![CSL Customer Solution Lab]	Element	Device Type	Software	Hardwaretype	IP Address
Customer Components	SIP Server	OpenScape Voice	V7 R1.48.1	Virtualized	192.168.128.86
	SBC	OpenScape SBC	V8 R1.06.00	IBM 3250-M3	LAN IP: 192.168.57.15 WAN IP: 192.168.53.10
	UC Server	OpenScape Application	V7 R2.1.0	Virtualized	192.168.128.133
	Media Server	OpenScape Application	V7.1 R0.8.0	Virtualized	192.168.128.133
	Branch Proxy	OpenScape Branch	V7R1.14.00 Build 2	Advantech 50i	192.168.174.130
	SIP Phone	OpenStage 20 40 60	V3 R3.40.0		192.168.153.230, 232, .233
SIP Provider Components	Softswitch	Gendband C20	CVM14 (MCP 14.0.16.3)		
	SBC	Packet Net-Net 9200	SD7.1.0 MR-6 Patch 3 (Build 671)		192.168.71.197
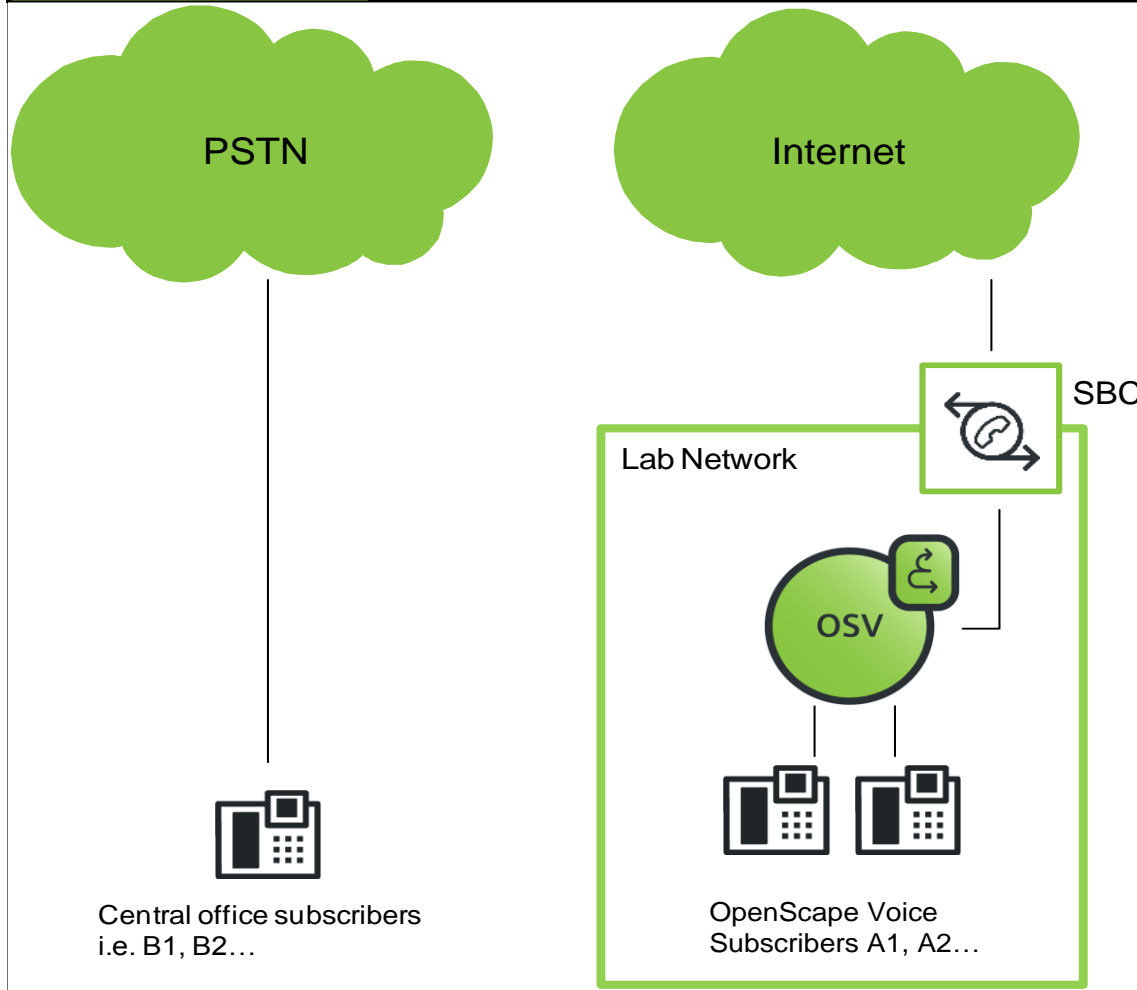
PSTN

Internet

SBC

Lab Network

OSV

Central office subscribers
i.e. B1, B2…

OpenScape Voice
Subscribers A1, A2…

Connectivity

Test Group	OK	NOK	Blocked	Remark
1. Basic Call	1	0	0	
2. Basic Call Extended	0	0	0	
3. Special Basic Call	0	0	0	
4. Hold/Toggle	0	0	0	
5. Call forward	0	0	0	
6. Call transfer	0	0	0	
7. Conference	0	0	0	
8. Fax and DTMF	0	0	0	
9. OpenScape Voice Features	0	0	0	
10. Branch Subscriber	0	0	0	
11. Project Specific Tests	0	0	0	
Sum	1	0	0	
Percentage	100%	0%	0%	

Display

Test Group	OK	NOK	Blocked	Remark
1. Basic Call	0	1	0	
2. Basic Call Extended	0	0	0	
3. Special Basic Call	0	0	0	
4. Hold/Toggle	0	0	0	
5. Call forward	0	0	0	
6. Call transfer	0	0	0	
7. Conference	0	0	0	
8. Fax and DTMF	0	0	0	
9. OpenScape Voice Features	0	0	0	
10. Branch Subscriber	0	0	0	
11. Project Specific Tests	0	0	0	
Sum	0	1	0	
Percentage	0%	100%	0%	

1. Basic Call

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
01-01	01-01 BC AB1 A calls B = check display on B side B answers = check display on A side Verify speech path in both directions A clears call = both parties idle again	The display on the phones A and B shows the connected party as dialable phone number. When A clears the call both parties return to idle state.	ok	nok		
01-02	01-02 BC AB2 A calls B = check display on B side B answers = check display on A side Verify speech path in both directions B clears call = both parties idle again	The display on the phones A and B shows the connected party as dialable phone number. When B clears the call both parties return to idle state.				
01-03	01-03 BC BA1 B calls A = check display on A side A answers = check display on B side Verify speech path in both directions A clears call = both parties idle again	The display on A and B shows the connected party as dialable phone number. When A clears the call both parties return to idle state.				
01-04	01-04 BC BA2 B calls A = check display on A side A answers = check display on B side Verify speech path in both directions B clears call = both parties idle again	The display on A and B shows the connected party as dialable phone number. When B clears the call both parties return to idle state.				
01-05	01-05 BC AB CELL Party B is a cell phone subscriber A calls B = check display on B side B answers = check display on A side Verify speech path in both directions B clears call = both parties idle again	The display on A and B shows the connected party as dialable phone number. When B clears the call both parties return to idle state.				
01-06	01-06 BC BA CELL Party B is a cell phone subscriber B calls A = check display on A side A answers = check display on B side Verify speech path in both directions A clears call = both parties idle again	The display on A and B shows the connected party as dialable phone number. When A clears the call both parties return to idle state.				
01-07	01-07 BC AB International Party B is an international subscriber (located in another country) A calls B = check ringback tone on A B answers = check display on A side Verify speech path in both directions B clears call = both parties idle again	The display on A and B shows the connected party as dialable phone number. When B clears the call both parties return to idle state.				
01-08	01-08 BC AB International CELL Party B is an international cell phone subscriber (located in another country) A calls B = check ringback tone on A B answers = check display on A side Verify speech path in both directions B clears call = both parties idle again	The display on A and B shows the connected party. When B clears the call both parties return to idle state.				
01-09	01-09 BC AB Long Duration Call A calls B = check display on B side B answers = check display on A side Verify speech path in both directions Wait 4 Hours, check speech path A clears call = both parties idle again	The connection and speech path exists after 4 hours.				

Customer Solution Lab: SIP Trunk Test					CSL
01-10	01-10 BC BA Long Duration Call B calls A = check display on A side A answers = check display on B side Verify speech path in both directions Wait 4 Hours, check speech path B clears call = both parties idle again	The connection and speech path exists after 4 hours.				
01-11	01-11 BC AB Mute A calls B = check display on B side B answers = check display on A side Verify speech path in both directions Mute call on both ends Wait 30 minutes Verify speech path in both directions again A clears call = both parties idle again	The phones A and B are still connected and muted after 30 minutes. After unmuting the call the speech path is reestablished between the phones.				
01-12	01-12 BC A1A2 Party A1 calls A2 via SIP Trunk A1 calls A2 = check displays and ringback tone A2 answers = check displays again Verify speech path in both directions A2 clears call = both parties idle again	When connected on A1 is displayed A2's phone number and on A2 is displayed A1's phone number. There is a speech path between the phones.				
01-13	01-13 BC Emergency Call A calls emergency number (I.E. 911 for the US or 112 for EU) Call center answers, speechpath in both directions A clears call	The callee must see the calling phone number on the phone display.				

2. Basic Call Extended

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
02-01	02-01 BC AB no reply A calls B = check display on B side B does not answer = wait for timeout by provider Verify the call is properly cleared on both sides	After timeout by provider the call is cleared by provider.				
02-02	02-02 BC BA no reply B calls A = check display on B side A does not answer = wait for timeout by provider Verify the call is properly cleared on both sides	After timeout by provider, B hears an indication that A didn't accept the call within a given time period. The call is cleared finally.				
02-03	02-03 BC AB busy A calls busy B = check busy tone/display on A Verify the call is properly cleared	The call is properly cleared after A hear/see a busy indication.				
02-04	02-04 BC BA busy B calls busy A = check busy tone/display on B Verify the call is properly cleared	The call is properly cleared after B hear/see a busy indication.				
02-05	02-05 BC AB reject A calls B = check display on B side B does reject call Verify the call is properly cleared on both sides	A hears a reject tone or a "call cannot completed" announcement and the call is cleared finally.				
02-06	02-06 BC BA reject B calls A = check display on A side A does reject call Verify the call is properly cleared on both sides	The call is cleared after rejection.				
02-07	02-07 BC AB CLIR A with CLIR calls B = check display on B side B answers = check display on A side Verify speech path in both directions A clears call = both parties idle again	B don't see A's phone number.				
02-08	02-08 BC BA CLIR B with CLIR calls A = check display on A side A answers = check display on B side Verify speech path in both directions A clears call = both parties idle again	A don't see B's phone number.				
02-09	02-09 BC AB invalid CLIP A has invalid CLIP (Incomplete digits/ Wrong digits) A calls B = check display on B side (displays default CLI) is call goes through B answers = check display on A side Verify speech path in both directions A clears call = both parties idle again	Either a valid CLIP of A must be displayed on B's phone for A, or the call is refused.				

3. Special Basic Call

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
03-01	03-01 BC AB codec negotiation A has low bandwidth preferred (G.729-0723 high priority, G.711-0722 low priority) B has high quality preferred (G.711-0722 high priority, G.729-0723 low priority) A calls B = check codec proposal B answers = check codec selected A clears call	The SIP provider answers in the codec proposal list with one codec from A's codec proposal as highest priority. This codec will be used by both phones.				
03-02	03-02 BC BA codec negotiation A has low bandwidth preferred (G.729-0723 high priority, G.711-0722 low priority) B has high quality preferred (G.711-0722 high priority, G.729-0723 low priority) B calls A = check codec proposal A answers = check codec selected B clears call	A answers in the codec proposal list with one codec from the SIP providers codec proposal with highest priority. This codec will be used by both phones.				
03-03	03-03 BC AB G.722 Enable G.722 and set it as high priority on A and B A calls B = check codec proposal B answers = check codec selected B clears call	The SIP provider answers in the codec proposal list with one codec from A's codec proposal with highest priority. This codec will be used by both phones.				
03-04	03-04 BC BA G.722 Enable G.722 and set it as high priority on A and B B calls A = check codec proposal A answers = check codec selected A clears call	A answers in the codec proposal list with one codec from the SIP providers codec proposal as highest priority. This codec will be used by both phones.				
03-05	03-05 BC AB incompatible codec A has low bandwidth only (G.729-0723) B has high quality only (G.711-0722) A calls B = check codec proposal If the call is now released, the provider does not interwork codec's, check for proper call clearing. If B is ringing: B answers = check codec selected Verify speech path in both directions	Either B answers with '488 Not acceptable here', or the SIP provider offers a codec which phone A also supports. This codec is used then by both phones.				
03-06	03-06 BC BA incompatible codec A has low bandwidth only (G.729-0723) B has high quality only (G.711-0722) B calls A = check codec proposal If the call is now released, the provider does not interwork codec's, check for proper call clearing. If A is ringing: A answers = check codec selected Verify speech path in both directions	Either A answers with 488 Not acceptable here, or the SIP provider offers a codec for phone B which phone A also supports. This codec is used then by both phones.				
03-07	03-07 BC AB session timer Enable session timer on OpenScape Voice A calls B B answers Let the call active until the session timer was two times refreshed by OpenScape Voice B clears call	When the Session Timer is activated on Voice, Voice acts as refresher of the session. After half of session timer period Voice sends a re-INVITE to B.				

03-08	03-08 BC BA session timer Enable session timer on OpenScape Voice B calls A B answers Let the call active until the session timer was two times refreshed by the provider A clears call	After half of session timer period Voice sends a re-INVITE to B.				
03-09	03-09 BC A to invalid B A calls invalid number = verify proper announcement (or SIP cause) Verify that the call is released properly -If you hear an announcement/tone, check if the payload is sent before connect (183 progress)	A hears a announcement 'call cannot completed at this time' or tone and the call is cleared finally.				
03-10	03-10 BC announcement after connect A calls switched off cell phone = A hears announcement after connect Clear call	A hears announcement after connecting to a voice box.				
03-11	03-11 BC announcement before connect A calls conference bridge = A hears announcement before connect Clear call	A hears announcement before connecting to conference bridge.				
03-12	03-12 BC Provider Voicemail This test case assumes that a provider voicemail (VM) service is available A has VM box on the provider VM server A calls VM server A1hears VM announcement – depending on functionality, A1 should be automatically forwarded to its voicemail box and a PIN is requested then. A enters PIN – A1 is logged into VM box root menu A browses VM menu using keypad A clears call					

4. Hold/Toggle

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
04-01	04-01 Hold A Establish call A-B A put B in hold = verify MoH (hold indication if possible) on B A retrieve B = verify speech path A-B (display back to normal call if possible) Clear call	B receives MoH when A put B in hold. When A retrieves B, the speech path between both phones is restablished.				
04-02	04-02 Hold B Establish call A-B B put A in hold = verify MoH (hold indication if possible) on A B retrieve A = verify speech path A-B (display back to normal call if possible) Clear call	A receives MoH when B put A in hold. When B retrieves A, the speech path between both phones is restablished.				
04-03	04-03 Toggle A Establish call A-B1 A put B1 in hold = verify MoH (hold indication if possible) on B1 A calls B2 B2 answers = verify speech path A toggles between B1 and B2 several times = verify MoH (hold indication if possible) on held party and speech path (display) on active party. Clear call	When A put B1 in hold, B1 hears MoH. When A toggles between B1 and B2, the held phone hears MoH and the active party has speech path.				
04-04	04-04 Toggle B Establish call A1-B B put A1 in hold = verify MoH (hold indication if possible) on A1 B calls A2 A2 answers = verify speech path B toggles between A1 and A2 several times = verify MoH (hold indication if possible) on held party and speech path (display) on active party. Clear call	When B put A1 in hold, A1 hears MoH. When B toggles between A1 and A2, the held phone hears MoH and the active party has speech path.				
04-05	04-05 Toggle A1 Establish call A1-B A1 put B in hold = verify MoH (hold indication if possible) on B A1 calls A2 A2 answers = verify speech path A1 toggles between B and A2 several times = verify MoH (hold indication if possible) on held party and speech path (display) on active party. Clear call	When A1 put B in hold, B hears MoH. When A1 toggles between A2 and B, the held phone hears MoH and the active party has speech path.				

5. Call forward

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
05-01	05-01 CFU A1/A2 A1 has CFU to A2 B calls A1 = verify A2 is ringing A2 answers = check speech path and display on both parties Clear call	The call to A1 is forwarded immediatelly to A2. On B is displayed A2's phone number and on A2 is displayed B's phone number.				
05-02	05-02 CFU A/B2 A has CFU to B2 B1 calls A = verify B2 is ringing B2 answers = check speech path and display on both parties Clear call	The call to A is forwarded immediatelly to B2. B1 shows B2's phone number and B2 shows B1's phone number.				
05-03	05-03 CFU A/B2 BUSY A has CFU to busy B2 B1 calls A = B1 receives busy tone	The call to A is forwarded immediatelly to B2. B1 receives a busy tone. On B1 is displayed A's phone number. The call is cleared afterwards.				
05-04	05-04 CFU B1/B2 B1 has CFU to B2 A calls B1 = verify B2 is ringing B2 answers = check speech path and display on both parties Clear call	The call to B1 is forwarded immediatelly to B2. On A is displayed B2's phone number and B2 displays A's phone number.				
05-05	05-05 CFU B/A2 B has CFU to A2 A1 calls B = verify A2 is ringing A2 answers = check speech path and display on both parties Clear call	The call to B is forwarded immediatelly to A2. On A1 is displayed A2 's phone number and on A2 is displayed A1's phone number.				
05-06	05-06 CFU A/B2 Cell A has CFU to B2 = B2 is a Cell phone B1 calls A = verify B2 is ringing B2 answers = check speech path and display on both parties Clear call	The call to A is forwarded immediatelly to B2. On B1 is displayed B2's phone number and on B2 is displayed A's number.				
05-07	05-07 CFU B1/B2 Cell B1 has CFU to B2 = B2 is a Cell phone A calls B1 = verify B2 is ringing B2 answers = check speech path and display on both parties Clear call	The call to B1 is forwarded immediatelly to B2. On A is displayed B2's phone number and on B2 is displayed A's phone number.				
05-08	05-08 CFB A1/A2 A1 has CFB to A2 A1 is busy B calls A1 = verify A2 is ringing A2 answers = check speech path and display on both parties Clear call	The call to A1 is forwarded on busy to A2. On B is displayed A1's phone number and on A2 is displayed B's phone number.				
05-09	05-09 CFB B1/B2 B1 has CFB to B2 B1 is busy A calls B1 = verify B2 is ringing B2 answers = check speech path and display on both parties Clear call	The call to B1 is forwarded on busy to B2. On A is displayed B2's phone number and on B2 is displayed A's phone number.				

05-10	05-10 CFNR A1/A2 A1 has CFNR to A2 B calls A1 = verify A1 is ringing A1 does not answer = verify call is forwarded to A2 A2 answers = check speech path and display on both parties Clear call	When the call to A1 is forwarded on no reply to A2, on B is displayed A2's phone number and on A2 is displayed B's phone number.			
05-11	05-11 CFNR B1/B2 B1 has CFNR to B2 A calls B1 = verify B1 is ringing B1 does not answer = verify call is forwarded to B2 B2 answers = check speech path and display on both parties Clear call	When the call to B1 is forwarded on no reply to B2, on A is displayed B1's phone number and on B2 is displayed A's phone number.			
05-12	05-12 CFNR A/B2 Busy A has CFNR to busy B2 B1 calls A = verify A is ringing A does not answer = verify call is forwarded to B2 - B1 receives busy tone	When the call to A is forwarded on no reply to busy B2, B1 hears a busy tone. On B1 is displayed A's phone number. The call is cleared afterwards.			
05-13	05-13 Call deflect A/B2 B1 calls A = A is ringing A selects call deflect and dials B2 = verify call is deflected to B2, A stops ringing B2 answers = check speech path and display on both parties Clear call	When the call is deflected, on B1 is displayed B2's phone number and on B2 is displayed B1's phone number.			
05-14	05-14 Call deflect B1/B2 A calls B1 = B1 is ringing B1 selects call deflect and dials B2 = verify call is forwarded to B2, B1 stops ringing B2 answers = check speech path and display on both parties Clear call	When the call is deflected, on A is displayed B2's phone number and on B2 is displayed A's phone number.			
05-15	05-15 Provider Voicemail_CF1 This test case assumes that a provider voicemail (VM) service is available A1 has VM box on the provider VM server A1 sets CF to VM server A2 calls A1 A2 is connected to A1's VM box A2 leaves message A2 clears call VM server sends MWI A1 shows MWI in phone display A1 answers MWI – A1 is connected to VM Box A1 enters PIN A1 retrieves A2's voice message A1 deletes A2's voice message – VM server sends MWI A1's phone clears MWI indication A1 clears call				

05-16	05-16 Provider Voicemail_CFNR1 This test case assumes that a provider voicemail (VM) service is available A1 has VM box on the provider VM server A1 sets CFNR to VM server A2 calls A1 A1 does not answer - A2 is connected to A1's VM box A2 leaves message A2 clears call VM server sends MWI A1 shows MWI in phone display A1 answers MWI – A1 is connected to VM Box A1 enters PIN A1 retrieves A2's voice message A1 deletes A2's voice message – VM server sends MWI A1's phone clears MWI indication A1 clears call					
05-17	05-17 Provider Voicemail_CF2 This test case assumes that a provider voicemail (VM) service is available A1 has VM box on the provider VM server A1 sets CF to VM server B calls A1 - B is connected to A1's VM box B leaves message B clears call VM server sends MWI A1 shows MWI in phone display A1 answers MWI – A1 is connected to VM Box A1 enters PIN A1 retrieves B's voice message A1 deletes B's voice message – VM server sends MWI A1's phone clears MWI indication A1 clears call					
05-18	05-18 Provider Voicemail_CFNR2 B is a cell phone subscriber This test case assumes that a provider voicemail (VM) service is available A has VM box on the provider VM server A sets CFNR to VM server B calls A A does not answer - B is connected to A's VM box B leaves message B clears call VM server sends MWI A shows MWI in phone display A answers MWI – A is connected to VM Box A enters PIN A retrieves B's voice message A deletes B's voice message – VM server sends MWI A's phone clears MWI indication A clears call					

6. Call transfer

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
06-01	06-01 Attended CT A1/A2 Establish call A1-B A1 put B in hold = verify MoH (hold indication if possible) on B A1 calls A2 = A2 is ringing A2 answers A1 transfers call A2 and B connected = check speech path and display on both parties Clear call	B hears MoH when A1 put B in hold. When A1 has transferred the call A2 and B are connected. On B is displayed A1's phone number and on A2 is displayed B's phone number.				
06-02	06-02 Attended CT A/B2 Establish call A-B1 A put B1 in hold = verify MoH (hold indication if possible) on B1 A calls B2 = B2 is ringing B2 answers A transfers call B1 and B2 connected = check speech path and display on both parties Clear call	B1 hears MoH when A put B1 in hold. When A has transferred the call B1 and B2 are connected. On B1 and B2 is displayed A's phone number.				
06-03	06-03 Attended CT B1/B2 Establish call A-B1 B1 put A in hold = verify MoH (hold indication if possible) on A B1 calls B2 = B2 is ringing B2 answers B1 transfers call A and B2 connected = check speech path and display on both parties Clear call	After B1 has transferred the call on A and B2 is displayed B1's phone number.				
06-04	06-04 Attended CT B/A2 Establish call A1-B B put A1 in hold = verify MoH (hold indication if possible) on A1 B calls A2 = A2 is ringing A2 answers B transfers call A1 and A2 connected = check speech path and display on both parties Clear call	When B has transferred the call, A1 and A2 are connected. On A1 and A2 is displayed B's phone number.				
06-05	06-05 Semi attended CT A1/A2 Establish call A1-B A1 put B in hold = verify MoH (hold indication if possible) on B A1 calls A2 = A2 is ringing A1 transfers call before A2 answers = B hears ringback tone now A2 answers A2 and B connected = check speech path and display on both parties Clear call	When A1 has transferred the call, on B is displayed A1's phone number and on A2 is displayed B's phone number.				

06-06	06-06 Semi attended CT A/B2 Establish call A-B1 A put B1 in hold = verify MoH (hold indication if possible) on B1 A calls B2 = B2 is ringing A transfers call before B2 answers = B1 hears ringback tone now B2 answers B1 and B2 connected = check speech path and display on both parties Clear call	When A1 has transferred the call, on B1 and B2 is displayed A's phone number.			
06-07	06-07 Semi attended CT B1/B2 Establish call A-B1 B1 put A in hold = verify MoH (hold indication if possible) on A B1 calls B2 = B2 is ringing B1 transfers call before B2 answers = A hears ringback tone now B2 answers B2 and A connected = check speech path and display on both parties Clear call	When B1 has transferred the call, on A and B2 is displayed B1's phone number.			
06-08	06-08 Blind CT A/B2 Establish call A-B1 A selects blind transfer and dials B2 = B2 is ringing, check displays B2 answers = speech path and display on both parties Clear call	After A has transferred the call, on B1 is displayed A's phone number and on B2 is displayed B1's phone number.			
06-09	06-09 Blind CT B/A2 Establish call A1-B B selects blind transfer and dials A2 = A2 is ringing, check displays A2 answers = speech path and display on both parties Clear call	After B has transferred the call on A1 is displayed B's and on A2 is displayed A1's phone number.			

7. Conference

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
07-01	07-01 Conference MS A1 has large conference configured Establish call A1-B1 A1 put B1 in hold A1 dials A2 A2 answers A1 selects conference A1 selects hold, dials B2 B2 answers A1 selects add to conference A1, A2, B1 and B2 in conference = check speech path and display on both parties Clear calls	When A1 put B1 in hold, B1 hears MoH. On A1 and A2 is displayed the conference call with it's members. A1, A2, B1 and B2 has speech path with all conference members when in the conference call.				
07-02	07-02 Conference local A1 has local (phone) conference configured Establish call A1-B A1 put B in hold A1 dials A2 A2 answers A1 selects Conference A1, A2 and B in conference = check speech path and display on both parties Clear calls	When A1 put B in hold, B hears MoH. On A1 is displayed the conference call with it's members. A1, A2 and B has speech path with all conference members when in the conference call.				

8. Fax and DTMF

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
08-01	08-01 Fax t.38 AB A and B are represented as Fax machines in this test case A use t.38 for fax calls A calls B B answers Codec change to t.38 is initiated Several pages of documents are sent over the connection A releases automatically the call after all pages are sent	On B is displayed A's fax number and on A is displayed B's fax number. The codec is changed to T.38. B receives the fax document from A and the connection is cleared afterwards.				
08-02	08-02 Fax t.38 BA A and B are represented as Fax machines in this test case A and B use t.38 for fax calls B calls A A answers Codec change to t.38 is initiated Several pages of documents are sent over the connection B releases automatically the call after all pages are sent	On A is displayed B's fax number. The codec is changed to T.38. A receives The fax document from B is received on A and the connection is cleared afterwards.				
08-03	08-03 Fax G.711 AB A and B are represented as Fax machines in this test case A has low bandwidth codec as high priority, high quality codec as low priority A calls B B answers = the call is with low bandwidth established (G.729 or G.723) Codec change to G.711 is initiated Several pages of documents are sent over the connection A releases automatically the call after all pages are sent	Fax machine A establishes a connection to fax machine B. A codec change to G.711 is initiated. On fax machine B is displayed A's fax number. Afterwards the call is released by fax A.				
08-04	08-04 Fax G.711 BA A and B are represented as Fax machines in this test case A and B have low bandwidth codec as high priority, high quality codec as low priority B calls A A answers = the call is with low bandwidth established (G.729 or G.723) Codec change to G.711 is initiated Several pages of documents are sent over the connection B releases automatically the call after all pages are sent	Fax machine B establishes a connection to fax machine A. A codec change to G.711 is initiated. On fax machine A is displayed B's fax number. Afterwards the call is released by fax B.				

08-05	08-05 Fax G.711 AB AhiBhi A and B are represented as Fax machines in this test case A and B are high-speed (G3+) devices A calls B B answers Several pages of documents are sent over the connection A releases automatically the call after all pages are sent	Fax machine A establishes a connection to fax machine B. On fax machine B is displayed A's fax number. Afterwards the call is released by A.			
08-06	08-06 Fax G.711 BA BhiAhi A and B are represented as Fax machines in this test case A and B are high-speed (G3+) devices B calls A B answers Several pages of documents are sent over the connection B releases automatically the call after all pages are sent	Fax machine B establishes a connection to fax machine A. A codec change to G.711 is initiated. When transmitting the fax on fax machine A is displayed B's fax number. Afterwards the call is released by fax B.			
08-07	08-07 Fax G.711 AB AloBhi A and B are represented as Fax machines in this test case A is a low speed (G3) and B is a high-speed (G3+) device A calls B B answers Several pages of documents are sent over the connection A releases automatically the call after all pages are sent	Fax machine A establishes a connection to fax machine B. When transmitting the fax on fax machine B is displayed A's fax number. Afterwards the call is released by fax A.			
08-08	08-08 Fax G.711 BA BloAhi A and B are represented as Fax machines in this test case A is a low speed (G3) and B is a high-speed (G3+) device B calls A A answers = the call is with low bandwidth established Several pages of documents are sent over the connection B releases automatically the call after all pages are sent	Fax machine B establishes a connection to fax machine A. When transmitting the fax on fax machine A is displayed B's fax number. Afterwards the call is released by fax A.			
08-09	08-09 Fax G.711 AB AhiBlo A and B are represented as Fax machines in this test case A is a high-speed (G3+) and B is a low speed (G3) device A calls B B answers Several pages of documents are sent over the connection A releases automatically the call after all pages are sent	Fax machine A establishes a connection to fax machine B. When transmitting the fax on fax machine B is displayed A's fax number. Afterwards the call is released by fax A.			
08-10	08-10 Fax G.711 BA BhiAlo A and B are represented as Fax machines in this test case A is a high-speed (G3+) and B is a low speed (G3) device B calls A A answers = the call is with low bandwidth established Several pages of documents are sent over the connection B releases automatically the call after all pages are sent	Fax machine B establishes a connection to fax machine A. When transmitting the fax on fax machine A is displayed B's fax number. Afterwards the call is released by fax A.			

08-11	08-11 DTMF RFC2833 AB Establish call A-B A dials digits after connect = verify that the digits are sent as own payload type Clear call	When A has called B, the digits entered on phone A are sent to B as own payload type.				
08-12	08-12 DTMF RFC2833 BA Establish call B-A B dials digits after connect = verify that the digits are sent as own payload type Clear call	When B has called A, the digits entered on phone B are sent to A as own payload type.				
08-13	08-13 DTMF in band AB Disable RFC2833 on both parties (if possible) If possible replace party B by voicemail or anything else with DTMF recognition Establish call A-B A dials digits after connect = verify that the digits are sent as the same payload like the voice Clear call					
08-14	08-14 DTFM in band BA Disable RFC2833 on both parties (if possible) If possible replace party A by voicemail or anything else with DTMF recognition Establish call B-A B dials digits after connect = verify that the digits are sent as the same payload like the voice Clear call					
08-15	08-15 DTFM RFC2833 before connect Re-Enable RFC2833 on both parties If possible replace party B by voicemail or anything else with DTMF recognition before answer A calls B A gets announcement before connect A dials digits = B recognizes digits (I.E. forwards A to voice mail) B answers = check display on A side Verify speech path in both directions A clears call = both parties idle again					

9. OpenScape Voice Features

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
09-01	09-01 MLHG (Multi Line Hunt Group) A3 Configure MLHG with parties A1, A2 and A3 B calls MLHG A1 is ringing A2 is ringing = A1 stops ringing A3 is ringing = A2 stops ringing A3 answers = check speech path and display on both parties Clear call	On the ringing or connected phone is displayed B's phone number. On B's phone is displayed the MLGH phone number while ringing or connected.				
09-02	09-02 MLHG (Multi Line Hunt Group) A1 Configure MLHG with parties A1, A2 and A3 B calls MLHG A1 answers = check speech path and display on both parties Clear call	On phone A1 is displayed B's phone number. On B's phone is displayed the MLGH phone number.				
09-03	09-03 Pickup Group A2 Configure Pickup Group with parties A1, A2 and A3 B calls A1 =A1 is ringing, A2 and A3 have display notification A2 picks up call = check speech path and display on both parties Clear call	When A2 picks up the call, A1 stops ringing and display notification on A3 stops. On B is diplayed A2's phone number and on A2 is displayed B's phone number.				
09-04	09-04 Pickup Group A1 Configure Pickup Group with parties A1, A2 and A3 B calls A1 =A1 is ringing, A2 and A3 have display notification A1 answers call = check speech path and display on both parties Clear call	When A1 answers the call, display notification on A2 and A3 ends. B and A1 are connected now.				
09-05	09-05 One Number Service A1(A2)B1 A1 is/has OpenScape UC user A1 OpenScape UC selects A2 as preferred device A1 calls B1 via ODC or OWC = A2 rings A2 answers = B1 rings and shows A1 in Display B1 answers = B1 and A2 connected, but A1 in Display Wait 20 minutes, check speech path regularly Clear call	When connected on B1's phone is displayed A1's phone number and on A2 is displayed B1's phone number. A2 and B1 must be still connected after 20 minutes.				
09-06	09-06 One Number Service A1(B1)A2 A1 is/has OpenScape UC user A1 OpenScape UC selects B1 as preferred device A1 calls A2 via ODC or OWC = B1 rings B1 answers = A2 rings and shows A1 in Display A2 answers = A2 and B1 connected, A2 in B1's Display Wait 20 minutes, check speech path regularly Clear call	When connected on B1's phone is displayed A2's phone number and on A2's phone is displayed A1's phone number. A2 and B1 must be still connected after 20 minutes.				
09-07	09-07 One Number Service A1(B1)B2 A1 is/has OpenScape UC user A1 OpenScape UC selects B1 as preferred device A1 calls B2 via ODC or OWC = B1 rings B1 answers = B2 rings and shows A1 in Display B2 answers = B2 and B1 connected, B2 in B1's Display Clear call	When connected on B1's phone is displayed B2's phone number and on B2 is displayed A1's phone number.				

09-08	09-08 One Number Service A1(B1)B2 CELL1 A1 is/has OpenScape UC user B1 is of type "cell phone" A1 OpenScape UC selects B1 as preferred device A1 calls B2 via ODC or OWC = B1 rings B1 answers = B2 rings and shows A1 in Display B2 answers = B2 and B1 connected, B2 in B1's Display Wait 20 minutes, check speech path regularly Clear call	When connected on B1's and B2's phone is displayed A1's phone number. B1 and B2 must be still connected after 20 minutes.				
09-09	09-09 One Number Service A1(B1)B2 CELL2 A1 is/has OpenScape UC user B2 is of type "cell phone" A1 OpenScape UC selects B1 as preferred device A1 calls B2 via ODC or OWC = B1 rings B1 answers = B2 rings, shows A1 in Display B2 answers = B2 connected to B1, B2 in B1's Display Clear call	When connected on B1's phone is displayed B2's phone number and on B2 is displayed A1's phone number.				

10. Branch Subscriber

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
10-01	10-01 BC AB1 A is a branch subscriber A calls B = check display on B side B answers = check display on A side Verify speech path in both directions A clears call = verify on both parties a successful the end of the call	On A's phone is displayed B's phone number. On B's phone is displayed A's phone number.				
10-02	10-02 BC AB2 A is a branch subscriber A calls B = check display on B side B answers = check display on A side Verify speech path in both directions B clears call = verify on both parties a successful the end of the call	On A's phone is displayed B's phone number. On B's phone is displayed A's phone number.				
10-03	10-03 CFU A1/A2 A1 (in the headquarter) has CFU to A2 (branch subscriber) B calls A1 = verify A2 is ringing, check display both parties A2 answers = check speech path and display on both parties Clear call	On B's phone is displayed A2's phone number. On A2's phone is displayed B's phone number.				
10-04	10-04 CFU A2-B A2 (branch subscriber) has CFU to B A1 (in the headquarter) calls A2 = verify B is ringing Check B's Display for calling and diverting numbers B answers = check speech path and display on both parties Clear call	On B's phone is displayed A1's phone number as calling number. On A1's phone is displayed B's phone number.				
10-05	10-05 Toggle A1 A2 (branch subscriber, A1 (in the headquarter) Establish connection A2-B A2 put B in hold = verify MoH (hold indication if possible) on B A2 calls A1 A1 answers = verify speech path A2 toggles between B and A1 several times = verify MoH (hold indication if possible) on held party and speech path (display) on active party. Clear call	On the held phone must heared a hold indication.				
10-06	10-06 Attended CT A1/A2 A1 is a branch subscriber, A2 is located in the headquarter Establish call A1-B A1 put B in hold = verify MoH (hold indication if possible) on B A1 calls A2 = A2 is ringing A2 answers A1 transfers call A2 and B connected = check speech path and display on both parties Clear call	After A1 has transferred the call on B's phone is displayed A1's phone number and on A2's phone is displayed B's phone number.				

Customer Solution Lab: SIP Trunk Test					CSL

11. Project Specific Tests

Ref #	Test	Expected Result	Call successful? (OK/NOK/Not Supported/Blocked/Skipped)	Display correct? (OK/NOK)	Remarks	tested by
11-01	11-01 BC AB A is a video capable SIP client A calls B = check display on B side B answers = check display on A side Verify speech path in both directions A clears call = both parties idle again	A can establish an audio call to not video capable B				