

Technical Bulletin

TC XXXX ed 01

OmniPCX Office

R 30

SIP TRUNK SOLUTION FL1.CH(CH): CONFIGURATION GUIDELINE ONE030

This document details how to set up an OXO Connect R30 for enabling a public SIP trunk of the Operator FL1.ch in CH target.

Revision History

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1 General

This document describes the from-scratch configuration of OXO ONE030 in the context of a SIP trunk solution connected to the public Operator **FL1.ch** and the **Convoip Trunk**. The setup is based on the OMC service "SIP Easy Connect" which permits to import a SIP Trunk Profile and then achieve the IPBX configuration in a simplified way.

- Warning For an easier OMC configuration and optimized usage of this guide, you should have at your disposal the reference SIP Trunk Profile delivered by ALE. This reference guide relies on the SIP Trunk Profile " CH_FL1.ch_ONE030_SIP_edxx.spf" published by ALE on its Web Portal. Full-manual configuration without using this profile is not recommended. Such operation is not straightforward and is just briefly depicted herein at the Ch.5 addendum.
- Note The bulletin TC1994 explains the overall usage of SIP Trunk profiles in OMC and details how to retrieve and

import the ALE profile of an approved Operator.

1.1 References

ALE International documentation available on the Business Partner Web Site:

- [1] Alcatel-Lucent OmniPCX Office Communication Server Expert Documentation
- [2] Technical Bulletin TC1284 Public SIP Trunking Interoperability and Technical Support Procedure
- [3] Technical Bulletin TC1994 SIP Easy Connect: SIP Trunk Profile Import/Export
- [4] Technical Bulletin TC1143 Security Recommendations For OmiPCXOffice RCE

1.2 Scope & usage of the configuration guide

This guide is intended for engineers who are familiar with OMC and with the basic setup of the IPBX. For simplification reasons, some well-known configurations as those for IP-LAN or "Traffic Sharing and Barring" are just reminded without any details

Warning In complement to the present guide, the installation must take into account the system security recommendations found in the bulletin TC1143.

The presentation of OMC menus and screenshots corresponds to the selection of the English language in the tool. Every configuration parameter has a specific name which is derived from its menu location in OMC. These parameters can be easily identified via the purple color and the heading sign \Im . Some examples:

• NP_International_Prefix = "00" (between quotes when value is freely editable in OMC)

GWmedia_RTP_Direct = False (no quotes when value is selected from a pick-list in OMC)

GWdom_IP_Address = (N/A) (when the parameter is hidden or disabled in OMC)

Although pre-configured by SIP Easy Connect, some few parameters may be subject to additional site tuning and are marked with a distinctive heading sign $\Im \circ \checkmark$. Example:

$rac{1}{2} \bullet \sqrt{GWdns_Prim_DNS} = "Address of the dns"$



Note The setting values given in the doc must be strictly respected, unless specific note or if the parameter name ends with "**_example**". Indeed, that suffix is a mark for site-dependent values needing to be customized. Example: **^e** Access_Channels_example = 4 As they are taken from a real customer site, those _example values carrying private data have been

1.3 Scope of ALE support

The support delivered for this SIP Trunk solution is strictly delimited by the approval context and the system configuration detailed in this document. The protocol and the functional aspects of the SIP trunk are in the scope but not the audio quality of calls for the part incumbent on the Operator or on the client's infrastructure. Beyond this, the deployment of the solution is submitted to the SLA conditions proper to the support model agreed: either LA mode (Limited Availability) or GA mode (General Availability).

Warning The support level ensured by ALE for the present solution (i.e. LA or GA) may vary in time and must be checked from the last TC1284 doc available on ALE's Web portal.

1.4 Software/ Hardware components on customer's infrastructure

INFRA COMPONENT	MODEL	VERSION (min compatible)
OXO IP-PBX system	OXO Connect	ONECH030/051.001
OMC Management Application	Alcatel-Lucent OMC	OMC30.0/24.1b

1.5 Feature List & Set Compatibility

1.5.1 Supported Features & Sets

The following tables list the main inter-operation features and the range of sets that are supported by the present solution. For each item, the status is given in the column "Support": "OK" (for full support), or "WR" (support with restriction), or "NOK" (for Not OK or Not Applicable), or "NT" (for Not Tested).

Note

For any doubt concerning the tables hereafter, or, if you want to contribute to the validation of items that are not yet tested, you can contact us by e-mail: sip-for-smb@al-enterprise.com



FL1.ch (ConVoip Tunk) TopoC - Hosted NAT with Direct RTP

	40x8 80x8 80X8s	40x9 80x9 Z DECT	IP DECT DAP's	MyIC 8082	8012	4135	8001	MyIC And.	MyIC IPhone	MyIC SIP
SETS Supported	ОК	ок								
USER Basic Features										
Outbound Basic Call	ОК	ОК								
Inbound Basic Call	ОК	ОК								
Inbound Call to DDI	ОК	ОК								
Call Release	ОК	ОК								
Call Hold & Music	ОК	ОК								
Emission of DTMF	ОК	ОК								
Reception of DTMF	ОК	ОК								
Internal Call Forward	WR	WR								
Internal Call Transfer	ОК	ОК								
CLIP Inbound	ОК	ОК								
CLIP Outbound	ОК	ОК								
Emergency Calls	ОК	ОК								
USER Extended Eesturee										
Extended Features	WR	WR								
External Call Transfer	WR	WR								
COLP	WR	WR								
Dynamic Call Routing	WR	WR								
Conference with 2 Ext.	ОК	OK								
Busy State	ок	ок								
General Preannouncement	ок	ок								
CLIR In & Outbound	ОК	ОК								

SYSTEM Global Features	Supported	
Outbound Fax T38	NT	
Inbound Fax T38	ОК	
Outbound Fax G711	ОК	
Inbound Fax G711	NT	

1.5.2 Restrictions

Internal Call Forward, External Call Forward, Dynamic Call Routing and COLP \rightarrow Issue with COLP feature. The SIP provider doesn't take into account the final speakers number. **External Call Transfer** \rightarrow Not tested in all the requested call scenarios.

2 System General Info and Basic Setup

2.1 Pre-required information

The table below gathers the specific SIP settings delivered by the Operator (empty values correspond to not relevant or not mandatory parameters). This data is necessary for completing the OXO configuration.

Data Type	Parameter role	Name in doc	Value
	OP Gateway IP@	GWdom_IP_Address	80.66.238.246
	OP GW Domain name	GWdom_Target_Domain	
	Outbound Proxy	GWdom_Outb_Proxy	
Provider-	DNS IP@ Prim	GWdns_Prim_DNS	(N/A)
specific	DNS IP@ Sec	GWdns_Sec_DNS	(N/A)
	Registrar IP address	GWreg_Reg_IP_Address	80.66.238.246
Registrar name		GWreg_Reg_Name	t42006b.convoip.ch
	SIP Realm	GWdom_Realm	
	Local Domain name	GWdom_Local_domain_Name	t42006b.convoip.ch
	Installation Number	NP_Instal_Number_example	5****
Site specific	Instal. Alternative CLI	SIPnum_Alt_CLIP_example	
(example	Public DDI range	NP_DDI_Range_example	31 39
values)	Registered Username	SIPaccnt_Reg_Username_example	C*********
-	Authentication Login	SIPaccnt_Login_example	C*****
	Password	SIPaccnt_Password	****

FL1.ch SIP TRUNK PARAMETERS

Note This data is fixed by the SIP provider and may vary upon the topology model or other criterias proper to the Operator. For the case of "Topology A" model (i.e. direct LAN or VPN connection on the Operator's network), the site data delivered by the Operator may also include the config. values for OXO's LAN.

Warning ALE may not be aware of changes made by the Operator. In case of any issue or doubt in relation with those basic SIP Trunk parameters, please contact the SIP Provider directly.

2.2 System Connection procedure

The configuration task involves on-line connection to the IPBX using the OMC Expert-level session. Setting up the LAN parameters for OXO (i.e. "IP address", "subnet mask" and "Def. Router Address") is consequently the prime action to complete. When connected, we recommend you select the English language in OMC via the menu <u>Options -> Language</u>.



2.3 Checking the SW license

A specific SW licence is mandatory to enable IP trunks on the system. In the OMC tab <u>Hardware and Limits -></u> <u>Software Key Features -> Multi-site</u>, check that the **number of IP Trunks** "Really activated" (i.e. the max number of channels simultaneously usable on the VOIP trunk) **is greater than zero** and well adapted to the customer site.

Software Key Features	X		
Voice communication Multi-site System features Call f	acilities Network Management CTI Authorized by Really software key activated	Note	The values highlighted in green are fixed by the
Call handling ISVPN service	Enabled Enabled	line	system SW license.
Call handling QSIG+ protocol	Enabled Enabled		
B channels	80 80		
IP Trunks	60 60		
2 B channels for mixed boards	10 10		

2.4 Numbering Plan configuration

2.4.1 Installation numbers

No matter the type of Trunk considered, OXO's handling of public numbers is first based on the "Installation Numbers" data configured in OMC <u>Numbering -> Installation Numbers</u>.

Installation Numbers		×
Installation Numbers		
Installation Number	0	5****
International Prefix	2	00
International Code	3	41
Intercity Prefix	4	0
Intercity Code	5	4*
Recall Prefix	6	0
Alternative System CLIP	Ø	
Private Installation Number		
Private Level2 Prefix		

- Check/ edit the corresponding numbers as illustrated above:



2.4.2 DDI numbers

Note

In OMC, the Public Numbering Plan permits to configure the DDI numbers allocated to the IPBX subscribers. On OMC, open the tab: <u>Numbering -> Numbering Plans – Public Numbering Plan</u>.

Numbering Plans	-		-	1.140.0	-	-	Number	latera .
Internal Numbering Plan	Publi	c Number	ing Plan	Restricted I	Public Numb	ering Plan	Private Nu	imbering Plan
Function		Start	End	Base	NMT	Priv	Fax	SIP Acc.Index
Subscriber	-	31	39	100	Drop	- No	•	-

- Check/ edit the configuration for "Public Numbering Plan":

• DDI range : The NP_DDI_Range_example = "31 39"

In conjunction with the configuration of section 2.4.1, this basic example allocates the DDI range " 31 39" to the range of extensions beginning at "100".

2.4.3 Internal Numbering Plan

Accessible from OMC <u>Numbering -> Numbering Plans</u> menu, the internal numbering plan is the place where dialing of internal phones is first analyzed by the OXO call server.

Numbering Plans								
Internal Numbering Plan	Pub	ic Numbe	ring Plan	Restricted F	^p ublic Number	ing Plan	Private Nu	imbering Plan
Function		Start	End	Base	NMT	Priv	Fax	SIP Acc.Index
Main Trunk Group	•	0	0	0	Drop	No	•	—
Cancel Mail Booking Mail Booking Broadcast Group		*#6 **6 *2	*#6 **6 *9	2	Drop Drop Drop	No No No		<u>^</u>
Main Trunk Group Subscriber Secondary Trunk Group)	0 100 200	0 199 299	ARS 100 ARS	Drop Drop Keep	No No Yes		

This example defines the access to the system ARS table for phone numbers dialed that start with digit 0. The "Drop" attribute also indicates that the initial 0 of the number is dropped before it is passed to the ARS Prefix table.

2.5 CLI for external Diversion

For the scenario of External Call Forwarding (i.e. Ext caller A -> Int subscriber B -> Ext destination C), this configuration permits to select the CLIP number transmitted to C (i.e. either A or B). The control can be made globally for all PBX users, or extension by extension.



From the tabs "Part 1" and "Part 2" of menu <u>System Misc -> Feature Design</u>, verify the parameters:

Feature Design	x
Ratt Data Data	Feature Design
Fart2 Fart3 Fart4	Part 1 Part 2 Part 3 Part 4 Part 5
🔲 Go to Initiator if Transfer fails	
Reservation for Conference	🔲 Transfer Ext/Ext
Disconnect last Group Memb	Joining Analog-ISDN
Conference Intrusion	Call waiting/Automatic camp on
X CLI for external diversion	CLI is diverted party if external caller
Transparent Access to PE Fe	CLI for VPS
	E S S S S S S S S S S S S S S S S S S S

After selecting an individual extension from the menu **Subscribers/Basestation List**, use the **Details** button to access the "Feature Rights" screen and then, adjust the CLI parameter in the same way:

Feature Rights	X
Phy. Add. No. Terminal	Name
01-001-01 100 Advanced	
Feature Rights Part 2	
📝 Transfer to external	Join incoming and incoming
Private Subscriber	Join incoming and outgoing
🔲 Inhibit Flag	Join outgoing and outgoing
🔲 Trunk Allot	Remote Substitution
DND override allowed	DDC Protection
Protection against DND override	Assign Auth. for MTR charge
MF Transparency	Inhibition Time ranges
CLI is diverted party	Remote custom. Company greeting
Conference Bridge Allowed	Remote customization
OK Cancel	Part 3

2.6 Traffic Sharing and Barring (reminder)

Though it's not described here, a correct configuration of traffic sharing, barring and subscriber's feature rights is necessary for enabling outbound calls and other features over the SIP trunk.



3.1 Importing the Operator's reference profile (SIP Easy Connect)

Warning For proceeding with next configuration steps, you should have on your PC the file " CH_FL1.ch_ONE030_SIP_edxx.spf" which is the SIP Trunk Profile associated to this guide.

Note

If you don't have the dedicated profile file mentioned here above, please read carefully the particular instructions of Ch.6 Addendum before proceeding.

The drawing hereafter summarizes the import steps (operation detailed in the Bulletin TC1994).

File Comm View Options ?	
D 📽 🔜 🖷 🗳 🛃 🛛 🤋	
OMC Import/Export	
Manager-S Subscribers List of A List of T Traffic Traffic Traffic Traffic Sharing & Barring Traffic Sharing & Barring Subter Network Management Control System Miscellaneous List of T Hile C://CH_FL1.ch_ONE030_SIP_e Import @ Data Type spf SIP Trunk Profile Import @ Export Edit Return Return Return Traffic Sharing & Barring System Miscellaneous Data Saving & Swapping Central Services Global Info WLAN D Dect	SIP Trunk Profile: Import The following SIP Trunk profile will be imported in the system: Profile Information Profile name CH_FL1.ch_ONE030_SIP_edxx.spf Define the way the SIP Trunk configuration data will be imported in the system: SIP Gateway parameters Addition mode Replacement mode Select the SIP gateway to update: Image: Select the SIP gateway to update: Image: Deverwriting of VoIP global parameters Image: Depending on your above selections, some configuration data may be lost! Image: Depending on your above selections, some configuration data may be lost!

Warning Reminder: once the Operator profile has been successfully imported, you need to carry on a system reboot (warm reset).



3.2 Creating the Voip Trunk

On OMC, open the tab External Lines -> List of Accesses and click on "Add Voip" to create a VOIP Trunk.

🕀 🏠 Subscribers Misc		List of Accesses				23
🖨 🍓 External Lines						
		Phy. Add.	🔘 Асс. Туре	Identifier	No of Chan.	Add VolP
						Delete
⊨ <u> </u> ISIP						
						Details
SIP Public Numbering						
	=					
Traffic Counters						

3.3 Assigning the trunk to a Gateway

Complete then the requested parameters

VoIP-Trunk	×
Phy. Add. Type Identifier Trunk Channels VolP 4 3	Speed Dial
Metering Counters	Link-Cat
Meter part. 0 Reset	
Meter total 0	
Reserve VoIP Channels for the Trunk Channels Out of Service (logical) Y Public trunk	
Gateway Index FL1.ch	4
Gateway Alive Status	
Alternative CLIP/COLP Number	2
OK Cancel	

Then, configure the parameters corresponding to this VoIP Access:

- ④ "Gateway Index" :
- Gatway Index = FL1.ch



3.4 Hosting System Trunk Group

To enable phone calls over the SIP trunk, it's also necessary to have this latter included within one Trunk Group of the system. Two alternative cases (variants) are considered here below.Select the OMC menu <u>External Lines ->List of Trunk Groups</u> and carry out the selections and push-button steps shown in the following picture (i.e. step1 to step 5 depicted by blue digits 1 to 5)



1) As a configuration variant, at step 2 you can include the SIP trunk access into the OXO's main Trunk Group (i.e. step 2a for index #1) or into one of the secondary Trunk Groups (e.g. step 2b for index #2).

Note The SIP trunk can be placed freely into one or several Trunk Groups of the system thus permitting to manage a differentiated control of traffic sharing for internal subscribers. The index number selected at step 2a or 2b is relevant for the further configuration of section 3.4.

3.5 ARS Trunk Groups Lists

To enable voice calls via the ARS system, it's necessary to have ARS Trunk Groups created via the OMC menu <u>Numbering -> Automatic Routing Selection -> Trunk Groups Lists.</u>

Note

In this menu, new lines are created after clicking the mouse right button and selecting function "Add".



омс	Trunk G	roups Lists							
	List ID	Index	No.	Ch	ar Provider	Access	Auth.C	ode ID	Tone/Pa
	1	1	2		None		None		None
	Con 1	11.1							
🖮 🚞 Automatic Routing Selection	Selecti	on List							
- Automatic Routing: Prefi	۲	\bigcirc	\odot	\bigcirc	0			\bigcirc	
Gateway Parameters	Objc	Phy.Addr.	Internal No.	Public	Private	Ident	Nbr.B-	Туре	
		Index	INO.	INO.	INO.		Unannei		
	BDL	1	400					Sequential	
Trunk Groups Lists	BDL	3	401		3			Sequential	
	BDL BDI	4	402 403		Ũ			Sequential Sequential	
	BDL	ĕ	404					Sequential	
	BDL BDL	7	405 406					Sequential Sequential	
		Ť							
	III	4							
ARS Miscellaneous		ΟΚ	Cancel						
Collective Speed Dialing			Cancer						
🕀 🕂 Emergency				_		_		_	

Carry out the selections and push-button of steps 1 to 4 above. At step 3, you need to select the line index corresponding to the System Trunk Group previously defined at section 3.4 .

3.6 Complementary Setup

The steps of Ch. 3.6 are needed for completing the OMC configuration not managed by SIP Easy Connect.

3.6.1 ARS Prefixes

ARS Prefixes are used in the system to build up the routing table of external calls. The initial digits dialed by a user are looked-up in the table lines, trying to match an existing prefix/range number. Whenever a match line is found, the call is conveyed thru the specific trunk gateway (GW index) associated to this line.

On OMC, go to menu Numbering -> Automatic Routing Selection -> Automatic Routing Prefixes.





As illustrated in the following picture, you can first insert a route-line covering all type of external calls: use the Add function to create a new line and then, configure the line parameters as indicated.

Automatic Routing: Prefixes											
Activation	Netw	Prefix	Ranges	Substitute	TrGpList	Called(ISVPN/H450)	User comment	Metering	Calling	Called/PP	
Yes	pub	0	0-9	0	1	het		Blank	default	default	

In the call routing table, additional lines can be created to cope with specific public phone numbers (e.g. short numbers or emergency numbers). Here below is a typical example for France, comprising four Prefix entries/ ranges (customized values in area 1 and 2):

Automatic Routing: Prefixes												
Activation	Netw	Prefix	Ranges	nges Substitute TrGpList Called(ISVPN/H45					User comment	Metering	Calling	Called/PP
Yes	pub	0	0-9	0	1		hom		Line 1	Blank	default	default
Yes	emerg			0	1				Line 2	Blank	default	default
Yes	pub	3	0-9	3	1				Line 3	Blank	default	pub shortN
Yes	pub	1	0-9	1	1				Line 4	Blank	default	pub shortN
(1)						2					3	

- Line 1: copes with standard phone numbers starting with digit 0 (national / international calls)
- Line 2: copes with all public emergency numbers. The network attribute "emerg" permits the line to
 point automatically to the system list of emergency numbers. This list is country-dependent and can
 be edited via the OMC menu <u>Emergency-> Emergency Numbers</u>
- Line 3 and 4: for external short numbers. Depending on the country, the complete list of short numbers will require one or several ARS lines.
 - Line 3: example for France, for short numbers that begin with digit 3 (e.g. 3611, 3900, ...)
 - Line 4: example for France, for short numbers that begin with digit 1 (e.g. 11, 118712, ...)

In area 3, "Calling" and "Called/PP" fields must be set as shown in the example. In area 2 and 4, values must also be respected:

3.6.2 ARS SIP Accounts

The menu <u>Numbering -> Automatic Routing Selection -> SIP Accounts</u> permits to configure the user credentials delivered by the SIP Operator for authentication.

ОМС	SIP Accounts									
📮 🀔 External Lines 🔷		Login	Password	Registered Username	Gateway Parame	eters Index RFC 6140				
- Eist of Accesses	1	C********	****	C*********	FL1.ch	False				
					@					
ia - 💼 SIP		U	<i>v</i>	9	Ð	9				
SIP Gateways										
SIP Accounts										
SIP Public Numbering										
Traffic Counters										



- ④ the "Gateway Parameters Index" must point to the relevant gateway (i.e. index 1)

Note

For solutions using several individual lines, it is necessary to create one SIP Account line per line (multiaccount configuration). Otherwise, for other trunk situations a single SIP Account line is generally sufficient.

3.6.3 VoIP Topology Tab

Configuration of "static SIP/NAT" is required for solutions using the topology model referred as "Topology D" (**NOT relevant for this operator**).

Warning Reminder: on the local CPE router, port forwarding to OXO of the relevant SIP ports must be configured accordingly.



3.6.4 System Flags

Some specific "Noteworthy addresses" not imported by SIP Easy Connect need to be configured manually. **These system flags are listed at the bottom part of Table 1 in the configuration abstract of Ch.5.**

The access to the system flags is made with the OMC menu <u>System Miscellaneous -> Memory Read/Write</u> (<u>Debug Labels</u> or <u>Other Labels</u>). Please refer to the indications and comments given in the configuration abstract Table and apply carefully the required flag changes on OMC.



3.7 Adjustments (fine tuning)

The configuration steps of Ch. 3.7 refer to particular adjustments you can carry on over the data imported by SIP Easy Connect (data highlighted within the OMC screenshots).

3.7.1 VoIP General Tab

Open the OMC tab via the menu Voice Over IP -> VOIP:Parameters - General

омс	VoIP: Parameters	
Voice Over IP	VoIP: Parameters	x
VoIP: Traffic Counters	General Gateway SIP Trunk SIP Phone	
🗟 🖶 System Miscellaneous	VoIP Channels	
History & Anomalies	VoIP Channels mode Multi-codecs	-
표····论) Data Saving & Swapping 표····································	Number of VoIP Channels	128
🖅 🎊 Multiple Automated Attendant	VoIP Channels for trunks with reservation	0
Central Services Global Info	VoIP Channels for IP phones and trunks without reservation	128
	Number of Trunk Channels for trunks without reservation	1
	IP Quality of Service ① 10111000 DIFFSERV_PHB_t	F

Adjust the IP Quality of Service of VoIP trunks (RTP flow):

 ① ☞●✓ VoIPgen_IP_QoS_example = 10111000 DIFFSERV_PHB_EF

3.7.2 VoIP Advanced Tab

Open the OMC tab via the menu <u>Voice Over IP -> VOIP:Parameters - SIP Trunk</u> <u>In any of the tabs, click on advanced</u>



OMC	Vo	DIP: Parameters					
Hardware and Limits		VoIP: Parameters					
🗄 🖓 Metering	115						
🗄 🚳 Traffic Sharing & Barring		Advanced parameters					
🗄 📳 Network Management Control							
🖃 🤷 Voice Over IP		Label	Туре	Format	Value		
WoIP: Parameters		dmsipphone_sess_tim	dword	dec	0		
VoIP: Traffic Counters		ms_inbandmf_level	word	dec	0		
🗄 🚠 System Miscellaneous		Silence_supp_sdp	bool		false		
H. H. Import/Export		_sip_g711a_vad	bool		false	_	r
History & Anomalies		sipgw_nat_ka	dword	dec	120		
History & Anomalies		sipphone_sess_tim	dword	dec	0		
🗄 😳 Data Saving & Swapping		sipphone_src_tls_port	dword	dec	0		
🗄 🍓 Call Distribution Services 🛛 🗕		sipvml_use_unnotify	bool		false		
🗄 🏥 Multiple Automated Attendant							

In case of Dynamic Mode, adapt the value of the "sipgw_nat_ka" timer to the router "NAT keep Alive Timer" used to connect to the SIP provider.

Warning This is the periodic timer used to send a SIP "OPTION" message to the provider. It can be used to maintain the router bindings opened for receiving incoming requests. Each router Brand/Release/Version may have a specific timer value not known by ALE. In case of any issue or doubt in relation with this parameter, please contact the SIP or router Provider directly.

3.7.3 VoIP SIP Trunk Tab

Open the OMC tab via the menu Voice Over IP -> VOIP:Parameters - SIP Trunk

ОМС	VoIP: Parameters
🗄 🖓 Subscribers Misc 🔺	VoIP: Parameters
🚊 🅰 External Lines	
List of Accesses	General Gateway SIP Trunk SIP Phone
List of Trunk Groups	
⊨ <u>fi</u> SIP	IP Quality of Service for Signal 10111000 DIFFSERV_PHB_EF
SIP Gateways	SIP Trunk Signal Source Port 5060
SIP Public Numbering	False UDP to TCP Switching
	Blacklist Behavior
Traffic Counters	90 🚔 Message Peak Number
Incoming Call Handling	
🖶 🖅 Hardware and Limits	3 s Period Peak Detection
🖶 🚳 Metering	360 🚔 min Quarantine Time
🗄 📲 Traffic Sharing & Barring	
🗄 🕄 Network Management Control	True RTP Proxy: Fixed ports
🗄 🐻 Voice Over ID	

-Adjust the IP Quality of Service of SIP Trunk messages (SIP signaling) : ① ☞ ● ✓ VoIPsiptrk_QoS_example = 10111000 DIFFSERV_PHB_EF



3.7.4 Gateway Media Tab

Double-click on menu External Lines -> SIP -> SIP Gateways

①. A new window "Gateway Parameters List" is displayed that focuses the index entry #1 of the SIP Operator.



Press the button "Details" ② and then select the Media tab of the window "Gateway Parameters Details".

омс	SIP Gateways							
External Lines	Gateway Parameters Details							
	General Domain Proxy Registration Media DNS Identity Protocol Top							
🖃 💼 SIP								
SIP Gateways	RTP Direct							
SIP Accounts	Codec pass-through for SIP trupks							
SIP Public Numbering								
	G711 codec for Music on Hold and preannouncement							
	Voice Active Detection							
Incoming Call Handling	Gataway Bandwidth 🔿 >=1024 kBit/s							
🕀 🗫 Hardware and Limits								
🗄 🖓 Metering	DTMF Out-Of-Band (RFC 4733) 🔻							
🗄 📲 Traffic Sharing & Barring	DTMF Dynamic Payload 101 🚔							
🗄 🖏 Network Management Contro								
🖃 🧑 Voice Over IP 🛛 🗧	Enced Codec/Framing							
VoIP: Parameters	None +							

Adjust Bandwidth to the site context:

• ① ☞ ● ✓ GWmedia_Bwidth_example = >=1024 kBit/s

3.7.5 Gateway DNS Tab

From the menu <u>External Lines -> SIP -> SIP Gateways</u>, select the DNS tab of the window "Gateway Parameters Details".



Gateway Parameters Details		X
General Domain Proxy Re	egistration Media DNS Identity Proto	
DNS	Disabled	
Primary DNS Server	(N/A)	
Secondary DNS Server	(N/A)	

Replace the IP address 8.8.8.8 by the private IP address of the LAN router (same value configured as "Default Router Address" in OMC menu <u>HW & Limits -> LAN-IP configuration -> LAN Configuration Tab</u>)

① ☞ ● ✓ GWdns_Prim_DNS = (Default Router IPV4 Address)

3.7.6 Gateway Domain_Proxy Tab

The Operator will confirm the exact IP address of its SIP server to be configured in OMC. Use the OMC menu <u>External Lines -> SIP -> SIP Gateways</u> then press the button "Details" and then select the Domain Proxy tab of the window "Gateway Parameters Details".

	,	
Gateway Parameters Details		×
General Domain Proxy Registrati	ion Media DNS Identity Protocol	
ІР Туре	Static	
IP Address	80.66.238.246	
Hostname		
Default Transport Mode	UDP	

Change if necessary the IP address imported from the SIP profile to the relevant values defined by the SIP Operator FL1.ch :

☞●✓	GWdom	IP	Address	=	
☞●✓	GWdom	_IP_	Address	=	



4 SIP trunk Configuration Abstract

The following tables gather the overall system configuration (the ' \checkmark ' sign of the SEC column corresponds to the values imported via the SIP Easy Connect facility).

CONFIG OXO ONE030	VALUE	SEC	REMARK
	/Numbering/		
NP_Instal_Number_example	5****		Value given as example
NP_International_Prefix	00		
NP_International_Code	41		
NP_Intercity_Prefix	0		
NP_Intercity_Code_example	4*		Value given as example
NP_Recall_Prefix	0		
NP_System_Alt_CLIP_example			Value given as example
NP_DDI_Range_example	31 39		Value given as example
	/Numbering/ ARS		
ARS_Called_Mode	hom		
	/External Lines/ ListOf Accesses -V	/oIP	
Access_is_Public	True		
Access_Alt_CLIP_example			Value given as example
Access_Channels_example	4		Value given as example
	/ Misc/Feature Design		
Misc_CLI_Ext_Diversion	True		
Misc_CLI_is_Diverted_Party	False		
	/ Misc/Memory Read-Write		

Table 1 (System General)

Table 2 (Voice Over IP)

CONFIG OXO ONE030	VALUE		REMARK				
/VoIP/VoIP Parameters/General							
VoIPgen_IP_QoS_example	10111000 DIFFSERV_PHB_EF	\checkmark	Value given as example				
/VoIP/VoIP Parameters/SIP Trunk							
VoIPsiptrk_QoS_example	10111000 DIFFSERV_PHB_EF	\checkmark	Value given as example				
VoIPsiptrk_SIPSourcePort	5060	\checkmark					
VoIPsiptrk_RTPpxyPortsFixed	True	\checkmark					
VoIPsiptrk_UdpToTcp	False	\checkmark					

Table 3 (SIP Accounts)

CONFIG OXO ONE030	VALUE		REMARK		
/External Lines/SIP/SIP Accounts					
SIPaccnt_Login_example	C*******		Value masked partially		
SIPaccnt_Password	****				
SIPaccnt_Reg_Username_example	C*******		Value masked partially		
SIPaccnt_RFC6140_Enabled	False				



Table 4 (SIP Public Numbering)

CONFIG OXO ONE030	VALUE	SEC	REMARK			
/External Lines/SIP/Public Numbering						
SIPnum_Out_Calling_Format	International	\checkmark				
SIPnum_Out_Calling_Prefix		\checkmark				
SIPnum_Out_Called_Format	International	\checkmark				
SIPnum_Out_Called_Prefix		\checkmark				
SIPnum_Out_Called_Short_Prefix		\checkmark				
SIPnum_Inc_Calling_Format	Canonical/International	\checkmark				
SIPnum_Inc_Calling_Prefix		\checkmark				
SIPnum_Inc_Called_Format	Canonical/International	\checkmark				
SIPnum_Inc_Called_Prefix		\checkmark				
SIPnum_Alt_CLIP_example			Value given as example and masked			

Table 5 (GW Parameters)

CONFIG OXO ONE030	VALUE	SEC	REMARK				
/External Lines/SIP/SIP Gateways/Details/Domain Proxy							
GWgen_eod_timeout	5.0 s	\checkmark					
GWgen_eod_table_used	True	\checkmark					
/External Lines/SIP/SIP Gateways/Details/Domain Proxy							
GWdom_IP_Type	Static	\checkmark					
GWdom_IP_Address	80.66.238.246	\checkmark	Dynamic value				
GWdom_Def_Transport	UDP	\checkmark					
GWdom_Target_Domain		\checkmark					
GWdom_Local_Domain_Name	t42006b.convoip.ch	\checkmark					
GWdom_Realm		\checkmark					
GWdom_Remote_SIP_Port	5083	\checkmark	Dynamic value				
GWdom_Outb_Proxy		\checkmark					
	/External Lines/SIP/SIP Gateways/Details/	Regis	tration				
GWreg_Reg_Requested	True	\checkmark					
GWreg_Check_Before_Req	False	\checkmark					
GWreg_Reg_Name	t42006b.convoip.ch	\checkmark					
GWreg_Reg_IP_Address	80.66.238.246	\checkmark	Dynamic value				
GWreg_Reg_Port	5083	\checkmark	Dynamic value				
GWreg_Reg_Expire_Time	120	\checkmark					
GWreg_Reg_AoR_In_Contact	False	\checkmark					
GWreg_Reg_AoR_In_From	False	\checkmark					
GWreg_Reg_AoR_In_PAI	False	\checkmark					
GWreg_Reg_AoR_In_PPI	False	\checkmark					
GWreg_Reg_AoR_In_Rsv1	False	\checkmark					
GWreg_Reg_AoR_In_Rsv2	False	\checkmark					
GWreg_Reg_AoR_In_Rsv3	False	\checkmark					
GWreg_Reg_AoR_In_Rsv4	False	\checkmark					
GWreg_RFC3327_Enabled	False	\checkmark					
	/External Lines/SIP/SIP Gateways/Details/Media						
GWmedia_RTP_Direct	True	\checkmark					
GWmedia_Trunk_Codec_Passthru	True	\checkmark					
GWmedia_G711_MOH	False	\checkmark					



GWmedia_DSP_VAD	False	\checkmark	
GWmedia_Bwidth_example	>=1024 kBit/s	\checkmark	
GWmedia_DTMF_Mode	Out-Of-Band (RFC 4733)	\checkmark	
GWmedia_DTMF_Payload	101	\checkmark	Value given as example
GWmedia Forced Codec Framing	None	\checkmark	
GWmedia Selected Codecs	G711.a G711.u	\checkmark	
GWmedia Preferred Framing	20 ms	\checkmark	
GWmedia Fax Mode	T38	\checkmark	
GWmedia T38 Add Signal	CNG	\checkmark	
GWmedia T38 CED Tone	True	\checkmark	
GWmedia T38 UDP Redundancy	1	\checkmark	
GWmedia T38 Fax Framing	0	\checkmark	
GWmedia T38 ECM	False	\checkmark	
	/External Lines/SIP/SIP Gateways/Deta	nils/D	NS
GWdns DNS Mode	Disabled	√	
GWdns Prim DNS	(N/A)	\checkmark	
GWdns Sec DNS	(N/A)	\checkmark	
	/Fxternal Lines/SIP/SIP Gateways/Detail	s/Tde	ntity
GWident REC3325		√ 	
GWident Routing To Header	False	\checkmark	
GWident_HistInfo_DivHeader	Diversion	\checkmark	
	P-Asserted-Identity P-Preferred-Identity From	\checkmark	
	Reserved-1 Reserved-2 Reserved-3 Reserved-4		
GWident Inc CLI Headers	Reserved-5		
GWident Out CLI PPI Used	False	\checkmark	
GWident Out CLI PAI Used	True	\checkmark	
	P-Asserted-Identity P-Preferred-Identity Contact	\checkmark	
	To Reserved-1 Reserved-2 Reserved-3		
GWident_Out_COLP_Headers	Reserved-4		
GWident_AltCLIP_Contact	True	\checkmark	
GWident_AltCLIP_From	True	\checkmark	
GWident_AltCLIP_PAI	True	\checkmark	
GWident_AltCLIP_PPI	True	\checkmark	
GWident AltCLIP Rsv1	False	\checkmark	
GWident AltCLIP Rsv2	False	\checkmark	
GWident_AltCLIP_Rsv3	False	\checkmark	
GWident_AltCLIP_Rsv4	False	\checkmark	
GWident_EmergLocID_PANI	False	\checkmark	
-	/External Lines/SIP/SIP Gateways/Details	s/Prot	tocol
GWprot_SessTimer_Time	60 min	\checkmark	
GWprot_PEM_Enabled	False	\checkmark	
GWprot_UPDATE_Enabled	True	\checkmark	
GWprot_PRACK_Enabled	True	\checkmark	
GWprot_GWalive_Prot	SIP Option	\checkmark	
GWprot_GWalive_Timer	300	\checkmark	
GWprot_RFC4904_Enabled	False	\checkmark	
GWprot RFC4904 Trk GID		\checkmark	
GWprot_RFC4904_Trk_Context		\checkmark	
	/External Lines/SIP/SIP Gateways/Details	/Topo	blogy
GWtopo SNAT Enabled	False	\checkmark	
GWPtopo_SNAT_PubIP	(N/A)	\checkmark	Value given as example and masked
GWPtopo_SNAT_SIP_Port	(N/A)	\checkmark	Value given as example
GWPtopo_SNAT_RTP_Range	(N/A)	\checkmark	Value given as example
. = = = 5			- ·



/External Lines/SIP/Gateway Parameters Details/Advanced parameters GWadv_auth_optimize false ✓ GWadv_ExtNuFoVoip 22 ✓ GWadv_FaxPasCd 01ff ✓ GWadv_inhibit_138 0 ✓ GWadv_inhibit_reg_username false ✓ GWadv_inhibit_reg_username false ✓ GWadv_MultAnsReinv true ✓ GWadv_multiple_option_req false ✓ GWadv_no_rport 00 ✓ GWadv_PrefCodec 0000 ✓ GWadv_FrefPraming 0 ✓ GWadv_SimulIpAlt true ✓ GWadv_Sipgu_fax_offer false ✓ GWadv_Sipgw_namedisp false ✓	GWPtopo_SNAT_T38_Range	(N/A)	\checkmark	Value given as example		
GWadv_auth_optimizefalse✓GWadv_ExtNuFoVoip22✓GWadv_FaxPasCd01ff✓GWadv_inhibit_t380✓GWadv_initial_reg_usernamefalse✓GWadv_INVwSDPtrkfalse✓GWadv_MultAnsReinvtrue✓GWadv_multiple_option_reqfalse✓GWadv_multiple_option_reqfalse✓GWadv_PrefCodec000✓GWadv_PrefFraming0✓GWadv_SimuIpAlttrue✓GWadv_SimuIpAlttrue✓GWadv_Sipgam_anedispfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	/External Lines/SIP/Gateway Parameters Details/Advanced parameters					
GWadv_ExtNuFoVoip22ÝGWadv_FaxPasCd01ffÝGWadv_inhibit_t380ÝGWadv_initial_reg_usernamefalseÝGWadv_INVwSDPtrkfalseÝGWadv_MultAnsReinvtrueÝGWadv_multiple_option_reqfalseÝGWadv_MYICcaller00ÝGWadv_PrefCodec0000ÝGWadv_PrefEraming0ÝGWadv_SimulIpAlttrueÝGWadv_Sip_capafalseÝGWadv_Sipgw_fax_offerfalseÝGWadv_sipgw_namedispfalseÝGWadv_sipgw_prefid0ÝGWadv_sipgw_prefid0Ý	GWadv_auth_optimize	false	\checkmark			
GWadv_FaxPasCd01ff✓GWadv_inhibit_t380✓GWadv_inhibit_t380✓GWadv_inhibit_reg_usernamefalse✓GWadv_INVwSDPtrkfalse✓GWadv_MultAnsReinvtrue✓GWadv_multiple_option_reqfalse✓GWadv_multiple_option_reqfalse✓GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_FrefFraming0✓GWadv_sip_capafalse✓GWadv_SIPCtmInBfalse✓GWadv_SIPctmInBfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_ExtNuFoVoip	22	\checkmark			
GWadv_inhibit_t380✓GWadv_initial_reg_usernamefalse✓GWadv_INVwSDPtrkfalse✓GWadv_MultAnsReinvtrue✓GWadv_multiple_option_reqfalse✓GWadv_myICcaller00✓GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_frc4916_off0✓GWadv_sip_capafalse✓GWadv_SIPdtmfInBfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_FaxPasCd	01ff	\checkmark			
GWadv_initial_reg_usernamefalse✓GWadv_INVwSDPtrkfalse✓GWadv_MultAnsReinvtrue✓GWadv_multiple_option_reqfalse✓GWadv_multiple_option_reqfalse✓GWadv_no_rport00✓GWadv_PrefCodec0000✓GWadv_rfc4916_off0✓GWadv_sip_capafalse✓GWadv_SIPtdmfInBfalse✓GWadv_sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_inhibit_t38	0	\checkmark			
GWadv_INVwSDPtrkfalse✓GWadv_MultAnsReinvtrue✓GWadv_multiple_option_reqfalse✓GWadv_MYICcaller00✓GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_PrefFraming0✓GWadv_SimulIpAlttrue✓GWadv_sip_capafalse✓GWadv_Sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_initial_reg_username	false	\checkmark			
GWadv_MultAnsReinvtrue✓GWadv_multiple_option_reqfalse✓GWadv_MYICcaller00✓GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_PrefFraming0✓GWadv_SimulIpAlttrue✓GWadv_Sip_capafalse✓GWadv_Sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓	GWadv_INVwSDPtrk	false	\checkmark			
GWadv_multiple_option_reqfalse✓GWadv_MYICcaller00✓GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_PrefFraming0✓GWadv_rfc4916_off0✓GWadv_SimulIpAlttrue✓GWadv_Singurfacapafalse✓GWadv_sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_MultAnsReinv	true	\checkmark			
GWadv_MYICcaller00✓GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_PrefFraming0✓GWadv_fc4916_off0✓GWadv_SimulIpAlttrue✓GWadv_sip_capafalse✓GWadv_SiPdtmfInBfalse✓GWadv_sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_multiple_option_req	false	\checkmark			
GWadv_no_rport0✓GWadv_PrefCodec0000✓GWadv_PrefFraming0✓GWadv_rfc4916_off0✓GWadv_simulIpAlttrue✓GWadv_sip_capafalse✓GWadv_SIPdtmfInBfalse✓GWadv_sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_MYICcaller	00	\checkmark			
GWadv_PrefCodec0000✓GWadv_PrefFraming0✓GWadv_rfc4916_off0✓GWadv_SimulIpAlttrue✓GWadv_sip_capafalse✓GWadv_SIPdtmfInBfalse✓GWadv_sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_no_rport	0	\checkmark			
GWadv_PrefFraming0✓GWadv_rfc4916_off0✓GWadv_SimulIpAlttrue✓GWadv_sip_capafalse✓GWadv_SIPdtmfInBfalse✓GWadv_sipgw_fax_offerfalse✓GWadv_sipgw_namedispfalse✓GWadv_sipgw_prefid0✓	GWadv_PrefCodec	0000	\checkmark			
GWadv_rfc4916_off 0 ✓ GWadv_SimulIpAlt true ✓ GWadv_sip_capa false ✓ GWadv_SIPdtmfInB false ✓ GWadv_sipgw_fax_offer false ✓ GWadv_sipgw_namedisp false ✓ GWadv_sipgw_prefid 0 ✓	GWadv_PrefFraming	0	\checkmark			
GWadv_SimulIpAlt true ✓ GWadv_sip_capa false ✓ GWadv_SIPdtmfInB false ✓ GWadv_sipgw_fax_offer false ✓ GWadv_sipgw_namedisp false ✓ GWadv_sipgw_prefid 0 ✓	GWadv rfc4916 off	0	\checkmark			
GWadv_sip_capa false ✓ GWadv_SIPdtmfInB false ✓ GWadv_sipgw_fax_offer false ✓ GWadv_sipgw_namedisp false ✓ GWadv_sipgw_prefid 0 ✓	GWadv SimulIpAlt	true	\checkmark			
GWadv_SIPdtmfInB false ✓ GWadv_sipgw_fax_offer false ✓ GWadv_sipgw_namedisp false ✓ GWadv_sipgw_prefid 0 ✓	GWady sip capa	false	\checkmark			
GWadv_sipgw_fax_offer false GWadv_sipgw_namedisp false GWadv_sipgw_prefid 0	GWady SIPdtmfInB	false	\checkmark			
GWadv_sipgw_namedisp false GWadv_sipgw_prefid 0	GWady sipgw fax offer	false	\checkmark			
GWadv_sipgw_prefid 0 🗸	GWady sipgw namedisp	false	\checkmark			
	GWady sipgw prefid	0	\checkmark			
GWady singw priv lyl false	GWady singw priv lyl	false	\checkmark			
GWadv sipgw reg trigger 01 0 √	GWadv sipgw reg trigger 01	0	\checkmark			
$GWadv$ sipgw reg trigger 02 0 \checkmark	GWadv sipgw reg trigger 02	0	\checkmark			
GWadv_sipqw_reg_trigger_03 0 ✓	GWadv_sipgw_reg_trigger_03	0	\checkmark			
GWadv_sipqw_reg_trigger_04 0 ✓	GWadv_sipgw_reg_trigger_04	0	\checkmark			
GWadv_sipgw_reg_trigger_05 0 ✓	GWadv_sipgw_reg_trigger_05	0	\checkmark			
GWadv_sipqw_reg_trigger_06 0 ✓	GWadv_sipgw_reg_trigger_06	0	\checkmark			
GWadv_sipqw_reg_trigger_07 0 ✓	GWadv_sipgw_reg_trigger_07	0	\checkmark			
GWadv sipgw reg trigger 08 0 ✓	GWadv sipgw reg trigger 08	0	\checkmark			
GWadv_sipqw_reg_trigger_09 0 ✓	GWadv_sipgw_reg_trigger_09	0	\checkmark			
GWadv sipgw reg trigger 10 0 √	GWadv sipgw reg trigger 10	0	\checkmark			
GWadv_sipqw_regid 0 ✓	GWadv_sipgw_regid	0	\checkmark			
GWadv_sipqw_rem_maxptime 0 ✓	GWadv_sipgw_rem_maxptime	0	\checkmark			
GWadv_sipgw_Reg_URI_route_call false	GWadv_sipgw_Req_URI_route_call	false	\checkmark			
GWadv sipgw to ruri false ✓	GWadv sipgw to ruri	false	\checkmark			
GWadv sipgw voip caun false ✓	GWadv sipgw voip caun	false	\checkmark			
GWadv_SIPInDspNm 01 ✓	GWadv_SIPInDspNm	01	\checkmark			
GWadv SIPOgDspNm 01 √	GWadv SIPOqDspNm	01	\checkmark			
GWadv special char truncation false ✓	GWadv special char truncation	false	\checkmark			
GWady SuprAlerTone false ✓	GWady SuprAlerTone	false	\checkmark			
GWady t4 jit 0 ✓	GWady t4 jit	0	\checkmark			
GWady trigger alert false	GWady trigger alert	false	\checkmark			
GWady USalterfrom false	GWady USalterfrom	false	\checkmark			
GWady userlylpri false ✓	GWady userlylpri	false	\checkmark			
GWadv_v21_jit 0 ✓	GWadv_v21_jit	0	\checkmark			



5 ADDENDUM: Configuration without SIP Easy Connect

If you can't import the dedicated profile file of the Operator, you will need then to configure all SIP data manually. Such operation is not recommended as SIP Easy Connect makes the process easier and safer. As an additional constraint, **you must follow strictly and carefully the stages 1 to 5 hereafter** which supersede the chapter organization of this guide:

- Stage 1): complete normally all steps of the guide until reaching Ch.3
- **Stage 2**): complete steps of the guide from chapter 3.2 and create manually a new SIP Gateway entry as illustrated in the following picture:
 - Double-click on menu <u>External Lines -> SIP -> SIP Gateways</u> ①.
 - A new window "SIP Gateways" is displayed.
 - Press the button "Create" 2. A second window "Gateway Parameters Details" is displayed.

OMC	SIF	Gateways	
Broadcast Groups	^ s	IP Gateways	23
Manager-Secretary Relations		SIP Gateways List	
🗈 🖧 Subscribers Misc		Index Label IP Type IP Address Hostname Domain Name	
🖶 🌊 External Lines			
List of Accesses			Create
List of Trunk Groups			Details
E-C SIP		Gateway Parameters Details	Dotaile
		General Densis Densi Desistarian Media DNC I densis Destand Teachers	Delete
- SIP Accounts		Domain Proxy Registration Media DNS Identity Protocol Topology	
SIP Public Numbering	_		
Remote Substitution	G	Index 1	Сору
- Traffic Counters	<u> </u>	Index Label	<u> </u>
Incoming Call Handling		Numbering	Paste
Hardware and Limits		CID Number Formation day	
🗄 🖓 Metering		SIP Numbers Pormat Index	
🖶 🗃 Traffic Sharing & Barring		End of Dialing Timeout 5,0 🐳 s	
Retwork Management Control		✓ End of Dialing table used	
🗼 🤷 Voice Over IP			

- **Stage 3):** for completing the creation of the new Gateway, OMC will force you to configure previously the following Gateway Parameters tabs:

- DNS
- Domain Proxy
- Registration
- Media
- Etc...

These tabs are not specifically detailed in the doc, nor illustrated with OMC screenshots. **You must then refer to the configuration abstract of Ch.4** and apply on OMC the exact value of parameters found in the **appropriate sections of table 5**. When achieved, terminate the creation of the gateway by pressing OK button

- **Stage 4):** proceed with all the operation steps of Ch.3.3 to Ch.3.7: **although it will not be mentioned** there, you will need to tune up the whole configuration values visible in the dedicated OMC screenshots (i.e. all parameters also including those not highlighted in yellow).

Stage 5): to finalize the overall SIP configuration, **you must revise carefully** all the specific parameters which are normally incumbent to SIP Easy Connect: i.e. the OMC screens for **"VoIP parameters"**, **ARS** ("ARS Prefixes", "Gateway Parameters", "SIP Public Numbering") and "Misc. Memory Read/Write". To do it, use the abstract of Ch.4 and refer to columns "VALUE" and "SEC" of the tables.



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- You have read the release notes that list new features, system requirements, restrictions, and more, and are available in the <u>Technical Documentation Library</u>.
- You have read through the related troubleshooting guides and technical bulletins available in the <u>Technical Documentation Library</u>.
- You have read through the self-service information on commonly asked support questions and known issues and workarounds available in the <u>Technical Knowledge Center.</u>