

**Open Service Access (OSA);
Application Programming Interface (API);
Test Suite Structure and Test Purposes (TSS&TP);
Part 11: Account management SCF
(Parlay 3)**



Reference

RES/TISPAN-06005-11-OSA

Keywords

API, OSA, TSS&TP

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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).

The present document is part 11 of a multi-part deliverable covering Open Service Access (OSA); Application Programming Interface (API); Test Suite Structure and Test Purposes (TSS&TP) for Parlay 3, as identified below:

- Part 1: "Overview";
- Part 2: "Common data definitions";
- Part 3: "Framework";
- Part 4: "Call control SCF";
- Part 5: "User interactions SCF";
- Part 6: "Mobility SCF";
- Part 7: "Terminal capabilities SCF";
- Part 8: "Data session control SCF";
- Part 9: "Generic messaging SCF";
- Part 10: "Connectivity manager SCF";
- Part 11: "Account management SCF";**
- Part 12: "Charging SCF".

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 Account Management SCF of the Application Programming Interface (API) for Open Service Access (OSA) defined in ES 201 915-11 [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 201 915-11: "Open Service Access (OSA); Application Programming Interface (API); Part 11: Account Management SCF (Parlay 3)".
- [2] ETSI ES 202 170: "Open Service Access (OSA); Application Programming Interface (API); Implementation Conformance Statement (ICS) proforma specification (Parlay 3)".
- [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".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in ES 201 915-11 [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].

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

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

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

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

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

Lower Tester (LT): 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:

AM	Account Management
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
TP	Test Purpose
TSS	Test Suite Structure

4 Test Suite Structure (TSS)

- Account Management.

5 Test Purposes (TP)

5.1 Introduction

For each test requirement a TP is defined.

5.1.1 TP naming convention

Ts 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: "AM" for Account Management part of Account Management SCF
<group>	= group number: two character field representing the group reference according to TSS
<nn>	= sequential number: (01 to 99)

5.1.2 Source of TP definition

The TPs are based on ES 201 915-11 [1].

5.1.3 Test strategy

As the base standard ES 201 915-11 [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 Account Management 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 Account Management

Test AM_01

Summary: **IpAccountManager** all methods, successful

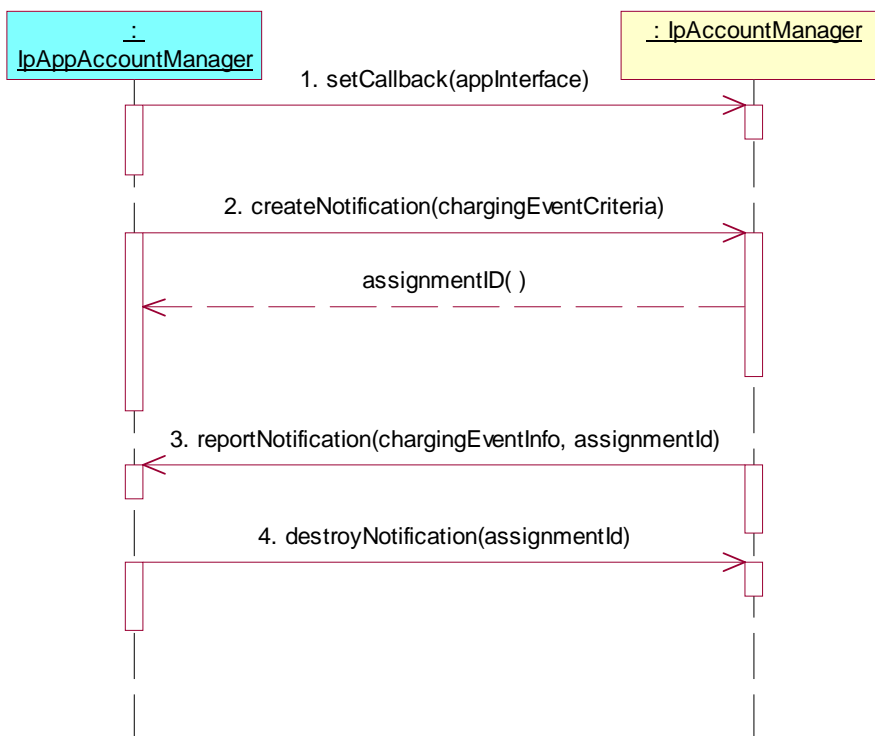
Reference: ES 201 915-11 [1], clause 8.1

Precondition: createNotification and destroyNotification supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **createNotification()**
Parameters: chargingEventCriteria
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call **reportNotification()** method on the tester's (Application) **IpAppAccountManager** interface.
Parameters: chargingEventInfo, assignmentId
4. Method call **destroyNotification()**
Parameters: assignmentID given in 2.
Check: no exception is returned



Test AM_02

Summary: **IpAccountManager** all methods, successful

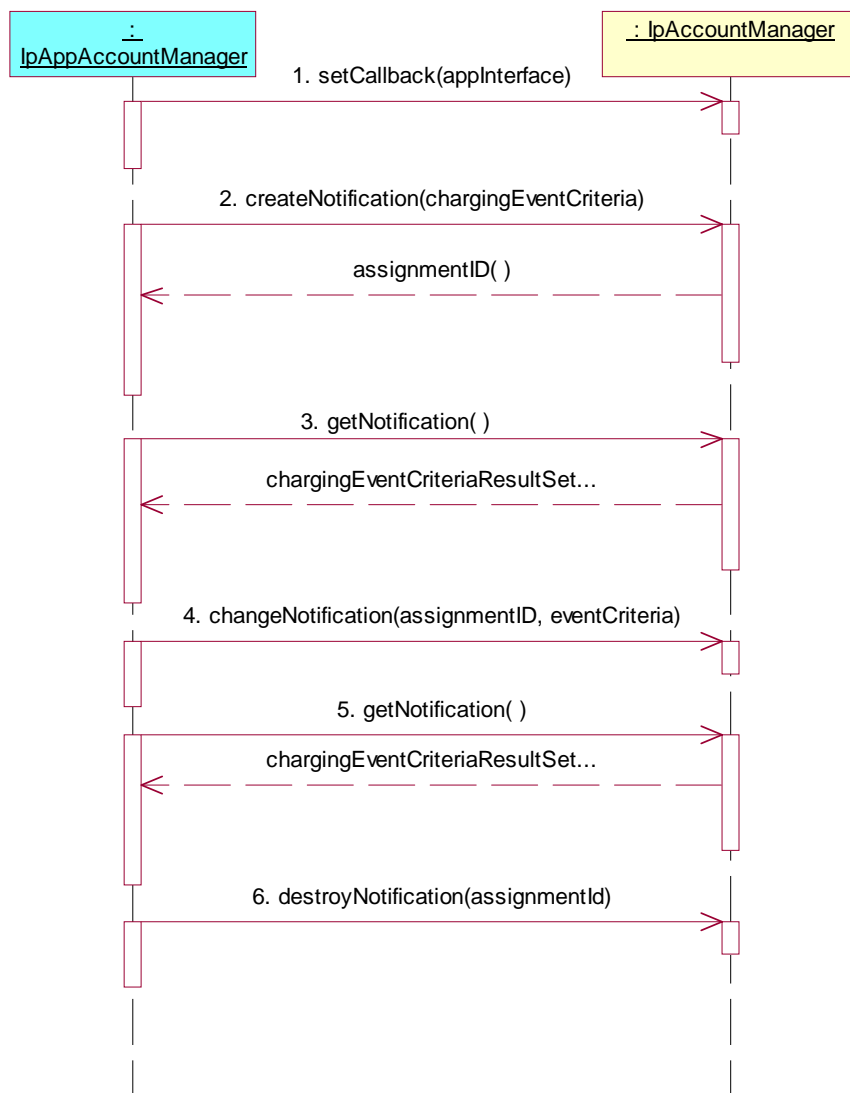
Reference: ES 201 915-11 [1], clause 8.1

Precondition: createNotification, destroyNotification, getNotification and changeNotification supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **createNotification()**
Parameters: chargingEventCriteria
Check: valid value of TpAssignmentID is returned
3. Method call **getNotification()**
Parameters: None
Check: valid value of TpChargingEventCriteriaResultSet is returned, which corresponds to notification created in 1.
4. Method call **changeNotification()**
Parameters: assignmentID give in 1., eventCriteria
Check: no exception is returned
5. Method call **getNotification()**
Parameters: None
Check: valid value of TpChargingEventCriteriaResultSet is returned, which corresponds to the change made in 3
6. Method call **destroyNotification()**
Parameters: assignmentID give in 1.
Check: no exception is returned



Test AM_03

Summary: **IpAccountManager** createNotification, P_INVALID_CRITERIA

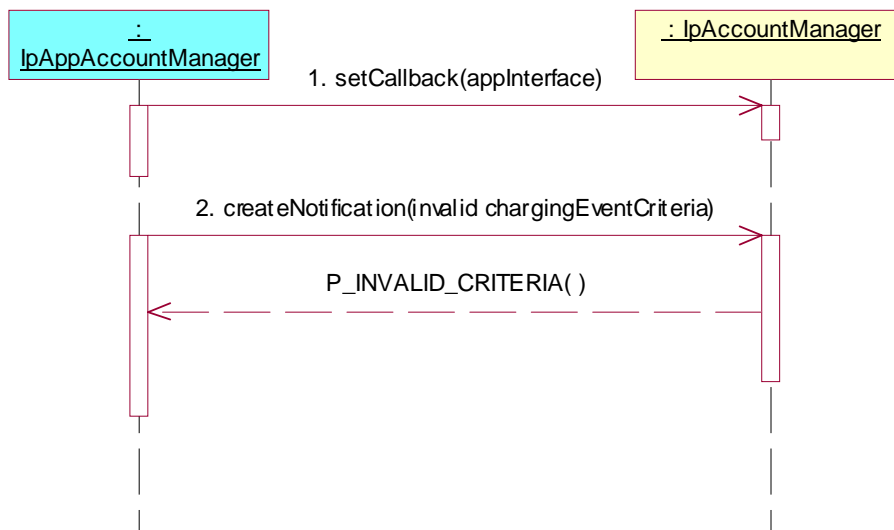
Reference: ES 201 915-11 [1], clause 8.1

Precondition: createNotification supported

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

Test Sequence:

1. Method call **setCallback()**
 Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
 Check: no exception is returned
2. Method call **createNotification()**
 Parameters: invalid chargingEventCriteria
 Check: P_INVALID_CRITERIA is returned



Test AM_04

Summary: **IpAccountManager** changeNotification, P_INVALID_CRITERIA

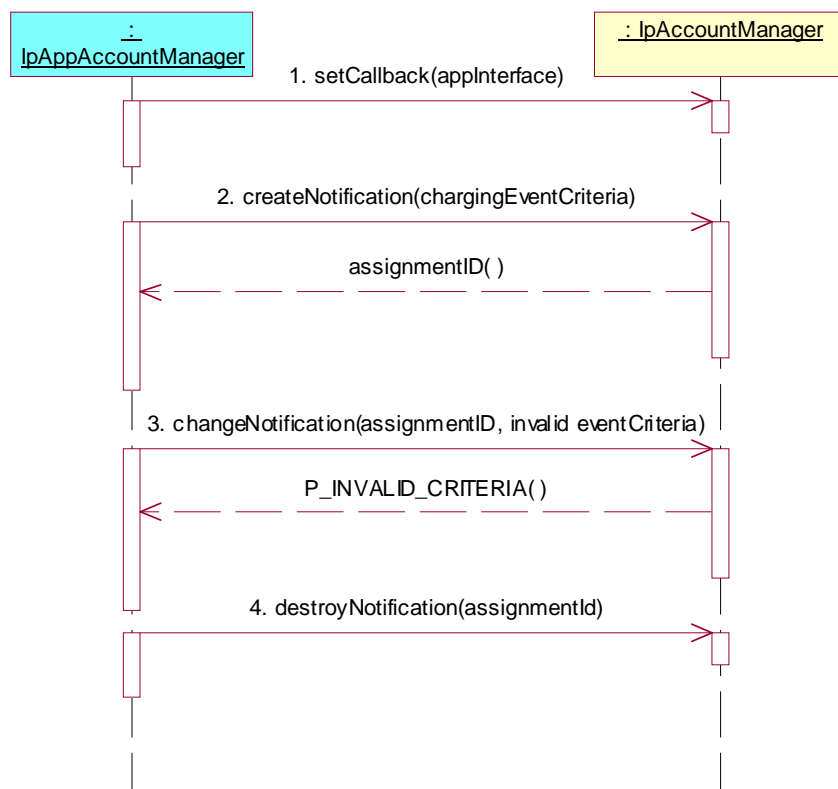
Reference: ES 201 915-11 [1], clause 8.1

Precondition: createNotification and changeNotification supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **createNotification()**
Parameters: chargingEventCriteria
Check: valid value of TpAssignmentID is returned
3. Method call **changeNotification()**
Parameters: assignmentID give in 1., invalid eventCriteria
Check: P_INVALID_CRITERIA is returned
4. Method call **destroyNotification()**
Parameters: assignmentID give in 2.
Check: no exception is returned



Test AM_05

Summary: **IpAccountManager** changeNotification, P_INVALID_ASSIGNMENT_ID

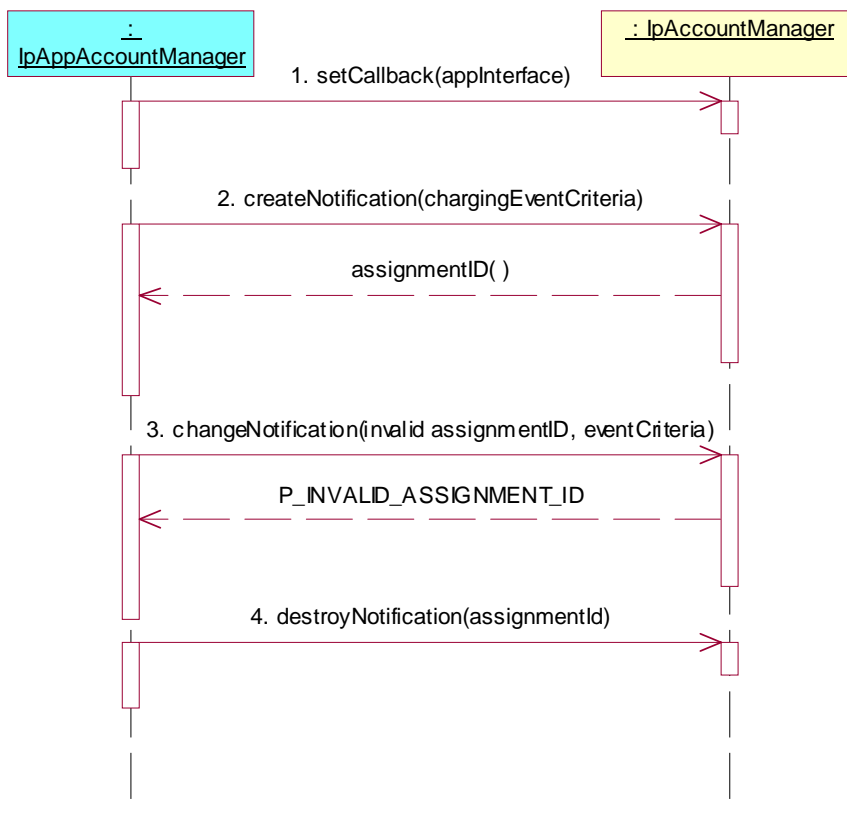
Reference: ES 201 915-11 [1], clause 8.1

Precondition: createNotification and changeNotification supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **createNotification()**
Parameters: chargingEventCriteria
Check: valid value of TpAssignmentID is returned
3. Method call **changeNotification()**
Parameters: invalid assignmentID, eventCriteria
Check: P_INVALID_ASSIGNMENT_ID is returned
4. Method call **destroyNotification()**
Parameters: assignmentID give in 2.
Check: no exception is returned



Test AM_06

Summary: **IpAccountManager** destroyNotification, P_INVALID_ASSIGNMENT_ID

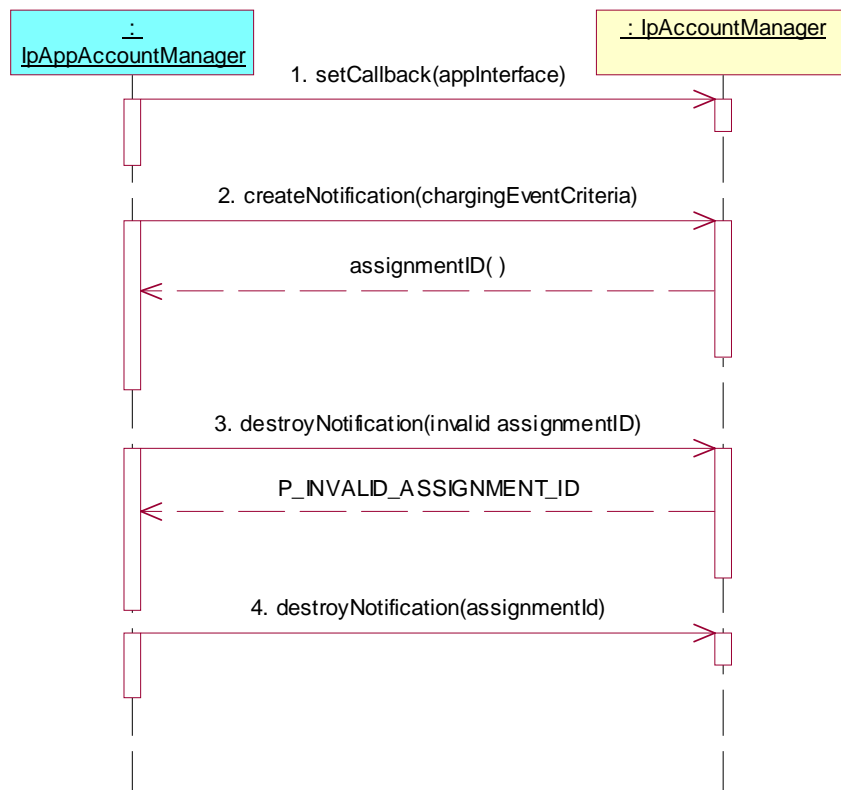
Reference: ES 201 915-11 [1], clause 8.1

Precondition: createNotification and destroyNotification supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **createNotification()**
Parameters: chargingEventCriteria
Check: valid value of TpAssignmentID is returned
3. Method call **destroyNotification()**
Parameters: invalid assignmentID
Check: P_INVALID_ASSIGNMENT_ID is returned
4. Method call **destroyNotification()**
Parameters: assignmentID give in 2.
Check: no exception is returned



Test AM_07

Summary: **IpAccountManager** all methods, successful

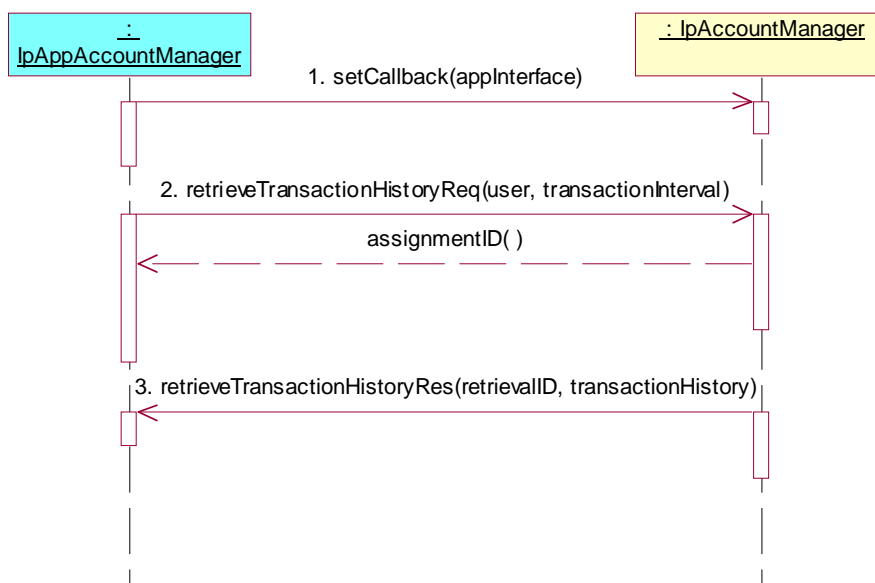
Reference: ES 201 915-11 [1], clause 8.1

Precondition: retrieveTransactionHistoryReq supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned.
2. Method call **retrieveTransactionHistoryReq()**
Parameters: user, transactionInterval
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call **retrieveTransactionHistoryRes()** method on the tester's (Application) **IpAppAccountManager** interface.
Parameters: retrievalID, transactionHistory



Test AM_08

Summary: **IpAccountManager** retrieveTransactionHistoryReq, P_UNKNOWN_SUBSCRIBER

Reference: ES 201 915-11 [1], clause 8.1

Precondition: retrieveTransactionHistoryReq supported

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

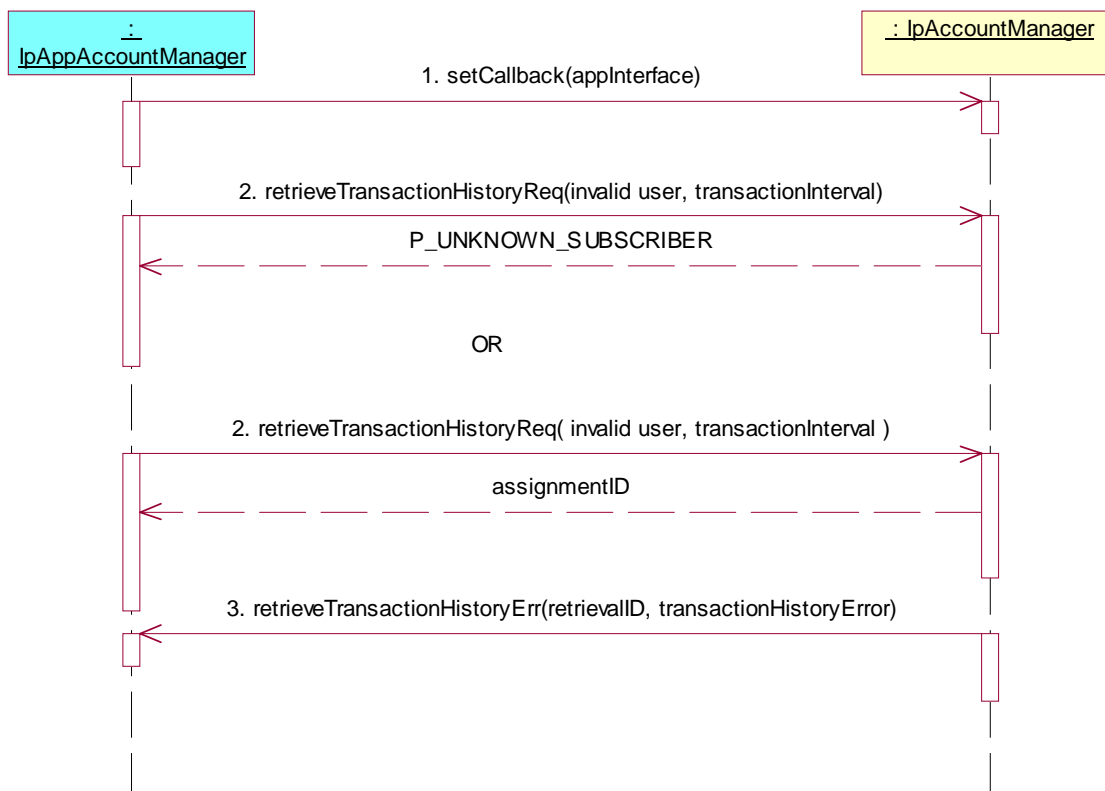
Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **retrieveTransactionHistoryReq()**
Parameters: invalid user, transactionInterval
Check: P_UNKNOWN_SUBSCRIBER is returned,

or

Check: valid value of TpAssignmentID is returned

3. Check: **retrieveTransactionHistoryErr()** method is called on the tester's (Application) **IpAppAccountManager** interface
Parameters: retrievalID, transactionHistoryError with status code P_AM_TRANSACTION_UNKNOWN_ACCOUNT.



Test AM_09

Summary: **IpAccountManager** retrieveTransactionHistoryReq, P_INVALID_TIME_AND_DATE_FORMAT

Reference: ES 201 915-11 [1], clause 8.1

Precondition: retrieveTransactionHistoryReq supported

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

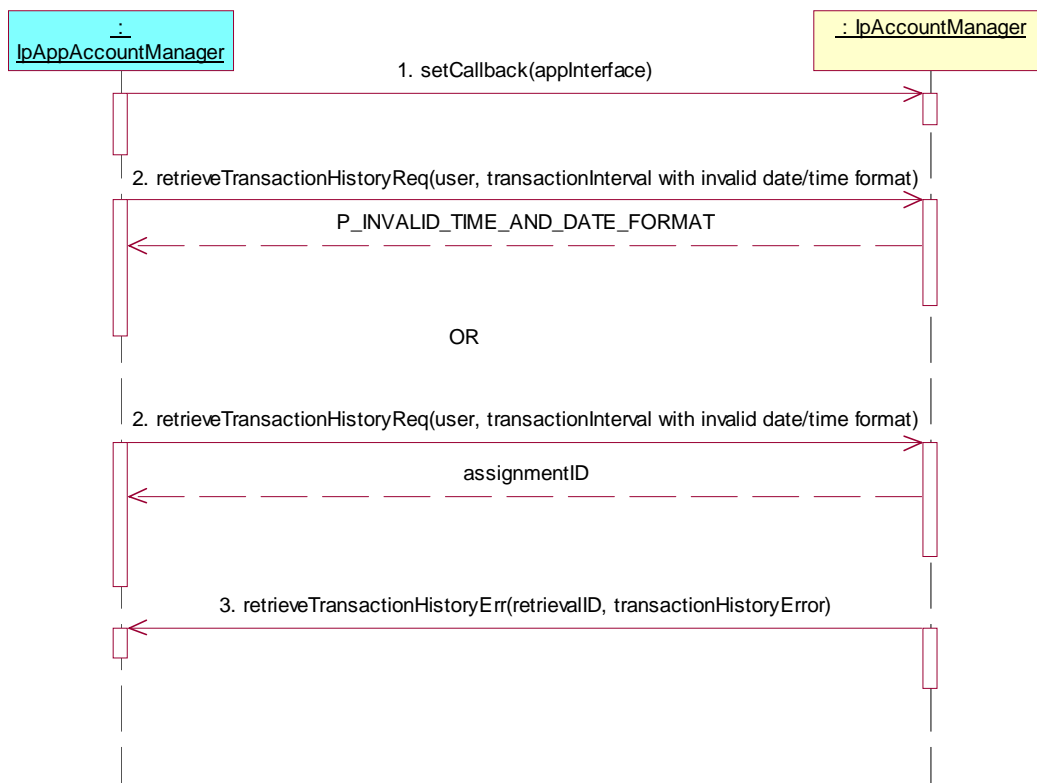
Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **retrieveTransactionHistoryReq()**
Parameters: user, transactionInterval with invalid date/time format
Check: P_INVALID_TIME_AND_DATE_FORMAT is returned,

or

Check: valid value of TpAssignmentID is returned

3. Check: **retrieveTransactionHistoryErr()** method is called on the tester's (Application) **IpAppAccountManager** interface
Parameters: retrievalID, transactionHistoryError with status code P_AM_TRANSACTION_INVALID_INTERVAL.



Test AM_10

Summary: **IpAccountManager** all methods, successful

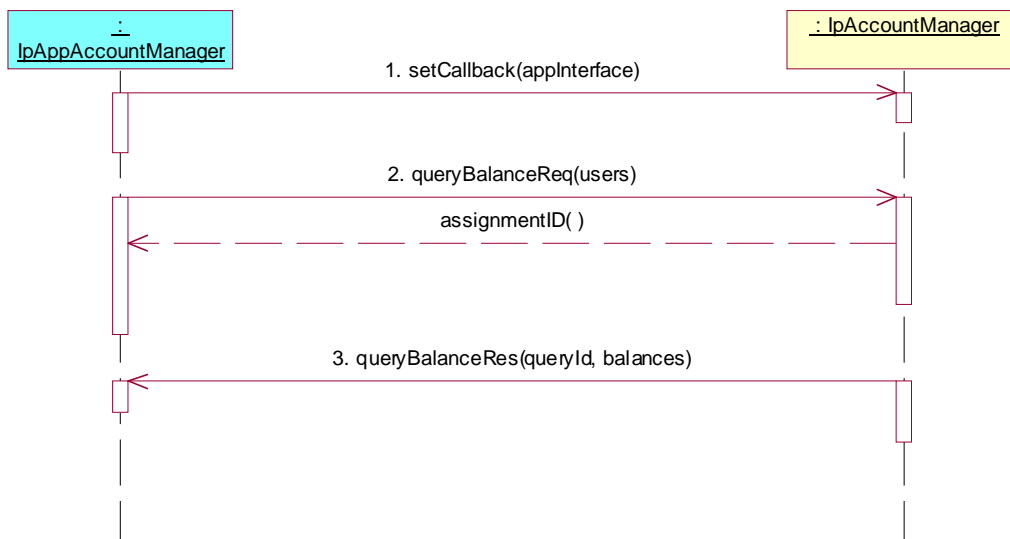
Reference: ES 201 915-11 [1], clause 8.1

Precondition: queryBalanceReq supported

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

Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **queryBalanceReq()**
Parameters: users
Check: valid value of TpAssignmentID is returned
3. Triggered action: cause IUT to call **queryBalanceRes()** method on the tester's (Application) **IpAppAccountManager** interface.
Parameters: queryId, balances



Test AM_11

Summary: **IpAccountManager** queryBalanceReq, P_UNKNOWN_SUBSCRIBER

Reference: ES 201 915-11 [1], clause 8.1

Precondition: queryBalanceReq supported

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

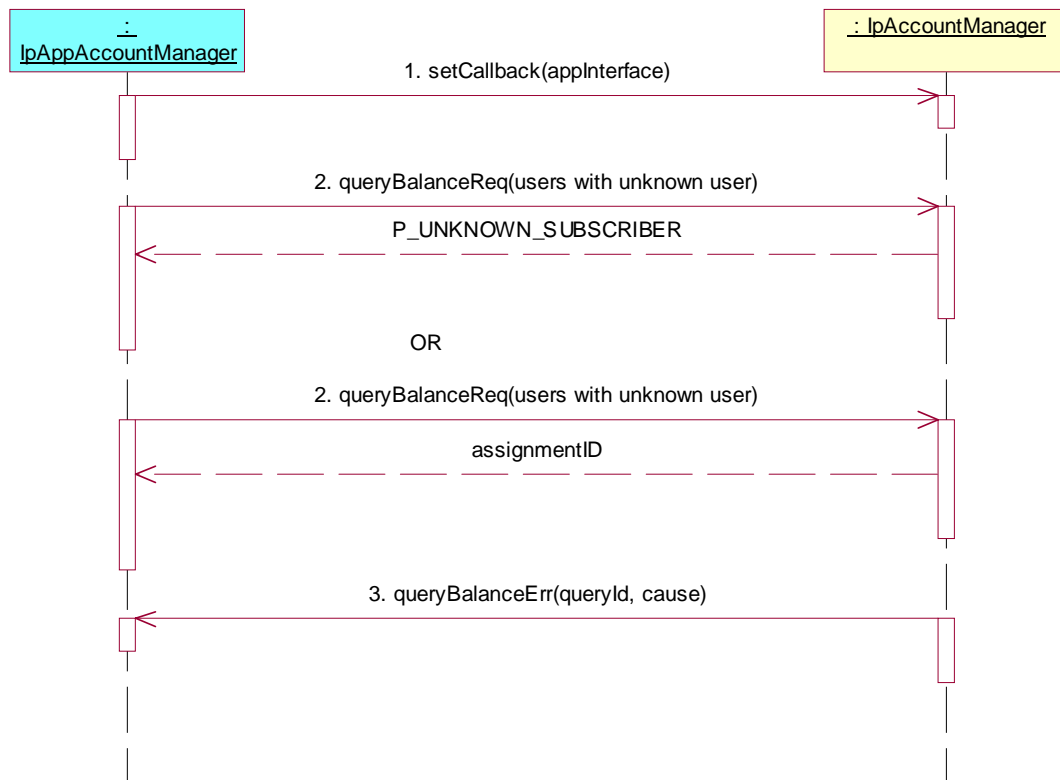
Test Sequence:

1. Method call **setCallback()**
Parameters: appInterface with value of tester's (Application's) IpAppAccountManager interface
Check: no exception is returned
2. Method call **queryBalanceReq()**
Parameters: users, with unknown user
Check: P_UNKNOWN_SUBSCRIBER is returned,

or

Check: valid value of TpAssignmentID is returned

3. Check: **queryBalanceErr()** method is called on the tester's (Application) **IpAppAccountManager** interface
Parameters: queryId, cause with error code P_BALANCE_QUERY_UNKNOWN_SUBSCRIBER.



5.3 TPs for the application using the Account Management 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 application to call methods in the SCF 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".

5.3.1 Account Management

Test AM_APP_01

Summary: **IpAppAccountManager**, create and accept charging event notification

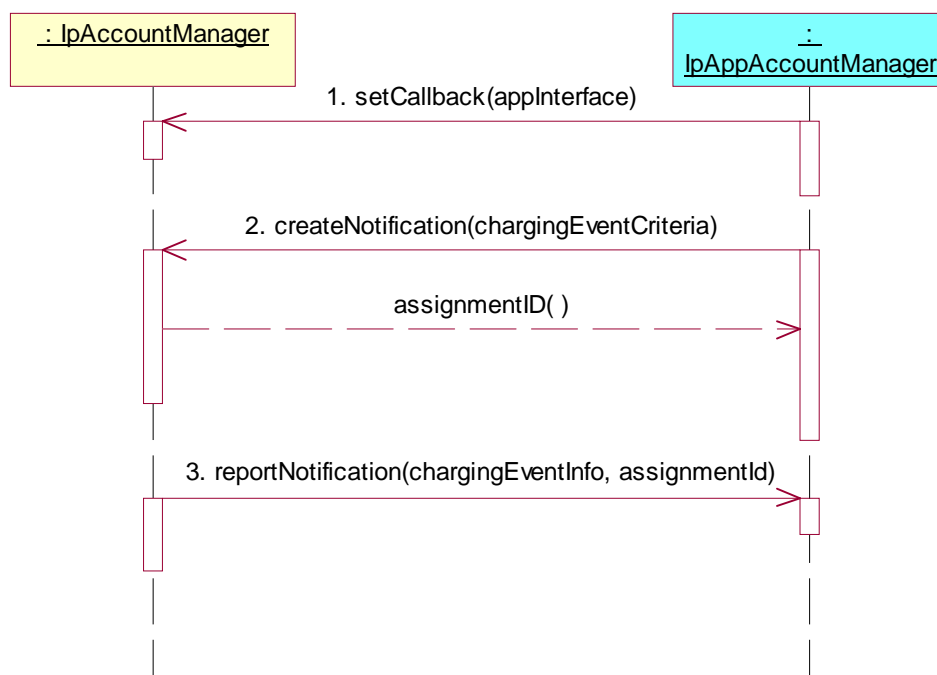
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **createNotification()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: applInterface with value of IUT's application's **IpAppAccountManager** interface
2. Triggered action: cause IUT to call **createNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: chargingEventCriteria
3. Method call **reportNotification()**
Parameters: chargingEventInfo, assignmentId
Check: no exception is returned



Test AM_APP_02

Summary: **IpAppAccountManager**, create and destroy charging event notification

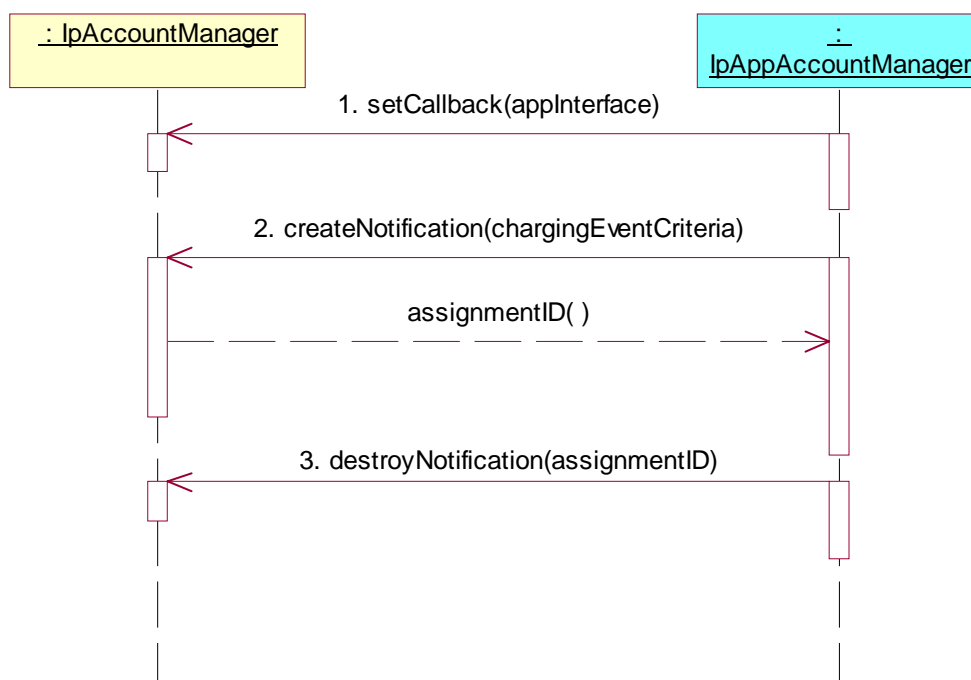
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **createNotification()** and **destroyNotification()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **createNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: chargingEventCriteria
3. Triggered action: cause IUT to call **destroyNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: assignmentID received in response to **createNotification()**.



Test AM_APP_03

Summary: **IpAppAccountManager**, create and change charging event notification

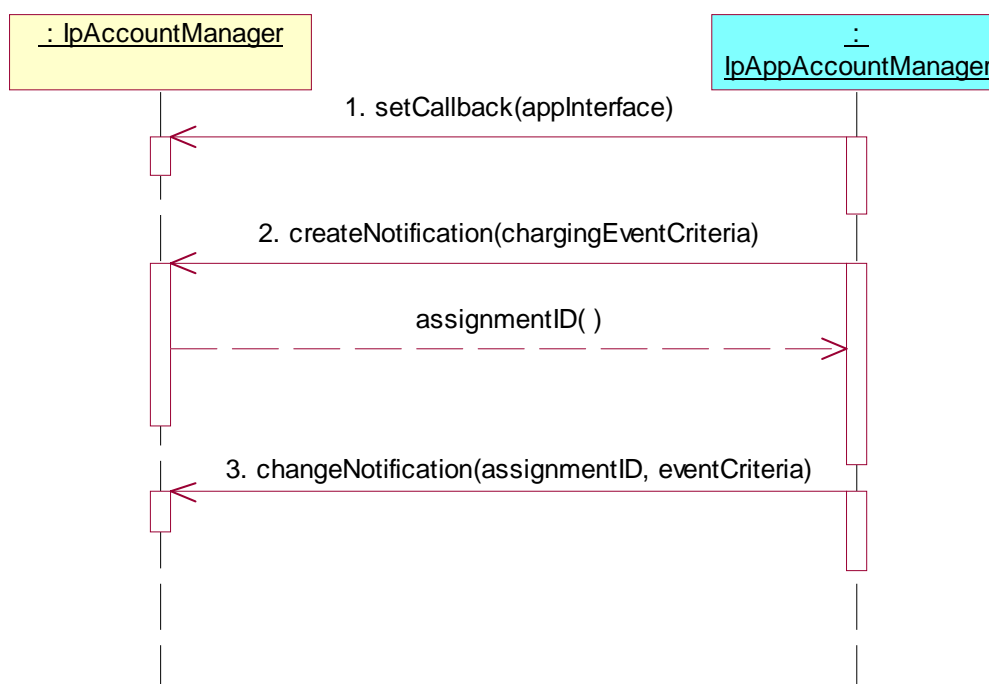
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **createNotification()** and **changeNotification()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **createNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: chargingEventCriteria
3. Triggered action: cause IUT to call **changeNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: assignmentID received in response to **createNotification()**, eventCriteria.



Test AM_APP_04

Summary: **IpAppAccountManager**, create and query charging event notification

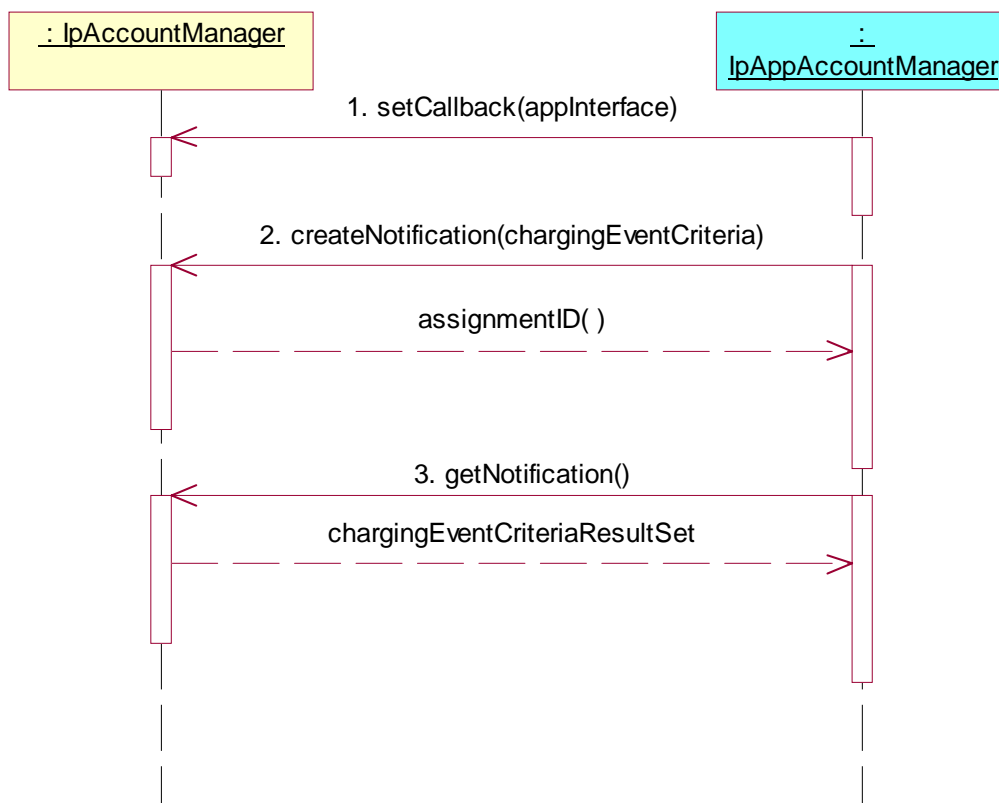
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **createNotification()** and **getNotification()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **createNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: chargingEventCriteria
3. Triggered action: cause IUT to call **getNotification()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: none



Test AM_APP_05

Summary: **IpAppAccountManager**, retrieve transaction history, successful

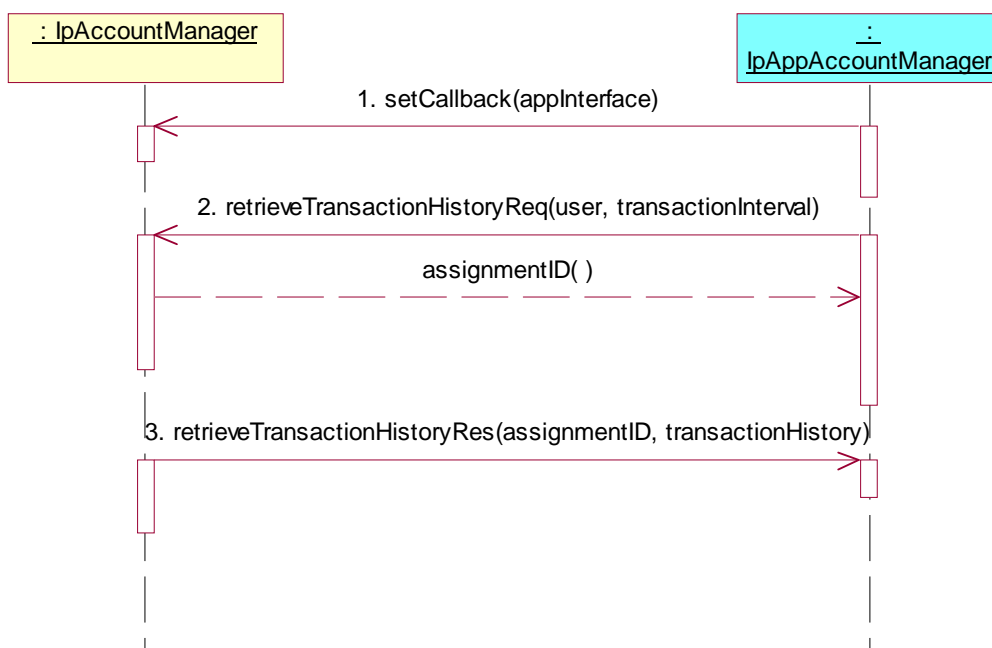
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **retrieveTransactionHistoryReq()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **retrieveTransactionHistoryReq()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: user, transactionInterval
3. Method call **retrieveTransactionHistoryRes()**
Parameters: assignmentID, transactionHistory
Check: no exception is returned



Test AM_APP_06

Summary: **IpAppAccountManager**, retrieve transaction history, unsuccessful

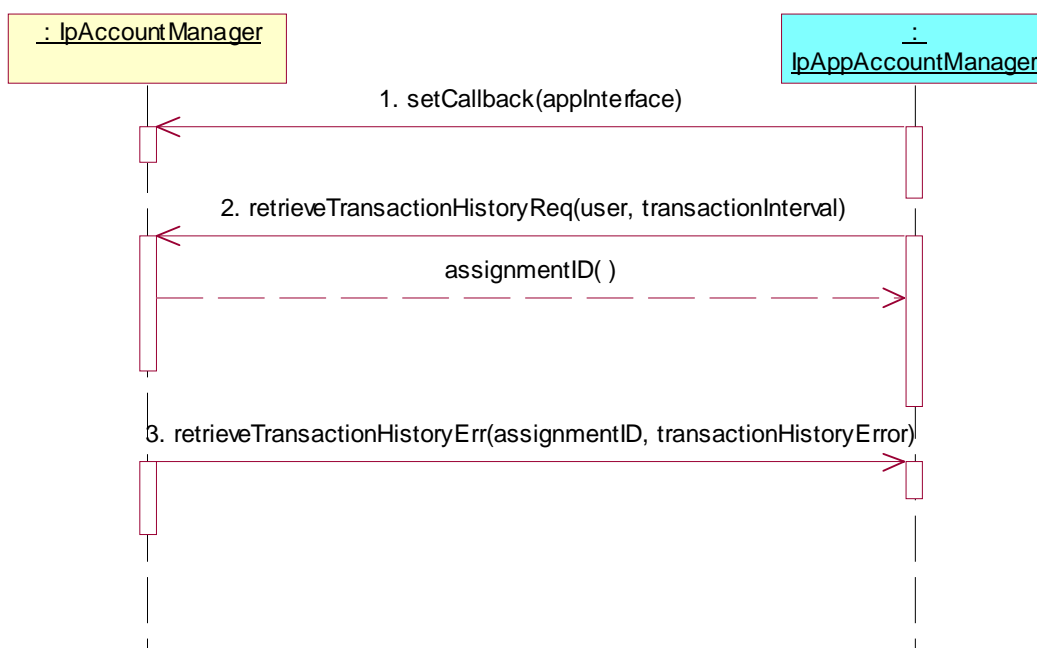
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **retrieveTransactionHistoryReq()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **retrieveTransactionHistoryReq()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: user, transactionInterval
3. Method call **retrieveTransactionHistoryErr()**
Parameters: assignmentID, transactionHistoryError
Check: no exception is returned



Test AM_APP_07

Summary: **IpAppAccountManager**, query account balance, successful

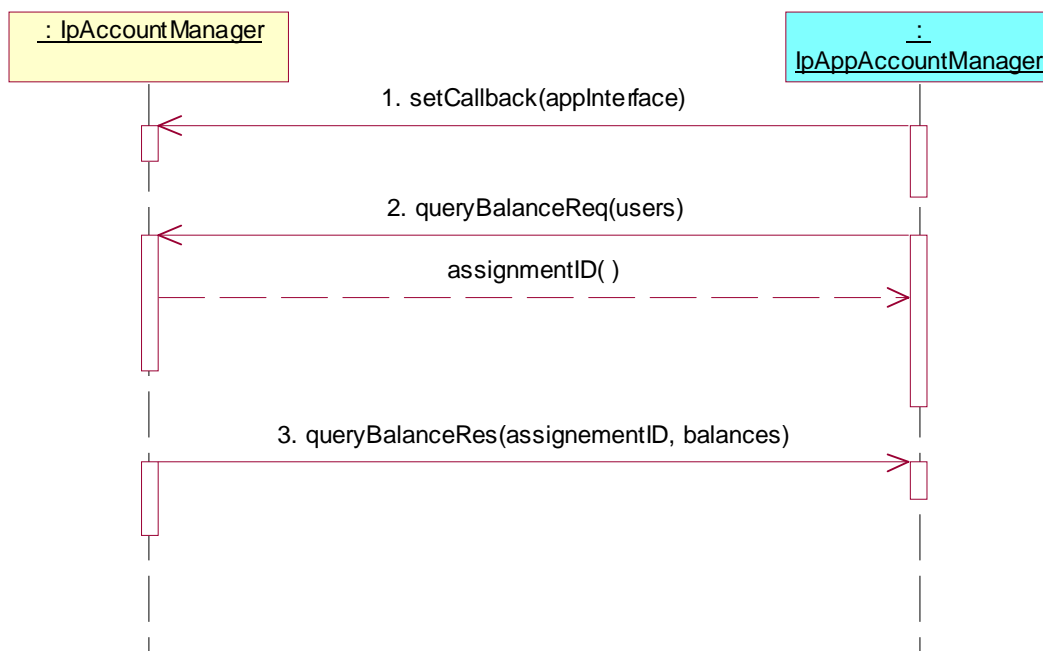
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **queryBalanceReq()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **queryBalanceReq()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: users
3. Method call **queryBalanceRes()**
Parameters: assignmentID, balances
Check: no exception is returned



Test AM_APP_08

Summary: **IpAppAccountManager**, query account balance, unsuccessful

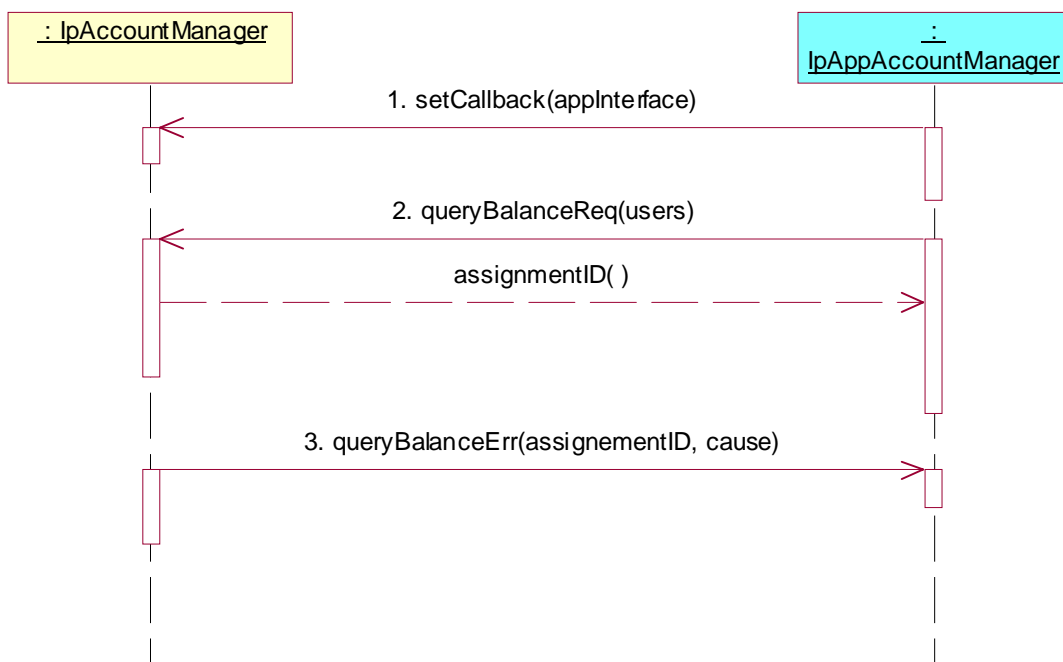
Reference: ES 201 915-11 [1], clause 8.1

Precondition: IUT capable of invoking **queryBalanceReq()**

Preamble: Registration of the IUT (application) and the tester (Account Manager 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 **setCallback()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: appInterface with value of IUT's application's IpAppAccountManager interface
2. Triggered action: cause IUT to call **queryBalanceReq()** method on the tester's (SCF) **IpAccountManager** interface.
Parameters: users
3. Method call **queryBalanceErr()**
Parameters: assignmentID, cause
Check: no exception is returned



History

Document history		
V1.1.1	August 2003	Publication
V1.2.1	December 2004	Membership Approval Procedure MV 20050211: 2004-12-14 to 2005-02-11
V1.2.1	February 2005	Publication