



SIP Access Device

Interoperability Test Report

Sonus SBC 1000, Sonus SBC 2000 Release 20.0 Document Version 1.2

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BroadWorks® Guide

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Document Revision History

Version	Reason for Change	Date
1.1	Introduced document for Release 20.0.	January 2014
1.2	Edited changes and published document.	February 2014



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1 Product Versions

Access Device under Test : Sonus SBC 1000, Sonus SBC 2000

Access Device Type : IAD

Access Device Version : 4.1.0 build 15

BroadWorks Version : R20.0

Completion Date : September 30, 2014

Completed By (Name) : Kris Nostrand

Completed By (Company) : Sonus



2 Test Summary

 Executed:
 71

 Passed:
 71

 Failed:
 0

 NA:
 1

 NS:
 75

 NT:
 7



3 Test Failure Description

List each test case that fails. Provide analysis for what is causing the test failure. Collect and cite a network trace or log that captures the failure scenario. Each test case marked **Fail** should be documented here.

Example:

1) (Test ##) Codec Renegotiation: DUT does not send OFFER SDP in response to RE-INVITE without SDP. See ethereal trace test##.cap.



4 Features Not Supported

List each feature that is not supported, along with tests that cannot be executed as a result. Each test case marked **NS** in the test report should be documented here.

Example:

- 1) (Test 22) DUT Sends Early UPDATE
- 2) (Tests 23 24) Early Session
- 3) (Test 35) DTMF Relay
- 4) (Tests 47 51) Message Waiting Indicator
- 5) (Tests 53 57) Advanced Alerting
- 6) (Test 60) Calling Name with Unicode Characters
- 7) (Tests 61 67) Connected Line ID
- 8) (Tests 72 75) Advice of Charge
- 9) (Test 77) Meet-Me Conference G722
- 10) (Test 78) Meet-Me Conference AMR-WB
- 11) (Tests 82 84) DUT Services Call Transfer
- 12) (Tests 84 86) DUT Services Three Way Call
- 13) (Test 87 88) DUT Services Network Based Conference
- 14) (Test 94) DUT Services Authenticating BroadWorks Invite
- 15) (Tests 102-105) DUT Services Emergency Call
- 16) (Tests 106 111) DUT Services Miscellaneous Features
- 17) (Tests 127 154) IPv6



5 Anomalies Not Causing Test Failure

List any events/scenarios that do not cause a specific test failure but are otherwise anomalous. This may include unusual or undesirable behavior of the DUT.

Example:

1) DUT line lamp periodically stays lit (active) after call has been hung up.



6 Test Notes

List test cases that were not executed and why, as well as any limitations or conditions that influenced the testing. Each test case marked **NT** in the test report should be documented here.

Example:

1) (Tests 112 - 118) Redundancy Package – Awaiting Testing



7 Test Results

Complete the test report by marking an "X" in the appropriate column: **Pass**, **Fail**, **NA** (Not Applicable), **NS** (Not Supported), **NT** (Supported but Not Tested).

Tes	t Case Title	Priority	Pass	Fail	NA	NS	NT
Ва	sic Package						
Ва	sic – Call Origination						
1	DUT to BroadWorks; DUT Hangs Up After Answer	P0	X				
2	DUT to BroadWorks; DUT Hangs Up Before Answer	P0	Х				
3	DUT to BroadWorks; BroadWorks Hangs Up After Answer	P0	Х				
Ва	sic – Call Termination						
4	BroadWorks to DUT; BroadWorks Hangs Up After Answer	P0	Х				
5	BroadWorks to DUT; BroadWorks Hangs Up Before Answer	P0	X				
6	BroadWorks to DUT; DUT Hangs Up After Answer	P0	Х				
Ва	sic – Session Audit						
7	BroadWorks to DUT; Wait for Session Audit	P0	Х				
8	BroadWorks to DUT; BroadWorks Holds, Wait for Session Audit	P0	Х				
9	DUT to BroadWorks; Wait for Session Audit	P0	Х				
10	DUT to BroadWorks; DUT Holds, Wait for Session Audit	P0	Х				
11	DUT to BroadWorks; DUT Restarts, Wait for Session Audit	P0	Х				
Ва	sic – Session Timer						
12	BroadWorks to DUT; Wait for Session Timer	P1	X				
13	BroadWorks to DUT; BroadWorks Holds, Wait for Session Timer	P1	Х				
14	DUT to BroadWorks; Wait for Session Timer	P1	Х				
15	DUT to BroadWorks; DUT Holds, Wait for Session Timer	P1	Х				
Ва	sic – Ringback and Early Media						
Ri	ngback						
16	DUT Generates Local Ringback	P0	Χ				
17	DUT Receives Remote Ringback	P0	X				
18	DUT Generates Local Ringback, Followed by Receiving Remote Ringback	P0	Х				



Tes	t Case Title	Priority	Pass	Fail	NA	NS	NT
Fo	rked Dialog						
19	Early to Confirmed Dialog Forking	P0	X				
20	Early to Early to Confirmed Dialog Forking	P0	Х				
Ea	rly UPDATE						
21	DUT Receives Early UPDATE	P1	Х				
22	DUT Sends Early UPDATE	P2				Χ	
Ea	rly-Session						
23	DUT Receives Early-Session Offer	P2				Χ	
24	DUT Sends Early-Session Offer	P2				X	
18	1 Call Being Forwarded						
25	181 Call Being Forwarded	P1	Х				
Ba	sic – Dial Plan						
26	Local Operator Dialing (0)	P0	Х				
27	International Dialing (011XXXXXXXXX)	P0	Χ				
28	Casual Access Dialing (1010321-12405550000)	P0	X				
29	Extension Dialing (XXXX#)	P0	Χ				
30	Feature Access Code Dialing (*XX)	P0	Х				
31	Interrogation Feature Access Code Dialing (*XX*)	P0	Χ				
Ва	sic - DTMF						
32	In-band DTMF	P0	Χ				
33	RFC 2833 DTMF Offered, In-band DTMF Negotiated	P0	Х				
34	RFC 2833 DTMF	P0	Х				
35	DTMF Relay	P2				Х	
Ва	sic - Codec Negotiation/Renegotiation						
Co	dec Negotiation						
36	Codec Negotiation: re-INVITE without SDP	P0	Χ				
37	Codec Negotiation: Initial Answer with HOLD SDP	P0	X				
Co	dec Renegotiation						
38	Codec Renegotiation: Blind Transfer	P0	X				
39	Codec Renegotiation: Attended Transfer	P0	Х				



Tes	t Case Title	Priority	Pass	Fail	NA	NS	NT
40	Codec Renegotiation: Blind Transfer of Call on Hold	P0	Χ				
Br	oadWorks Services Package						
Br	oadWorks Services - Third-Party Call Control						
Ва	sic Call Control						
41	Click-to-Dial	P0	Х				
42	Click-to-Hold; DUT Originator	P0	Χ				
43	Click-to-Hold; DUT Terminator	P0	Х				
44	Click-to-Answer; Call Waiting	P0			Х		
Br	oadWorks Services – Voice Messaging						
Vo	ice Message Deposit/Retrieval						
45	Voice Message Deposit	P0	Χ				
46	Voice Message Retrieval	P0	Χ				
Me	essage Waiting Indicator						
47	Message Waiting Indicator: Unsolicited	P1				Χ	
48	Message Waiting Indicator: Solicited, MWI Subscription	P1				Х	
49	Message Waiting Indicator: Solicited, Refresh MWI Subscription	P1				Χ	
50	Message Waiting Indicator: Solicited, NOTIFY for MWI Status Change	P1				X	
51	Message Waiting Indicator: Update During Active Call	P1				X	
Vo	ice Portal Outcall						
52	Voice Portal Outcall	P0	Χ				
Br	oadWorks Services – Advanced Alerting						
53	Ring Splash	P2				Χ	
54	Priority Alert Ringing	P2				X	
55	Priority Alert Call Waiting Tone	P2				X	
56	Alternate Number Ringing	P2				Χ	
57	Alternate Number Call Waiting Tone	P2				Χ	
Br	oadWorks Services – Calling and Connected Line ID						
Ca	lling Line ID						
58	Calling Name and Number	P1	Х				



Tes	t Case Title	Priority	Pass	Fail	NA	NS	NT
59	Anonymous Call	P1	Х				
60	Calling Name with Unicode Characters	P1				Х	
Co	nnected Line ID						
61	Connected Line Presentation	P2				X	
62	Connected Line Presentation with Unicode Characters	P2				Х	
63	Connected Line Restriction	P2				Х	
64	Connected Line Presentation after Call Forward	P2				Χ	
65	Connected Line Restriction after Call Forward	P2				Х	
66	Connected Line Presentation on UPDATE	P2				Х	
67	Connected Line Presentation on Re-INVITE	P2				Х	
Br	oadWorks Services – Diversion and History-Info						
68	DIVERSION Header	P1	X				
69	DIVERSION Header: Multiple Redirects	P1	Х				
70	HISTORY-INFO Header	P1	Х				
71	HISTORY-INFO Header: Multiple Redirects	P1	Χ				
Br	oadWorks Services – Advice of Charge						
72	AoC-D Currency	P2				Х	
73	AoC-D Free	P2				Х	
74	AoC-E Currency	P2				Х	
75	AoC-E Free	P2				Х	
Br	oadWorks Services – Meet-Me Conferencing						
76	Meet-Me Conference	P0	X				
77	Meet-Me Conference – G722	P1				Х	
78	Meet-Me Conference – AMR-WB	P1				Х	
DU	IT Services Package						
DU	IT Services – Call Control Services						
Ca	II Waiting						
79	Call Waiting	P1	X				
Ca	II Hold						



Test Case Title	Priority	Pass	Fail	NA	NS	NT
80 Call Hold: DUT Terminator	P1	Х				
81 Call Hold: DUT Originator	P1	Х				
Call Transfer						
82 Blind Transfer	P1				Χ	
83 Attended Transfer After Answer	P1				Х	
84 Attended Transfer Before Answer	P1				Х	
Three-Way Call						
85 Three-Way Call After Answer	P1				Х	
86 Three-Way Call Before Answer	P1				Х	
Network-based Conference						
87 Network-based Three-Way Call	P2				Х	
88 Network-based N-Way Call	P2				Χ	
DUT Services – Registration and Authentication						
89 REGISTER Authentication	P1	X				
90 Maximum Registration Time	P1	X				
91 Minimum Registration Time	P1	Х				
92 INVITE Authentication	P1	Χ				
93 Re-INVITE/UPDATE Authentication	P1	Х				
94 REFER Authentication	P1				Х	
95 DUT Authenticating BroadWorks INVITE	P2				Χ	
DUT Services – Fax						
G711 Fax Passthrough						
96 G711 Fax Passthrough: DUT Originator	P1	X				
97 G711 Fax Passthrough: DUT Terminator	P1	Χ				
G711 Fax Fallback						
98 G711 Fax Fallback: DUT Originator	P1	Х				
99 G711 Fax Fallback: DUT Terminator	P1	X				
T38 Fax Messaging						
100 T38 Fax Messaging: DUT Originator	P1	X				



Test Case Title	Priority	Pass	Fail	NA	NS	NT
101 T38 Fax Messaging: DUT Terminator	P1	Χ				
DUT Services – Emergency Call						
102 Emergency Call; Originator Hang Up	P1				Χ	
103 Emergency Call; Originator Hang Up; Ringback Unanswered	P1				Χ	
104 Emergency Call; Originator Hang Up; Ringback Answered	P1				Χ	
105 Emergency Call; Howler Tone	P1				Х	
DUT Services – Miscellaneous Features						
106 Do Not Disturb	P1				Х	
107 Call Forward Always	P1				Х	
108 Call Forward Always Diversion Inhibitor	P1				Х	
109 Anonymous Call	P1				Х	
110 Anonymous Call Block	P1				Х	
111 Remote Restart via Notify	P1				X	
Redundancy Package						
112 DNS SRV Lookup: Proxy Address	P1					X
113 DNS SRV Lookup: CONTACT Header	P1					X
114 REGISTER Failover	P1					X
115 REGISTER Failback	P1					Х
116 INVITE Failover	P1					Х
117 INVITE Failback	P1					X
118 BYE Failover	P1					Х
SBC/ALG Package						
119 REGISTER	P1	Χ				
120 Outgoing INVITE	P1	Х				
121 Incoming INVITE	P1	Χ				
TCP Package						
122 DUT REGISTER	P1	Χ				
123 DUT to BroadWorks; DUT Hangs Up Before Answer	P1	X				
124 DUT to BroadWorks; DUT Hangs Up After Answer	P1	X				



125 BroadWorks to DUT; BroadWorks Hangs Up Before Answer	Test Case Title	Priority	Pass	Fail	NA	NS	NT
IPV6 - Basic	125 BroadWorks to DUT; BroadWorks Hangs Up Before Answer	P1	X				
IPV6 - Basic	126 BroadWorks to DUT; BroadWorks Hangs Up After Answer	P1	X				
127 DUT to BroadWorks; DUT Hangs Up After Answer 128 DUT to BroadWorks; DUT Hangs Up Before Answer 129 BroadWorks to DUT; BroadWorks Hangs Up After Answer 129 BroadWorks to DUT; BroadWorks Hangs Up After Answer 130 BroadWorks to DUT; BroadWorks Hangs Up Before Answer 131 BroadWorks to DUT; Wait for Session Audit 132 DUT to BroadWorks; Wait for Session Audit 133 DUT Receives Remote Ringback 134 Codec Negotiation: Initial Answer with HOLD SDP 135 Codec Renegotiation: Attended Transfer 136 Voice Message Deposit 137 Voice Message Retrieval 138 Call Hold: DUT Terminator 139 Attended Transfer After Answer 140 Three-Way Call After Answer 141 Network-based Three-Way Call 142 REGISTER Authentication 143 Taß Fax Messaging: DUT Originator 144 Taß Fax Messaging: DUT Originator 145 REGISTER Failover 146 INVITE Failover 147 REGISTER 147 REGISTER 141 REGISTER 141 REGISTER 141 REGISTER 142 REGISTER AIL 143 REGISTER AIL 144 TREGISTER 147 REGISTER 147 REGISTER 148 P1 X	IPV6 Package						
128 DUT to BroadWorks; DUT Hangs Up Before Answer P1 X 129 BroadWorks to DUT; BroadWorks Hangs Up After Answer P1 X 130 BroadWorks to DUT; BroadWorks Hangs Up Before Answer P1 X 131 BroadWorks to DUT; BroadWorks Hangs Up Before Answer P1 X 132 DUT to BroadWorks; Wait for Session Audit P1 X 133 DUT Receives Remote Ringback P1 X 134 Codec Negotiation: Initial Answer with HOLD SDP P1 X 135 Codec Renegotiation: Attended Transfer P1 X 1PV6 - BroadWorks Services 136 Voice Message Deposit P1 X 197 Voice Message Retrieval P1 X 199 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 145 REGISTER Authentication P1 X 146 INVITE Failover P1 X 147 REGISTER P1 X X X X X X X X X X X X X X X X X X	IPV6 - Basic						
129 BroadWorks to DUT; BroadWorks Hangs Up After Answer 130 BroadWorks to DUT; BroadWorks Hangs Up Before Answer 131 BroadWorks to DUT; Wait for Session Audit 132 DUT to BroadWorks; Wait for Session Audit 133 DUT Receives Remote Ringback 134 Codec Negotiation: Initial Answer with HOLD SDP 135 Codec Renegotiation: Attended Transfer 140 Voice Message Deposit 140 Voice Message Deposit 151 Voice Message Retrieval 152 P1	127 DUT to BroadWorks; DUT Hangs Up After Answer	P1				X	
130 BroadWorks to DUT; BroadWorks Hangs Up Before Answer P1 X 131 BroadWorks to DUT; Wait for Session Audit P1 X 132 DUT to BroadWorks; Wait for Session Audit P1 X 133 DUT Receives Remote Ringback P1 X 134 Codec Negotiation: Initial Answer with HOLD SDP P1 X 135 Codec Renegotiation: Attended Transfer P1 X 136 Codec Renegotiation: Attended Transfer P1 X 137 Voice Message Deposit P1 X 137 Voice Message Retrieval P1 X 1976 - DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X 145 REGISTER Failover P1 X 146 INVITE Failover P1 X 147 REGISTER	128 DUT to BroadWorks; DUT Hangs Up Before Answer	P1				X	
131 BroadWorks to DUT; Wait for Session Audit 132 DUT to BroadWorks; Wait for Session Audit 133 DUT Receives Remote Ringback 134 Codec Negotiation: Initial Answer with HOLD SDP 135 Codec Renegotiation: Attended Transfer 136 Voice Message Deposit 137 Voice Message Deposit 138 Call Hold: DUT Terminator 139 Attended Transfer After Answer 140 Three-Way Call After Answer 141 Network-based Three-Way Call 142 REGISTER Authentication 143 Fax Messaging: DUT Originator 146 INVITE Failover 157 Codec Renegotiation: Audit for Session Audit 170 P1	129 BroadWorks to DUT; BroadWorks Hangs Up After Answer	P1				X	
132 DUT to BroadWorks; Wait for Session Audit P1 X 133 DUT Receives Remote Ringback P1 X 134 Codec Negotiation: Initial Answer with HOLD SDP P1 X 135 Codec Renegotiation: Attended Transfer P1 X IPV6 – BroadWorks Services Voice Message Deposit P1 X 137 Voice Message Retrieval P1 X IPV6 – DUT Services P1 X 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 – Redundancy P1 X 145 REGISTER Failover P1 X 147 REGISTER P1 X	130 BroadWorks to DUT; BroadWorks Hangs Up Before Answer	P1				X	
133 DUT Receives Remote Ringback P1 X 134 Codec Negotiation: Initial Answer with HOLD SDP P1 X 135 Codec Renegotiation: Attended Transfer P1 X IPV6 - BroadWorks Services 136 Voice Message Deposit P1 X 137 Voice Message Deposit P1 X IPV6 - DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X IPV6 - Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 - SBC 147 REGISTER	131 BroadWorks to DUT; Wait for Session Audit	P1				X	
134 Codec Negotiation: Initial Answer with HOLD SDP P1 X 135 Codec Renegotiation: Attended Transfer P1 X IPV6 – BroadWorks Services 136 Voice Message Deposit P1 X 137 Voice Message Retrieval P1 X IPV6 – DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 – Redundancy P1 X 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 – SBC 147 REGISTER P1 X	132 DUT to BroadWorks; Wait for Session Audit	P1				X	
135 Codec Renegotiation: Attended Transfer IPV6 - BroadWorks Services 136 Voice Message Deposit P1 X 137 Voice Message Retrieval P1 X IPV6 - DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X IPV6 - Redundancy 145 REGISTER Failover P1 X IPV6 - SBC 147 REGISTER P1 X	133 DUT Receives Remote Ringback	P1				X	
IPV6 – BroadWorks Services 136 Voice Message Deposit P1 X 137 Voice Message Retrieval P1 X IPV6 – DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X IPV6 – Redundancy 145 REGISTER Failover P1 X IPV6 – SBC 147 REGISTER P1 X	134 Codec Negotiation: Initial Answer with HOLD SDP	P1				Х	
136 Voice Message Deposit P1 X 137 Voice Message Retrieval P1 X IPV6 – DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 – Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 – SBC 147 REGISTER P1 X	135 Codec Renegotiation: Attended Transfer	P1				X	
137 Voice Message Retrieval	IPV6 – BroadWorks Services						
IPV6 – DUT Services 138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 - Redundancy P1 X 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 - SBC 147 REGISTER P1 X	136 Voice Message Deposit	P1				X	
138 Call Hold: DUT Terminator P1 X 139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 - Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 - SBC 147 REGISTER P1 X	137 Voice Message Retrieval	P1				X	
139 Attended Transfer After Answer P1 X 140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 - Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 - SBC 147 REGISTER P1 X	IPV6 – DUT Services						
140 Three-Way Call After Answer P1 X 141 Network-based Three-Way Call P1 X 142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 – Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 – SBC 147 REGISTER P1 X	138 Call Hold: DUT Terminator	P1				X	
141 Network-based Three-Way Call 142 REGISTER Authentication P1	139 Attended Transfer After Answer	P1				X	
142 REGISTER Authentication P1 X 143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 - Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 - SBC 147 REGISTER P1 X	140 Three-Way Call After Answer	P1				X	
143 T38 Fax Messaging: DUT Originator P1 X 144 T38 Fax Messaging: DUT Terminator P1 X IPV6 - Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 - SBC 147 REGISTER P1 X	141 Network-based Three-Way Call	P1				X	
144 T38 Fax Messaging: DUT Terminator IPV6 - Redundancy 145 REGISTER Failover P1	142 REGISTER Authentication	P1				X	
IPV6 – Redundancy 145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 – SBC 147 REGISTER P1 X	143 T38 Fax Messaging: DUT Originator	P1				X	
145 REGISTER Failover P1 X 146 INVITE Failover P1 X IPV6 – SBC 147 REGISTER P1 X	144 T38 Fax Messaging: DUT Terminator	P1				X	
146 INVITE Failover P1 X IPV6 – SBC P1 X 147 REGISTER P1 X	IPV6 – Redundancy						
IPV6 – SBC 147 REGISTER P1 X	145 REGISTER Failover	P1				X	
147 REGISTER P1 X	146 INVITE Failover	P1				X	
	IPV6 - SBC						
148 Outgoing INVITE P1 X	147 REGISTER	P1				X	
	148 Outgoing INVITE	P1				Χ	



Test Case Title	Priority	Pass	Fail	NA	NS	NT
149 Incoming INVITE	P1				Х	
IPV6 – Dual Stack with Alternate Connectivity						
150 DUT Call Origination with ALTC; IPv4 Negotiated	P1				Х	
151 DUT Call Origination with ALTC; IPv6 Negotiated	P1				X	
152 DUT Call Termination with ALTC; IPv4 Negotiated	P1				Х	
153 DUT Call Termination with ALTC; IPv6 Negotiated	P1				Χ	
154 DUT Call Origination with ALTC to BroadWorks Auto Attendant	P1				Х	