Detailed Test Plan and Report for Stentofon IP SUBSTATION

Test Result	**PASS/FAIL**
Test Date	**30/01/2013**
Product Name	**Stentofon IP STATIONS**
Product Version # (must be generally available)	**3.0.3.1 (Turbine)** **02.02.3.1 (IP sub/Master)**
NEC iPBX Versions	**3C/SV8300/iS3000**
NEC Phones Version	**Many**
Product Type(Billing, Voice Recording, phone apps etc):	**SIP End Point**
API/Protocol(s) Used	**SIP**
Zenitel Tech Contact Name:	**Piazza Paolo**
NEC Tech Contact Name:	**Riverso Giuseppe**
NEC Tech Contact Phone:	**+39 02 48415335**
NEC Tech Contact Email:	riverso.giuseppe@emea.nec.com
NEC Lab Location (EMEA or US):	**EMEA (Milan, Italy)**
Partner Main Support Number	**N/A**
Partner Main Support Email	**N/A**

Revision History

Revision	Author	Date	Comment
2	B.Gatti	01/12/2012	No comments
2.1	B.Gatti	30/01/2013	Final Release with Test Result

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Table of Contents

1 Introduction

This document is the detailed Interoperability Verification Test Plan and Report for **NEC IPBX family** and **Zenitel Stentofon IP STATION**

2 Product Overview

The station can register towards the **NEC IPBX family** as "Third-party SIP Device (Basic)" as SIP Endpoint.
The SIP Station supports SIP authentican and Outbound Proxy. It is possible to assign up to 2 Backup SIP servers for redundandsy purpose. The IP station has capability to initiate a call by one push button with predefined Directory number and receive calls by auto answer or manually by button.

The station supports G711uLAw and G711ALaw as well as G722 codec, and is also able to negotiate the codec in SDP and registration interval as well.

The Device supports configuration and software update through TFTP server by MAC specific configuration file. The device can also be configured through HTTP/HTTPS as it is a webserver running on the device.

The device can be monitored by SNMP server and receive traps from the station which can give error status about the hardware and application operational state.
The station also supports for VLAN (802.1q) and 802.1x authentication, and has an additional AUX port for connection to PC or other network device.

3 Executive Summary

Short Summary of the test effort – how testing went, or explain any positive or unusual events in testing . Identify any and all unexpected results.

4 Items Tested/Results Summary

The results of this summary are taken from the Test Cases section. The purpose of this is for Partner Program Team to review without the need of going into the full detail of the report. Only those test cases that did not pass are listed in this section. The full test case listing, including all passed test cases, can be found in Section 6, "Test Cases".

Table 1 – Test Results Legend

Result	Description
Pass	The test case passed with no exceptions
Fail	The test case failed – details of the failure are noted in the Comments column
N/A	The test case is not applicable to the product under test. Justification must be provided in the Comments column.
N/S	Not supported. While the feature tested by this test case generally would be considered a standard feature for this product category, this specific product (or this specific release) does not support the feature.
N/T	Not tested. The feature is supported by the product under test, but external factors (lab configuration, e.g.) prevented execution of the test. Justification must be provided in the Comments column.
Blocked	Other test case failures prevented the execution of this test. Reference to the corresponding failed test case must be provided in the Comments column.

4.1 Installation, Functional, Negative, and Informational Test Summary

Test Case	Description	Pass/Fail	Comments
INST	Installation	P	

4.2 Performance Test Summary

Test Case	Description	Pass/Fail	Comments
N/A	N/A	N/A	N/A

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4.3 Items Tested

The Following features are testing in this test plan.

NEC IPBX family	RFC Reference	To Be Tested?
Call Hold and Resume	3261, 3264, 2327, 1889	Yes
Transfer Unattended	3261, 3264, 2327, 1889, 3515, 3420, 3265, 3892	Yes
Transfer Attended	3261, 3264, 2327, 1889, 3515, 3420, 3265, 3892, 3891	Yes
Call Forwarding All	3261, 3264, 2327, 1889	N/A
Call Forwarding No Answer	3261, 3264, 2327, 1889	N/A
Call Forwarding Busy	3261, 3264, 2327, 1889	N/A
Multiple Calls per Line	3261, 3264, 2327, 1889	N/A
Incoming Call Screening	3261, 3264, 2327, 1889, 3725	N/A
Outgoing Call Screening	3261, 3264, 2327, 1889, 3725	N/A
Calling and Connected Line ID	3261, 3264, 2327, 1889, RemotePartyID	Yes
Calling and Connected Name ID	3261, 3264, 2327, 1889, RemotePartyID	Yes
Message Waiting Indication	3261, 3264, 2327, 1889, 3842	N/A
Three-Way Conference Calling	3261, 3264, 2327, 1889	Yes
Call Forking	3261, 3264, 2327, 1889	N/A
Speed Dialing	3261, 3264, 2327, 1889	Yes
Multiple Lines per Phone	3261, 3264, 2327, 1889	N/A

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4.4 Items Not Tested

Features that are specific to the internals of the 3rd party product or any features not listed will not be tested.

4.5 Assumptions

- Interoperability of 3rd party products – Testing will cover only features in 3rd party products that result in events to and/or from the IPBX or specified PSTN gateway.

- Call Processing – PSTN interface and NEC SIP call processing traffic for all testing (excluding manual sampling run during traffic) may be generated using simulators.

5   Test Environment

5.1   Administration, Testing and Debugging tools
None.

5.2   Equipment Requirements

Table 2 identifies all equipment/versions used for in this IVT.

Table 2 – Equipment and Product Information

Product	Version	Type	Purpose	Units	Notes
NEC Products					
3C	8135	Softswitch	SIP functionalities	1	
SV8300	Rel. 7	iPBX	SIP functionalities	1	
iS3000	850.07	Hybrid PBX	SIP functionalities	1	
3rd Party Products					
Stentofon IP Substation	02.02.3.1	Third Party basic SIP End Point	Device under test	2	Zenitel provided
Turbine IP TCS5/TCS6	3.0.3.1	Third Party basic SIP End Point	Device under test	2	Zenitel provided
Test Tools					

5.3 3rd Party Supporting Documentation and Urls

Table 3 – 3rd Party Supporting Documentation

Description	Related url
Website	www.stentofon.com

Description	Related url
Technical Documentation	http://Stentofon.com/Partnernet/
User Guide	http://Stentofon.com/Partnernet/
Administrator Guide	http://Stentofon.com/Partnernet/
IVT Questionnaire	N/A
Application Note	N/A

5.4 Deployment Architecture

Figure 1 – Deployment Architecture
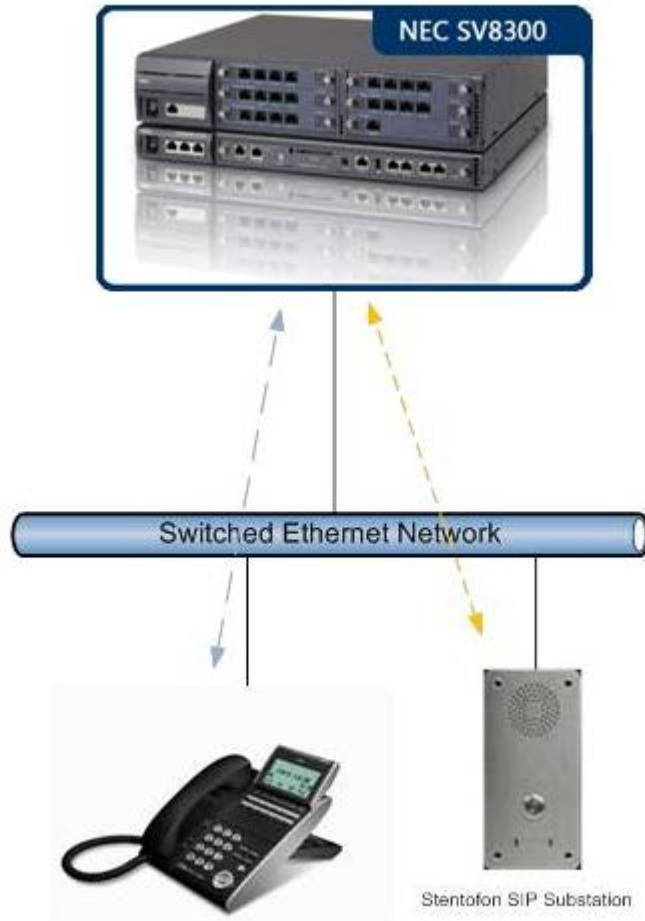
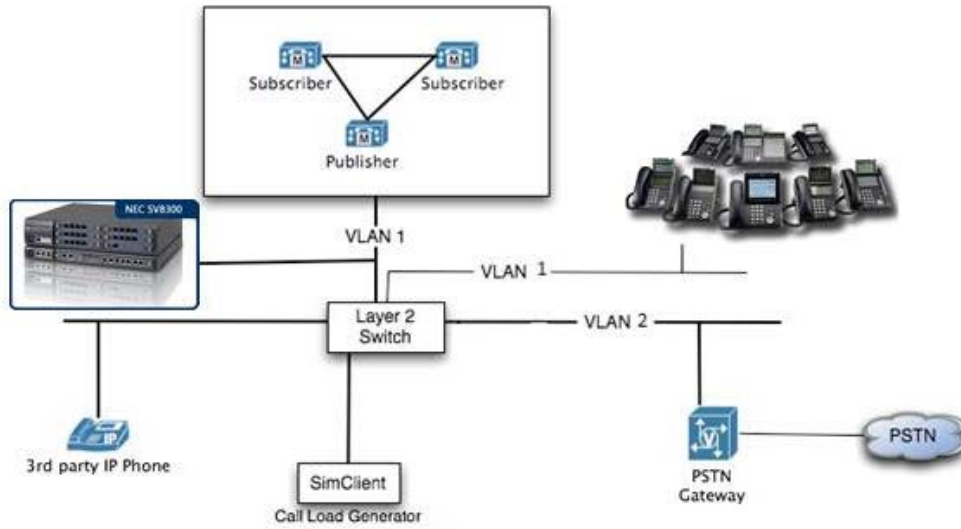## 5.5 Test Environment Architecture

Figure 2 – Test Environment

6   Test Cases

This section details the tests that will be performed during the testing period.

Unless otherwise noted in the individual test case, all tests shall be executed with a background load (provided by a load generation utility such as Camelot or SimClient) resulting sustained in IPBX CPU utilization of 65%.

Refer to Table 1 – Test Results Legend for the definitions of the annotations in the Pass/Fail column.

- STENTOFON IP SUBSTATION – Device Under Test
- NEC Phone
- NEC SIP Phone

6.1   Basic Call Scenarios

The intention of this section is to verify that basic calls can be properly handled between the SIP Phone under test and NEC SV8300. This test includes the validation of the different call stages from setup, alerting, connecting, and tear down, as well as different call scenarios between end points, IP server local or remote extensions and calls to and from PSTN, NEC SIP and NEC phones.

Test Case	Description	Expected Result	Pass/ Fail	Comments
Station to Station Calls				
6.1.1	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION , originator releases call	Two-way voice path, call released properly	P	
6.1.2	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION , originator abandons call	Terminator stops ringing, originator released properly	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.1.3	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION , terminator releases	Two-way voice path, call released properly	P	
6.1.4	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION , terminator busy	Busy tone heard at originator	P	Busy tone doesn't comply with CEI standard (T.on 500ms and T.off 500ms)
6.1.5	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION , unanswered call	Ringing at terminator, ring back at originator, originator released properly	P	
6.1.6	STENTOFON IP SUBSTATION , call to unknown number	Treatment heard at originator, originator released properly	P	
6.1.7	STENTOFON IP SUBSTATION to NEC Phone, originator releases call	Two-way voice path, call released properly	P	
6.1.8	STENTOFON IP SUBSTATION to NEC Phone, terminator releases call	Two-way voice path, call released properly	P	
6.1.9	NEC Phone to STENTOFON IP SUBSTATION , originator abandons call	Terminator stops ringing, originator released properly	P	
6.1.10	NEC Phone to STENTOFON IP SUBSTATION , terminator releases	Two-way voice path, call released properly	P	
6.1.11	STENTOFON IP SUBSTATION to NEC Phone, terminator busy	Busy tone heard at originator	P	Busy tone doesn't comply with CEI standard (T.on 500ms and T.off 500ms)

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Test Case	Description	Expected Result	Pass/Fail	Comments
6.1.12	STENTOFON IP SUBSTATION to NEC Phone, unanswered call	Ringing at terminator, ring back at originator, originator released properly	P	
6.1.13	STENTOFON IP SUBSTATION to NEC SIP, originator releases call	Two-way voice path, call released properly	P	
6.1.14	STENTOFON IP SUBSTATION to NEC SIP, terminator releases call	Two-way voice path, call released properly	P	
6.1.15	NEC SIP to STENTOFON IP SUBSTATION , originator abandons call	Terminator stops ringing, originator released properly	P	
6.1.16	NEC SIP to STENTOFON IP SUBSTATION , terminator releases	Two-way voice path, call released properly	P	
6.1.17	STENTOFON IP SUBSTATION to NEC SIP, terminator busy	Busy tone heard at originator	P	Busy tone doesn't comply with CEI standard (T.on 500ms and T.off 500ms)
6.1.18	STENTOFON IP SUBSTATION to NEC SIP, unanswered call	Ringing at terminator, ring back at originator, originator released properly	P	
PSTN Calls				
6.1.19	STENTOFON IP SUBSTATION to PSTN, originator releases call	Two-way voice path, call released properly	P	
6.1.20	STENTOFON IP SUBSTATION to PSTN, originator abandons call	Terminator stops ringing, originator released properly	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.1.21	STENTOFON IP SUBSTATION to PSTN, terminator releases	Two-way voice path, call released properly	P	
6.1.22	STENTOFON IP SUBSTATION to PSTN, terminator busy	Busy tone heard at originator	P	
6.1.23	STENTOFON IP SUBSTATION to PSTN, unanswered call	Ringing at terminator, ring back at originator, originator released properly	P	
6.1.24	STENTOFON IP SUBSTATION to PSTN, call to unknown number	Treatment heard at originator, originator released properly	P	
6.1.25	PSTN to STENTOFON IP SUBSTATION , PSTN abandons call	Terminator stops ringing, originator released properly	P	
6.1.26	PSTN to STENTOFON IP SUBSTATION , terminator releases call	Two-way voice path, call released properly	P	
6.1.27	PSTN to STENTOFON IP SUBSTATION , terminator busy	Busy tone heard at originator	P	Busy tone doesn't comply with CEI standard (T.on 500ms and T.off 500ms)
6.1.28	PSTN to STENTOFON IP SUBSTATION , unanswered call	Ringing at terminator, ring back at originator, originator released properly	P	
DTMF Using G.711 (in band)				
6.1.29	STENTOFON IP SUBSTATION retrieves a voicemail, STENTOFON IP SUBSTATION releases call after sending DTMF tones		N/A	

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.1.30	STENTOFON IP SUBSTATION retrieves a voicemail, voicemail releases call after receiving DTMF tones		N/A	
DTMF Using RFC 2833 (out of band)				
6.1.31	STENTOFON IP SUBSTATION retrieves a voicemail, STENTOFON IP SUBSTATION releases call after sending DTMF tones	Voicemail retrieve successfully	P	
6.1.32	STENTOFON IP SUBSTATION retrieves a voicemail, voicemail releases call after receiving DTMF tones	Voicemail retrieve successfully	P	

6.2 NEC IPBX Feature Support

The goal of this section is to verify protocol interactions between the device under test and the NEC IPBX standards implementation. Focus is on feature call functionality, call control and other call information support interworking capabilities of the endpoint under test and the NEC IPBX version under test.

Test Case	Description	Expected Result	Pass/ Fail	Comments
Call Forward All (CFA)				
6.2.1	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, Endpoint releases call	Two-way audio, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.2	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION 3 releases call	Two-way audio, call released properly	P	
6.2.3	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION abandons call	Terminator stops ringing, call released properly	P	
6.2.4	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION 3 is busy	Originator hears busy tone, call released properly	P	
6.2.5	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, PSTN releases call	Two-way audio, call released properly	P	
6.2.6	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 releases call	Two-way audio, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.7	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, PSTN abandons call	Terminator stops ringing, call released properly	P	
6.2.8	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.9	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION releases call	Two-way audio, call released properly	P	
6.2.10	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION releases call	Two-way audio, call released properly	P	
6.2.11	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 releases call	Two-way audio, call released properly	P	
6.2.12	STENTOFON IP SUBSTATION to NEC SIP, Call	Terminator stops ringing, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION abandons call			
6.2.13	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.14	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.15	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC SIP, PSTN releases call	Two-way audio, call released properly	P	
6.2.16	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC Phone, NEC Phone releases call	Two-way audio, call released properly	P	
6.2.17	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC SIP, PSTN abandons call	Terminator stops ringing, call released properly	P	
6.2.18	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC	Originator hears busy tone, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	Phone, NEC Phone is busy			
Call Forward if Busy (CFB)				
6.2.19	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, Endpoint releases call	Two-way audio, call released properly	P	
6.2.20	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION 3 releases call	Two-way audio, call released properly	P	
6.2.21	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION abandons call	Terminator stops ringing, call released properly	P	
6.2.22	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION 3 is busy	Originator hears busy tone, call released properly	P	
6.2.23	PSTN to STENTOFON IP SUBSTATION , Call forwarded to	Two-way audio, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	STENTOFON IP SUBSTATION 2, PSTN releases call			
6.2.24	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 releases call	Two-way audio, call released properly	P	
6.2.25	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, PSTN abandons call	Terminator stops ringing, call released properly	P	
6.2.26	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.27	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION releases call	Two-way audio, call released properly	P	
6.2.28	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION releases call	Two-way audio, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.29	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 releases call	Two-way audio, call released properly	P	
6.2.30	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION abandons call	Terminator stops ringing, call released properly	P	
6.2.31	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.32	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.33	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC SIP, PSTN releases call	Two-way audio, call released properly	P	
6.2.34	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC	Two-way audio, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	Phone, NEC Phone releases call			
6.2.35	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC SIP, PSTN abandons call	Terminator stops ringing, call released properly	P	
6.2.36	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC Phone, NEC Phone is busy	Originator hears busy tone, call released properly	P	
Call Forward if No Answer (CFNA) P				
6.2.37	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, Endpoint releases call	Two-way audio, call released properly	P	
6.2.38	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION 3 releases call	Two-way audio, call released properly	P	
6.2.39	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION abandons call	Terminator stops ringing, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.40	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Call forwarded to STENTOFON IP SUBSTATION 3, STENTOFON IP SUBSTATION 3 is busy	Originator hears busy tone, call released properly	P	
6.2.41	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, PSTN releases call	Two-way audio, call released properly	P	
6.2.42	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 releases call	Two-way audio, call released properly	P	
6.2.43	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, PSTN abandons call	Terminator stops ringing, call released properly	P	
6.2.44	PSTN to STENTOFON IP SUBSTATION , Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.45	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to	Two-way audio, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION releases call			
6.2.46	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION releases call	Two-way audio, call released properly	P	
6.2.47	STENTOFON IP SUBSTATION to NEC Phone, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 releases call	Two-way audio, call released properly	P	
6.2.48	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION abandons call	Terminator stops ringing, call released properly	P	
6.2.49	STENTOFON IP SUBSTATION to NEC PHONE, Call forwarded to STENTOFON IP SUBSTATION 2, STENTOFON IP SUBSTATION 2 is busy	Originator hears busy tone, call released properly	P	
6.2.50	STENTOFON IP SUBSTATION to NEC SIP, Call forwarded to STENTOFON IP SUBSTATION 2,	Originator hears busy tone, call released properly	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	STENTOFON IP SUBSTATION 2 is busy			
6.2.51	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC SIP, PSTN releases call	Two-way audio, call released properly	P	
6.2.52	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC PHONE, NEC PHONE releases call	Two-way audio, call released properly	P	
6.2.53	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC SIP, PSTN abandons call	Terminator stops ringing, call released properly	P	
6.2.54	PSTN to STENTOFON IP SUBSTATION , Call forwarded to NEC PHONE, NEC PHONE is busy	Originator hears busy tone, call released properly	P	
Call Hold and Resume				
6.2.55	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Originator Holds and resumes call	STENTOFON IP SUBSTATION 2 hears MOH, 2-way audio resumes	P	
6.2.56	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Terminator Holds and resumes call	STENTOFON IP SUBSTATION hears MOH, 2-way audio resumes	P	
6.2.57	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2.	STENTOFON IP SUBSTATION 2 hears MOH, 2-way audio on 2nd call, 2nd	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	Originator Holds call to answer an incoming call	call properly released, 2-way audio resumes		
6.2.58	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Terminator Holds call to answer an incoming call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.59	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Originator Holds to originate a second call	STENTOFON IP SUBSTATION 2 hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.60	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Terminator Holds to originate a second call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.61	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Originator Holds call, Terminator releases before retrieve	STENTOFON IP SUBSTATION 2 hears MOH, STENTOFON IP SUBSTATION 2 leg properly released, STENTOFON IP SUBSTATION unable to retrieve, STENTOFON IP SUBSTATION properly released	P	
6.2.62	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2. Terminator Holds call, Originator releases before retrieve	STENTOFON IP SUBSTATION hears MOH, STENTOFON IP SUBSTATION leg properly released, STENTOFON IP SUBSTATION 2 unable to retrieve, STENTOFON IP SUBSTATION 2	P	

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Test Case	Description	Expected Result	Pass/Fail	Comments
		properly released		
6.2.63	PSTN to STENTOFON IP SUBSTATION , Terminator Holds and resumes call	PSTN hears MOH, 2-way audio resumes	P	
6.2.64	PSTN to STENTOFON IP SUBSTATION , PSTN Holds and resumes call	STENTOFON IP SUBSTATION hears MOH, 2-way audio resumes	P	
6.2.65	PSTN to STENTOFON IP SUBSTATION , terminator Holds call to answer an incoming call	PSTN hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.66	PSTN to STENTOFON IP SUBSTATION , PSTN Holds call to answer an incoming call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.67	PSTN to STENTOFON IP SUBSTATION , terminator Holds to originate a second call	PSTN hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.68	PSTN to STENTOFON IP SUBSTATION , PSTN Holds to originate a second call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.69	PSTN to STENTOFON IP SUBSTATION , terminator Holds call, PSTN releases before retrieve	PSTN hears MOH, PSTN leg properly released, STENTOFON IP SUBSTATION unable to retrieve, STENTOFON IP SUBSTATION properly released	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.70	PSTN to STENTOFON IP SUBSTATION , PSTN Holds call, End Point release before retrieve	STENTOFON IP SUBSTATION hears MOH, STENTOFON IP SUBSTATION leg properly released, PSTN unable to retrieve, PSTN properly released	P	
6.2.71	STENTOFON IP SUBSTATION to PSTN, terminator Holds and resumes call	STENTOFON IP SUBSTATION hears MOH, 2-way audio resumes	P	
6.2.72	STENTOFON IP SUBSTATION to PSTN, PSTN Holds and resumes call	STENTOFON IP SUBSTATION hears MOH, 2-way audio resumes	P	
6.2.73	STENTOFON IP SUBSTATION to PSTN, terminator Holds call to answer an incoming call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.74	STENTOFON IP SUBSTATION to PSTN, PSTN Holds call to answer an incoming call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.75	STENTOFON IP SUBSTATION to PSTN, terminator Holds to originate a second call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.76	STENTOFON IP SUBSTATION to PSTN, PSTN Holds to originate a second call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.77	STENTOFON IP SUBSTATION to PSTN, STENTOFON	PSTN hears MOH, PSTN leg properly released,	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	IP SUBSTATION Holds call, PSTN releases before retrieve	STENTOFON IP SUBSTATION unable to retrieve, STENTOFON IP SUBSTATION properly released		
6.2.78	STENTOFON IP SUBSTATION to PSTN, PSTN Holds call, End Point release before retrieve	STENTOFON IP SUBSTATION hears MOH, STENTOFON IP SUBSTATION leg properly released, PSTN unable to retrieve, PSTN properly released	P	
6.2.79	STENTOFON IP SUBSTATION to NEC PHONE. Originator Holds and resumes call	NEC PHONE hears MOH, 2-way audio resumes	P	
6.2.80	STENTOFON IP SUBSTATION to NEC PHONE. Terminator Holds and resumes call	STENTOFON IP SUBSTATION hears MOH, 2-way audio resumes	P	
6.2.81	STENTOFON IP SUBSTATION to NEC PHONE. Originator Holds call to answer an incoming call	NEC PHONE hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.82	STENTOFON IP SUBSTATION to NEC PHONE. Terminator Holds call to answer an incoming call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.83	STENTOFON IP SUBSTATION to NEC PHONE. Originator Holds to originate a second call	NEC PHONE hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.84	STENTOFON IP SUBSTATION to NEC PHONE.	STENTOFON IP SUBSTATION hears MOH, 2-way audio on	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	Terminator Holds to originate a second call	2nd call, 2nd call properly released, 2-way audio resumes		
6.2.85	STENTOFON IP SUBSTATION to NEC PHONE. Originator Holds call, Terminator releases before retrieve	NEC PHONE hears MOH, NEC PHONE leg properly released, STENTOFON IP SUBSTATION unable to retrieve, STENTOFON IP SUBSTATION properly released	P	
6.2.86	STENTOFON IP SUBSTATION to NEC PHONE. Terminator Holds call, Originator releases before retrieve	STENTOFON IP SUBSTATION hears MOH, STENTOFON IP SUBSTATION leg properly released, NEC PHONE unable to retrieve, NEC PHONE properly released	P	
6.2.87	STENTOFON IP SUBSTATION to NEC SIP. Originator Holds and resumes call	NEC SIP hears MOH, 2-way audio resumes	P	
6.2.88	STENTOFON IP SUBSTATION to NEC SIP. Terminator Holds and resumes call	STENTOFON IP SUBSTATION hears MOH, 2-way audio resumes	P	
6.2.89	STENTOFON IP SUBSTATION to NEC SIP. Originator Holds call to answer an incoming call	NEC SIP hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.90	STENTOFON IP SUBSTATION to NEC SIP. Terminator Holds call to answer an incoming call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.91	STENTOFON IP SUBSTATION to NEC SIP. Originator	NEC SIP hears MOH, 2-way audio on 2nd call, 2nd call properly	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
	Holds to originate a second call	released, 2-way audio resumes		
6.2.92	STENTOFON IP SUBSTATION to NEC SIP. Terminator Holds to originate a second call	STENTOFON IP SUBSTATION hears MOH, 2-way audio on 2nd call, 2nd call properly released, 2-way audio resumes	P	
6.2.93	STENTOFON IP SUBSTATION to NEC SIP. Originator Holds call, Terminator releases before retrieve	NEC SIP hears MOH, NEC SIP leg properly released, STENTOFON IP SUBSTATION unable to retrieve, STENTOFON IP SUBSTATION properly released	P	
6.2.94	STENTOFON IP SUBSTATION to NEC SIP. Terminator Holds call, Originator releases before retrieve	STENTOFON IP SUBSTATION hears MOH, STENTOFON IP SUBSTATION leg properly released, NEC SIP unable to retrieve, NEC SIP properly released	P	
Blind Call Transfer				
6.2.103	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to a second extension	STENTOFON IP SUBSTATION properly released, 2-way audio between STENTOFON IP SUBSTATION 2 and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.104	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator failed to transfer call to a second extension	STENTOFON IP SUBSTATION properly released, STENTOFON IP SUBSTATION 2 receives treatment, STENTOFON IP SUBSTATION 2 properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.105	STENTOFON IP SUBSTATION to STENTOFON IP	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION 2, Originator transfer to a second extension, release before answer			
6.2.106	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to a second extension	STENTOFON IP SUBSTATION 2 properly released, 2-way audio between STENTOFON IP SUBSTATION and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.107	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator failed to transfer call to a second extension	STENTOFON IP SUBSTATION 2 properly released, STENTOFON IP SUBSTATION receives treatment, STENTOFON IP SUBSTATION properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.108	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to a second extension, Originator release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.109	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to PSTN	STENTOFON IP SUBSTATION properly released, 2-way audio between STENTOFON IP SUBSTATION 2 and PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.110	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator failed to transfer call to PSTN	STENTOFON IP SUBSTATION properly released, STENTOFON IP SUBSTATION 2 receives treatment, STENTOFON IP SUBSTATION 2 properly released	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.111	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to PSTN, release before answer	All legs properly released	P	
6.2.112	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to PSTN	STENTOFON IP SUBSTATION 2 properly released, 2-way audio between STENTOFON IP SUBSTATION and PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.113	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator failed to transfer call to PSTN	STENTOFON IP SUBSTATION 2 properly released, STENTOFON IP SUBSTATION receives treatment, STENTOFON IP SUBSTATION properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.114	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to PSTN, Originator release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.115	PSTN to STENTOFON IP SUBSTATION , terminator transfer to second extension	STENTOFON IP SUBSTATION properly released, 2-way audio between PSTN and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.116	PSTN to STENTOFON IP SUBSTATION , terminator failed to transfer call	STENTOFON IP SUBSTATION properly released, PSTN receives treatment, PSTN properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.117	PSTN to STENTOFON IP SUBSTATION ,	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	terminator transfer, PSTN releases before call is answered			
6.2.118	STENTOFON IP SUBSTATION to PSTN, originator transfer to second extension	STENTOFON IP SUBSTATION properly released, 2-way audio between PSTN and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.119	STENTOFON IP SUBSTATION to PSTN, originator failed to transfer call	STENTOFON IP SUBSTATION properly released, PSTN receives treatment, PSTN properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.120	STENTOFON IP SUBSTATION to PSTN, originator transfer, PSTN releases before call is answered	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.121	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to a second extension	STENTOFON IP SUBSTATION properly released, 2-way audio between NEC PHONE and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.122	STENTOFON IP SUBSTATION to NEC PHONE, Originator failed to transfer call to a second extension	STENTOFON IP SUBSTATION properly released, NEC PHONE receives treatment, NEC PHONE properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.123	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to a second extension, release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.124	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to	NEC PHONE properly released, 2-way audio between STENTOFON IP	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
	a second extension	SUBSTATION and extension		
6.2.125	STENTOFON IP SUBSTATION to NEC PHONE, Terminator failed to transfer call to a second extension	NEC PHONE properly released, STENTOFON IP SUBSTATION receives treatment, STENTOFON IP SUBSTATION properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.126	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to a second extension, Originator release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.127	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to PSTN	STENTOFON IP SUBSTATION properly released, 2-way audio between NEC PHONE and PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.128	STENTOFON IP SUBSTATION to NEC PHONE, Originator failed to transfer call to PSTN	STENTOFON IP SUBSTATION properly released, NEC PHONE receives treatment, NEC PHONE properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.129	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to PSTN, release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.130	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to PSTN	NEC PHONE properly released, 2-way audio between STENTOFON IP SUBSTATION and PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.131	STENTOFON IP SUBSTATION to NEC PHONE,	NEC PHONE properly released, STENTOFON IP	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/Fail	Comments
	Terminator failed to transfer call to PSTN	SUBSTATION receives treatment, STENTOFON IP SUBSTATION properly released		
6.2.132	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to PSTN, Originator release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.133	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to a second extension	STENTOFON IP SUBSTATION properly released, 2-way audio between NEC SIP and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.134	STENTOFON IP SUBSTATION to NEC SIP, Originator failed to transfer call to a second extension	STENTOFON IP SUBSTATION properly released, NEC SIP receives treatment, NEC SIP properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.135	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to a second extension, release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.136	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to a second extension	NEC SIP properly released, 2-way audio between STENTOFON IP SUBSTATION and extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.137	STENTOFON IP SUBSTATION to NEC SIP, Terminator failed to transfer call to a second extension	NEC SIP properly released, STENTOFON IP SUBSTATION receives treatment, STENTOFON IP SUBSTATION properly released	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.138	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to a second extension, Originator release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.139	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to PSTN	STENTOFON IP SUBSTATION properly released, 2-way audio between NEC SIP and PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.140	STENTOFON IP SUBSTATION to NEC SIP, Originator failed to transfer call to PSTN	STENTOFON IP SUBSTATION properly released, NEC SIP receives treatment, NEC SIP properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.141	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to PSTN, release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.142	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to PSTN	NEC SIP properly released, 2-way audio between STENTOFON IP SUBSTATION and PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.143	STENTOFON IP SUBSTATION to NEC SIP, Terminator failed to transfer call to PSTN	NEC SIP properly released, STENTOFON IP SUBSTATION receives treatment, STENTOFON IP SUBSTATION properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.144	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to PSTN, Originator release before answer	All legs properly released	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.145	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to a second extension	STENTOFON IP SUBSTATION 2 receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, STENTOFON IP SUBSTATION properly released, 2-way audio STENTOFON IP SUBSTATION 2 to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.146	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator failed to transfer call to a second extension, retrieve call	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.147	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to a second extension, release before answer	STENTOFON IP SUBSTATION 2 receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.148	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to a second extension	STENTOFON IP SUBSTATION receives MOH, 2-way audio STENTOFON IP SUBSTATION 2 to extension, STENTOFON IP SUBSTATION 2 properly released, 2-way audio STENTOFON IP SUBSTATION to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.149	STENTOFON IP	STENTOFON IP	P	N/A on TURBINE, only for

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator failed to transfer call to a second extension, retrieve call	SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives treatment, call successfully retrieved with 2-way audio, failed leg properly released		IP Master Desktop
6.2.150	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to a second extension, Originator release before answer	STENTOFON IP SUBSTATION receives MOH, 2-way audio STENTOFON IP SUBSTATION 2 to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.151	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to PSTN	STENTOFON IP SUBSTATION 2 receives MOH, 2-way audio STENTOFON IP SUBSTATION to PSTN, STENTOFON IP SUBSTATION properly released, 2-way audio STENTOFON IP SUBSTATION 2 to PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.152	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator failed to transfer call to PSTN, retrieve call	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.153	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator transfer to PSTN, release before answer	STENTOFON IP SUBSTATION 2 receives MOH, 2-way audio STENTOFON IP SUBSTATION to PSTN, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.154	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to PSTN	STENTOFON IP SUBSTATION receives MOH, 2-way audio STENTOFON IP SUBSTATION 2 to PSTN, STENTOFON IP SUBSTATION 2 properly released, 2-way audio STENTOFON IP SUBSTATION to PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.155	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator failed to transfer call to PSTN, retrieve call	STENTOFON IP SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.156	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator transfer to PSTN, Originator release before answer	STENTOFON IP SUBSTATION receives MOH, 2-way audio STENTOFON IP SUBSTATION 2 to PSTN, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.157	PSTN to STENTOFON IP SUBSTATION , terminator transfer to second extension	PSTN receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, STENTOFON IP SUBSTATION properly released, 2-way audio PSTN to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.158	PSTN to STENTOFON IP SUBSTATION , terminator failed to transfer call	PSTN receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
		properly released		
6.2.159	PSTN to STENTOFON IP SUBSTATION , terminator transfer, PSTN releases before call is answered	PSTN receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.160	STENTOFON IP SUBSTATION to PSTN, originator transfer to second extension	PSTN receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, STENTOFON IP SUBSTATION properly released, 2-way audio PSTN to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.161	STENTOFON IP SUBSTATION to PSTN, originator failed to transfer call	PSTN receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.162	STENTOFON IP SUBSTATION to PSTN, originator transfer, PSTN releases before call is answered	PSTN receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.163	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to a second extension	NEC PHONE receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, STENTOFON IP SUBSTATION properly released, 2-way audio NEC PHONE to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.164	STENTOFON IP SUBSTATION to NEC PHONE,	NEC PHONE receives MOH, STENTOFON IP	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	Originator failed to transfer call to a second extension, retrieve call	SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released		
6.2.165	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to a second extension, release before answer	NEC PHONE receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.166	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to a second extension	NEC PHONE receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, STENTOFON IP SUBSTATION properly released, 2-way audio NEC PHONE to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.167	STENTOFON IP SUBSTATION to NEC PHONE, Terminator failed to transfer call to a second extension, retrieve call	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.168	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to a second extension, Originator release before answer	NEC PHONE receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.169	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to PSTN	NEC PHONE receives MOH, 2-way audio STENTOFON IP SUBSTATION to PSTN, STENTOFON IP SUBSTATION properly released, 2-way audio NEC	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
		PHONE to PSTN		
6.2.170	STENTOFON IP SUBSTATION to NEC PHONE, Originator failed to transfer call to PSTN, retrieve call	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.171	STENTOFON IP SUBSTATION to NEC PHONE, Originator transfer to PSTN, release before answer	NEC PHONE receives MOH, 2-way audio STENTOFON IP SUBSTATION to PSTN, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.172	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to PSTN	STENTOFON IP SUBSTATION receives MOH, 2-way audio NEC PHONE to PSTN, NEC PHONE properly released, 2-way audio STENTOFON IP SUBSTATION to PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.173	STENTOFON IP SUBSTATION to NEC PHONE, Terminator failed to transfer call to PSTN, retrieve call	STENTOFON IP SUBSTATION receives MOH, NEC PHONE receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.174	STENTOFON IP SUBSTATION to NEC PHONE, Terminator transfer to PSTN, Originator release before answer	STENTOFON IP SUBSTATION receives MOH, 2-way audio NEC PHONE to PSTN, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.175	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to a second	NEC SIP receives MOH, 2-way audio STENTOFON IP SUBSTATION to	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	extension	extension, STENTOFON IP SUBSTATION properly released, 2-way audio NEC SIP to extension		
6.2.176	STENTOFON IP SUBSTATION to NEC SIP, Originator failed to transfer call to a second extension, retrieve call	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.177	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to a second extension, release before answer	NEC SIP receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.178	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to a second extension	NEC SIP receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, STENTOFON IP SUBSTATION properly released, 2-way audio NEC SIP to extension	P	N/A on TURBINE, only for IP Master Desktop
6.2.179	STENTOFON IP SUBSTATION to NEC SIP, Terminator failed to transfer call to a second extension, retrieve call	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.180	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to a second extension, Originator release before answer	NEC SIP receives MOH, 2-way audio STENTOFON IP SUBSTATION to extension, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.181	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to PSTN	NEC SIP receives MOH, 2-way audio STENTOFON IP SUBSTATION to PSTN, STENTOFON IP SUBSTATION properly released, 2-way audio NEC SIP to PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.182	STENTOFON IP SUBSTATION to NEC SIP, Originator failed to transfer call to PSTN, retrieve call	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.183	STENTOFON IP SUBSTATION to NEC SIP, Originator transfer to PSTN, release before answer	NEC SIP receives MOH, 2-way audio STENTOFON IP SUBSTATION to PSTN, all call legs properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.184	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to PSTN	STENTOFON IP SUBSTATION receives MOH, 2-way audio NEC SIP to PSTN, NEC SIP properly released, 2-way audio STENTOFON IP SUBSTATION to PSTN	P	N/A on TURBINE, only for IP Master Desktop
6.2.185	STENTOFON IP SUBSTATION to NEC SIP, Terminator failed to transfer call to PSTN, retrieve call	STENTOFON IP SUBSTATION receives MOH, NEC SIP receives treatment, call successfully retrieved with 2-way audio, failed leg properly released	P	N/A on TURBINE, only for IP Master Desktop
6.2.186	STENTOFON IP SUBSTATION to NEC SIP, Terminator transfer to PSTN,	STENTOFON IP SUBSTATION receives MOH, 2-way audio NEC SIP to	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
	Originator release before answer	PSTN, all call legs properly released		
3-Way Conference				
6.2.187	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator is the bridge	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.188	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator failed to bridged call to a STENTOFON IP SUBSTATION 3, retrieve call	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.189	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator is the bridge, Terminator release before answer	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives ring back, STENTOFON IP SUBSTATION 2 properly released, 2-way audio STENTOFON IP SUBSTATION – STENTOFON IP SUBSTATION 3 after answer	P	
6.2.190	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator is the bridge, Originator cancel 3 way call, retrieve original call	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives ring back, call successfully retrieved with 2-way audio	P	
6.2.191	STENTOFON IP SUBSTATION to STENTOFON IP	STENTOFON IP SUBSTATION receives MOH,	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION 2, Terminator is the bridge	STENTOFON IP SUBSTATION 2 receives ring back, 3-way audio		
6.2.192	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator failed to bridged call, retrieve original call	STENTOFON IP SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives treatment, call successfully retrieved with 2-way audio	P	
6.2.193	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator bridged to a STENTOFON IP SUBSTATION 3, Originator releases before answer	STENTOFON IP SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives ring back, STENTOFON IP SUBSTATION properly released, 2-way audio STENTOFON IP SUBSTATION 2 – STENTOFON IP SUBSTATION 3 after answer	P	
6.2.194	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator bridge to PSTN	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.195	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Originator failed to bridge call to PSTN, retrieve call	STENTOFON IP SUBSTATION 2 receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.196	STENTOFON IP SUBSTATION to STENTOFON IP	STENTOFON IP SUBSTATION 2 receives MOH,	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION 2, Originator bridge to PSTN, terminator releases before answer	STENTOFON IP SUBSTATION receives ring back, STENTOFON IP SUBSTATION 2 properly released, 2-way audio STENTOFON IP SUBSTATION – PSTN after answer		
6.2.197	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator bridge to PSTN	STENTOFON IP SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives ring back, 3-way audio	P	
6.2.198	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator failed to bridge call to PSTN, retrieve call	STENTOFON IP SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives treatment, call successfully retrieved with 2-way audio	P	
6.2.199	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Terminator bridge to PSTN, Originator release before answer	STENTOFON IP SUBSTATION receives MOH, STENTOFON IP SUBSTATION 2 receives ring back, STENTOFON IP SUBSTATION properly released, 2-way audio STENTOFON IP SUBSTATION 2 – PSTN after answer	P	
6.2.200	PSTN to STENTOFON IP SUBSTATION , terminator bridge to STENTOFON IP SUBSTATION 2	PSTN receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.201	PSTN to STENTOFON IP	PSTN receives MOH, STENTOFON IP	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION , terminator failed to bridge call	SUBSTATION receives treatment, call successfully retrieved with 2-way audio		
6.2.202	PSTN to STENTOFON IP SUBSTATION , terminator attempt to bridge, PSTN releases before call is answered	PSTN receives MOH, STENTOFON IP SUBSTATION receives ring back, PSTN properly released, 2-way audio STENTOFON IP SUBSTATION – STENTOFON IP SUBSTATION 2 after answer	P	
6.2.203	STENTOFON IP SUBSTATION to PSTN, originator bridge to STENTOFON IP SUBSTATION 2	PSTN receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.204	STENTOFON IP SUBSTATION to PSTN, originator failed to bridge call	PSTN receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.205	STENTOFON IP SUBSTATION to PSTN, originator attempts to bridge call, PSTN releases before call is answered	PSTN receives MOH, STENTOFON IP SUBSTATION receives ring back, PSTN properly released, 2-way audio STENTOFON IP SUBSTATION – STENTOFON IP SUBSTATION 2 after answer	P	
6.2.206	STENTOFON IP SUBSTATION to NEC PHONE, Originator is the bridge	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.207	STENTOFON IP SUBSTATION to NEC PHONE, Originator failed to bridged call to a STENTOFON IP SUBSTATION 2, retrieve call	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.208	STENTOFON IP SUBSTATION to NEC PHONE, Originator is the bridge, Terminator release before answer	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives ring back, NEC PHONE properly released, 2-way audio STENTOFON IP SUBSTATION – STENTOFON IP SUBSTATION 2 after answer	P	
6.2.209	STENTOFON IP SUBSTATION to NEC PHONE, Originator is the bridge, Originator cancel 3 way call, retrieve original call	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives ring back, call successfully retrieved with 2-way audio	P	
6.2.210	STENTOFON IP SUBSTATION to NEC PHONE, Terminator is the bridge	STENTOFON IP SUBSTATION receives MOH, NEC PHONE receives ring back, 3-way audio	P	
6.2.211	STENTOFON IP SUBSTATION to NEC PHONE, Terminator failed to bridged call, retrieve original call	STENTOFON IP SUBSTATION receives MOH, NEC PHONE receives treatment, call successfully retrieved with 2-way audio	P	
6.2.212	STENTOFON IP SUBSTATION to NEC PHONE, Terminator bridged to a STENTOFON IP	STENTOFON IP SUBSTATION receives MOH, NEC PHONE receives ring back, STENTOFON	P	

Test Case	Description	Expected Result	Pass/Fail	Comments
	SUBSTATION 2, Originator releases before answer	IP SUBSTATION properly released, 2-way audio NEC PHONE – STENTOFON IP SUBSTATION 2 after answer		
6.2.213	STENTOFON IP SUBSTATION to NEC PHONE, Originator bridge to PSTN	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.214	STENTOFON IP SUBSTATION to NEC PHONE, Originator failed to bridge call to PSTN, retrieve call	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.215	STENTOFON IP SUBSTATION to NEC PHONE, Originator bridge to PSTN, terminator releases before answer	NEC PHONE receives MOH, STENTOFON IP SUBSTATION receives ring back, NEC PHONE properly released, 2-way audio STENTOFON IP SUBSTATION – PSTN after answer	P	
6.2.216	STENTOFON IP SUBSTATION to NEC PHONE, Terminator bridge to PSTN	STENTOFON IP SUBSTATION receives MOH, NEC PHONE receives ring back, 3-way audio	P	
6.2.217	STENTOFON IP SUBSTATION to NEC PHONE, Terminator failed to bridge call to PSTN, retrieve call	STENTOFON IP SUBSTATION receives MOH, NEC PHONE receives treatment, call successfully retrieved with 2-way audio	P	
6.2.218	STENTOFON IP SUBSTATION to	STENTOFON IP SUBSTATION	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	NEC PHONE, Terminator bridge to PSTN, Originator release before answer	receives MOH, NEC PHONE receives ring back, STENTOFON IP SUBSTATION properly released, 2-way audio NEC PHONE – PSTN after answer		
6.2.219	STENTOFON IP SUBSTATION to NEC SIP, Originator is the bridge	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.220	STENTOFON IP SUBSTATION to NEC SIP, Originator failed to bridged call to a STENTOFON IP SUBSTATION 3, retrieve call	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.221	STENTOFON IP SUBSTATION to NEC SIP, Originator is the bridge, Terminator release before answer	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives ring back, NEC SIP properly released, 2-way audio STENTOFON IP SUBSTATION – STENTOFON IP SUBSTATION 2 after answer	P	
6.2.222	STENTOFON IP SUBSTATION to NEC SIP, Originator is the bridge, Originator cancel 3 way call, retrieve original call	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives ring back, call successfully retrieved with 2-way audio	P	
6.2.223	STENTOFON IP SUBSTATION to NEC SIP, Terminator is the bridge	STENTOFON IP SUBSTATION receives MOH, NEC SIP receives ring back, 3-way audio	P	
6.2.224	STENTOFON IP SUBSTATION to NEC SIP, Terminator	STENTOFON IP SUBSTATION receives MOH, NEC	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
	failed to bridged call, retrieve original call	SIP receives treatment, call successfully retrieved with 2-way audio		
6.2.225	STENTOFON IP SUBSTATION to NEC SIP, Terminator bridged to a STENTOFON IP SUBSTATION 3, Originator releases before answer	STENTOFON IP SUBSTATION receives MOH, NEC SIP receives ring back, STENTOFON IP SUBSTATION properly released, 2-way audio NEC SIP – STENTOFON IP SUBSTATION 2 after answer	P	
6.2.226	STENTOFON IP SUBSTATION to NEC SIP, Originator bridge to PSTN	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives ring back, 3-way audio	P	
6.2.227	STENTOFON IP SUBSTATION to NEC SIP, Originator failed to bridge call to PSTN, retrieve call	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives treatment, call successfully retrieved with 2-way audio	P	
6.2.228	STENTOFON IP SUBSTATION to NEC SIP, Originator bridge to PSTN, terminator releases before answer	NEC SIP receives MOH, STENTOFON IP SUBSTATION receives ring back, NEC SIP properly released, 2-way audio STENTOFON IP SUBSTATION – PSTN after answer	P	
6.2.229	STENTOFON IP SUBSTATION to NEC SIP, Terminator bridge to PSTN	STENTOFON IP SUBSTATION receives MOH, NEC SIP receives ring back, 3-way audio	P	
6.2.230	STENTOFON IP SUBSTATION to NEC SIP, Terminator failed to bridge call to	STENTOFON IP SUBSTATION receives MOH, NEC SIP receives treatment, call	P	

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	PSTN, retrieve call	successfully retrieved with 2-way audio		
6.2.231	STENTOFON IP SUBSTATION to NEC SIP, Terminator bridge to PSTN, Originator release before answer	STENTOFON IP SUBSTATION receives MOH, NEC SIP receives ring back, STENTOFON IP SUBSTATION properly released, 2-way audio NEC SIP – PSTN after answer	P	
Calling Line Identification				
6.2.232	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.233	STENTOFON IP SUBSTATION to NEC PHONE, Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.234	STENTOFON IP SUBSTATION to NEC SIP, Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.235	NEC SIP to STENTOFON IP SUBSTATION 2, Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.236	NEC PHONE to STENTOFON IP SUBSTATION 2, Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.237	STENTOFON IP SUBSTATION to PSTN, Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.238	PSTN to STENTOFON IP SUBSTATION , Calling Line identification type I	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.239	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Type II on terminator, call in progress between two end points	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.240	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Type II on originator, call in progress between two end points	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.241	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Type II on originator, call in progress between End point and PSTN	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.242	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Type II on terminator, call in progress between PSTN and End point	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.243	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Calling Line identification type I Restricted	Calling Line ID *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.244	STENTOFON IP	Calling Line ID *not*	P	N/A on TURBINE, only for

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION to NEC PHONE, Calling Line identification type I Restricted	presented at terminator		IP Master Desktop
6.2.245	STENTOFON IP SUBSTATION to NEC SIP, Calling Line identification type I Restricted	Calling Line ID *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.246	NEC SIP to STENTOFON IP SUBSTATION 2, Calling Line identification type I Restricted	Calling Line ID *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.247	NEC PHONE to STENTOFON IP SUBSTATION 2, Calling Line identification type I Restricted	Calling Line ID *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.248	Multiline STENTOFON IP SUBSTATION (single line presented, others not) to STENTOFON IP SUBSTATION Line Presented (Calling party)	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.249	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Name Presented (Calling Party)	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.250	Multiline STENTOFON IP SUBSTATION (single line presented, others	Calling Line ID and Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop

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Test Case	Description	Expected Result	Pass/ Fail	Comments
	not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION line and Name Presented (Calling Party)			
6.2.251	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Line restricted (Calling Party)	Calling Line ID *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.252	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Name restricted (Calling Party)	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.253	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Line and Name restricted (Calling Party)	Calling Line ID and Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop
6.2.254	Call Forward (STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, forwarded to STENTOFON IP SUBSTATION 3)	Calling Line ID presented at STENTOFON IP SUBSTATION 3	P	N/A on TURBINE, only for IP Master Desktop

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.255	Call Transfer (STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, originator transfer to STENTOFON IP SUBSTATION 3)	Calling Line ID presented at STENTOFON IP SUBSTATION 3	P	N/A on TURBINE, only for IP Master Desktop
6.2.256	Call Transfer (STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, terminator transfer to STENTOFON IP SUBSTATION 3)	Calling Line ID presented at STENTOFON IP SUBSTATION 3	P	N/A on TURBINE, only for IP Master Desktop
6.2.257	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Calling Party Name	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.258	STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, Calling Party Name Restricted	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.259	STENTOFON IP SUBSTATION to NEC PHONE, Calling Party Name	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.260	STENTOFON IP SUBSTATION to NEC PHONE, Calling Party Name Restricted	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.261	STENTOFON IP SUBSTATION to NEC SIP, Calling	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX

Test Case	Description	Expected Result	Pass/ Fail	Comments
	Party Name			phonebook, and not in STENTOFON Configuration.
6.2.262	STENTOFON IP SUBSTATION to NEC SIP, Calling Party Name Restricted	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.263	NEC PHONE to STENTOFON IP SUBSTATION , Calling Party Name	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.264	NEC PHONE to STENTOFON IP SUBSTATION , Calling Party Name Restricted	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.265	NEC SIP to STENTOFON IP SUBSTATION , Calling Party Name	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.266	NEC SIP to STENTOFON IP SUBSTATION , Calling Party Name Restricted	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.267	STENTOFON IP SUBSTATION to PSTN, Calling Party Name	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.268	PSTN to STENTOFON IP SUBSTATION , Calling Party Name	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON

Test Case	Description	Expected Result	Pass/Fail	Comments
				Configuration.
6.2.269	Multiline STENTOFON IP SUBSTATION (single line presented, others not) to STENTOFON IP SUBSTATION Line Presented (Calling party)	Calling Line ID presented at terminator	P	N/A on TURBINE, only for IP Master Desktop.
6.2.270	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Name Presented (Calling Party)	Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.271	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION line and Name Presented (Calling Party)	Calling Line ID and Calling Name presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.272	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Line restricted (Calling Party)	Calling Line ID *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop.
6.2.273	Multiline STENTOFON IP SUBSTATION (single line	Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in

Test Case	Description	Expected Result	Pass/ Fail	Comments
	presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Name restricted (Calling Party)			STENTOFON Configuration.
6.2.274	Multiline STENTOFON IP SUBSTATION (single line presented, others not) STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION Line and Name restricted (Calling Party)	Calling Line ID and Calling Name *not* presented at terminator	P	N/A on TURBINE, only for IP Master Desktop.
6.2.275	Call Forward (STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, forwarded to STENTOFON IP SUBSTATION 3)	Calling Name presented at STENTOFON IP SUBSTATION 3	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.276	Call Transfer (STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, originator transfer to STENTOFON IP SUBSTATION 3)	Calling Name presented at STENTOFON IP SUBSTATION 3	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.
6.2.277	Call Transfer (STENTOFON IP SUBSTATION to STENTOFON IP SUBSTATION 2, terminator transfer to STENTOFON IP SUBSTATION 3)	Calling Name presented at STENTOFON IP SUBSTATION 3	P	N/A on TURBINE, only for IP Master Desktop. Name displayed is defined in iPBX phonebook, and not in STENTOFON Configuration.

Test Case	Description	Expected Result	Pass/ Fail	Comments
Multiple Lines per Phone				
Call Forking				
Message Waiting Indicator				
Speed Dial				
6.2.305	Speed dial max digits (25)	INVITE sent with all 25 digits	P	
6.2.306	Configure and use a speed dial assigned to a 25 digit number, with external access number prefix (9).	INVITE sent with all digits	P	
6.2.307	Speed dial min digits (4 digit ext):	INVITE sent with all digits	P	
6.2.308	Configure and use a speed dial to a 4 digit number	INVITE sent with all digits	P	
6.2.309	Speed dial no entry	Call does not originate	P	
6.2.310	Max Speed dial entries. Use first and last entries, and one other	All speed dial entries populated and usable	P	
6.2.311	Exceed Max Speed Dial entries.	Entry n+1 rejected, all other entries remain intact and usable	P	
6.2.312	Re-assign existing speed dial to new number (25 digit to 4 digit)	Number successfully changed and usable	P	
6.2.313	Delete Speed Dial Entry.	Number no longer usable. Remaining entries unchanged.	P	
6.2.314	Reset phone	Speed dial configuration persists through reset	P	
6.2.315	Power cycle phone	Speed dial configuration persists	P	

Test Case	Description	Expected Result	Pass/ Fail	Comments
		through power cycle		
Ring List Functionality				
6.2.316	STENTOFON IP SUBSTATION 1 calls NEC PHONE, no answer from NEC PHONE, answer the call from STENTOFON IP SUBSTATION 2. Receiver releases the call Answer the call in the order NEC PHONE/ STENTOFON IP SUBSTATION while testing	2-way audio on the answered call. All other calls properly released. The answered call is released properly.	P	Ring list Function: Set up the input 1 button to use Ring list 1 under the menu SIP Configuration->Direct Access key Settings->Option on input1 Setup Directory numbers for NEC PHONE as value 1, STENTOFON IP SUBSTATION 2 as value 2, NEC SIP as value 3 Enable the flag "Call Until Answer" Set the "Ringing time" to 10 sec or desired time in seconds
6.2.317	STENTOFON IP SUBSTATION 1 calls NEC PHONE, no answer from NEC PHONE, answer the call from STENTOFON IP SUBSTATION 2. Originator releases the call	2-way audio on the answered call. All other calls properly released. The answered call is released properly.	P	
6.2.318	STENTOFON IP SUBSTATION 1 calls NEC PHONE, no answer from NEC PHONE and STENTOFON IP SUBSTATION 2, answer the call from NEC SIP. Release the call from receiver. Answer the call in the order NEC PHONE/ STENTOFON IP SUBSTATION 2/NEC SIP while testing	NEC PHONE and STENTOFON IP SUBSTATION 2 ring simultaneous. The call NOT answered is properly released. The answered call is released properly	P	With Previous" flag under Ring list 1 for value 2 and save
6.2.319	STENTOFON IP SUBSTATION 1 calls	STENTOFON IP SUBSTATION 2 and	P	Ring list Function: Set up the input 1 button to use

Test Case	Description	Expected Result	Pass/ Fail	Comments
	NEC PHONE, no answer from NEC PHONE and STENTOFON IP SUBSTATION 2, answer the call from NEC SIP. Release the call from Originator. Answer the call in the order NEC PHONE/ STENTOFON IP SUBSTATION 2/NEC SIP while testing	NEC SIP ring simultaneous. The call NOT answered is properly released. The answered call is released properly		Ring list 1 under the menu SIP Configuration->Direct Access key Settings->Option on input1 Setup Directory numbers for NEC PHONE as value 1, STENTOFON IP SUBSTATION 2 as value 2, NEC SIP as value 3 Enable the flag "Call Until Answer" Set the "Ringing time" to 10 sec or desired time in seconds With Previous" flag under Ring list 2 for value 3 and save
6.2.320	STENTOFON IP SUBSTATION 1 calls NEC PHONE, no answer from NEC PHONE and STENTOFON IP SUBSTATION 2, answer the call from PSTN. Release the call from Originator. Answer the call in the order NEC PHONE/ STENTOFON IP SUBSTATION 2/PSTN while testing	STENTOFON IP SUBSTATION 2 and PSTN ring simultaneous. The call NOT answered is properly released. The answered call is released properly	P	Ring list Function: Set up the input 1 button to use Ring list 1 under the menu SIP Configuration->Direct Access key Settings->Option on input1 Setup Directory numbers for NEC PHONE as value 1, STENTOFON IP SUBSTATION 2 as value 2, PSTN as value 3 Enable the flag "Call Until Answer" Set the "Ringing time" to 10 sec or desired time in seconds With Previous" flag under Ring list 2 for value 3 and save
6.2.321	STENTOFON IP SUBSTATION 1 calls NEC PHONE, no answer from NEC PHONE and STENTOFON IP SUBSTATION 2, answer the call from PSTN. Release the	NEC PHONE and STENTOFON IP SUBSTATION 2 ring simultaneous. The call NOT answered is properly released. The answered call is	P	Ring list Function: Set up the input 1 button to use Ring list 1 under the menu SIP Configuration->Direct Access key Settings->Option on input1 Setup Directory numbers for NEC PHONE as value 1, STENTOFON IP

Test Case	Description	Expected Result	Pass/ Fail	Comments
	call from terminator. Answer the call in the order NEC PHONE/ STENTOFON IP SUBSTATION 2/PSTN while testing	released properly		SUBSTATION 2 as value 2, PSTN as value 3 Enable the flag "Call Until Answer" Set the "Ringing time" to 10 sec or desired time in seconds With Previous" flag under Ring list 1 for value 2 and save
Auto Answer				
6.2.322	NEC PHONE calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered instantly and automatically. The audio is 2-way on the call. The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode Check the Answer mode flag in SIP Setting-> Call Settings
6.2.323	NEC PHONE calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered after 3 seconds automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode with time delay specified to 3 seconds Set 3 as value in SIP Setting-> Call Settings->Auto Answer Delay
6.2.324	NEC PHONE calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered manually by pressing button on STENTOFON IP SUBSTATION. The Audio is 2-way on the call. The call is properly released	P	STENTOFON IP SUBSTATION in manual answer mode Uncheck the answer mode flag in SIP Setting-> Call Settings
6.2.325	NEC PHONE calls STENTOFON IP SUBSTATION 1. Release the call from receiver	The call is answered instantly and automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode Check the Answer mode flag in SIP Setting-> Call Settings

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.2.326	NEC PHONE calls STENTOFON IP SUBSTATION 1. Release the call from receiver	The call is answered after 3 seconds automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode with time delay specified to 3 seconds Set 3 as value in SIP Setting-> Call Settings->Auto Answer Delay
6.2.327	NEC PHONE calls STENTOFON IP SUBSTATION 1. Release the call from receiver	The call is answered manually by pressing button on STENTOFON IP SUBSTATION. The Audio is 2-way on the call. The call is properly released	P	STENTOFON IP SUBSTATION in manual answer mode Uncheck the answer mode flag in SIP Setting-> Call Settings
6.2.328	NEC SIP calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered instantly and automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode Check the Answer mode flag in SIP Setting-> Call Settings
6.2.329	NEC SIP calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered after 3 seconds automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode with time delay specified to 3 seconds Set 3 as value in SIP Setting-> Call Settings->Auto Answer Delay
6.2.330	NEC SIP calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered manually by pressing button on STENTOFON IP SUBSTATION. The Audio is 2-way on the call. The call is properly released	P	STENTOFON IP SUBSTATION in manual answer mode Uncheck the answer mode flag in SIP Setting-> Call Settings
6.2.331	NEC SIP calls STENTOFON IP	The call is answered instantly and	P	STENTOFON IP SUBSTATION in Auto

Test Case	Description	Expected Result	Pass/ Fail	Comments
	SUBSTATION 1. Release the call from terminator	automatically. The audio is 2-way on the call. The call is properly released		answer mode Check the Answer mode flag in SIP Setting-> Call Settings
6.2.332	NEC SIP calls STENTOFON IP SUBSTATION 1. Release the call from terminator	The call is answered after 3 seconds automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode with time delay specified to 3 seconds Set 3 as value in SIP Setting-> Call Settings->Auto Answer Delay
6.2.333	NEC SIP calls STENTOFON IP SUBSTATION 1. Release the call from terminator	The call is answered manually by pressing button on STENTOFON IP SUBSTATION. The Audio is 2-way on the call. The call is properly released	P	STENTOFON IP SUBSTATION in manual answer mode Uncheck the answer mode flag in SIP Setting-> Call Settings
6.2.334	PSTN calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered instantly and automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode Check the Answer mode flag in SIP Setting-> Call Settings
6.2.335	PSTN calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered after 3 seconds automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode with time delay specified to 3 seconds Set 3 as value in SIP Setting-> Call Settings->Auto Answer Delay
6.2.336	PSTN calls STENTOFON IP SUBSTATION 1. Release the call from originator	The call is answered manually by pressing button on STENTOFON IP SUBSTATION. The Audio is 2-way	P	STENTOFON IP SUBSTATION in manual answer mode Uncheck the answer mode flag in SIP Setting-> Call Settings

Test Case	Description	Expected Result	Pass/ Fail	Comments
		on the call. The call is properly released		
6.2.337	PSTN calls STENTOFON IP SUBSTATION 1. Release the call from terminator	The call is answered instantly and automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode Check the Answer mode flag in SIP Setting-> Call Settings
6.2.338	PSTN calls STENTOFON IP SUBSTATION 1. Release the call from terminator	The call is answered after 3 seconds automatically. The audio is 2-way on the call The call is properly released	P	STENTOFON IP SUBSTATION in Auto answer mode with time delay specified to 3 seconds Set 3 as value in SIP Setting-> Call Settings->Auto Answer Delay
6.2.339	PSTN calls STENTOFON IP SUBSTATION 1. Release the call from terminator	The call is answered manually by pressing button on STENTOFON IP SUBSTATION. The Audio is 2-way on the call. The call is properly released	P	STENTOFON IP SUBSTATION in manual answer mode Uncheck the answer mode flag in SIP Setting-> Call Settings
Activation Of Relay				
6.2.340	NEC PHONE call STENTOFON IP SUBSTATION 1. Press digit 6 on the NEC PHONE keypad during connection. Release the call.	Verify the relay is activated on the STENTOFON IP SUBSTATION for 3 seconds. ("click" sound is heard twice on STENTOFON IP SUBSTATION) Alternatively connect LED to relay output according to STENTOFON IP SUBSTATION manual	P	Activating relay by DTMF Configured DTMF for RFC2833 Set digit 6 to activate relay Set the SIP Settings->"Remote Digit for Timed Relay On" on to digit 6 Set the value 3 in SIP Settings-> "Timed Relay Duration" The NEC PHONE is set to send RFC2833 as DTMF STENTOFON IP

Test Case	Description	Expected Result	Pass/ Fail	Comments
				SUBSTATION to receive RFC 2833 by set the dropdown option under SIP Settings->Call Settings->DTMF Method to "RFC 2833"
6.2.341	NEC SIP call STENTOFON IP SUBSTATION 1. Press digit 6 on the NEC SIP keypad during connection. Release the call.	Verify the relay is activated on the STENTOFON IP SUBSTATION for 3 seconds. ("click" sound is heard twice on STENTOFON IP SUBSTATION) Alternatively connect LED to relay output according to STENTOFON IP SUBSTATION manual	P	Activating relay by DTMF Configured DTMF for RFC2833 Set digit 6 to activate relay Set the SIP Settings->"Remote Digit for Timed Relay On" on to digit 6 Set the value 3 in SIP Settings-> "Timed Relay Duration" The NEC PHONE is set to send RFC2833 as DTMF STENTOFON IP SUBSTATION to receive RFC 2833 by set the dropdown option under SIP Settings->Call Settings->DTMF Method to "RFC 2833"
6.2.342	NEC PHONE call DUT1. Press digit 6 on the NEC PHONE keypad during connection. Release the call.	Verify the relay is activated on the DUT for 3 seconds. ("click" sound is heard twice on DUT) Alternatively connect LED to relay output according to DUT manual	P	Activating relay by DTMF Configured DTMF for SIP INFO Set digit 6 to activate relay Set the SIP Settings->"Remote Digit for Timed Relay On" on to digit 6 Set the value 3 in SIP Settings-> "Timed Relay Duration" The NEC PHONE is set to send SIP IFO as DTMF

Test Case	Description	Expected Result	Pass/ Fail	Comments
				DUT to receive SPI INFO by set the dropdown option under SIP Settings->Call Settings->DTMF Method to "SIP INFO"
6.2.343	NEC SIP call DUT1. Press digit 6 on the NEC SIP keypad during connection. Release the call.	Verify the relay is activated on the DUT for 3 seconds. ("click" sound is heard twice on DUT) Alternatively connect LED to relay output according to DUT manual	P	Activating relay by DTMF Configured DTMF for SIP INFO Set digit 6 to activate relay Set the SIP Settings->"Remote Digit for Timed Relay On" on to digit 6 Set the value 3 in SIP Settings-> "Timed Relay Duration" The NEC PHONE is set to send SIP IFO as DTMF DUT to receive SPI INFO by set the dropdown option under SIP Settings->Call Settings->DTMF Method to "SIP INFO"
6.2.344	PSTN call DUT1. Press digit 6 on the PSTN keypad during connection. Release the call.	Verify the relay is activated on the DUT for 3 seconds. ("click" sound is heard twice on DUT) Alternatively connect LED to relay output according to DUT manual	P	Activating relay by DTMF Configured DTMF for RFC2833 Set digit 6 to activate relay Set the SIP Settings->"Remote Digit for Timed Relay On" on to digit 6 Set the value 3 in SIP Settings-> "Timed Relay Duration" The NEC PHONE is set to send SIP IFO as

Test Case	Description	Expected Result	Pass/ Fail	Comments
				DTMF

DUT to receive SPI INFO by set the dropdown option under SIP Settings->Call Settings->DTMF Method to "SIP INFO" |
| 6.2.345 | PSTN call DUT1. Press digit 6 on the PSTN keypad during connection. Release the call. | Verify the relay is activated on the DUT for 3 seconds.

("click" sound is heard twice on DUT)

Alternatively connect LED to relay output according to DUT manual | P | Activating relay by DTMF

Configured DTMF for SIP INFO

Set digit 6 to activate relay

Set the SIP Settings->"Remote Digit for Timed Relay On" on to digit 6

Set the value 3 in SIP Settings-> "Timed Relay Duration"

The NEC PHONE is set to send SIP IFO as DTMF

DUT to receive SPI INFO by set the dropdown option under SIP Settings->Call Settings->DTMF Method to "SIP INFO" |

6.3   System Control and Verification

These tests are executed to determine the impact on calls, the Communications Manager and the 3rd party application when combinations of the aforementioned fail by power failure or network connectivity problems. Testing robustness of the application through hardware and software fault insertion i.e. failover/failback.

Test Case	Description	Expected Result	Pass/ Fail	Comments
Registration and Digest Authentication (Basic)				
6.3.1	STENTOFON IP SUBSTATION Authenticated on Registration (name only) (Positive)	STENTOFON IP SUBSTATION registers successfully	P	
6.3.2	STENTOFON IP SUBSTATION Authenticated on Registration (name Only) (Negative)	STENTOFON IP SUBSTATION registration rejected, retries	P	
6.3.3	STENTOFON IP SUBSTATION Authenticated on Registration (name and password) (Positive)	STENTOFON IP SUBSTATION registers successfully	P	
6.3.4	STENTOFON IP SUBSTATION Authenticated on Registration (name and password) (Negative)	STENTOFON IP SUBSTATION registration rejected, retries	P	
6.3.5	STENTOFON IP SUBSTATION Authenticated on Origination	STENTOFON IP SUBSTATION resends INVITE with Authorization header, successfully originates call	P	
6.3.6	STENTOFON IP SUBSTATION Re-Registers before Registration Time Expires	Re-registration successful, STENTOFON IP SUBSTATION can originate calls	P	
6.3.7	STENTOFON IP SUBSTATION Responds to Keep-Alive	STENTOFON IP SUBSTATION maintains registration	P	
6.3.8	Restart STENTOFON IP SUBSTATION phone remotely	STENTOFON IP SUBSTATION restarts and registers successfully	P	Through Stentofon stationWeb

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.3.9	STENTOFON IP SUBSTATION Multiline registration	All lines register successfully and can originate calls	N/A	
6.3.10	Loses network connection then re-connected	STENTOFON IP SUBSTATION can originate calls after registration	P	

6.4   Negative Tests

These tests are executed to determine the impact on calls, the IPBX and the 3rd party application when combinations of the aforementioned fail by power failure or network connectivity problems. Testing robustness of the application through hardware and software fault insertion i.e. failover/failback.

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.4.1	Publisher outage: place station-to-station call, isolate Publisher (disconnect network cable), place one more station-to-station call, reconnect Publisher network cable, place another station-to-station call.	Confirm all calls are completed.	F	Calls are dropped
6.4.2	Subscriber Outage: place station-to-station call, isolate Subscriber (disconnect network cable), place one more station-to-station call, reconnect Subscriberr network cable, place another station-to-station call	Confirm all calls are completed.	F	Calls are dropped

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.4.3	DUT1 calls NEC PHONE, no answer from NEC PHONE and DUT2, call forwarded to an unknown NEC SIP Release the call from originator.	2-way audio on the answered call. Held calls All other calls properly released. The answered call is released properly.	P	Ring list Function Set up the input 1 button to use Ring list 1 under the menu SIP Configuration->Direct Access key Settings->Option on input1 Setup Directory numbers for NEC PHONE as value 1, DUT2 as value 2, NEC SIP as value 3 an unknown number. Enable the flag "Call Until Answer" Set the "Ringing time" to 10 sec or desired time in seconds

6.5 Informational **Tests**

These tests are executed to verify specific information about the third-party product to NEC. This is in relation to the IVT Questionnaire supplied by the vendor. *Test cases in this section will be selected or modified to reflect attributes of the device under test. Standard examples are:*

Test Case	Description	Expected Result	Pass/ Fail	Comments
Voice Codec Support				
6.5.1	G.711 µ-law		P	
6.5.2	G.711 A-law		P	
6.5.3	G.722		P	
6.5.4	G.723		F	Not supported on STENTOFON side
6.5.5	G.729		F	Not supported on STENTOFON side

Test Case	Description	Expected Result	Pass/ Fail	Comments
6.5.5	Packetization period		P	20ms
6.5.6	Codec negotiation		P	
6.5.7	Mid-call codec renegotiation		N/A	
General Phone Functions				
6.5.8	Phone display (missed calls, called numbers, received calls)		F	Missed calls not visible
6.5.9	All visible buttons and soft keys function as labeled		P	
6.5.10	User configuration options		P	
General Dial Services				
6.5.11	Redial simple		N/A	
6.5.12	Last Call Return		N/A	

31/01/2013

7 Annotations:

- If DTMF are sent from STENTOFON Station to 3C Softswitch, this must be done using RFC2833.
- Call transfer (from IP Master Desktop) is only possible using "BLIND TRANSFER" feature. ATTENDED TRANSFER is not supported from IP Master Desktop.
- Registration towards NEC 3C platform is only possible if User Agent is defined in 3C configuration. STENTOFON IP Station (including Turbine) UA is fixed and value is "Zenitel IPSTATION" (case sensitive).
- TURBINE station has no VLAN configuration menu. In some customer network scenarios this could be a limitation. IP Master Station and IP Substation web configuration has VLAN menu.
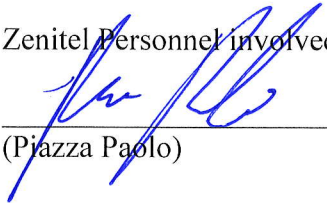
8   Test result:

Performed tests results were generally positive.
No issues found.
Compatibility and interoperability between NEC Platforms/IP Phones and STENTOFON
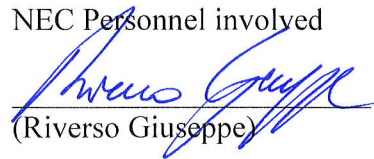IP Station/Substation is certified.

FINAL ACCEPTANCE

Zenitel Personnel involved

_____
(Piazza Paolo)

NEC Personnel involved

_____
(Riverso Giuseppe)