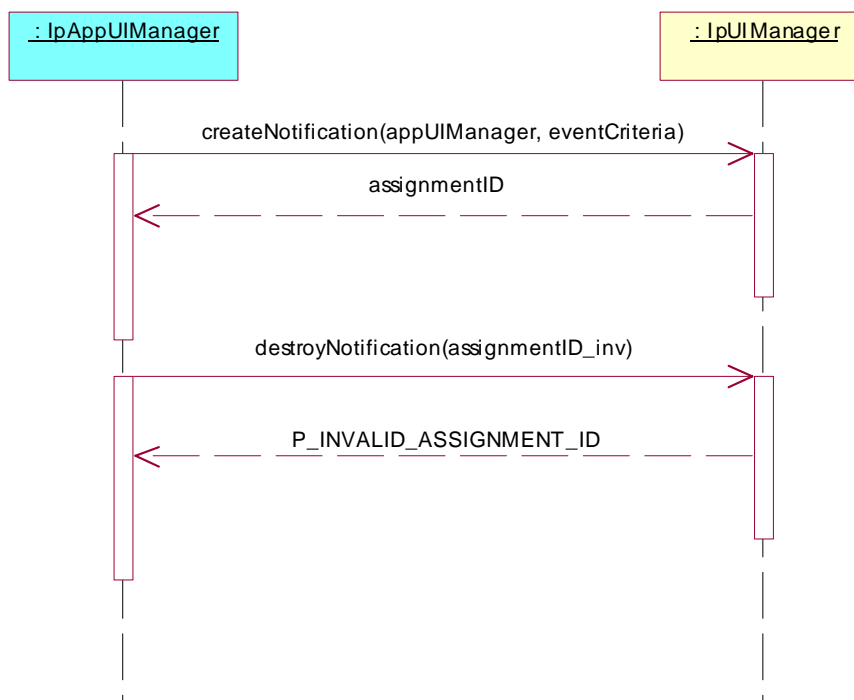
Summary: **IpUIManager**, destroyNotification method, P_INVALID_ASSIGNMENT_ID

Reference: ES 202 915-5 [1], clause 8.1

Selection: createNotification method supported - PICS item: [2] UIM3

Test Sequence:

1. Method call **createNotification()**
 Parameters: appUIManager, eventCriteria,
 Check: valid value of TpAssignmentID is returned
2. Method call **destroyNotification()**
 Parameters: assignmentID different from 1..
 Check: P_INVALID_ASSIGNMENT_ID is returned.



Test UI_52

Summary: **IpUIManager**, all methods, successful

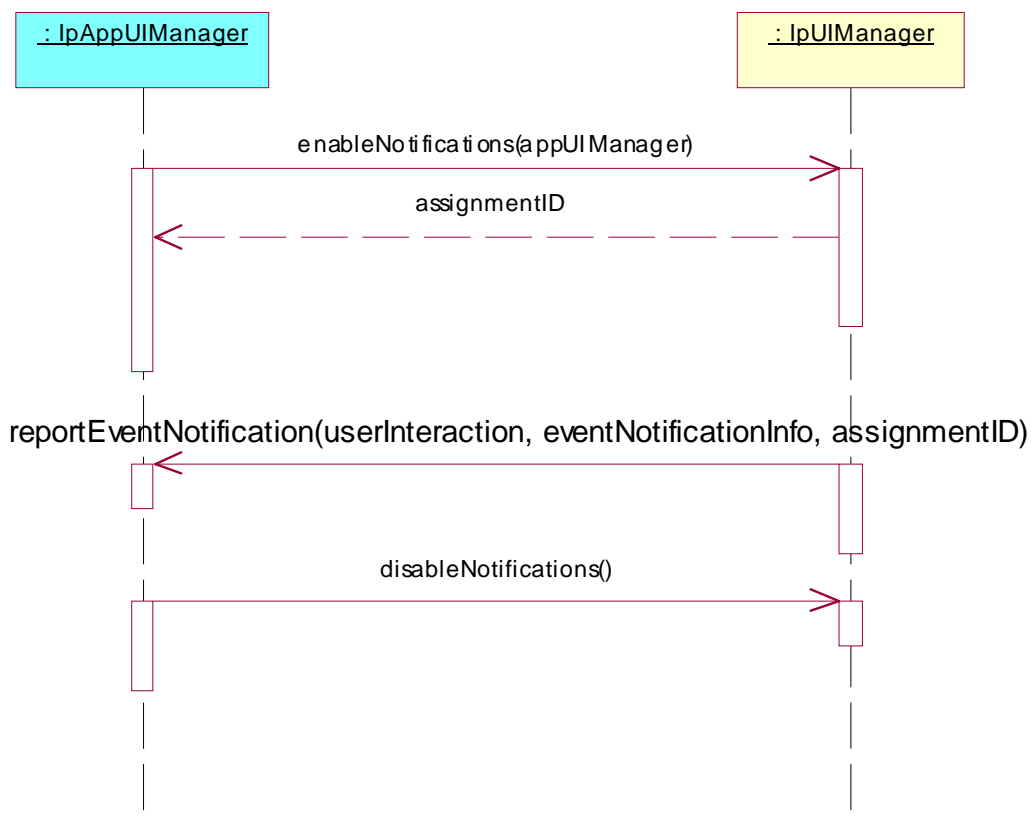
Reference: ES 202 915-5 [1], clause 8.1

Precondition: enableNotifications supported

Preamble: Registration of the IUT (User Interaction SCF) and the tester (application) to the framework. The tester must have obtained a reference to an instance of the IpUIManager interface through selecting that service and signing the required service agreement.

Test Sequence:

1. Method call **enableNotifications()**
Parameters: appUIManager
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **reportEventNotification()** method on the tester's (Application) **IpAppAccountManager** interface.
Parameters: userInteraction, eventNotificationInfo, assignmentID
3. Method call **disableNotifications()**
Parameters: none
Check: no exception is returned



5.2.1.2 IpUI interface

Test UI_14

Summary: **IpUI**, sendInfoReq & sendInfoRes methods, successful

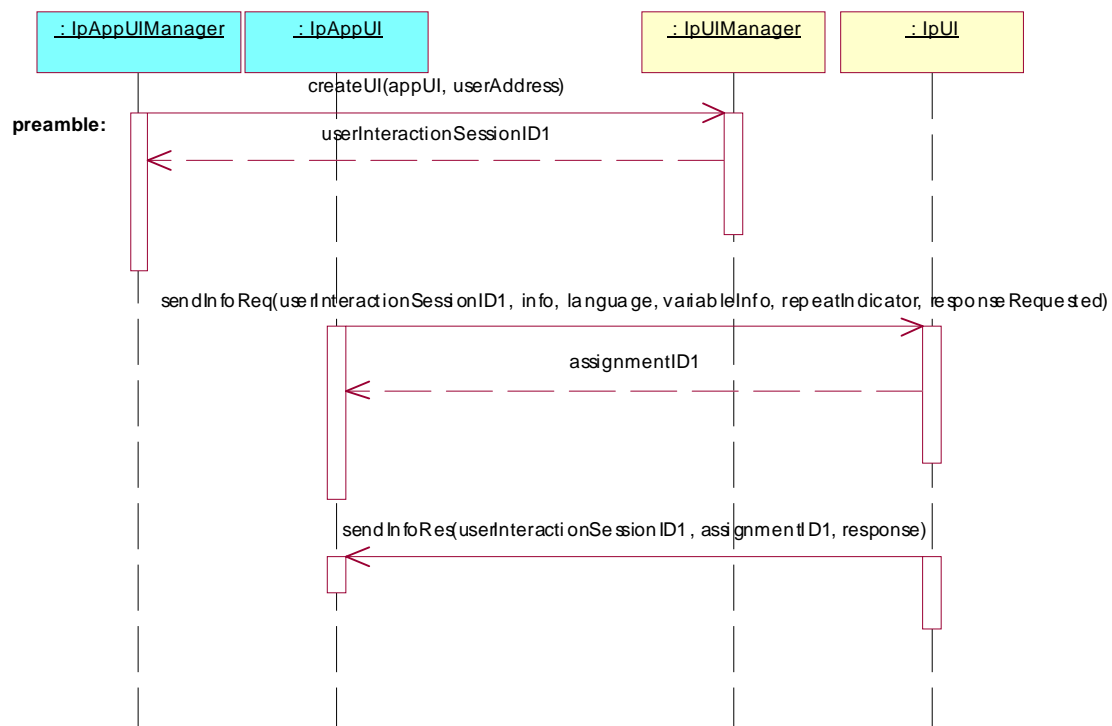
Reference: ES 202 915-5 [1], clauses 8.3 and 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoReq method supported - PICS item: [2] UI1

Test Sequence:

- Method call **sendInfoReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.
 Check: valid value of TpAssignmentID is returned
- Triggered action: cause IUT to call **sendInfoRes()** method on the tester's (Application) **IpAppUI** interface.
 Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.) and response is transmitted,
 Return: no parameter



Test UI_15

Summary: **IpUI**, sendInfoReq methods, P_INVALID_SESSION_ID

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

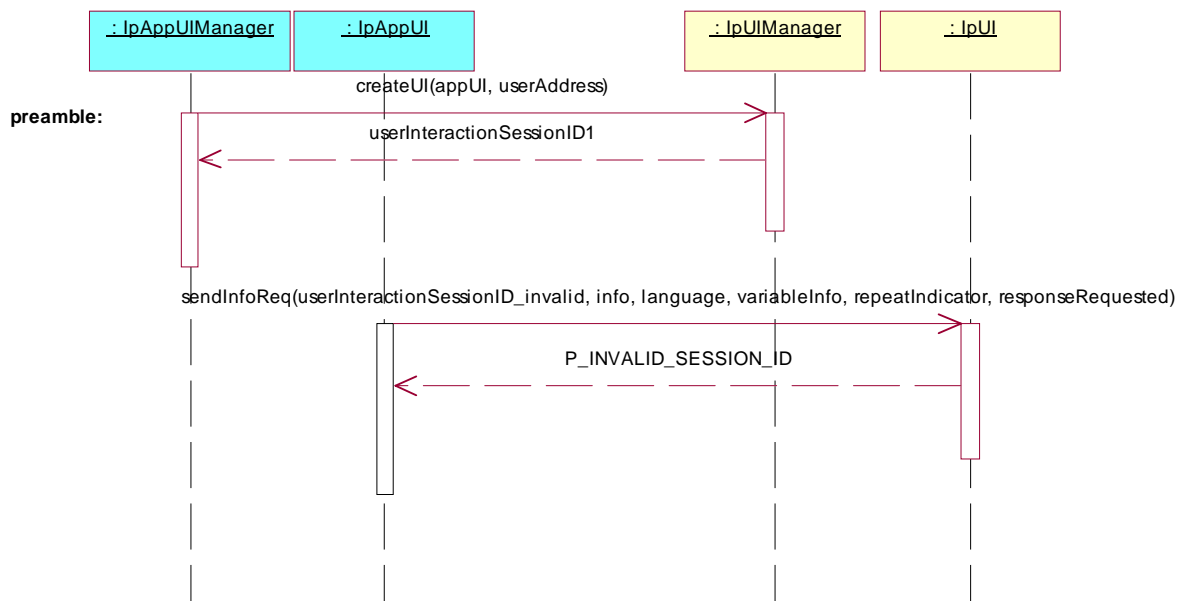
Selection: sendInfoReq method supported - PICS item: [2] UI1

Test Sequence:

1. Method call **sendInfoReq()**

Parameters: invalid userInteractionSessionID, info, language, variableInfo, repeatIndicator, responseRequested.

Check: P_INVALID_SESSION_ID is returned



Test UI_16

Summary: **IpUI**, sendInfoReq methods, P_INVALID_NETWORK_STATE

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Condition: the underlying protocol cannot support the method call.

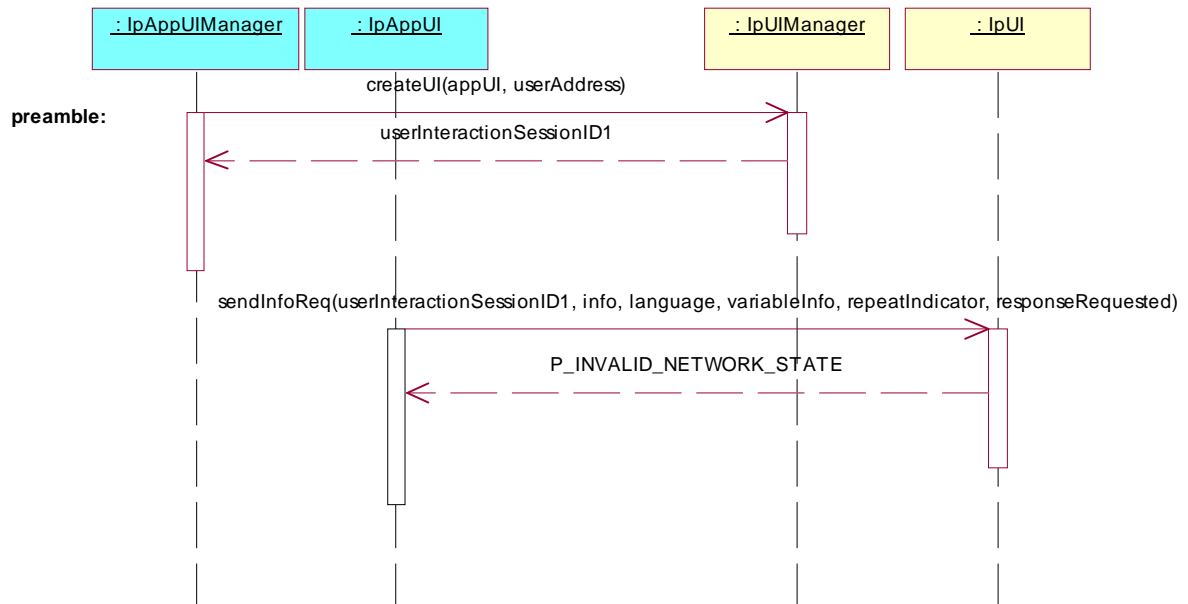
Selection: sendInfoReq method supported - PICS item: [2] UI1

Test Sequence:

1. Method call **sendInfoReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.

Check: P_INVALID_NETWORK_STATE is returned



Test UI_17

Summary: **IpUI**, sendInfoReq methods, P_ILLEGAL_ID

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

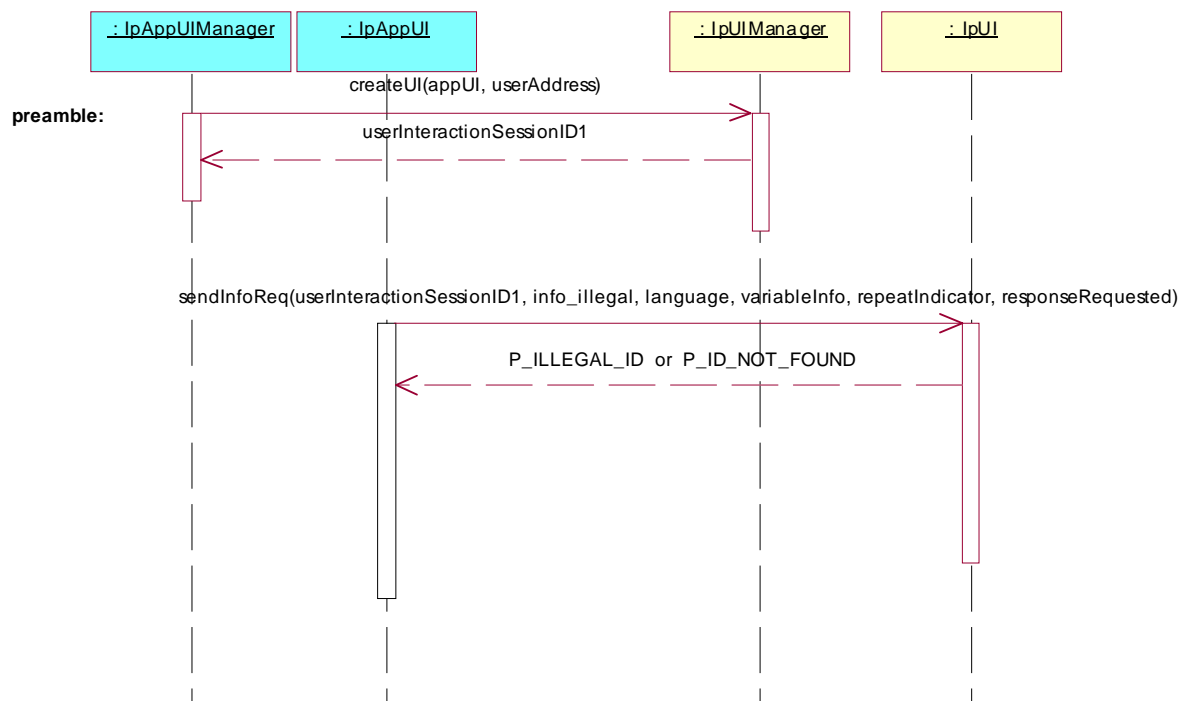
Selection: sendInfoReq method supported - PICS item: [2] UI1

Test Sequence:

1. Method call **sendInfoReq()**

Parameters: userInteractionSessionID given in preamble, illegal info, language, variableInfo, repeatIndicator, responseRequested.

Check: P_ILLEGAL_ID or P_ID_NOT_FOUND is returned



Test UI_18

Summary: **IpUI**, sendInfoAndCollectReq & sendInfoAndCollectRes methods, successful

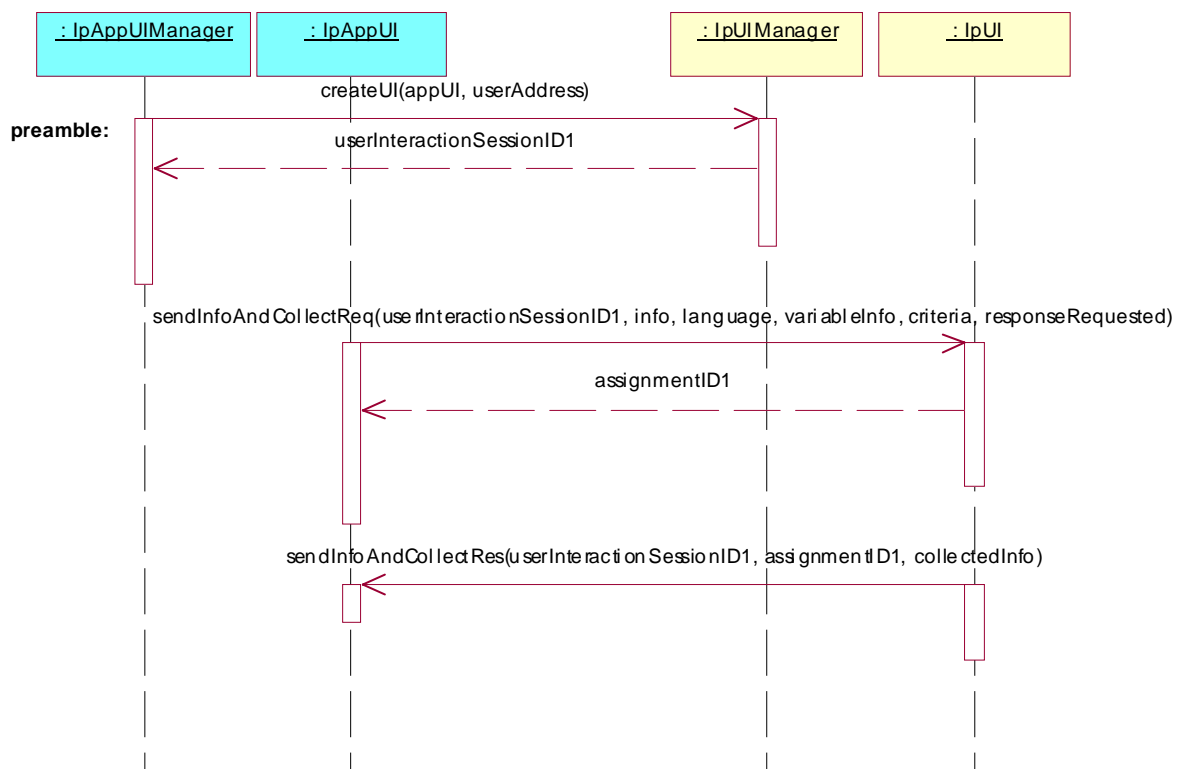
Reference: ES 202 915-5 [1], clauses 8.3 and 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAndCollectReq method supported - PICS item: [2] UI2

Test Sequence:

- Method call **sendInfoAndCollectReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.
 Check: valid value of TpAssignmentID is returned
- Triggered action: cause IUT to call **sendInfoAndCollectRes()** method on the tester's (Application) **IpAppUI** interface.
 Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.), response and collectedInfo is transmitted,
 Return: no parameter



Test UI_19

Summary: **IpUI**, sendInfoAndCollectReq methods, P_INVALID_SESSION_ID

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

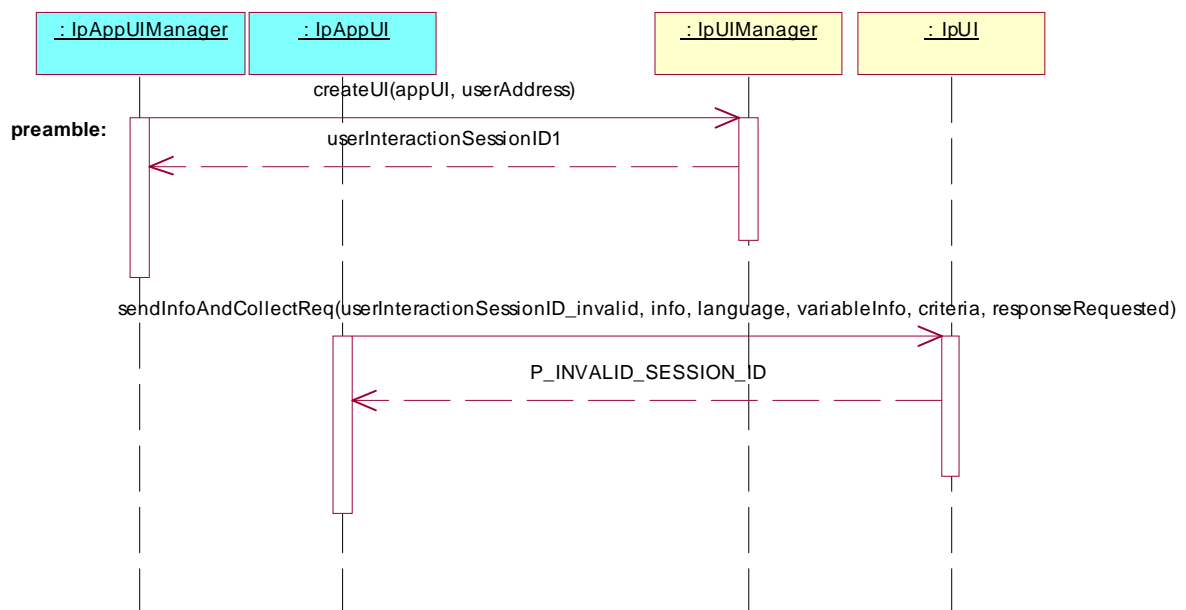
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UI2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: invalid userInteractionSessionID, info, language, variableInfo, criteria, responseRequested.

Check: P_INVALID_SESSION_ID is returned



Test UI_20

Summary: **IpUI**, **sendInfoAndCollectReq** methods, **P_INVALID_NETWORK_STATE**

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Condition: the underlying protocol cannot support the method call.

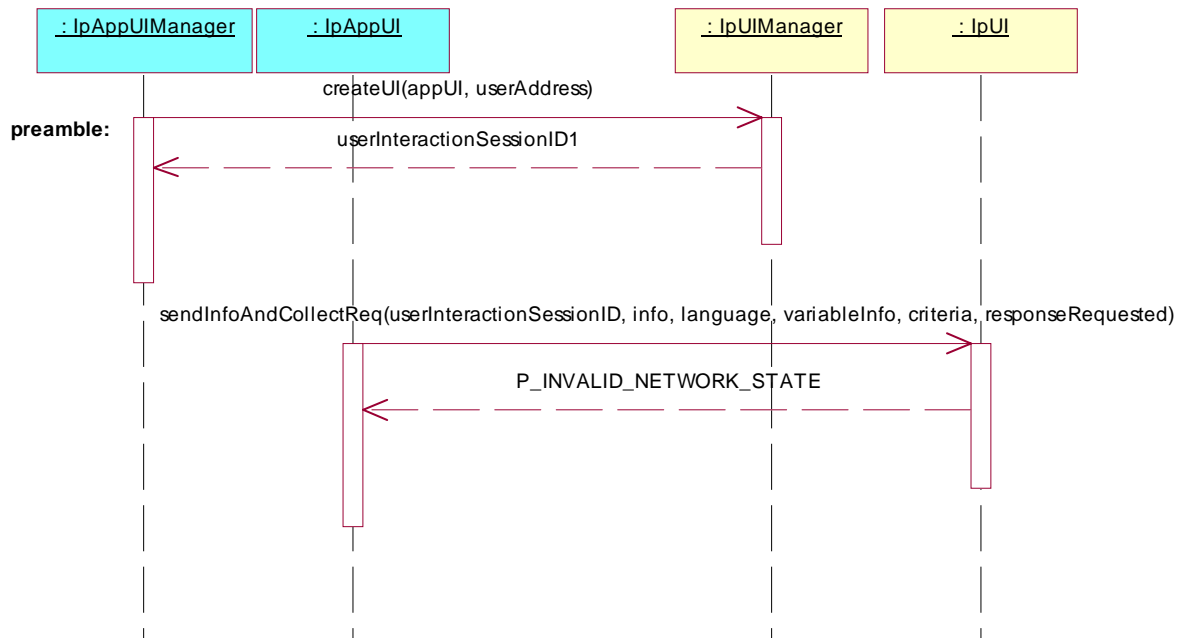
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UI2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.

Check: **P_INVALID_NETWORK_STATE** is returned



Test UI_21

Summary: **IpUI**, sendInfoAndCollectReq methods, P_ILLEGAL_ID

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

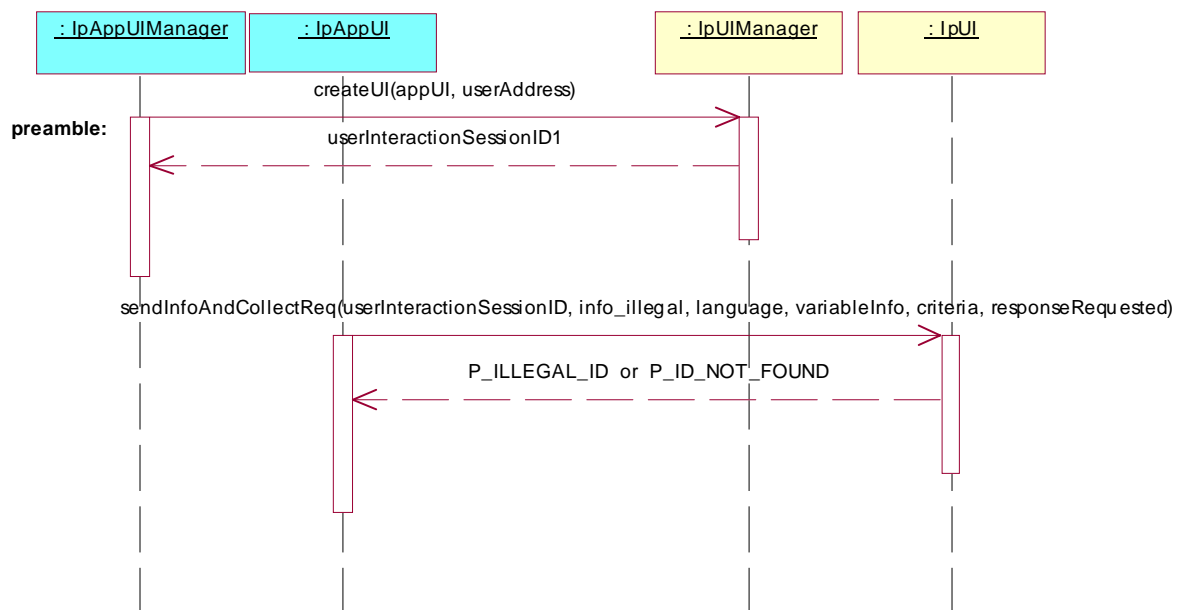
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UI2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, illegal info, language, variableInfo, criteria, responseRequested

Check: P_ILLEGAL_ID or P_ID_NOT_FOUND is returned



Test UI_22

Summary: **IpUI**, sendInfoAndCollectReq methods, P_ILLEGAL_RANGE

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

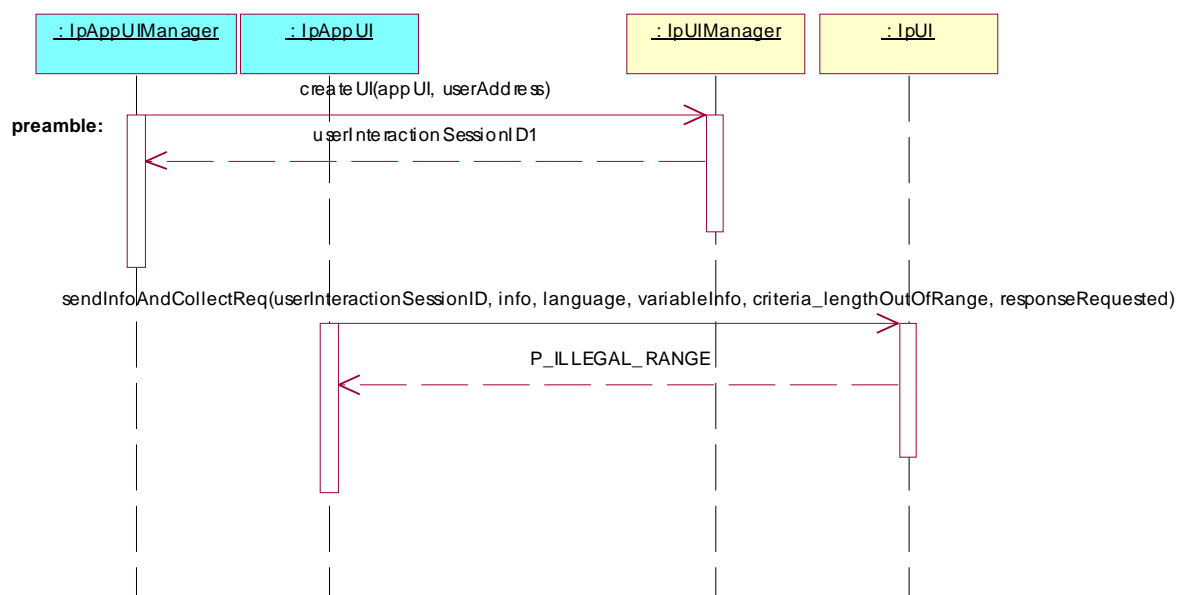
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UI2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria with collection length out of range, responseRequested.

Check: P_ILLEGAL_RANGE is returned



Test UI_23

Summary: **IpUI**, sendInfoAndCollectReq methods, P_INVALID_COLLECTION_CRITERIA

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

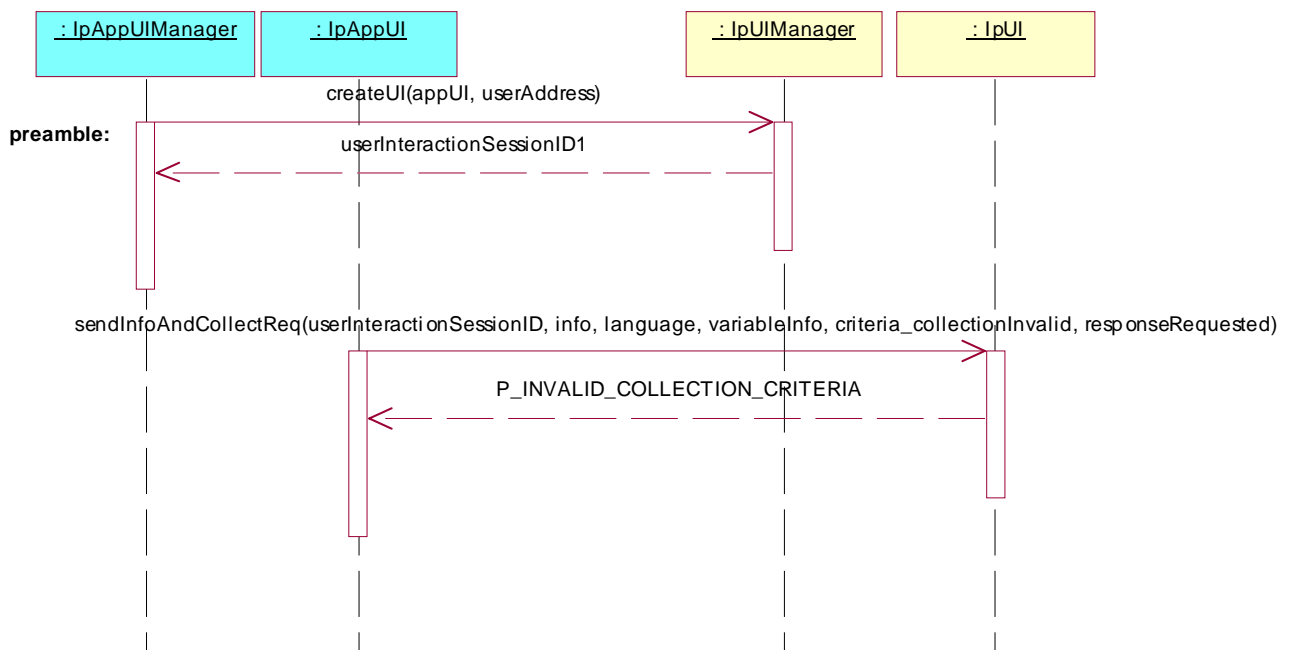
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UI2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, invalid collection criteria, responseRequested.

Check: P_INVALID_COLLECTION_CRITERIA is returned



Test UI_24

Summary: **IpUI**, release method, successful

Reference: ES 202 915-5 [1], clause 8.3

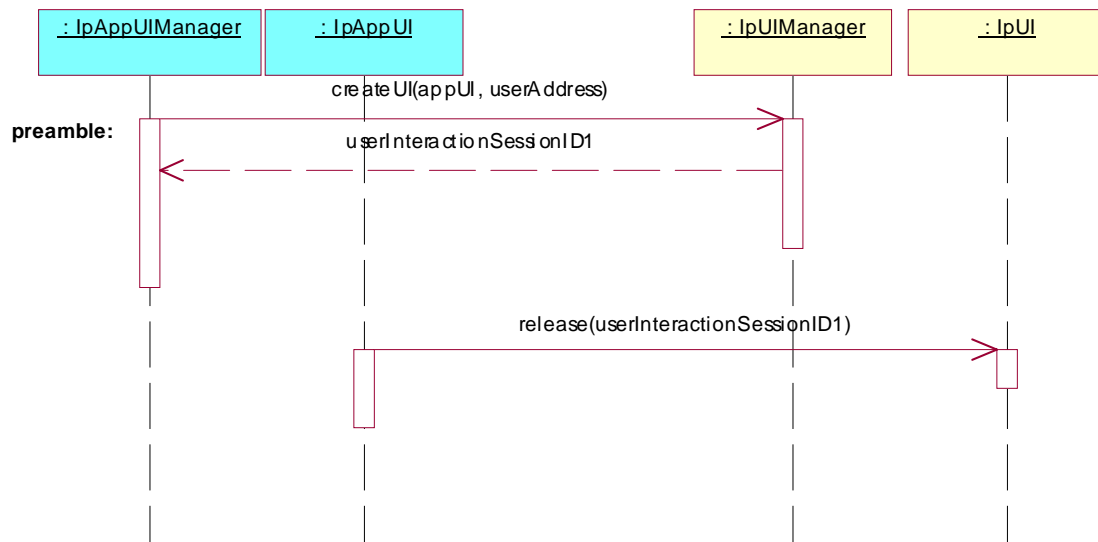
Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Test Sequence:

1. Method call **release()**

Parameters: userInteractionSessionID given in preamble.

Check: no exception is returned.



Test UI_25

Summary: **IpUI**, release method, P_INVALID_SESSION_ID

Reference: ES 202 915-5 [1], clause 8.3

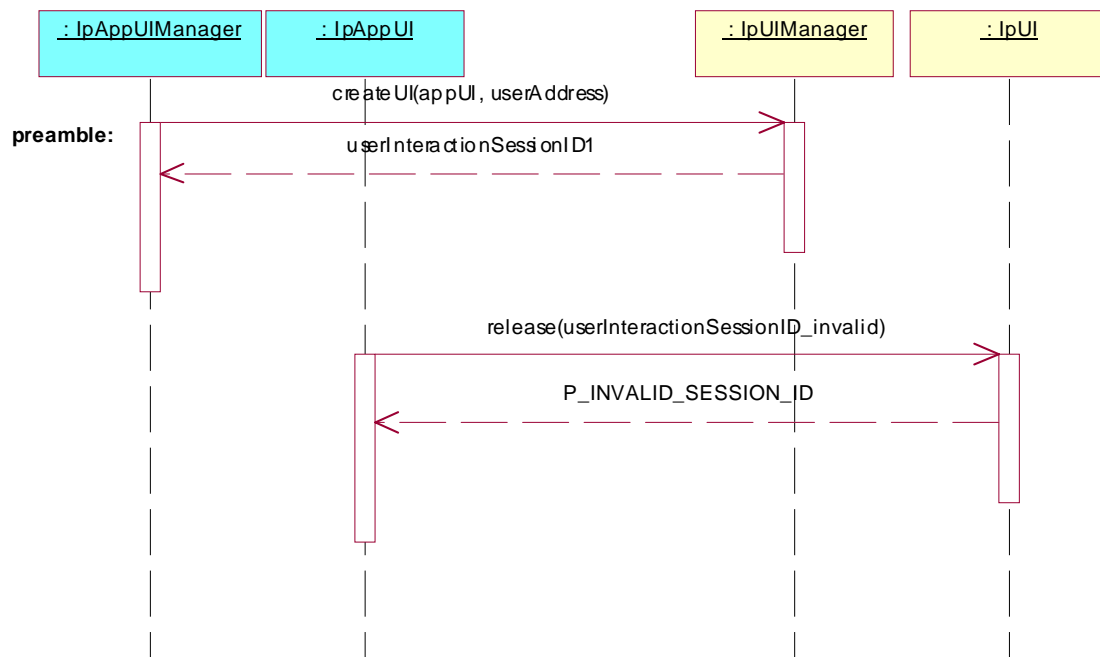
Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Test Sequence:

1. Method call **release()**

Parameters: invalid userInteractionSessionID,

Check: P_INVALID_SESSION_ID is returned.



Test UI_53

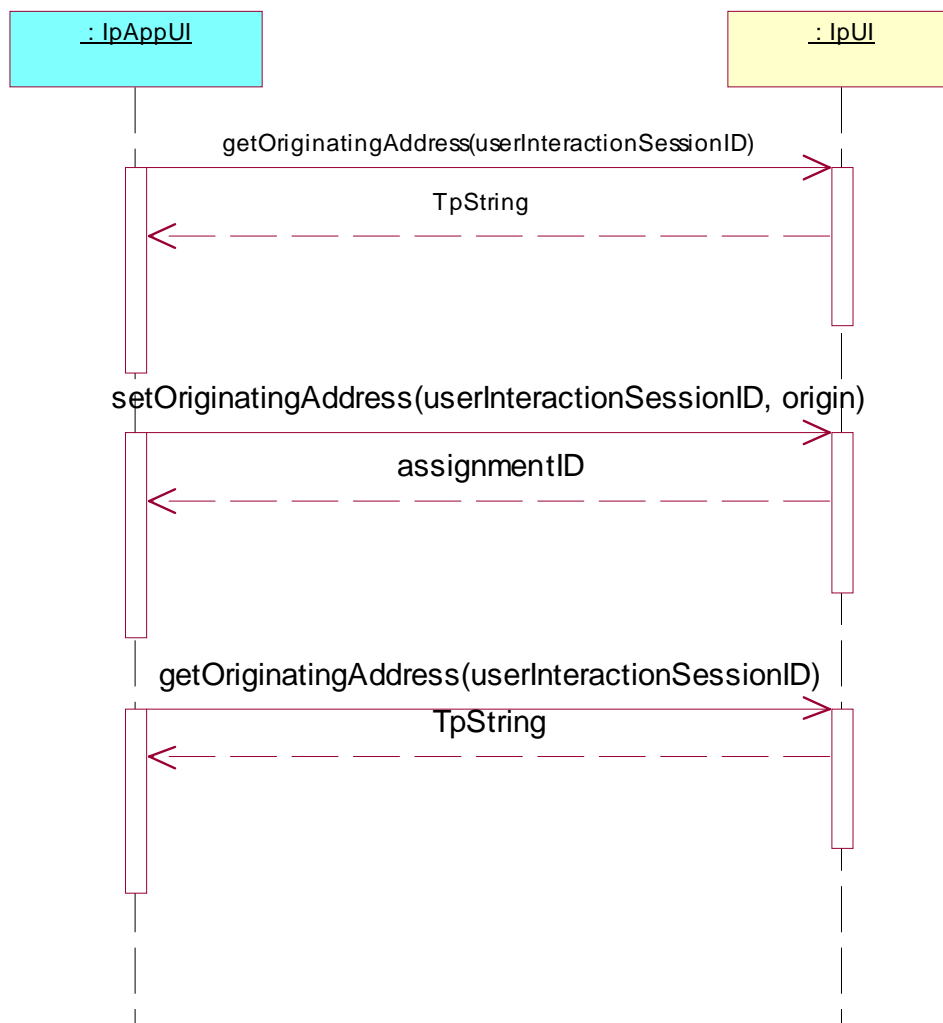
Summary: **IpUI**, all method, successful

Reference: ES 202 915-5 [1], clause 8.3

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Test Sequence:

1. Method call **getOriginatingAddress ()**
Parameters: userInteractionSessionID,
Check: valid value of TpString is returned.
2. Method call **setOriginatingAddress ()**
Parameters: userInteractionSessionID, origin with different value of returned in 1.,
Check: valid value of TpAssignmentID is returned.
3. Method call **getOriginatingAddress ()**
Parameters: userInteractionSessionID,
Check: valid value of TpString is returned with value given in 2.



5.2.1.3 IpUICall interface

Test UI_26

Summary: **IpUICall**, sendInfoReq & sendInfoRes methods, successful

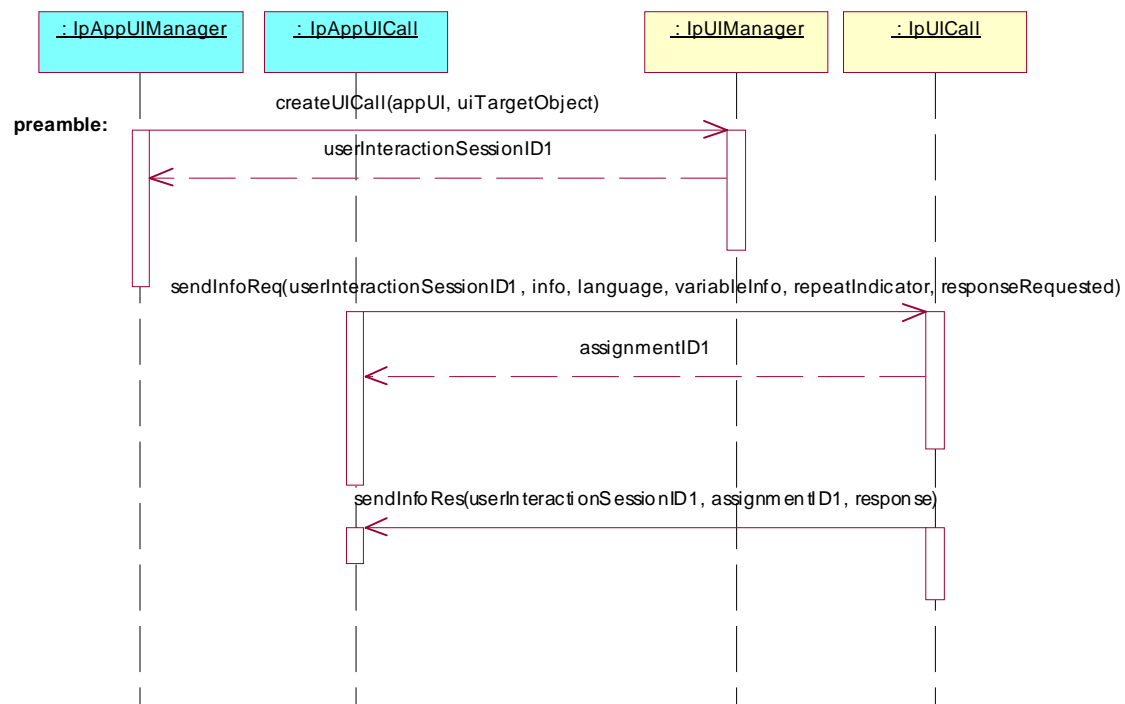
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoReq method supported - PICS item: [2] UIC1

Test Sequence:

1. Method call **sendInfoReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **sendInfoRes()** method on the tester's (Application) **IpAppUICall** interface.
 Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.) and response is transmitted,
 Return: no parameter



Test UI_27

Summary: **IpUICall**, sendInfoAndCollectReq & sendInfoAndCollectRes methods, successful

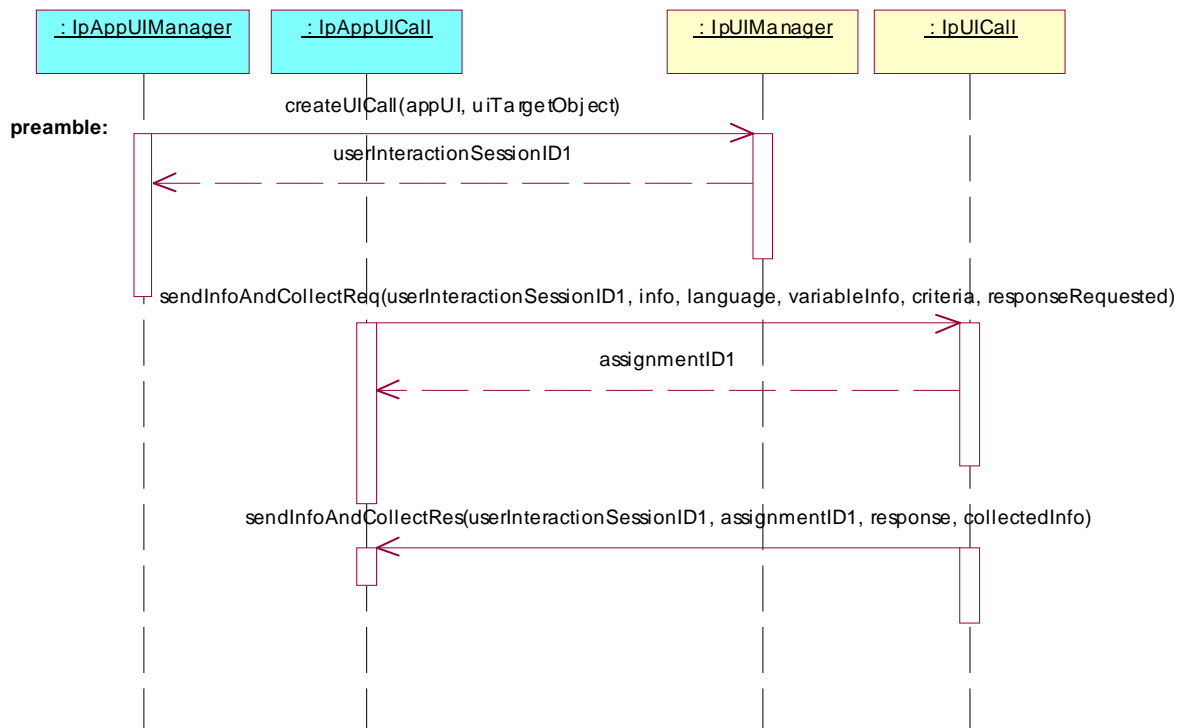
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAndCollectReq method supported - PICS item: [2] UIC2

Test Sequence:

- Method call **sendInfoAndCollectReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.
 Check: valid value of TpAssignmentID is returned
- Triggered action: cause IUT to call **sendInfoAndCollectRes()** method on the tester's (Application) **IpAppUICall** interface.
 Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.), response and collectedInfo is transmitted,
 Return: no parameter



Test UI_28

Summary: **IpUICall**, all methods, successful

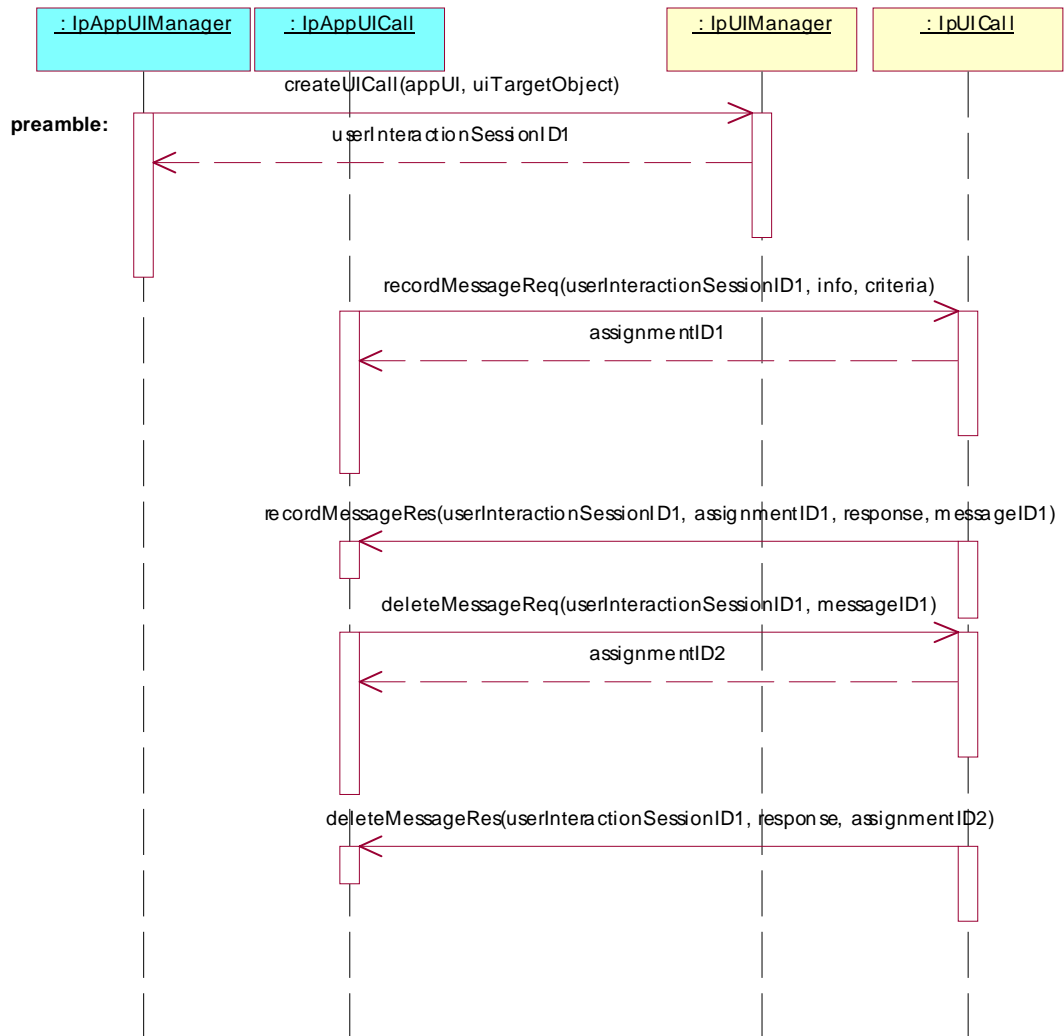
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: recordMessageReq and deleteMessageReq methods supported - PICS item: [2] UIC4 AND UIC5

Test Sequence:

1. Method call **recordMessageReq()**
Parameters: userInteractionSessionID given in preamble, info, criteria.
Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **recordMessageRes()** method on the tester's (Application) **IpAppUICall** interface.
Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.), response and messageID is transmitted,
Return: no parameter
3. Method call **deleteMessageReq()**
Parameters: userInteractionSessionID given in preamble, messageID returned in 2.
Check: valid value of TpAssignmentID is returned
4. Triggered action: cause IUT to call **deleteMessageRes()** method on the tester's (Application) **IpAppUICall** interface.
Check: valid value of userInteractionSessionID (given in preamble), response and assignmentID (returned in 3.) is transmitted,
Return: no parameter



Test UI_29

Summary: **IpUICall**, abortActionReq and abortActionRes methods, successful

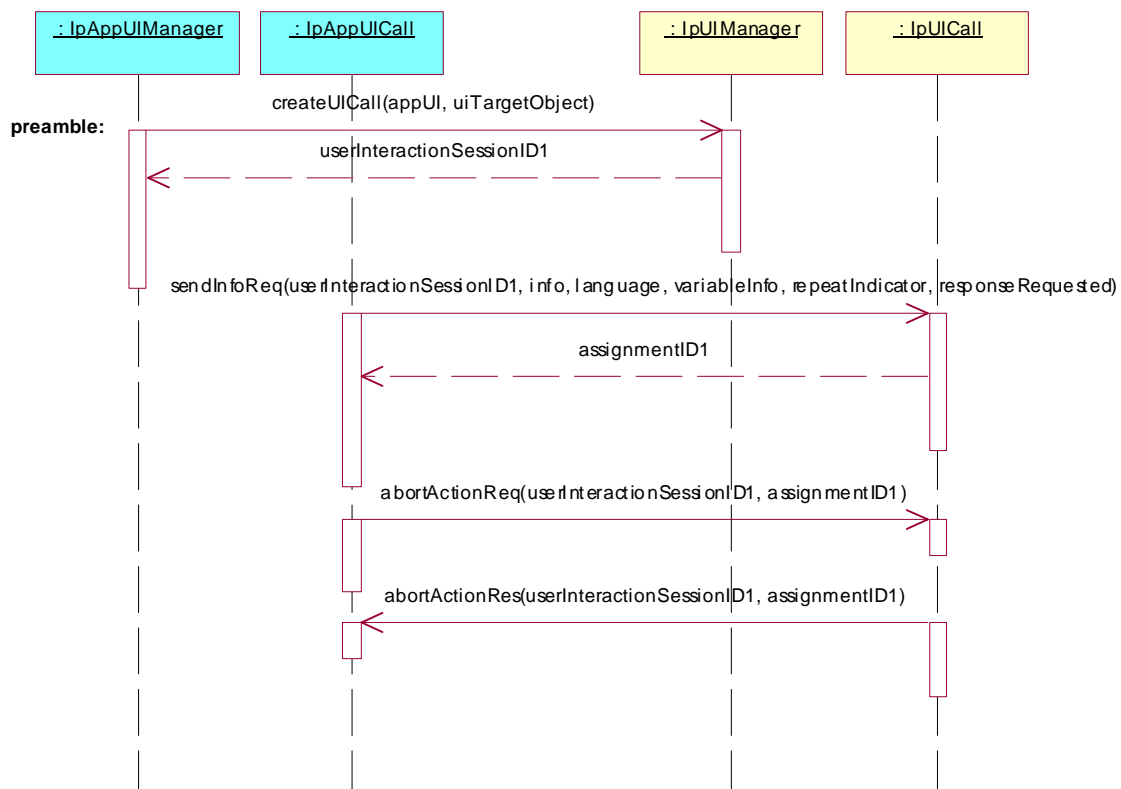
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoReq and abortActionReq methods supported - PICS item: [2] UIC1 AND UIC6

Test Sequence:

1. Method call **sendInfoReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.
 Check: valid value of TpAssignmentID is returned
2. Method call **abortActionReq()**
 Parameters: userInteractionSessionID given in preamble, assignmentID returned in 1.
 Check: no exception is returned.
3. Triggered action: cause IUT to call **abortActionRes()** method on the tester's (Application) **IpAppUICall** interface.
 Check: valid value of userInteractionSessionID (given in preamble) and assignmentID (returned in 1.) is transmitted,
 Return: no parameter



Test UI_30

Summary: **IpUICall**, abortActionReq and abortActionRes methods, successful

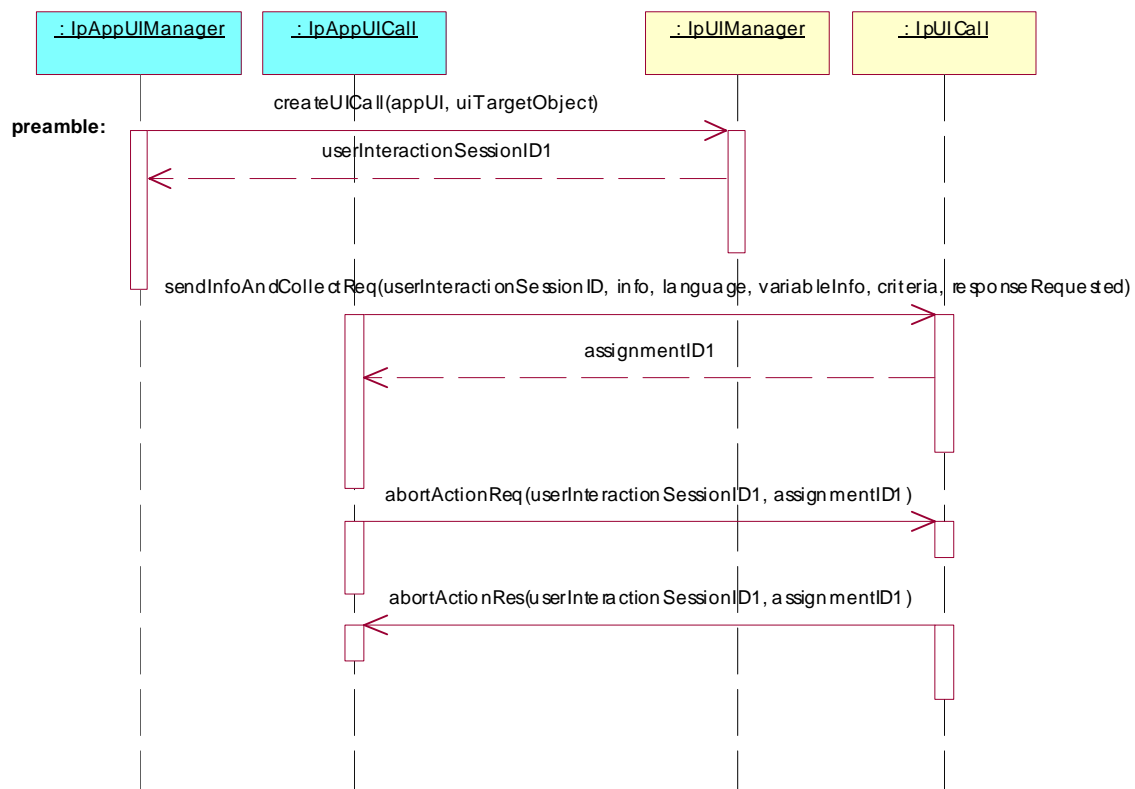
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAndCollectReq and abortActionReq methods supported - PICS item: [2] UIC2 AND UIC6

Test Sequence:

1. Method call **sendInfoAndCollectReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.
 Check: valid value of TpAssignmentID is returned
2. Method call **abortActionReq()**
 Parameters: userInteractionSessionID given in preamble, assignmentID returned in 1.
 Check: no exception is returned.
3. Triggered action: cause IUT to call **abortActionRes()** method on the tester's (Application) **IpAppUICall** interface.
 Check: valid value of userInteractionSessionID (given in preamble) and assignmentID (returned in 1.) is transmitted,
 Return: no parameter



Test UI_31

Summary: **IpUICall**, release method, successful

Reference: ES 202 915-5 [1], clause 8.5

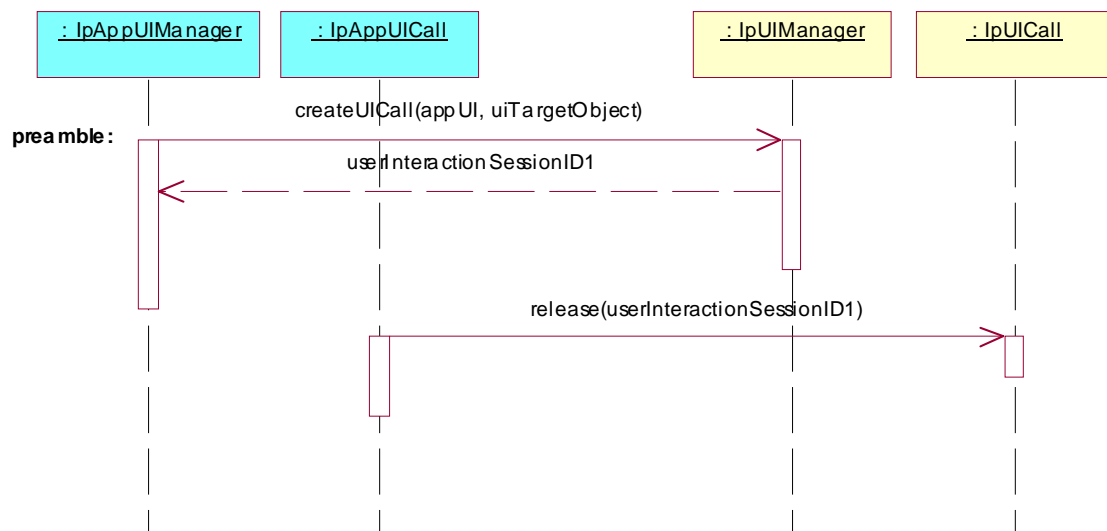
Preamble: A User Interaction object, created either with the createUI or the createCallUIcreateUICall method on the IpUIManager interface, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Test Sequence:

1. Method call **release()**

Parameters: userInteractionSessionID given in preamble.

Check: no exception is returned.



Test UI_32

Summary: **IpUICall**, sendInfoReq methods, P_INVALID_SESSION_ID

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

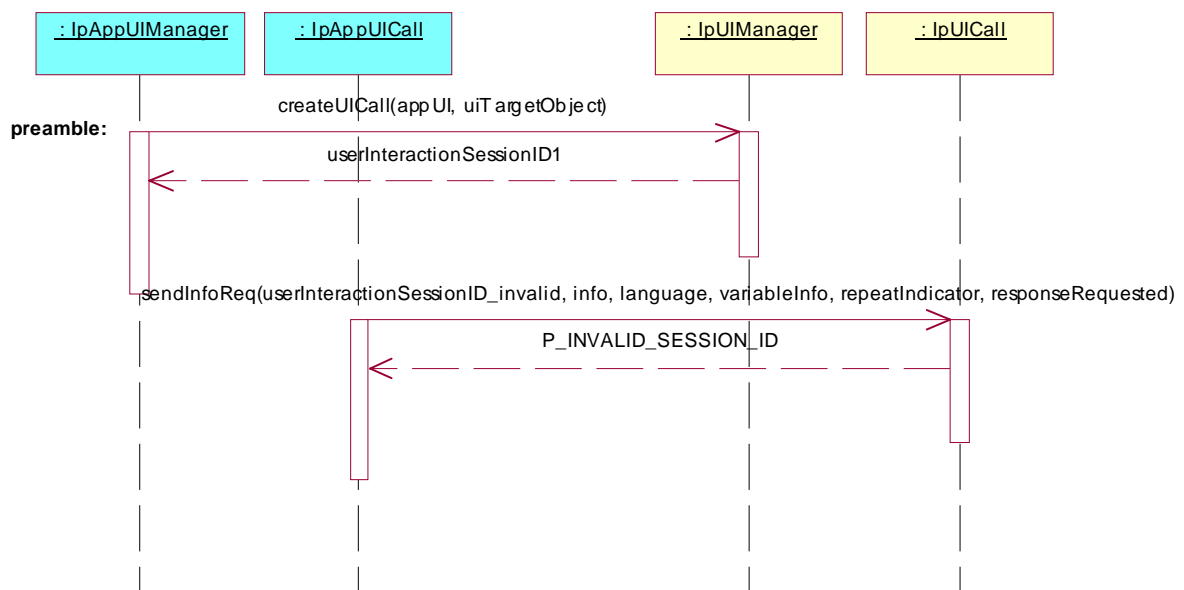
Selection: sendInfoReq method supported - PICS item: [2] UIC1

Test Sequence:

1. Method call **sendInfoReq()**

Parameters: invalid userInteractionSessionID, info, language, variableInfo, repeatIndicator, responseRequested.

Check: P_INVALID_SESSION_ID is returned



Test UI_33

Summary: **IpUICall**, sendInfoReq methods, P_INVALID_NETWORK_STATE

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Condition: the underlying protocol cannot support the method call.

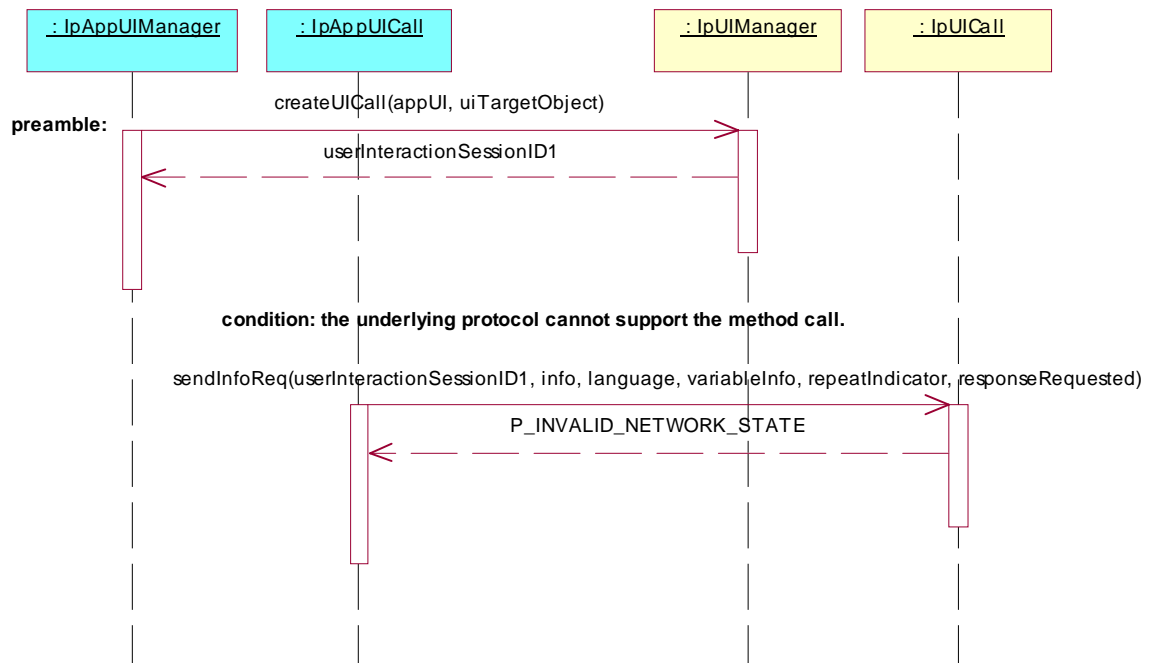
Selection: sendInfoReq method supported - PICS item: [2] UIC1

Test Sequence:

1. Method call **sendInfoReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.

Check: P_INVALID_NETWORK_STATE is returned



Test UI_34

Summary: **IpUICall**, sendInfoReq methods, P_ILLEGAL_ID

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

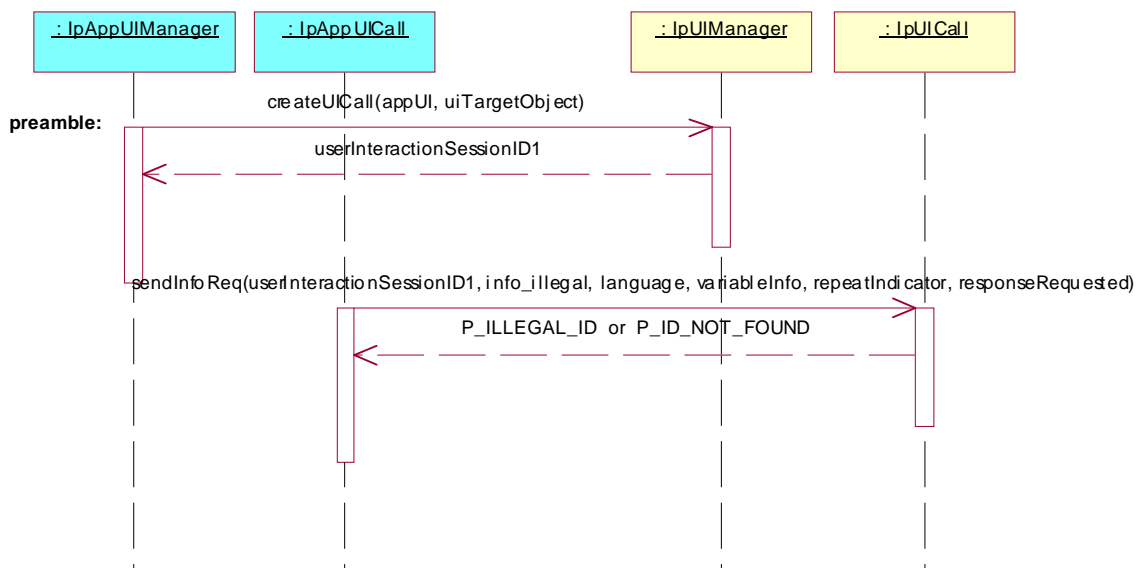
Selection: sendInfoReq method supported - PICS item: [2] UIC1

Test Sequence:

1. Method call **sendInfoReq()**

Parameters: userInteractionSessionID given in preamble, illegal info, language, variableInfo, repeatIndicator, responseRequested.

Check: P_ILLEGAL_ID or P_ID_NOT_FOUND is returned



Test UI_35

Summary: **IpUICall**, `sendInfoAndCollectReq` methods, `P_INVALID_SESSION_ID`

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the `createUI` or the `createUICall` method on the `IpUIManager` interface or reported in a `reportEventNotification` method exists. The given `sessionId` is used in the following methods to identify this User Interaction object.

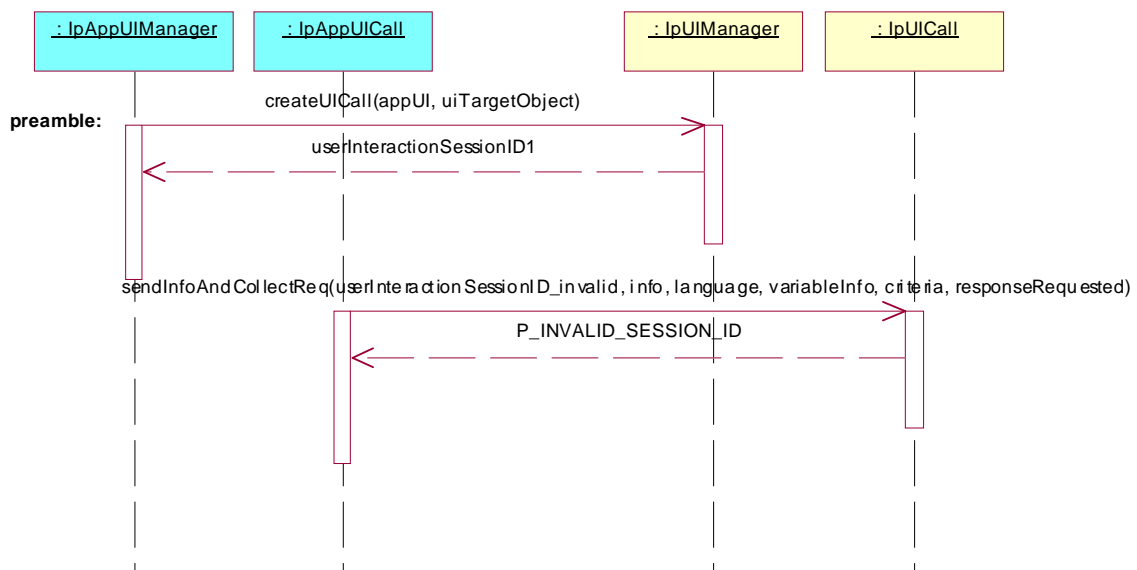
Selection: `sendInfoAndCollectReq` method supported - PICS item: [2] UIC2

Test Sequence:

1. Method call **`sendInfoAndCollectReq()`**

Parameters: `invalid userInteractionSessionID`, `info`, `language`, `variableInfo`, `criteria`, `responseRequested`.

Check: `P_INVALID_SESSION_ID` is returned



Test UI_36

Summary: **IpUICall**, sendInfoAndCollectReq methods, P_INVALID_NETWORK_STATE

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Condition: the underlying protocol cannot support the method call.

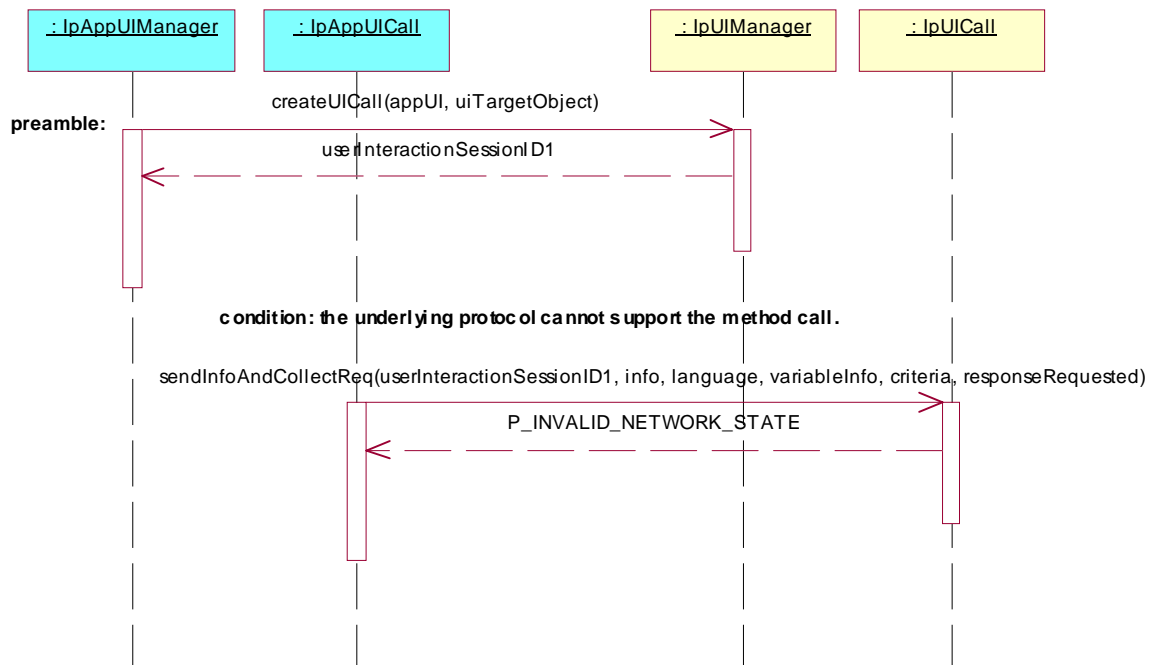
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UIC2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.

Check: P_INVALID_NETWORK_STATE is returned



Test UI_37

Summary: **IpUICall**, sendInfoAndCollectReq methods, P_ILLEGAL_ID

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

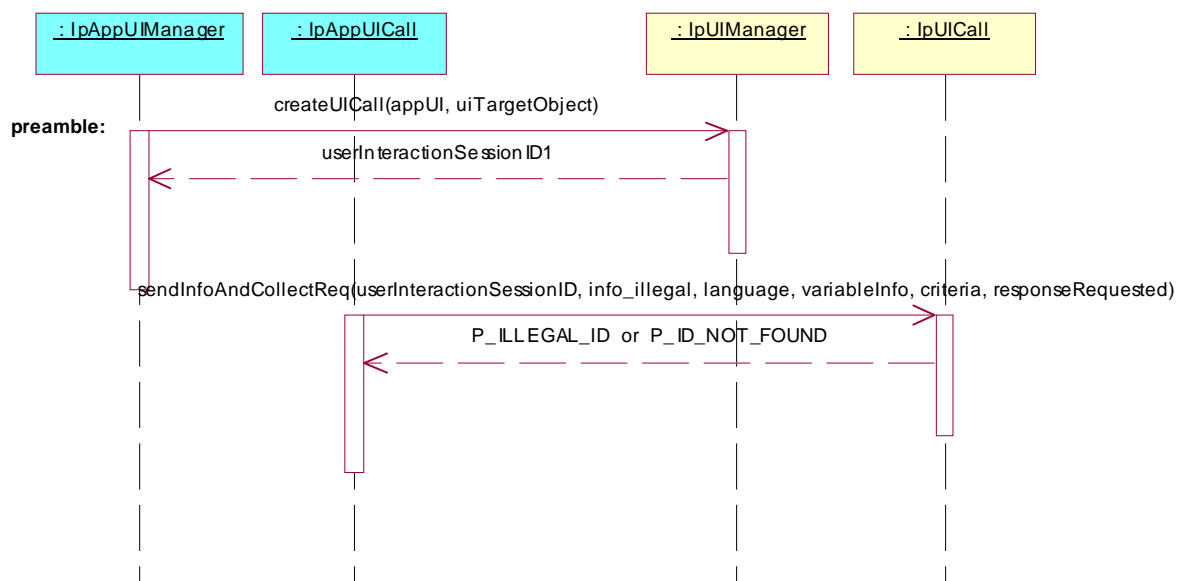
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UIC2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, illegal info, language, variableInfo, criteria, responseRequested

Check: P_ILLEGAL_ID or P_ID_NOT_FOUND is returned



Test UI_38

Summary: **IpUICall**, sendInfoAndCollectReq methods, P_ILLEGAL_RANGE

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

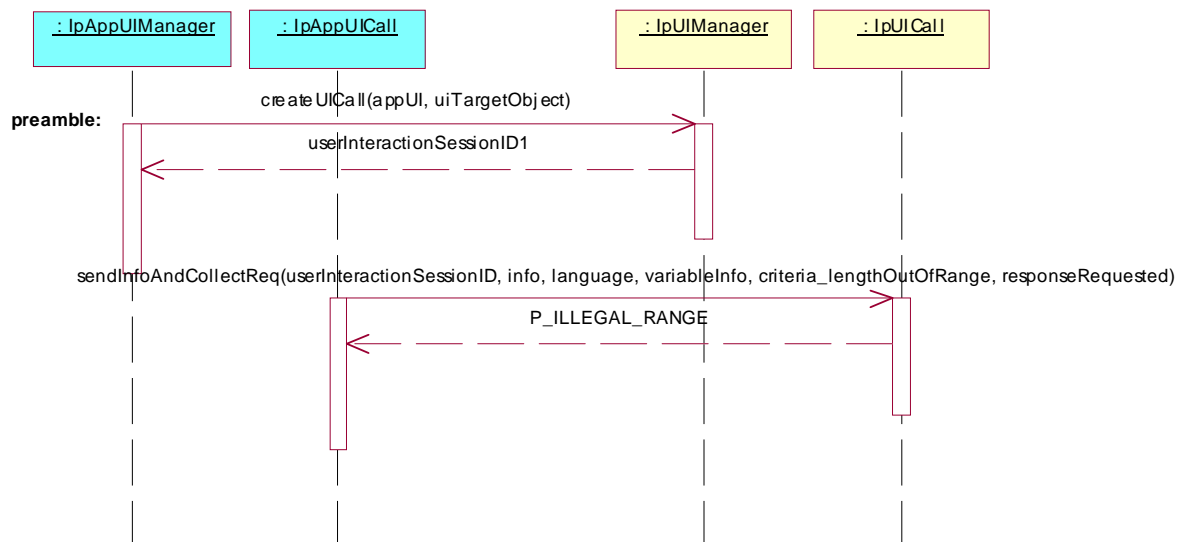
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UIC2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria with collection length out of range, responseRequested.

Check: P_ILLEGAL_RANGE is returned



Test UI_39

Summary: **IpUICall**, **sendInfoAndCollectReq** methods, **P_INVALID_COLLECTION_CRITERIA**

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

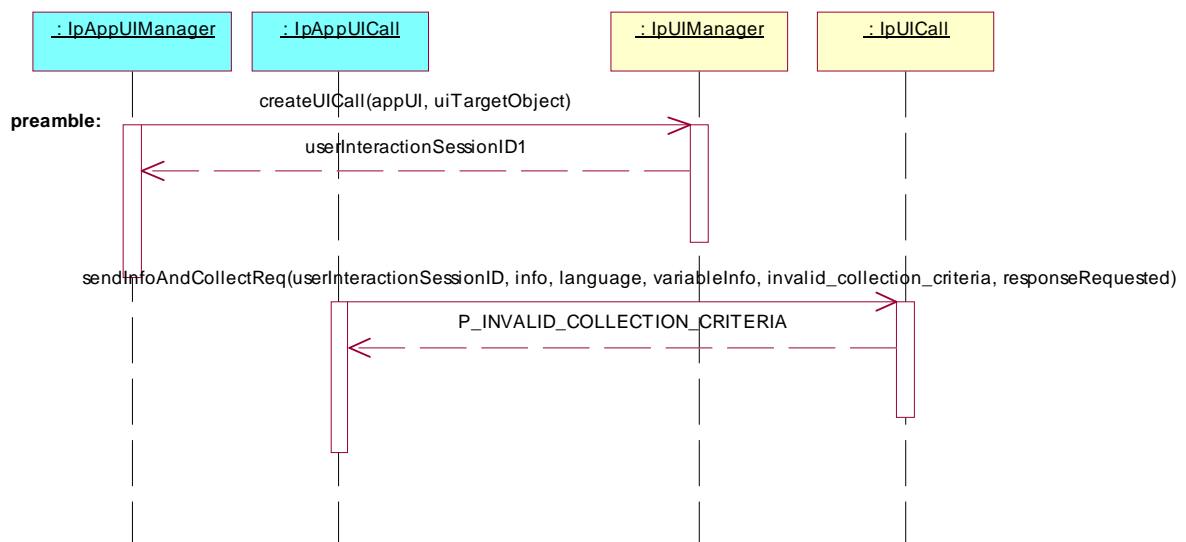
Selection: sendInfoAndCollectReq method supported - PICS item: [2] UIC2

Test Sequence:

1. Method call **sendInfoAndCollectReq()**

Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, invalid collection criteria, responseRequested.

Check: P_INVALID_COLLECTION_CRITERIA is returned



Test UI_40

Summary: **IpUICall**, recordMessageReq methods, P_INVALID_SESSION_ID

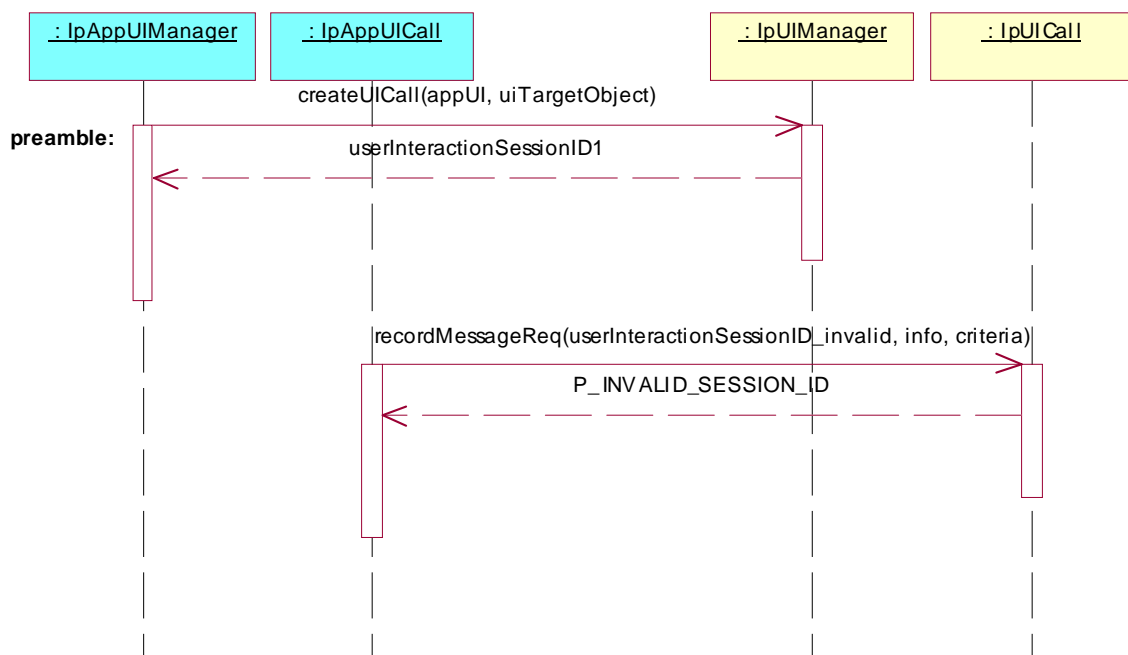
Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: recordMessageReq method supported - PICS item: [2] UIC4

Test Sequence:

1. Method call **recordMessageReq()**
 Parameters: invalid userInteractionSessionID, info, criteria,
 Check: P_INVALID_SESSION_ID is returned



Test UI_41

Summary: **IpUICall**, recordMessageReq methods, P_INVALID_NETWORK_STATE

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Condition: the underlying protocol cannot support the method call (e.g. incompatible Call state)

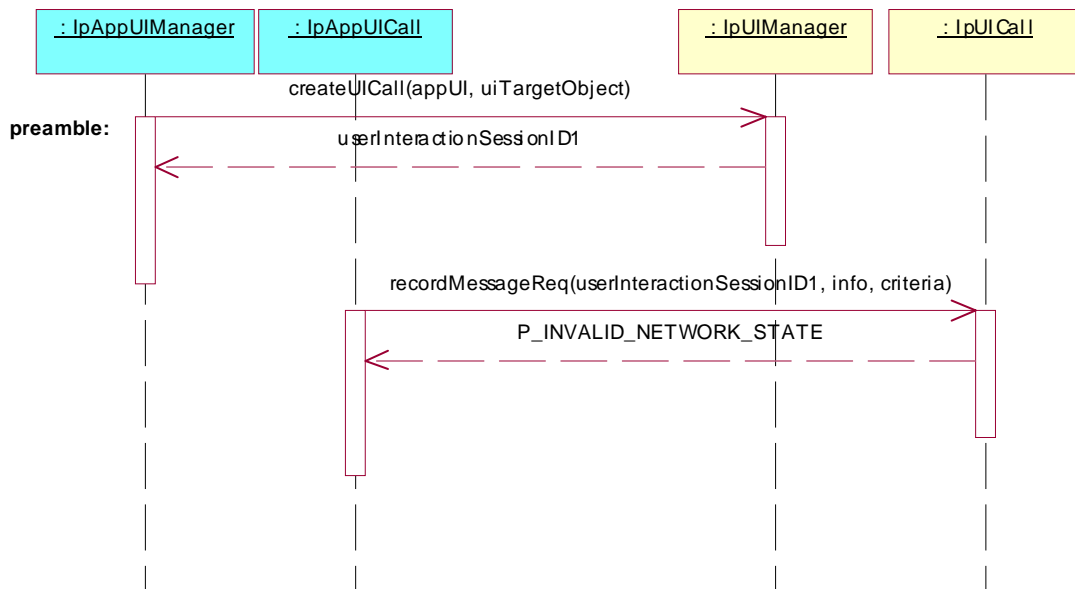
Selection: recordMessageReq method supported - PICS item: [2] UIC4

Test Sequence:

1. Method call **recordMessageReq()**

Parameters: userInteractionSessionID given in preamble, info, criteria,

Check: P_INVALID_NETWORK_STATE is returned



Test UI_42

Summary: **IpUICall**, recordMessageReq methods, P_ILLEGAL_ID

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

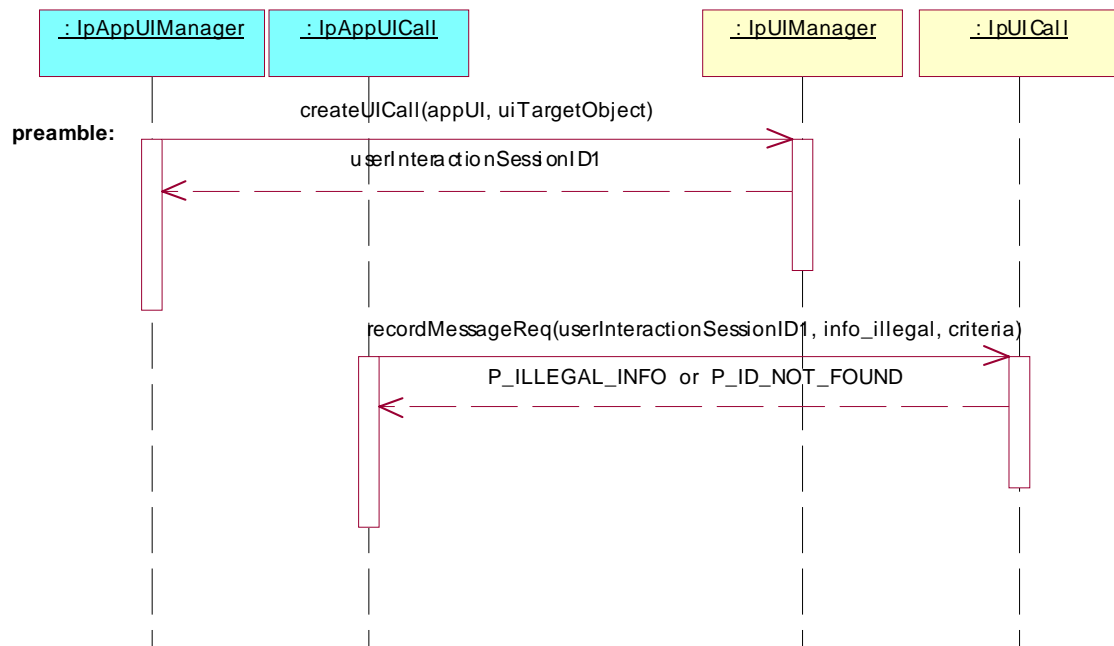
Selection: recordMessageReq method supported - PICS item: [2] UIC4

Test Sequence:

1. Method call **recordMessageReq()**

Parameters: userInteractionSessionID given in preamble, illegal info, criteria,

Check: P_ILLEGAL_ID or P_ID_NOT_FOUND is returned



Test UI_43

Summary: **IpUICall**, recordMessageReq methods, P_INVALID_CRITERIA

Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

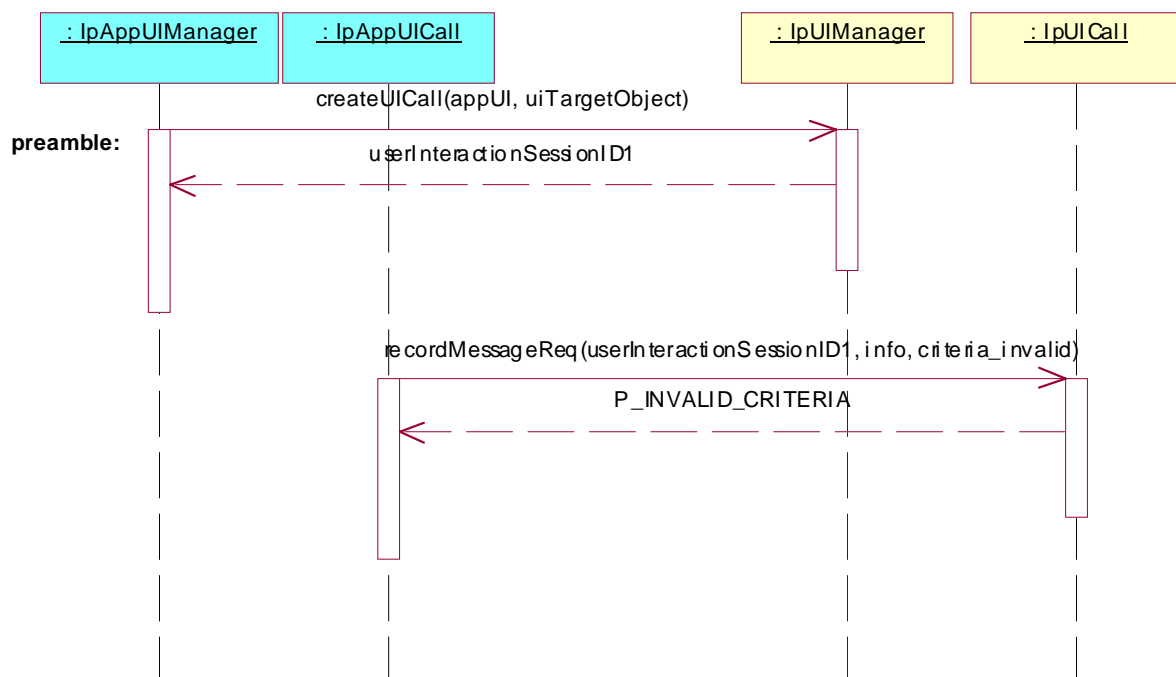
Selection: recordMessageReq method supported - PICS item: [2] UIC4

Test Sequence:

1. Method call **recordMessageReq()**

Parameters: userInteractionSessionID given in preamble, info, invalid criteria,

Check: P_INVALID_CRITERIA is returned



Test UI_44

Summary: **IpUICall**, deleteMessageReq, P_INVALID_SESSION_ID

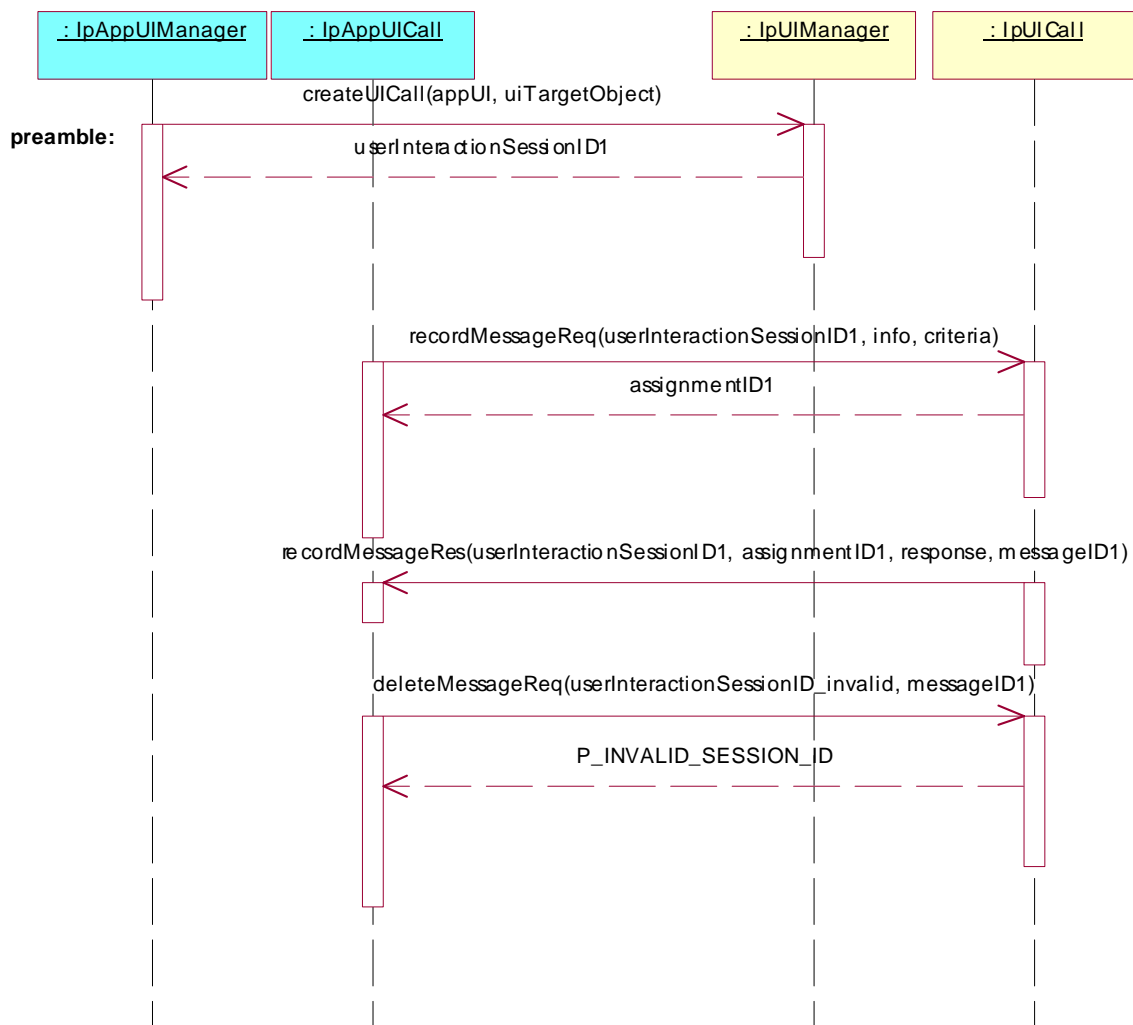
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: recordMessageReq and deleteMessageReq methods supported - PICS item: [2] UIC4 AND UIC5

Test Sequence:

1. Method call **recordMessageReq()**
 Parameters: userInteractionSessionID given in preamble, info, criteria.
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **recordMessageRes()** method on the tester's (Application) **IpAppUICall** interface.
 Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.), response and messageID is transmitted,
 Return: no parameter
3. Method call **deleteMessageReq()**
 Parameters: invalid userInteractionSessionID, messageID returned in 2.
 Check: P_INVALID_SESSION_ID is returned



Test UI_45

Summary: **IpUICall**, deleteMessageReq, P_ILLEGAL_ID

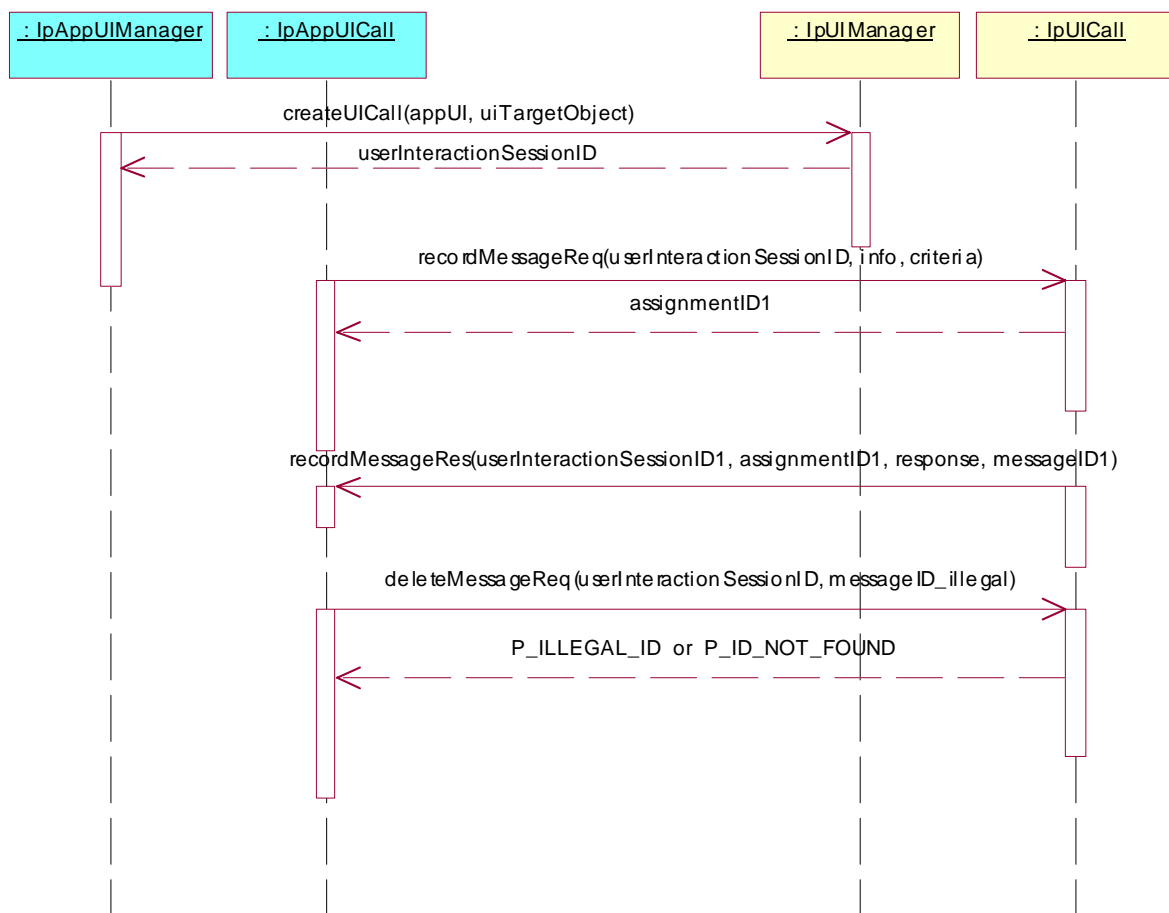
Reference: ES 202 915-5 [1], clauses 8.5 and 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: recordMessageReq and deleteMessageReq methods supported - PICS item: [2] UIC4 AND UIC5

Test Sequence:

1. Method call **recordMessageReq()**
 Parameters: userInteractionSessionID given in preamble, info, criteria.
 Check: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **recordMessageRes()** method on the tester's (Application) **IpAppUICall** interface.
 Check: valid value of userInteractionSessionID (given in preamble), assignmentID (given in 1.), response and messageID is transmitted,
 Return: no parameter
3. Method call **deleteMessageReq()**
 Parameters: userInteractionSessionID given in preamble, illegal messageID.
 Check: P_ILLEGAL_ID or P_ID_NOT_FOUND is returned



Test UI_46

Summary: **IpUICall**, abortActionReq method, P_INVALID_SESSION_ID

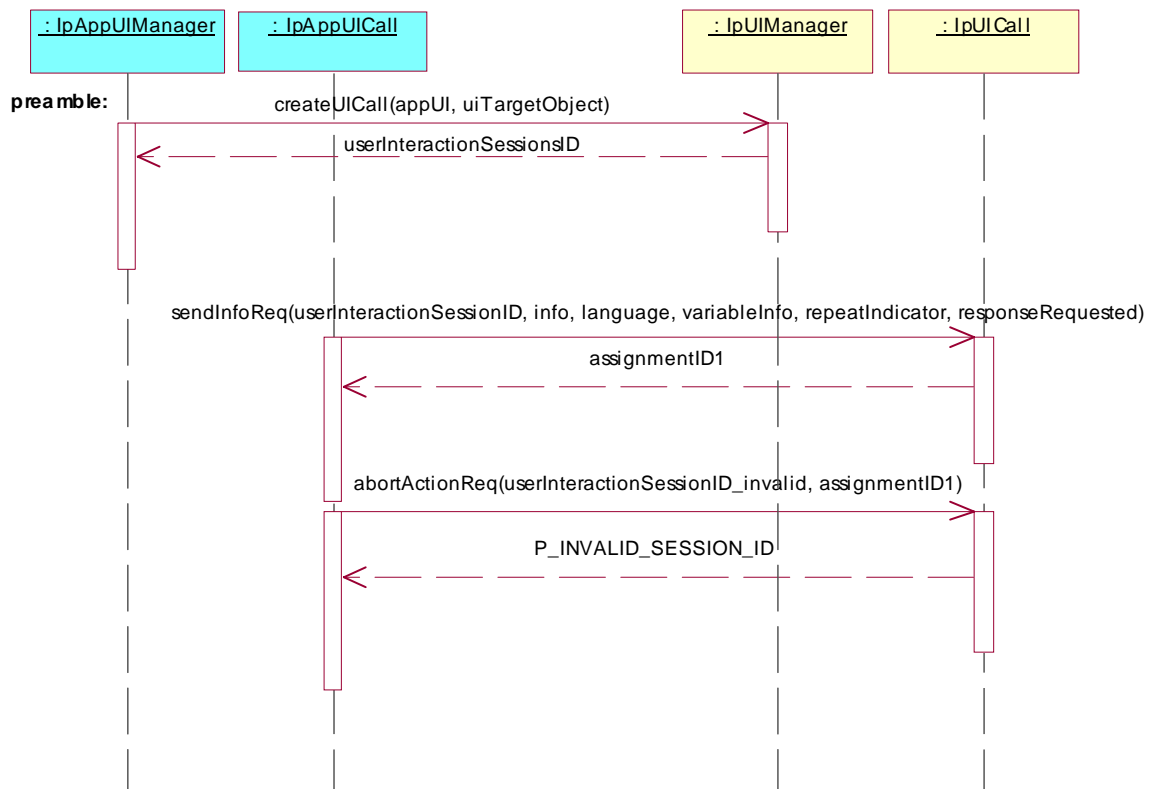
Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoReq and abortActionReq methods supported - PICS item: [2] UIC1 AND UIC6

Test Sequence:

1. Method call **sendInfoReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.
 Check: valid value of TpAssignmentID is returned
2. Method call **abortActionReq()**
 Parameters: invalid userInteractionSessionID, assignmentID returned in 1.
 Check: P_INVALID_SESSION_ID is returned.



Test UI_47

Summary: **IpUICall**, abortActionReq method, P_INVALID_ASSIGNMENT_ID

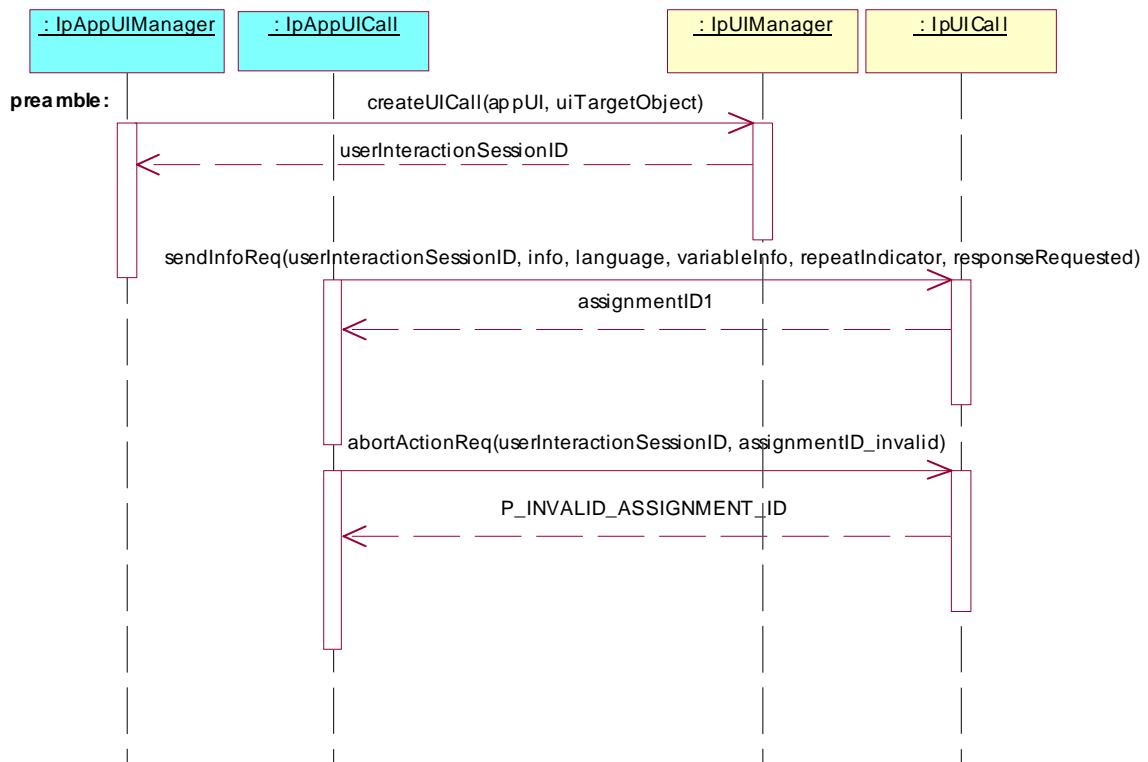
Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoReq and abortActionReq methods supported - PICS item: [2] UIC1 AND UIC6

Test Sequence:

- Method call **sendInfoReq()**
Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, repeatIndicator, responseRequested.
Check: valid value of TpAssignmentID is returned
- Method call **abortActionReq()**
Parameters: userInteractionSessionID given in preamble, invalid assignmentID.
Check: P_INVALID_ASSIGNMENT_ID is returned.



Test UI_48

Summary: **IpUICall**, abortActionReq method, P_INVALID_SESSION_ID

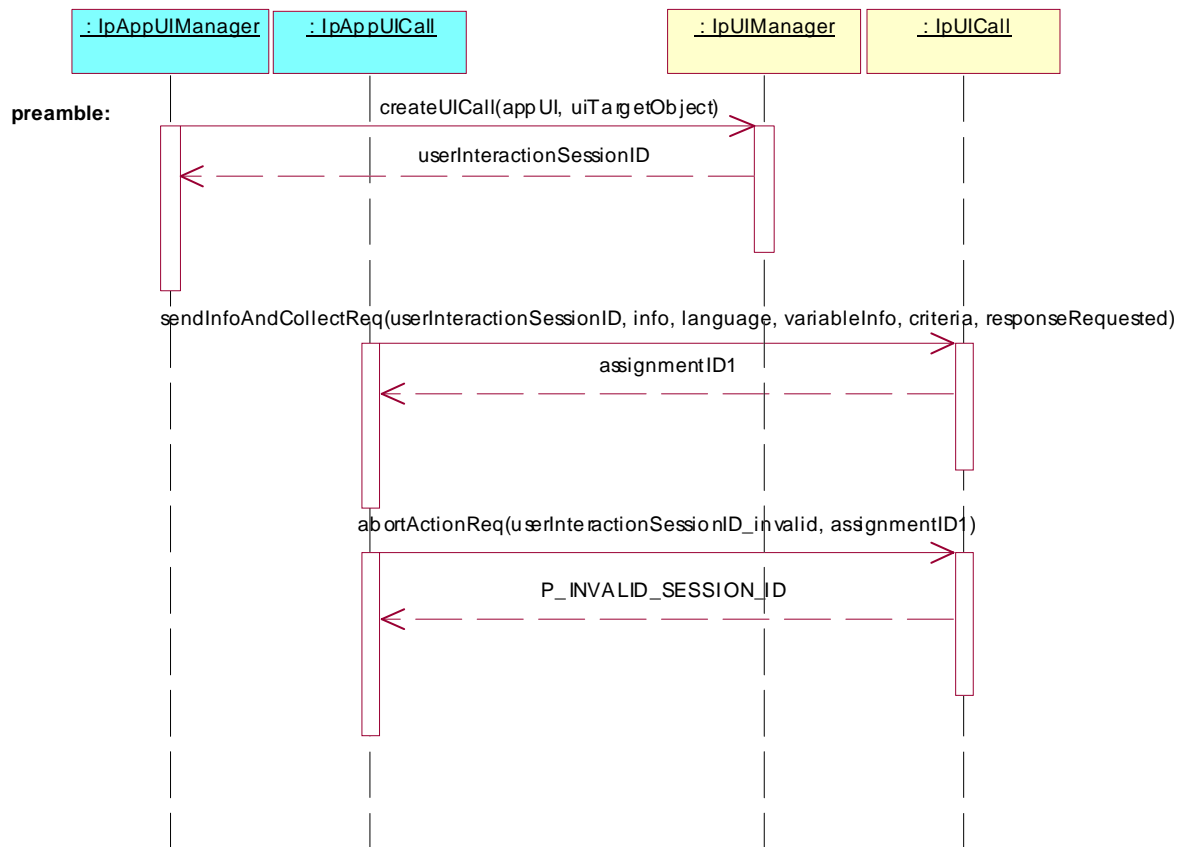
Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAndCollectReq and abortActionReq methods supported - PICS item: [2] UIC2 AND UIC6

Test Sequence:

1. Method call **sendInfoAndCollectReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.
 Check: valid value of TpAssignmentID is returned
2. Method call **abortActionReq()**
 Parameters: invalid userInteractionSessionID, assignmentID returned in 1.
 Check: P_INVALID_SESSION_ID is returned.



Test UI_49

Summary: **IpUICall**, abortActionReq method, P_INVALID_ASSIGNMENT_ID

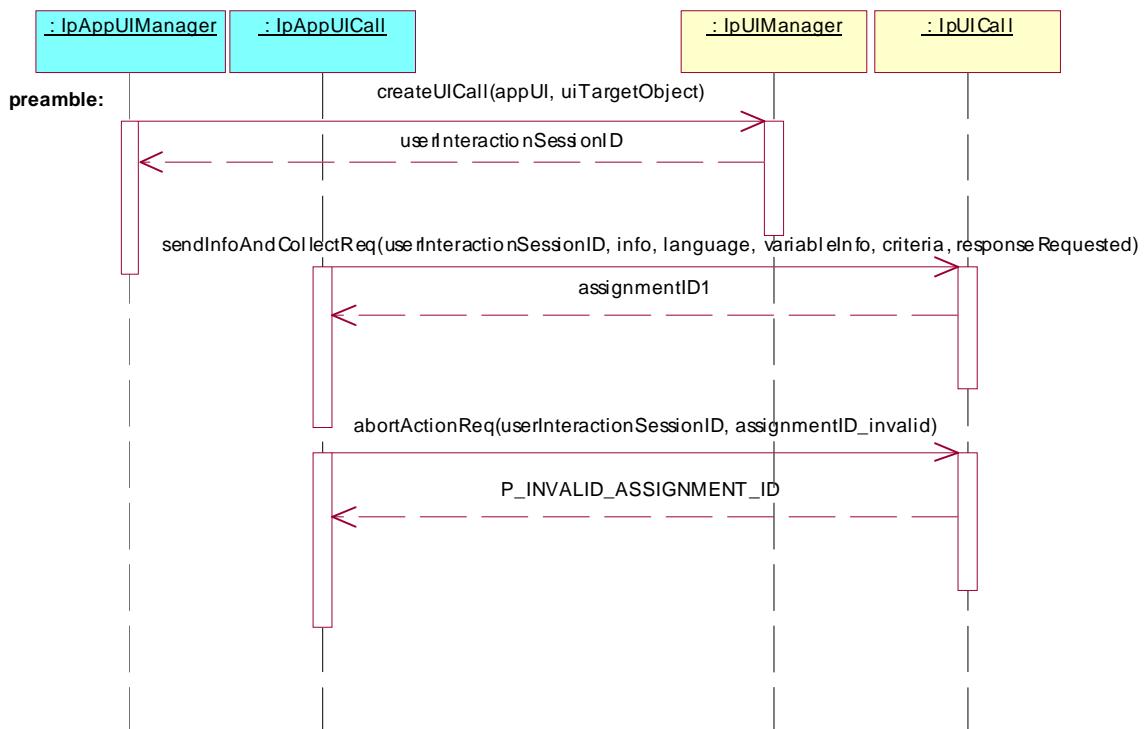
Reference: ES 202 915-5 [1], clause 8.5

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the IpUIManager interface or reported in a reportEventNotification method exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAndCollectReq and abortActionReq methods supported - PICS item: [2] UIC2 AND UIC6

Test Sequence:

1. Method call **sendInfoAndCollectReq()**
 Parameters: userInteractionSessionID given in preamble, info, language, variableInfo, criteria, responseRequested.
 Check: valid value of TpAssignmentID is returned
2. Method call **abortActionReq()**
 Parameters: userInteractionSessionID given in preamble, invalid assignmentID.
 Check: P_INVALID_ASSIGNMENT_ID is returned.



5.2.2 User Interaction, application side

In performing the tests for the application, it may be necessary to permit the application to perform any valid set of method exchanges with the tester in between the triggered actions or method calls indicated in the tests below. The tester shall respond to the application's method calls in conformance to the API specification and as required by the application. The requirements of the application should be made known to the tester's operator in advance.

5.2.2.1 IpAppUIManager interface

Test UI_APP_01

Summary: **IpAppUIManager**, userInteractionAborted

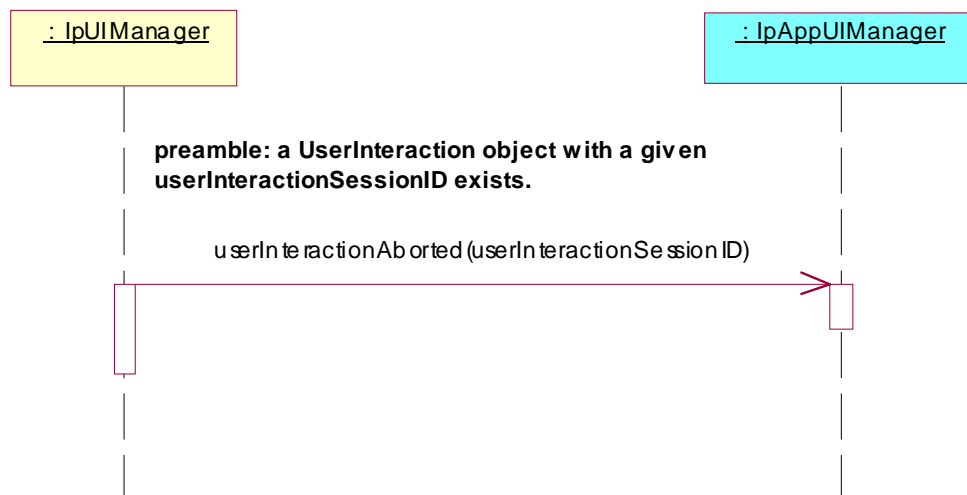
Reference: ES 202 915-5 [1], clause 8.2

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: userInteractionAborted method supported - PICS item: [2] AUIM1

Test Sequence:

1. Method call **userInteractionAborted()**
 Parameters: userInteractionSessionID as given in preamble.
 Check: no exception is returned



Test UI_APP_02

Summary: **IpAppUIManager**, userInteractionNotificationInterrupted

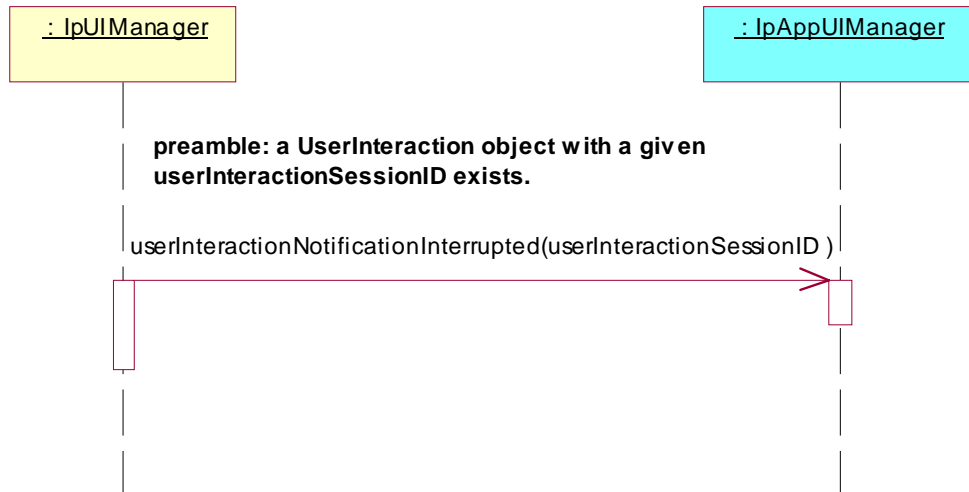
Reference: ES 202 915-5 [1], clause 8.2

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists.

Selection: userInteractionNotificationInterrupted method supported - PICS item: [2] AUIM2

Test Sequence:

1. Method call **userInteractionNotificationInterrupted ()**
 Parameters: none.
 Check: no exception is returned



Test UI_APP_03

Summary: **IpAppUIManager**, `userInteractionNotificationContinued`

Reference: ES 202 915-5 [1], clause 8.2

Preamble: A User Interaction object, created either with the `createUI` or the `createUICall` method on the corresponding `IpUIManager` interface or reported in a `reportEventNotification` method, exists.

Selection: `userInteractionNotificationContinued` method supported - PICS item: [2] AUIM3

Test Sequence:

1. Method call **`userInteractionNotificationContinued ()`**
 Parameters: none.
 Check: no exception is returned



Test AM_APP_20

Summary: **IpAppUIManager** all methods, successful

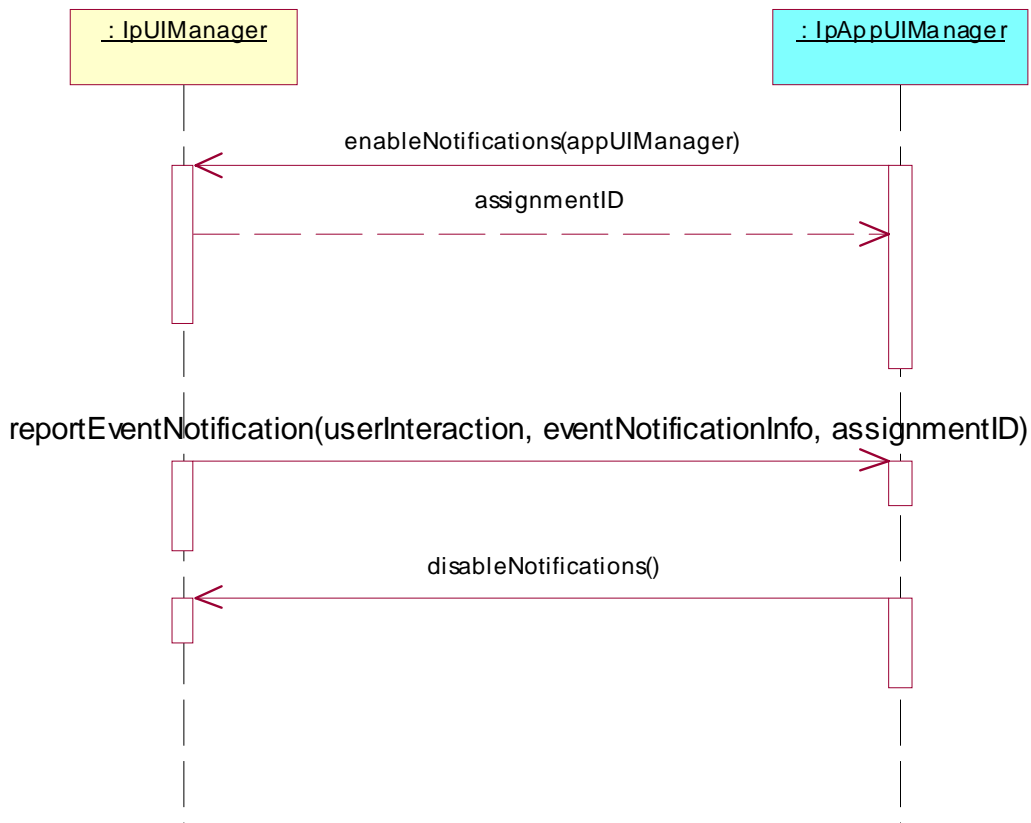
Reference: ES 202 915-5 [1], clause 8.2

Precondition: reportEventNotification supported

Preamble: Registration of the IUT (application) and the tester (User Interaction SCF) to the framework. The tester must have obtained a reference to an instance of the IpAppAccountManager interface through selecting that service and signing the required service agreement.

Test Sequence:

1. Triggered action: cause IUT to call **enableNotifications ()** method on the tester's (SCF) **IpUIManager** interface.
Parameters: appAccountManager
2. Method call **reportEventNotification ()**
Parameters: userInteraction, eventNotificationInfo, assignmentID
Check: no exception is returned
3. Triggered action: cause IUT to call **disableNotifications ()** method on the tester's (SCF) **IpUIManager** interface.
Parameters: none



5.2.2.2 IpAppUI interface

Test UI_APP_04

Summary: **IpAppUI**, sendInfoRes

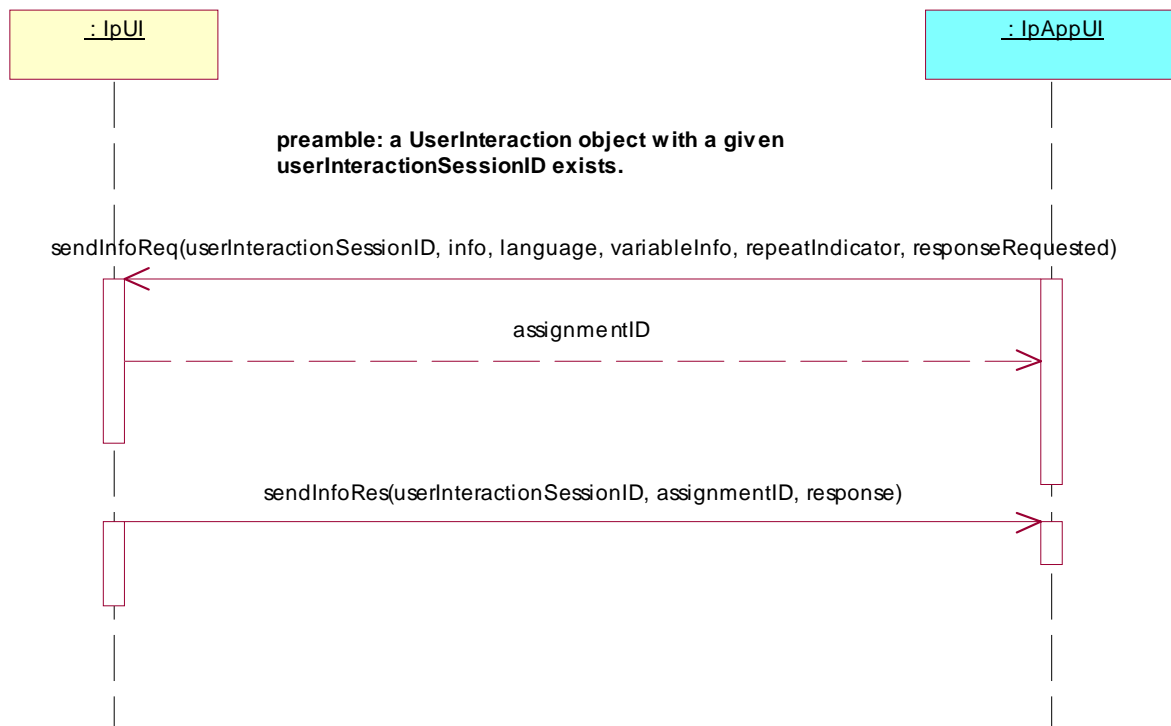
Reference: ES 202 915-5 [1], clause 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoRes method supported - PICS item: [2] AUI1

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoReq()** method on the tester's (SCF) **IpUI** interface.
 Check: valid value of userInteraction, info, language, variableInfo, repeatIndicator and responseRequested is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **sendInfoRes()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. and response is transmitted.
 Check: no exception is returned



Test UI_APP_05

Summary: **IpAppUI**, sendInfoErr

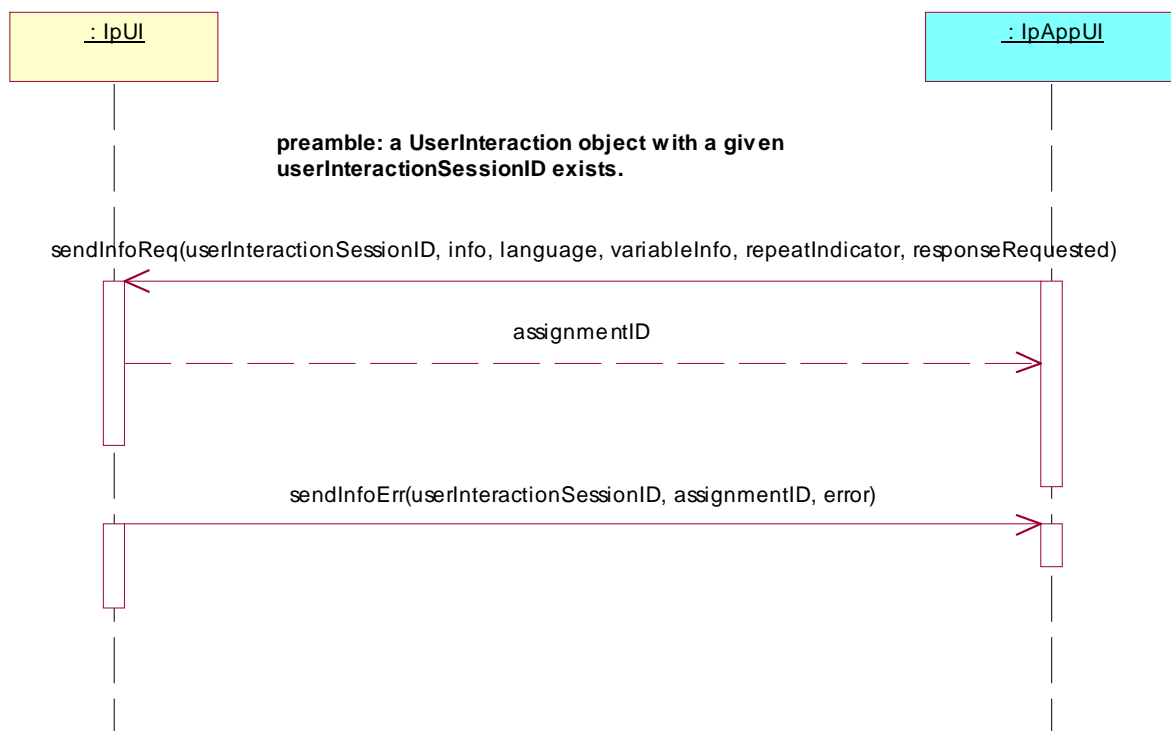
Reference: ES 202 915-5 [1], clause 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionId is used in the following methods to identify this User Interaction object.

Selection: sendInfoErr method supported - PICS item: [2] AUI2

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoReq()** method on the tester's (SCF) **IpUI** interface.
 Check: valid value of userInteraction, info, language, variableInfo, repeatIndicator and responseRequested is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **sendInfoErr()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. and error is transmitted.
 Check: no exception is returned



Test UI_APP_06

Summary: **IpAppUI**, sendInfoAndCollectRes

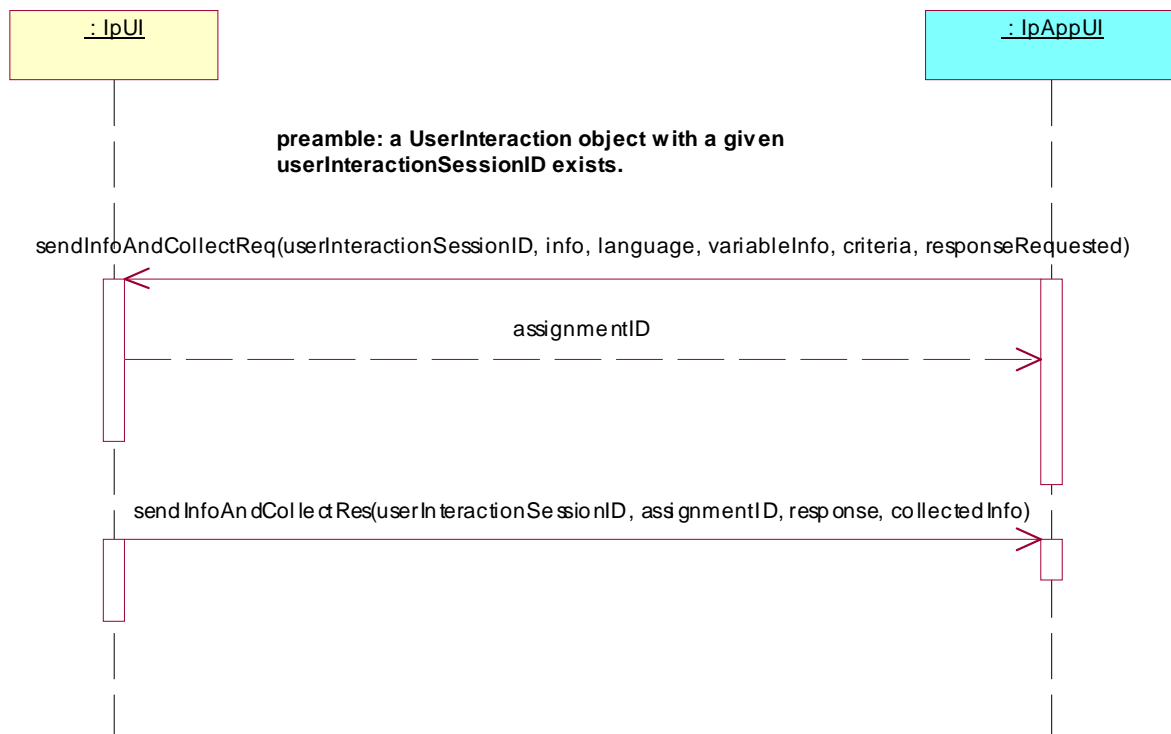
Reference: ES 202 915-5 [1], clause 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAnd CollectRes method supported - PICS item: [2] AUI3

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoAndCollectReq()** method on the tester's (SCF) **IpUI** interface.
 Check: valid value of userInteraction, info, language, variableInfo, criteria and responseRequested is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **sendInfoAndCollectRes()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. response and collectedInfo is transmitted.
 Check: no exception is returned



Test UI_APP_07

Summary: **IpAppUI**, sendInfoAndCollectErr

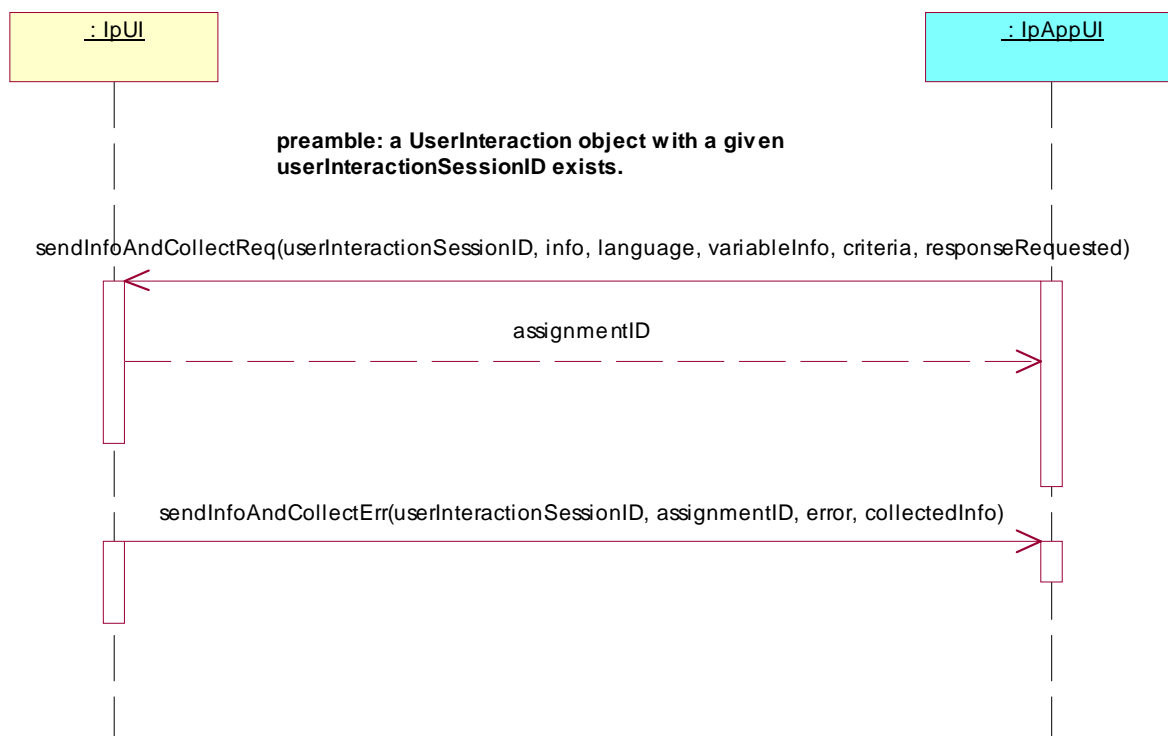
Reference: ES 202 915-5 [1], clause 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAndCollectErr method supported - PICS item: [2] AUI4

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoAndCollectReq()** method on the tester's (SCF) **IpUI** interface.
 Check: valid value of userInteraction, info, language, variableInfo, criteria and responseRequested is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **sendInfoAndCollectErr()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. error and collectedInfo is transmitted.
 Check: no exception is returned



Test UI_APP_08

Summary: **IpAppUI**, userInteractionFaultDetected

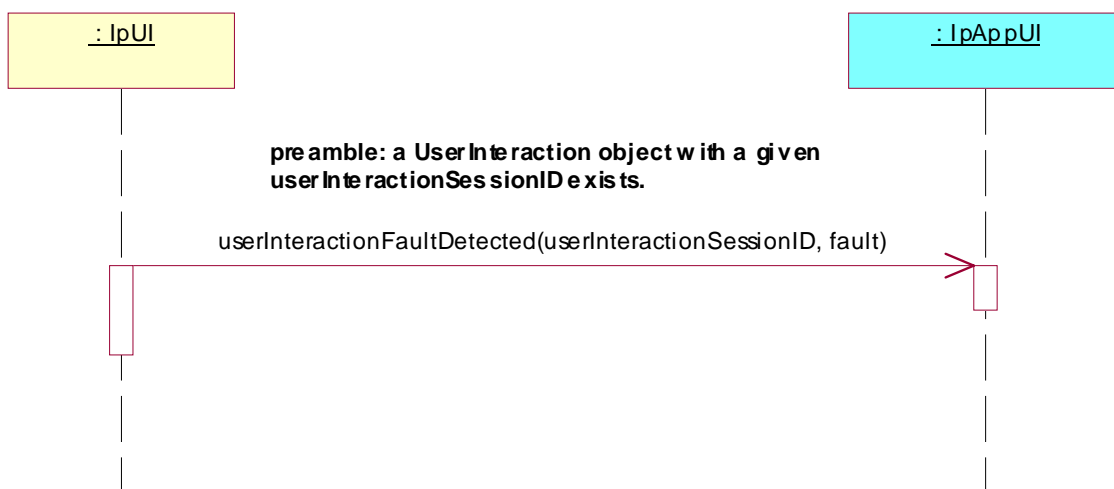
Reference: ES 202 915-5 [1], clause 8.4

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: userInteractionFaultDetected method supported - PICS item: [2] AUI5

Test Sequence:

1. Method call **userInteractionFaultDetected()**
 Parameters: userInteractionSessionID as given in preamble and fault is transmitted.
 Check: no exception is returned

**5.2.2.3 IpAppUICall interface****Test UI_APP_09**

Summary: **IpAppUICall**, sendInfoRes

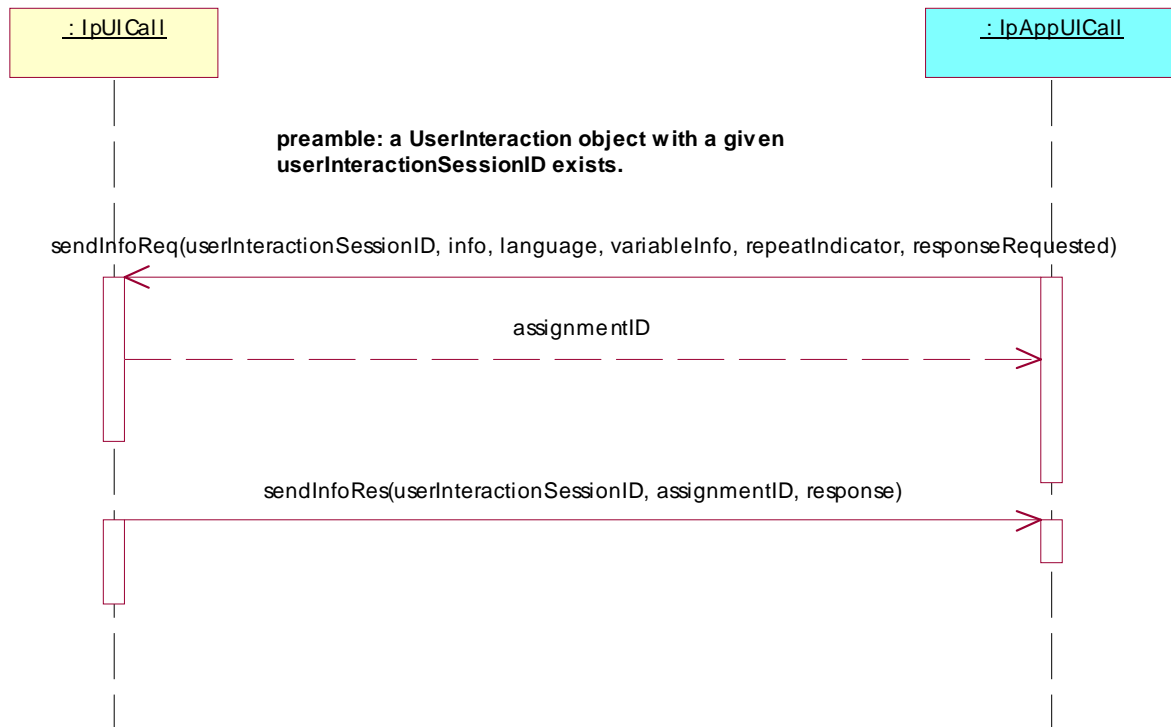
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoRes method supported - PICS item: [2] AUI C1

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, info, language, variableInfo, repeatIndicator and responseRequested is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **sendInfoRes()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. and response is transmitted.
 Check: no exception is returned



Test UI_APP_10

Summary: **IpAppUICall**, **sendInfoErr**

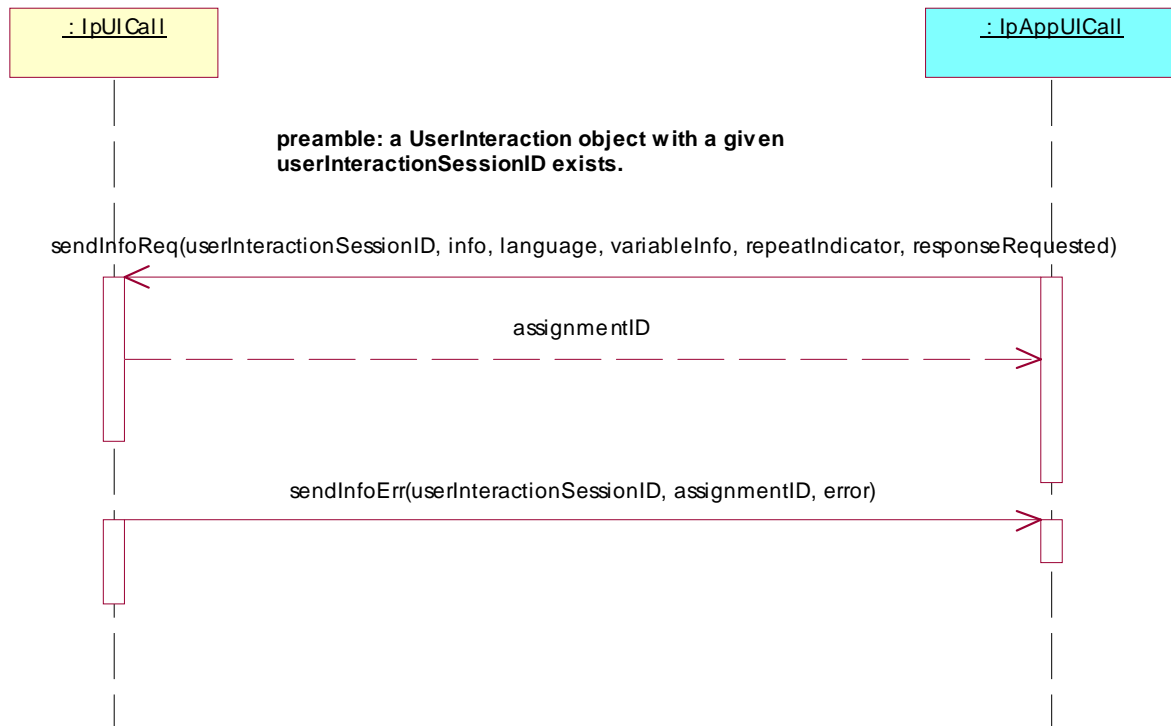
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the **createUI** or the **createUICall** method on the corresponding **IpUIManager** interface or reported in a **reportEventNotification** method, exists. The given **sessionID** is used in the following methods to identify this User Interaction object.

Selection: **sendInfoErr** method supported - PICS item: [2] AUC2

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of **userInteraction**, **info**, **language**, **variableInfo**, **repeatIndicator** and **responseRequested** is transmitted,
 Return: valid value of **TpAssignmentID** is returned
2. Method call **sendInfoErr()**
 Parameters: **userInteractionSessionID** as given in preamble, **assignmentID** as given in 1. and error is transmitted.
 Check: no exception is returned



Test UI_APP_11

Summary: **IpAppUICall**, sendInfoAndCollectRes

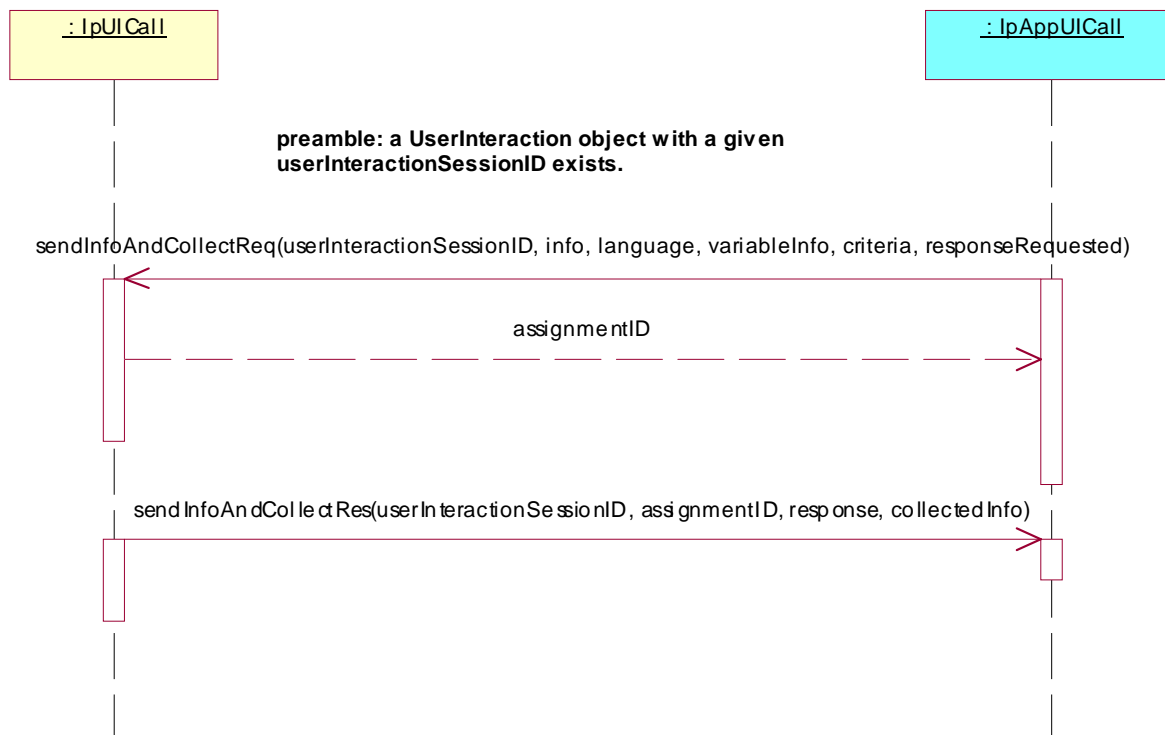
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: sendInfoAnd CollectRes method supported - PICS item: [2] AUC3

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoAndCollectReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, info, language, variableInfo, criteria and responseRequested is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **sendInfoAndCollectRes()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. response and collectedInfo is transmitted.
 Check: no exception is returned



Test UI_APP_12

Summary: **IpAppUICall**, **sendInfoAndCollectErr**

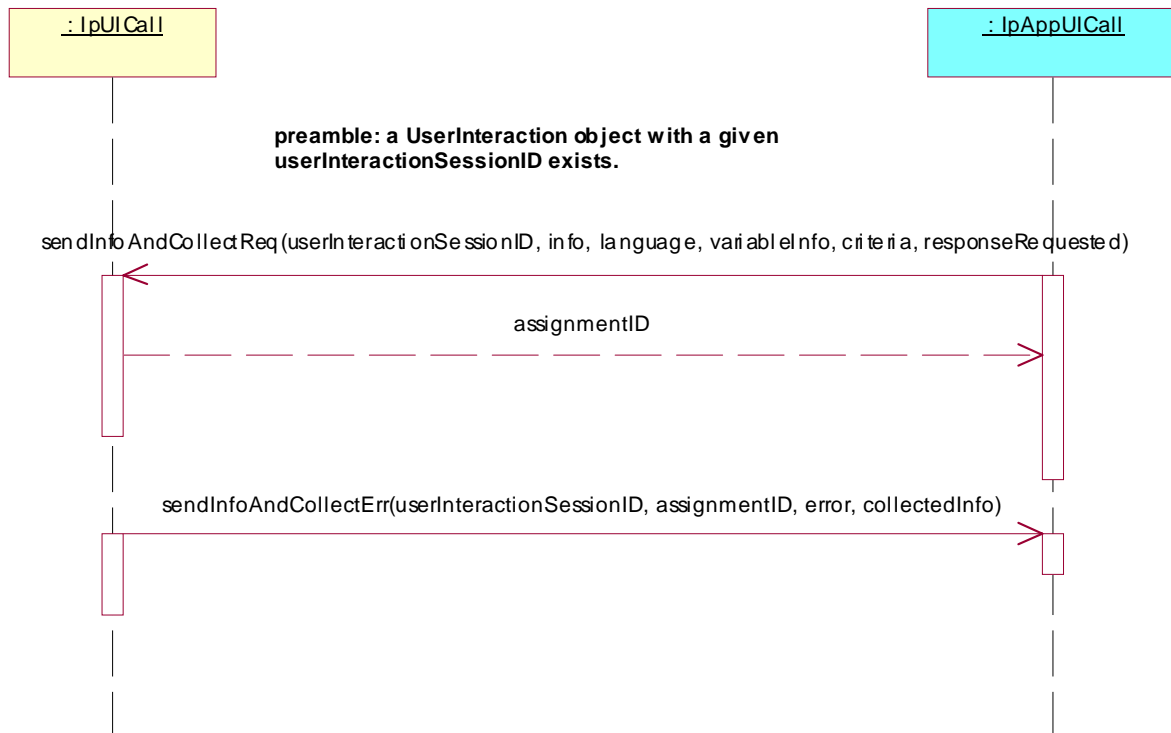
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the **createUI** or the **createUICall** method on the corresponding **IpUIManager** interface or reported in a **reportEventNotification** method, exists. The given **sessionID** is used in the following methods to identify this User Interaction object.

Selection: **sendInfoAndCollectErr** method supported - PICS item: [2] AUC4

Test Sequence:

1. Triggered action: cause IUT to call **sendInfoAndCollectReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of **userInteraction**, **info**, **language**, **variableInfo**, **criteria** and **responseRequested** is transmitted,
 Return: valid value of **TpAssignmentID** is returned
2. Method call **sendInfoAndCollectErr()**
 Parameters: **userInteractionSessionID** as given in preamble, **assignmentID** as given in 1. error and **collectedInfo** is transmitted.
 Check: no exception is returned



Test UI_APP_13

Summary: **IpAppUICall**, userInteractionFaultDetected

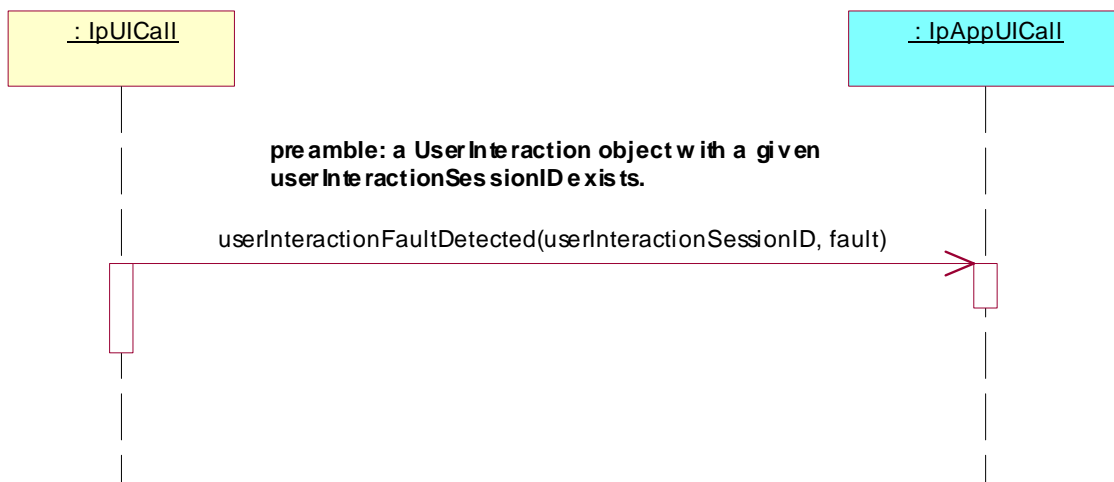
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: userInteractionFaultDetected method supported - PICS item: [2] AUC5

Test Sequence:

1. Method call **userInteractionFaultDetected()**
 Parameters: userInteractionSessionID as given in preamble and fault is transmitted.
 Check: no exception is returned



Test UI_APP_14

Summary: **IpAppUICall**, recordMessageRes

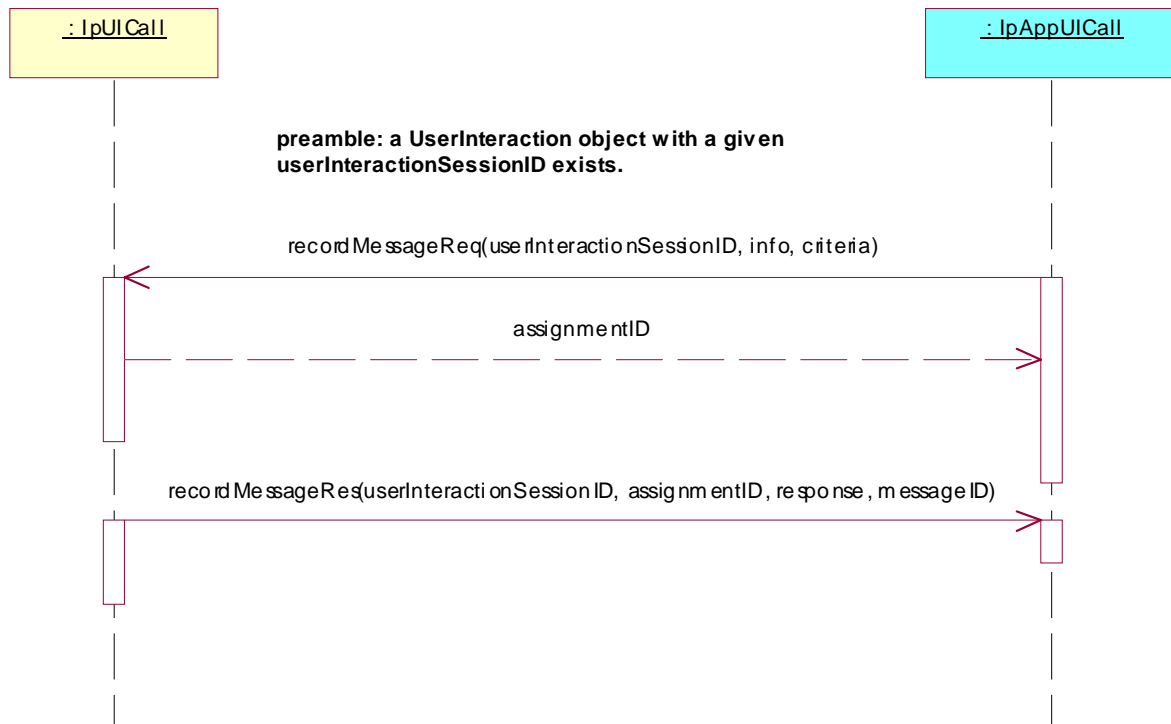
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: recordMessageRes method supported - PICS item: [2] AUIC6

Test Sequence:

1. Triggered action: cause IUT to call **recordMessageReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, info and criteria is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **recordMessageRes()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1, response and messageID is transmitted.
 Check: no exception is returned



Test UI_APP_15

Summary: **IpAppUICall**, recordMessageErr

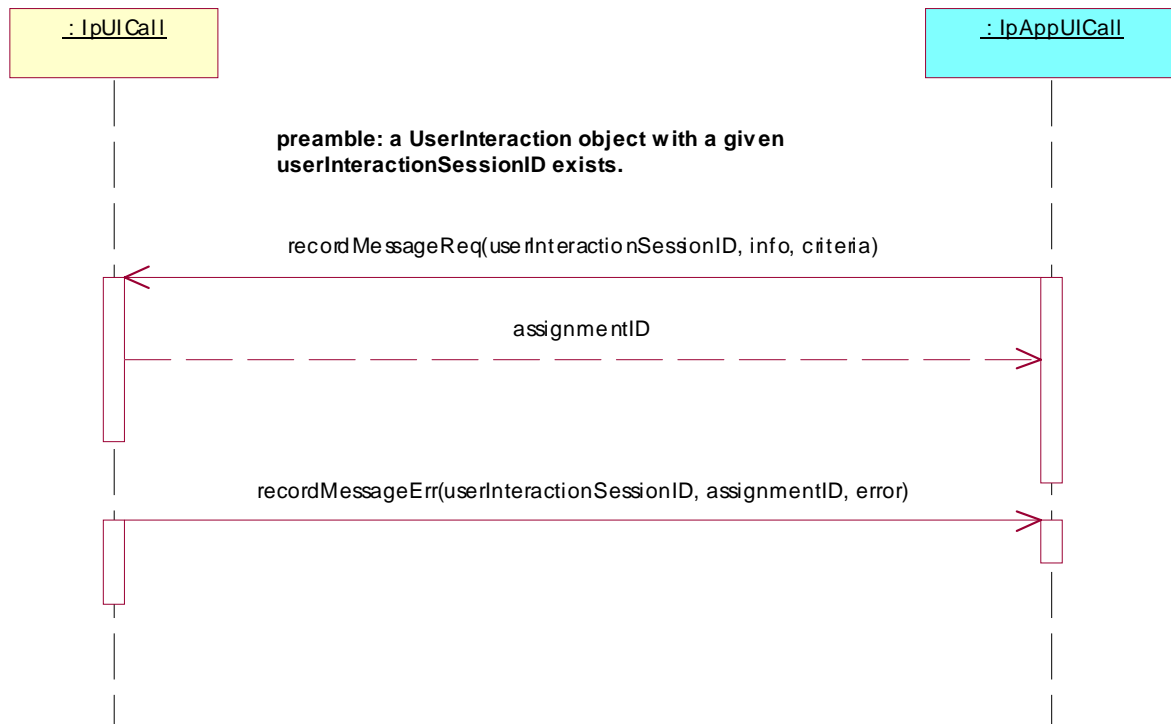
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: recordMessageErr method supported - PICS item: [2] AUC7

Test Sequence:

1. Triggered action: cause IUT to call **recordMessageReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, info and criteria is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **recordMessageErr()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1, and error is transmitted.
 Check: no exception is returned



Test UI_APP_16

Summary: **IpAppUICall**, deleteMessageRes

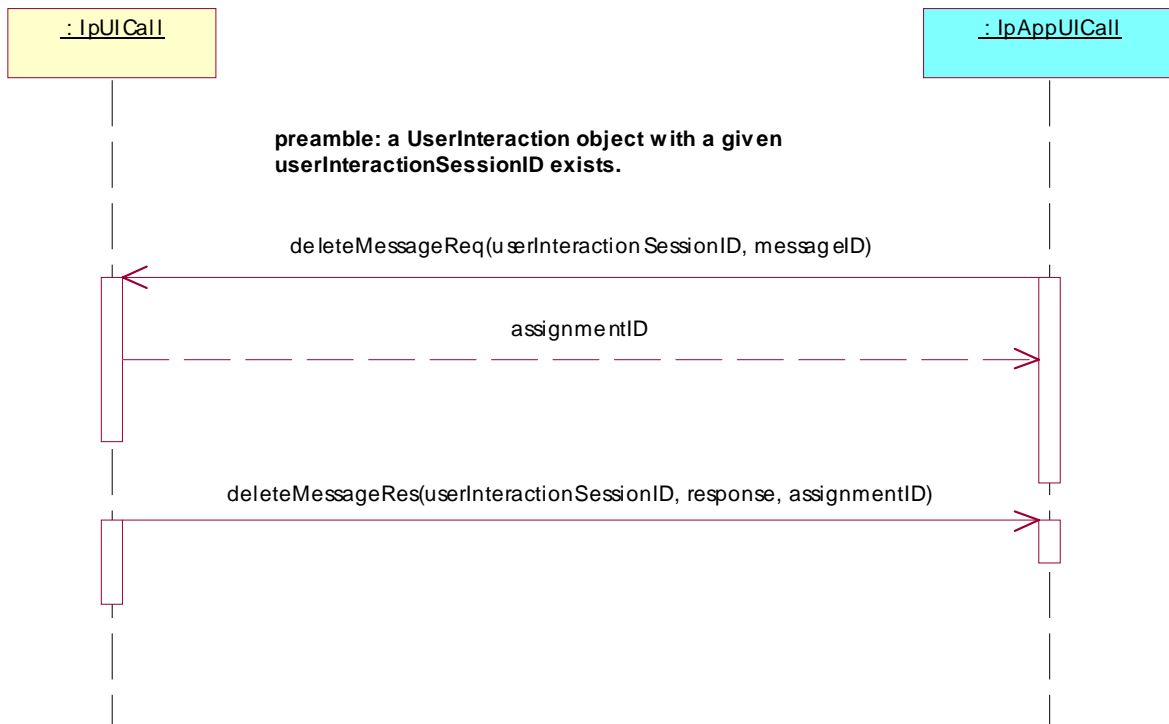
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: deleteMessageRes method supported - PICS item: [2] AUC8

Test Sequence:

1. Triggered action: cause IUT to call **deleteMessageReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction and messageID is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **deleteMessageRes()**
 Parameters: userInteractionSessionID as given in preamble, response and assignmentID as given in 1. is transmitted.
 Check: no exception is returned



Test UI_APP_17

Summary: **IpAppUICall**, deleteMessageErr

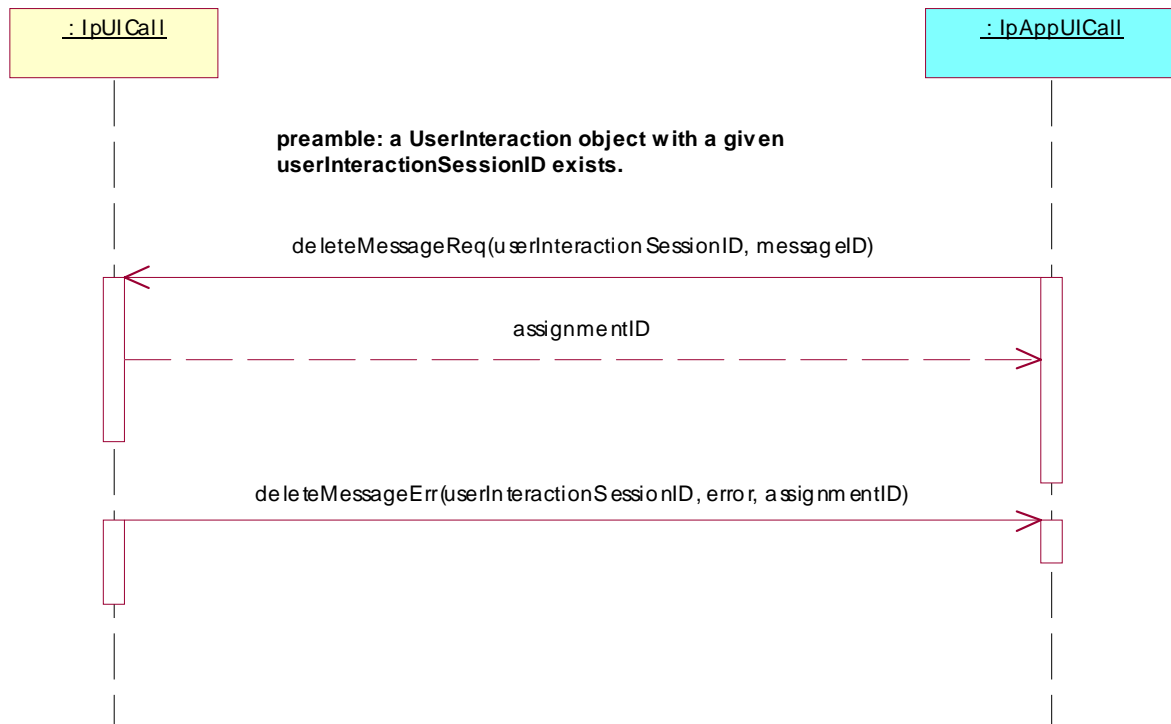
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: deleteMessageErr method supported - PICS item: [2] AUC9

Test Sequence:

1. Triggered action: cause IUT to call **deleteMessageReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction and messageID is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Method call **deleteMessageErr()**
 Parameters: userInteractionSessionID as given in preamble, error and assignmentID as given in 1. is transmitted.
 Check: no exception is returned



Test UI_APP_18

Summary: **IpAppUICall**, abortActionRes

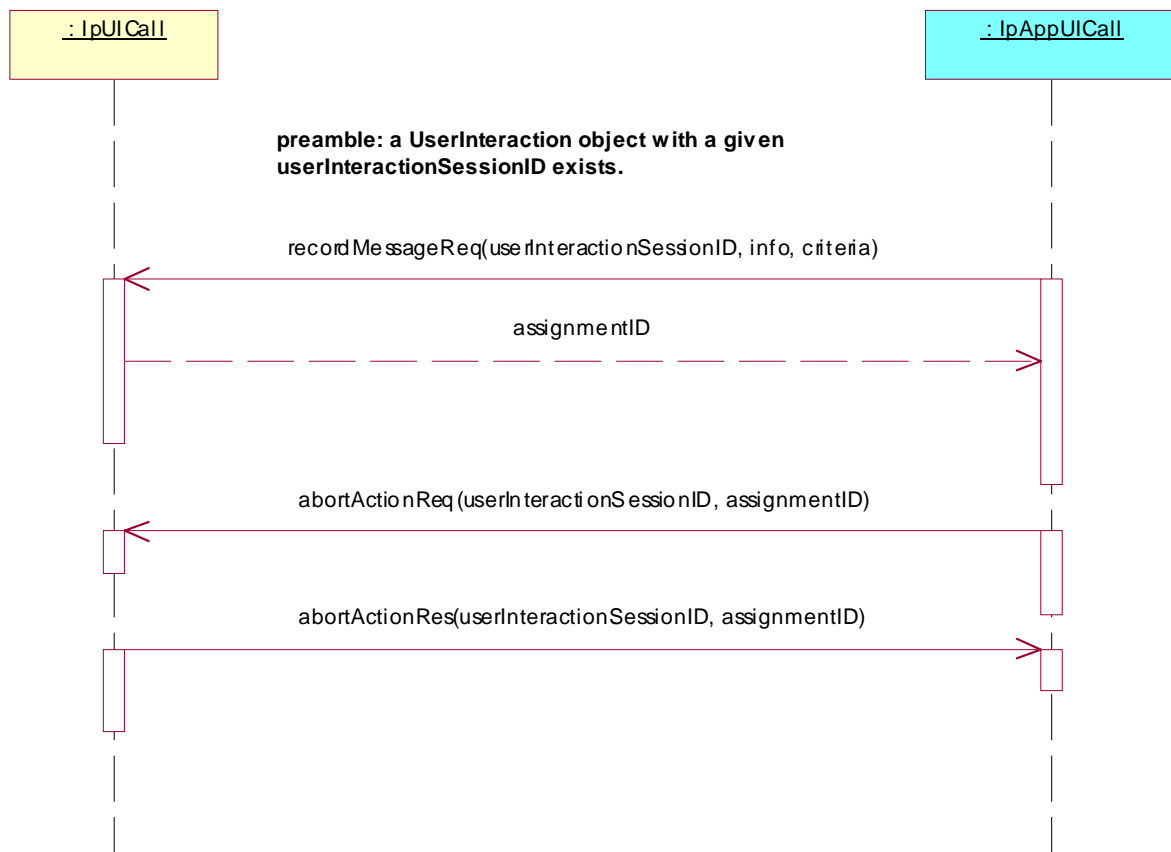
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: abortActionRes method supported - PICS item: [2] AUIC10

Test Sequence:

1. Triggered action: cause IUT to call **recordMessageReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, info and criteria is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **abortActionReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, and assignmentID as given in 1. is transmitted,
 Return: no exception is returned
3. Method call **abortActionRes()**
 Parameters: userInteractionSessionID as given in preamble, and assignmentID as given in 1. is transmitted.
 Check: no exception is returned



Test UI_APP_19

Summary: **IpAppUICall**, abortActionErr

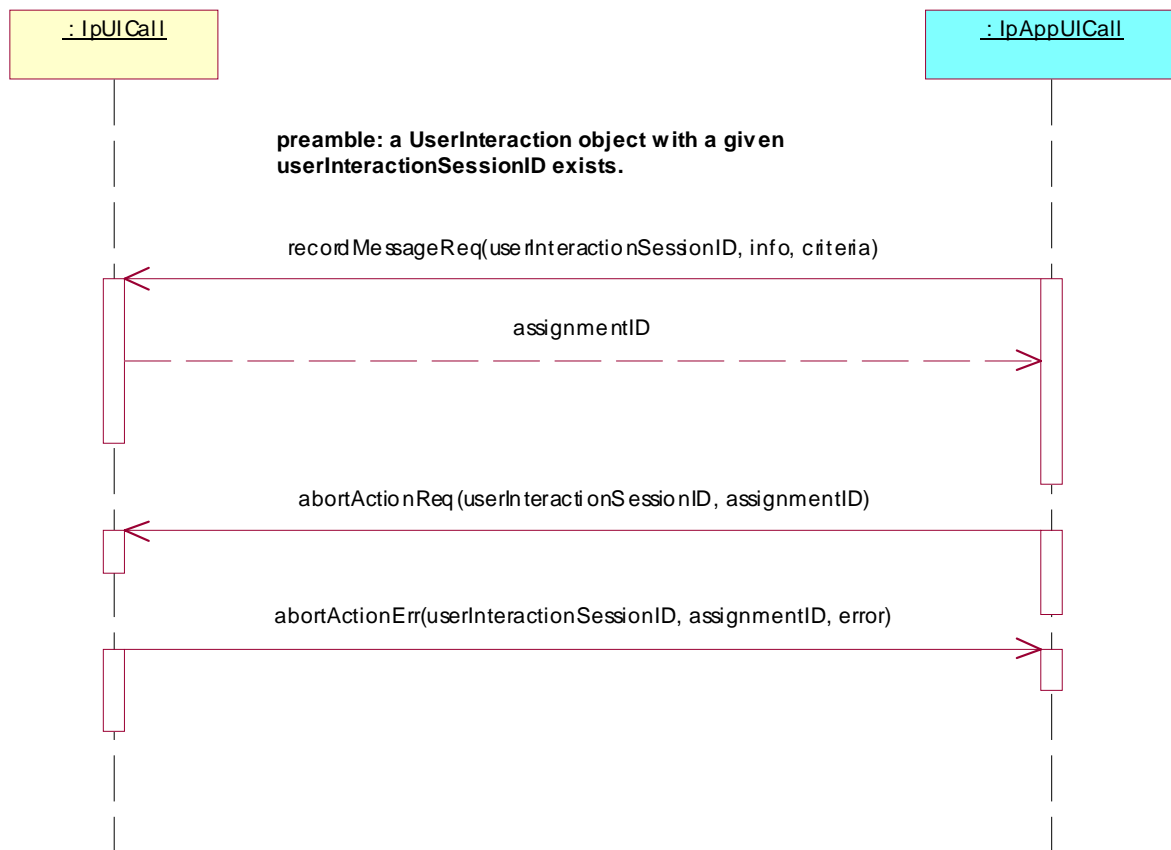
Reference: ES 202 915-5 [1], clause 8.6

Preamble: A User Interaction object, created either with the createUI or the createUICall method on the corresponding IpUIManager interface or reported in a reportEventNotification method, exists. The given sessionID is used in the following methods to identify this User Interaction object.

Selection: abortActionErr method supported - PICS item: [2] AUIC10

Test Sequence:

1. Triggered action: cause IUT to call **recordMessageReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, info and criteria is transmitted,
 Return: valid value of TpAssignmentID is returned
2. Triggered action: cause IUT to call **abortActionReq()** method on the tester's (SCF) **IpUICall** interface.
 Check: valid value of userInteraction, and assignmentID as given in 1. is transmitted,
 Return: no exception is returned
3. Method call **abortActionErr()**
 Parameters: userInteractionSessionID as given in preamble, assignmentID as given in 1. and error is transmitted.
 Check: no exception is returned



History

Document history		
V1.1.1	January 2005	Membership Approval Procedure MV 20050311: 2005-01-11 to 2005-03-11