

Interoperability of LANCOM VoIP Call Manager

LCOS Software Release 7.60.0160-REL

for LANCOM Routers using Voice over IP

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LANCOM Systems GmbH
Adenauerstrasse 20/B2
52146 Wuerselen
Germany

Internet: <http://www.lancom.eu>

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1 SIP Providers

OK – function available; **NOK** – function not available/non-compatible

	Hold/Swap/Connect (Call Transfer)		Call Forwarding			Transfer/ Forwarding at the provider (REFER) ⁶⁾
	SIP incoming from external pty ¹⁾	SIP outgoing from internal pty ²⁾	To external pty via ISDN line ³⁾	To external pty via SIP line ⁴⁾	To internal analog, ISDN, SIP subscriber ⁵⁾	

AT - Österreich						
IPAUSTRIA	OK	OK	OK	OK	OK	OK
CH - Schweiz						
CABLECOM	OK	OK	OK	OK	OK	NOK

DE - Deutschland						
1und1	OK	OK	OK	OK	OK	NOK
CARPO	OK	OK	OK	OK	OK	NOK
DUS.NET (Trunk)	OK	OK	OK	OK	OK	OK
O ₂ /Telefonica (Trunk)	OK	OK	OK	OK	OK	NOK
PBX-Network	OK	OK	OK	OK	OK	OK
Purtel	OK	OK	OK	OK	OK	OK
QSC (Trunk)	OK	OK	OK	OK	OK	NOK
SIPBASE	OK	OK	OK	OK	OK	OK
SIPCALL	OK	OK	OK	OK	OK	NOK
SIPGATE	OK	OK	OK	OK	OK	NOK
Strato/Freenet	OK	OK	OK	OK	OK	NOK
T-Online	OK	OK	OK	OK	OK	NOK

	Hold/Swap/Connect (Call Transfer)		Call Forwarding			Transfer/ Forwarding at the provider (REFER) ⁶⁾
	SIP incoming from external pty ¹⁾	SIP outgoing from internal pty ²⁾	To external pty via ISDN line ³⁾	To external pty via SIP line ⁴⁾	To internal analog, ISDN, SIP subscriber ⁵⁾	

ES - Spanien						
ADAMVOZIP	OK	OK	OK	OK	OK	NOK
VOZ-Telecom	OK	OK	OK	OK	OK	NOK

UK - Großbritannien						
GAMMATEL	OK	OK	OK	OK	OK	NOK

- 1) A call from provider to the LANCOM VP-100 is connected to an ISDN telephone, from there to an analog telephone a/b₁, from there to an analog telephone a/b₂, from there to an Advanced VoIP Client, from there to a Cisco IP Phone 7912G (SIP).
- 2) The LANCOM VP-100 makes an outgoing call via the provider and connects to an ISDN telephone, from there to an analog telephone a/b₁, from there to an analog telephone a/b₂, from there to an Advanced VoIP Client, from there to a Cisco IP Phone 7912G (SIP).
- 3) An incoming SIP call from the provider is automatically forwarded over an external ISDN line to a mobile phone and an ISDN landline number.
- 4) An incoming SIP call from the provider is automatically forwarded over a SIP provider line to a mobile phone and an ISDN landline number.
- 5) An incoming SIP call from the provider is automatically forwarded to a local ISDN subscriber, analog subscriber, and SIP subscriber.
- 6) An incoming SIP call from the provider is transferred to a second subscriber over the same SIP provider line as the incoming call with REFER method (Call Transfer at the provider).

2 SIP Terminal Devices: Hardphones

OK – function available; **NOK** – function not available/non-compatible

SIP phone / firmware version	AASTRA 57i / 2.3.1.26
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	CISCO 7912 / 8.0.1 SIP
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	Grandstream GXP 2000 / 1.1.6.16
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	Siemens optiPoint 410, 420 / 7.x
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	snom 300, 320, 360 / 7.3.10
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	snom 820 / 8.1.13
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

3 SIP Terminal Devices: Wireless Phones with DECT Technology

OK – function available; **NOK** – function not available/non-compatible

SIP phone / firmware version	FRITZ!Fon 7150 / 38.04.32
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	NOK
Keypad sequences (for VCM user control)	NOK

SIP phone / firmware version	snom M3 SIP/DECT / 1.22
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	Siemens Gigaset C475IP / 043.00
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	NOK
Keypad sequences (for VCM user control)	OK

4 SIP Terminal Devices: Wireless Phones with WLAN Technology

OK – function available; **NOK** – function not available/non-compatible

SIP phone / firmware version	AASTRA 312w / 1.0.9
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	ASCOM I75 WLAN / 1.6.12
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	Hitachi Cable Wireless IP5000
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	OK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	Siemens optiPoint WL2 Prof. S / 7.x
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	NOK
Keypad sequences (for VCM user control)	OK

SIP phone / firmware version	Siemens SL75 WLAN / 1.000.54
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Three Party Conference (3PTY)	OK
Call Forwarding (CFU, CFB, CFNR)	OK
Do not disturb (DND)	NOK
Keypad sequences (for VCM user control)	OK

5 SIP Terminal Devices: Analog Telephone Adapters for SIP

OK – function available; **NOK** – function not available/non-compatible

SIP ATA/ firmware version	AudioCodes MP-112 /
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	NOK
Call Swap	NOK
Call Transfer (CT)	NOK
Keypad sequences (for VCM user control)	NOK
Fax with SIP T.38	OK

SIP ATA/ firmware version	AudioCodes MP-202 / 2.6.1_build_2
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Keypad sequences (for VCM user control)	OK
Fax with SIP T.38	OK

SIP ATA/ firmware version	Grandstream HAT 503 / 1.00.5
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	NOK
Call Swap	NOK
Call Transfer (CT)	NOK
Keypad sequences (for VCM user control)	NOK
Fax with SIP T.38	NOK

SIP ATA/ firmware version	Linksys PAP 2 T / 3.3.6
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	NOK
Keypad sequences (for VCM user control)	NOK
Fax with SIP T.38	NOK

SIP ATA/ firmware version	Linksys SPA3000 / 3.3.6
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	NOK
Keypad sequences (for VCM user control)	NOK
Fax with SIP T.38	OK

SIP ATA/ firmware version	Patton M-ATA-1 / 4.03.002
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	NOK
Call Swap	NOK
Call Transfer (CT)	NOK
Keypad sequences (for VCM user control)	OK
Fax with SIP T.38	NOK

SIP ATA/ firmware version	Zyxel P 2302 R /
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	NOK
Keypad sequences (for VCM user control)	NOK
Fax with SIP T.38	OK

6 PBX Systems: Systems with SIP Support

OK – function available; **NOK** – function not available/non-compatible

SIP PBX / firmware version	Asterisk / 1.4.15
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Call Forwarding (CF)	OK
Fax with SIP T.38	NOK

SIP PBX / Firmwareversion	LANCOM VoIP Call Manager / 7.60
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Call Forwarding (CF)	OK
Fax with SIP T.38	OK

SIP PBX / firmware version	Swyx SwyxWare / v6.10
Incoming Call/Outgoing Call	OK
Consultation hold (HOLD)	OK
Call Swap	OK
Call Transfer (CT)	OK
Call Forwarding (CF)	OK
Fax with SIP T.38	OK

	Hold/Swap/Connect (Call Transfer)		Call Forwarding			Transfer/ Forwarding at the IP PBX (REFER) ⁶⁾
	SIP incoming from external pty ¹⁾	SIP outgoing from internal pty ²⁾	To external pty via ISDN line ³⁾	To external pty via SIP line ⁴⁾	To internal analog, ISDN, SIP subscriber ⁵⁾	

IP PBXs with SIP support						
Asterisk / 1.4.15	OK	OK	OK	OK	OK	OK
LANCOM VCM / 7.60	OK	OK	OK	OK	OK	OK
SwyxWare / v6.10	OK	OK	OK	OK	OK	OK

- 1) Call from IP PBX to the LANCOM VP-100 is connected to an ISDN telephone, from there to an analog telephone a/b₁, from there to an analog telephone a/b₂, from there to an Advanced VoIP Client, from there to a Cisco IP Phone 7912G (SIP).
- 2) The LANCOM VP-100 makes an outgoing call via the IP PBX and connects to an ISDN telephone, from there to an analog telephone a/b₁, from there to an analog telephone a/b₂, from there to an Advanced VoIP Client, from there to a Cisco IP Phone 7912G (SIP).
- 3) An incoming SIP call from the IP PBX is automatically forwarded over an external ISDN line to a mobile phone and an ISDN landline number.
- 4) An incoming SIP call from the IP PBX is automatically forwarded over the SIP PBX line to a mobile phone and an ISDN landline number.
- 5) An incoming SIP call from the IP PBX is automatically forwarded to a local ISDN subscriber, analog subscriber, and SIP subscriber.
- 6) An incoming SIP call from the IP PBX is transferred to a second subscriber over the same SIP PBX line as the incoming call with REFER method (Call Transfer at the IP PBX).