

4G LTE & LANDLINE **INTERCOMS**

PROGRAMMING GUIDE HY-CAN LINK SOFTWARE





Raising Standards Safety Assured



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DOWNLOAD LINKS

HY-CAN LINK SOFTWARE

USB AVIT LEAD DRIVERS

TELGUARD GSM MODEM DRIVERS

https://www.telguard.co.uk/s-download.html

https://www.avitresearch.co.uk/usb2ttl_silab.htm

https://www.ftdichip.com/Drivers/VCP.htm

INSTALLATION

PLEASE NOTE:

- If using an AVIT lead to connect directly to the unit, install the drivers before connecting the lead.
- If you are running 64-bit Windows, the device may not install correctly straight away (an error will usually display in your task bar). Please select 'Search for drivers' on this alert and choose the folder you have downloaded the drivers to. Windows should then find and install them correctly.
- Download **HY-CAN-link_setup_TelGuard_Vxxx.exe** from the link above.
- Once downloaded, run this and click through the steps until this has finished.
- Once the download is complete, run HY-CAN Link from the desktop icon or from the start menu.



USING THE SOFTWARE

DOWN THE LEFT-HAND SIDE THERE ARE FIVE MAIN TABS:

++	Connect & Login
	Numbers
₽	Relay Ops
0	Time Periods
	T-Emulator

CONNECT & LOGIN

This tab allows you to connect via USB or modem to Telguard units. From here you can configure connection methods and which panel to connect to.

NUMBERS

This tab controls both the incoming and outgoing dial numbers for the Telguard system.

RELAY OPS

This tab controls all functions which can affect the relay state on the panel. PIN numbers, access tones, external inputs and relay states and timing can all be controlled from here.

TIME PERIODS

The panel has nine configurable time periods which can control most functions on the panel. These periods are configurable by minute, day of the week and can even be date specific.

TERMINAL EMULATOR

This tab takes you to the full programming menu of the Telguard. This menu is laid out in an MS-DOS style and is usually only required to configure advanced features.



CONNECTING TO PANELS

Once the application is launched, head to the *'Communication Methods'* tab. Here you are presented with six options. We are only going to be looking at the top four options here:

🛜 Communication Methods 🎤 Logi	n Details 🚽 Voice/DTMF 🏌 Progress	C GSM Net Scan	
Select communication method			
Avit lead direct to J1	Serial communications for J1 Port: Baud: COM4 Find port 9600	Parity:	Data: Stop: Timeout: 8 2 0 ●
O Dial up landline modem	Serial communications for landline modem Port: Baud: COM8 Find port 2400	Parity:	Data: Stop: Timeout: 8 √ 1 √ 300 ▼
◯ Dial up mobile modem	Serial communications for mobile (GSM) moden Port: Baud: COM5 Find port	Parity:	Data: Stop: Timeout: 8 1 300
OTCP/IP server (standard)	Settings for Hy-Can-link TCP/IP server (this e Local server IP address: 192.168.001.009 Find local IP.	end of the link) and Hy-Ca	n client (remote end of the link) TCP port: Timeout: 8084 180

AVIT LEAD DIRECT TO JI

This tab allows you to connect via USB or modem to Telguard units. From here you can configure connection methods and which panel to connect to.

DIAL UP LANDLINE MODEM

This is used to dial into landline panels.

DIAL UP MOBILE MODEM

This is used to dial into GSM panels. To use this method, the SIM in your modem **AND** the panel you are connecting to must have Fax & Data calls enabled. A call to the SIM network provider should be all that is required to switch this on. This setting is sometimes called Circuit Switched Data by the networks, or CSD for short, however this is no longer supported on some networks (*EE for example*). If this is the case, you will need to use the next method.

TCP/IP SERVER (STANDARD)

This is an alternative to mobile modem for when the system does not have CSD enabled.

When you have selected the method you wish to	🛜 Communication Methods 🎤 Log	in Details 🍨 Voice/DTMF 🜟 Progress 🃿
use, click on the 'Find COM Port' button.	Select communication method	
This will display a list of communication devices	Avit lead direct to J1	Serial communications for J1 Port: Baud: COM4 Find port 9600 ~
connected to your PC underneath all the connection methods.	O Dial up landline modem	Serial communications for landline modem Port: Baud: COM8 Find port 2400 ~
Choose the correct port by double clicking the	O Dial up mobile modem	Serial communications for mobile (GSM) modem Port: COM5 Find port 9600 v
one you want to use.	O TCP/IP server (standard)	Settings for Hy-Can-link TCP/IP server (this end of Local server IP address: 192.168.001.009 Find local IP
Once selected, choose the <i>Login Details</i> , tab at the top.	TCP/IP client (private GSM onetwork only. Hy-Can firmware Vxx.102 or greater required)	Settings for Hy-Can-link TCP/IP client (this end of t Local client IP address: 000.000.000.000 Find local IP
	⊖ J1 over TCP/IP (JoE)	J1 to TCP/IP server settings IP address: TCP port: Passwor 000.000.000.000 10001
	Double click to use a listed port	
	COM4: \Device\Silabser0 (Pos COM15: \Device\Silabser1 (Po COM8: \Device\USBSER000 COM6: \Device\USBSER000	ssible Avit lead) ssible Avit lead)



AVIT LEAD DIRECT TO JI CONNECTION

If you are using the USB lead to connect to the panel, you will only have to enter the serial number of the system you wish to connect to.



Enter this into the serial number box and press 'Connect and login':

Once connected, the white box at the top will display information regarding the unit.



DIAL UP LANDLINE MODEM | MOBILE MODEM

If you are connecting using a modem, you will have to enter the phone number of the system, as well as the serial number:

Connect and login Upload all Download all all disconr	M Ser: Firmware:V, TIME:: Firmware:V, PSU:C Commtel work • COM5 dosed • Commtel work
	ё ёйё ♀ ♀♀≎♀♀♀‱0 ♀⊞±⊠ □ ∷⊙♀♥۶☴≣
<mark>େ ଚ</mark> େ	mmunication Methods 🎤 Login Details 💂 Voice/DTMF 🗱 Progress 🧭 GSM Net Scan
→ ← Connect & Login	Dial-up connect and login Telephone number:
i∃ Numbers	07788049854
	740005 or Connect and login
Relay Ops	
• Time Periods	
T-Emulator	

Once entered, click 'Connect and login'. You will see in the white box at the top that dialling will be displayed, followed by logging in. If successful the screen should state connected, and display information regarding the unit.

If you are unsuccessful logging in you may get the message *'No response to machine login'*. If so, check your serial number and unit telephone number.

It is also a good idea to dial the panel number on your phone, wait for it to answer, and press **0**#, causing the panel to hang up without action. This opens the tone channels on the system, and ensures it isn't busy on site.



TCP/IP SERVER (STANDARD) CONNECTION

This method is a recent addition as CSD is now not being offered with some providers.

Always try connecting via mobile modem first and if this fails try TCP/IP.

To connect via TCP/IP, you will need the phone number, serial number and what network the SIM in the panel is on (*O2, EE etc.*). This can be found looking up the number on various websites such as this one: https://portal.aql.com/telecoms/network_lookup.php

You will also need to configure port forwarding on your router to allow incoming connections to your IP address. This is detailed in the supplementary document, **DOIP Setup Guide.pdf**.

Once this is all configured, you can start connecting to panels.

First, select the network of the SIM from the drop-down menu under 'GSM Network', and click the 'Send GSM operator network configuration using SMS':

<	穼 Communication Methods 🎤 Login Details 💂 Voice/DTMF 🐇 Progress 🤀 GSM Net Scan
→ ← Connect & Login	IP connect and login Telephone number: Panel: Full IP/port kickoff by DTMF then listen (Vxx 99 or later)
}⊒ Numbers	07788048854 Indian potentiation by brind attribute (roce y of atter) processing Serial number: Full passcode: 740005 Or
Relay Ops	TCP/IP server which the Hy-Can should contact
S Time Periods	the Hy-Can should connect: 000.000.000.000 8084 Petries: 1 15 180 II Paddress II Paddress
F. T-Emulator	Hy-Can GSM operator internet access settings (remote end of the link) GSM network: EE Internet
야하 More Functions	Protocol: Access point name: IP everywhere
① Engineering	Authentication: User name: Password: Timeout: PAP eesecure secure 30 • Activation: Vxx.102 SMS fail report No.: Send GSM operator network configuration using SMS

Once this has sent, click the box 'Send SMS kickoff then start server listening'. This will then open your PC's connection up to allow the unit to connect to it.

You will see a countdown at the top while it waits. This generally takes between 30 and 80 seconds to connect, but occasionally it can take longer.

Once connected, the white box at the top will display information regarding the unit.



CONFIGURING THE PANEL

Once you are connected to the panel, you can start making changes by choosing a tab down the left-hand side of the screen.

CONFIGURING NUMBERS

To program numbers calling out from the panel, select the *'Call Points'* tab. Click *'Download from Hy-Can to PC'*. This will then download all current programming (*a green progress bar will show you the progress of the download in the top left*). Once complete, *'Use call point wizard'* to add any new numbers.

To change an existing number, simply double click on it, and overwrite with desired new number.

Connect and login	Upload Download all all	Logout and disconnect	Se: TH	r:740005 Firmwar EE: 09:52 Wed, 1 Connected	e:V11 2/Jun	.107 GS /2019	M 4G SIM7X PSU: 11.67	XXX V	27.5C Hu [Link]	an: 46.9 %	02 - RSSI Y.0	UK GI : -874 0	lobal iBm	1							
		•	*	රොරා වේ 🗟 🗟	۹ 🍨	ំព	P P	56 (00 🖿 🕹		≡⊙	9 🕸	5	=	×.						
	<	Call P	oints	Incoming Calls																	
×	Connect & Login	💥 Us	e grou	o wizard	Upload	from P	C to Hy-Can		A Download fro	om Hy-Can to	PC		ownic	ad I	Hy-C	Can	and	veri	fy with F	С	
		🗮 Use	call po	int wizard	Site	name:	OFFICE DEMO)		Display tags n enable when h	nulti lir nəndlin	ne auti o disn	o hani lav ta	dling	g (or	nly					
										CITABORE FITTER	anatin			# UC	neo						
	E Numbers	Ins	Group	Name	S	Tone Match	Call point	s e	Phone number	Multi- media	Ring (sec)	1 2	3	4	Tim	ne pe	erio	ds	Day/I	aht	Del
Ţ	Relay Ops	Ins	Group 0	Name Test Line	S 0	Tone Match	Call point	5 e c 1:	Phone number 01306713619	Multi- media	Ring (sec)	1 2	3	4		ne pa 5 7	erio 8	ds 9	Day/N	ight ht 🔽	Del ×
11	Relay Ops	Ins	Group 0 0	Name Test Line Test Line	5 0 0	Tone Match	Call point	5 e c 1: 1:	Phone number 01306713619 01306713619	Multi- media Audio ~ Audio ~	Ring (sec) 20 30	1 2	3	4 !		ne pr	erio 8	ds 9	Day/N Day/Nig Day/Nig	ight ht ⊻ ht ⊻	Del ×
0	Relay Ops	Ins Ins Ins Ins	Group 0 0 0	Name Test Line Test Line Test Line	5 0 0 0	Tone Match 0 \v 0 \v 0 \v	Call point 1 2 3	5 e c 1: 1: 1:	Phone number 01306713619 01306713619 01306713619	Multi- media Audio V Audio V	Ring (sec) 20 30 30		3			5 7		9	Day/Nig Day/Nig Day/Nig Day/Nig	ight ht ~ ht ~	Del × × ×

You can also apply time periods to numbers being dialled, to do this simply check the box of the time period you want to apply. When finished making changes, click *'Upload from PC to Hy-Can'*. This will then upload the file you have just edited back to the panel itself. Once complete, a message will appear at the top of the screen stating so.

The same process applies to incoming numbers. A list can be created which prohibits non authorized callers from contacting the intercom. Click *'Download from Hy-Can to PC'*, this will then download all current programming. *'Use wizard'* to add incoming numbers or edit any lines you wish to change, then click *'Upload from PC to Hy-Can'*.

Once you've finished making changes, click 'Logout' and disconnect.

Connect Upload Download and and all disconnect	Ser:740005 Firmware:V11.107 GSM TIME: 10:12 Wed, 12/Jun/2019 P Connected	4G SIM7XXX SU: 11.5V	02 - UK Gloi 27.5C Hum: 47.24 RSSI: -89dBu [Link] Y()	all n	
	&ଷଷାନ ବ≁≗୍ପପା	Q Q % (00≘⊥□□∷0⋎⋪:	F ⊟ Bn	
Call Poi	nts 🔄 Incoming Calls				
🗶 Connect & Login 🗮 U	se wizard 🛓 Upload from PC	to Hy-Can	ADownload from Hy-Can to PC	inload Hy-Can and verify with PC	ML Relay Not ML Relay 1 = Panel ML Relay 2 = Panel ML Relay 2 = Panel
}⊟ Numbers		-			LIP Knowl 5 - Land
Ins	Number Message	Match Auth Level	Time periods 1 2 3 4 5 6 7 8 9 Day/Night	Delay P Panel f Slot Relay	Operation Del
Relay Ops Ins	01306713619 Test Line	0 7 7	🗆 🗆 🗆 🗖 🗖 💭 Day/Night 🔤	1 1:0 🗆 1 A 🗹	Pulse 🖂 🗙



CONFIGURING THE PANEL

CONFIGURING RELAY OPERATIONS

To configure relay operations, select the '*Relay Ops'* tab from the left-hand side. Click '*Download from Hy-Can to PC'* to download all current programming. To overwrite a code, simply select it, type over it with the new code, and hit return.

Connect and login	Upload Download all all	Logou and disconn	A Ser: 740 TINE: 10	005 Firmware 0:00 Wed, 12 mected	:V11.107 GSM 4G SIN7: /Jun/2019 PSU: 11.5	V	μ	27.(ink]	ec.	Hum:	47.	14	RS RS	: - UK Globa SI: -89dBm	11													
00		÷ 🗈	🖶 🎗 ሪገ 🕯	b 🛛 📚 🖊	• <u>କ</u> ୍ତ୍ର ପ୍ରତ୍ର	SS (D	0	В.	LI	1		≣ (9 🕈 🗣 🗲		Ēn.												
	<	Se Ac	cess Tones/Entr	ry Codes/Specia	al Functions Relay:	state	mo	nitorin	g (ex	xperin	nenta	al)																
	Connect & Login	*	Use wizard	📥 U	pload from PC to Hy-Car	1	4	Down	load	from	Hy-C	Can t	o PC	ML Rela	4 No	otes	1.04	-										
														ML Rolay 2	= Par	ul O Slat	2 Rol	A yea										
	Numbers	_												ML Robby 3	= P#+	ul O Sut.	2 茂山	AY 8									_	_
		In	s Function	Sequence	Display Message	Hat	tch	1.2	3		Time	7	ods	Day/light	P	Panel	f	Slot	Relay	Operation		.'	2	ads	/Par	sels	7	Del
	≓ Relay Ops	In	Access tone			0			-					confirmation.	1:	0		1	B	Pulse	Ē	-		-	-		Ť	×
															2:	0		2	A	Pulse								×
0	Time Periods	In	Access tone	~ 1#		0									1:	0		1	A V	Pulse								×
		In	Access tone	≥ 3#		0									1:	0		1	A	Latch								×
	T-Emulator	In	s Access tone	× 6#		0									1:	0		1	A Y	Unlatch	Į.,							×
	1-FUILUIDION	In	s Access tone	2#		0									1:	0		2	A	Pulse	Į.,							×
		In	s Access tone	~ 4#		0									1:	0		2	A Y	Latch	ļ.,							×
ÎŶ	More Functions	In	s Access tone	7#	-	0	M		-	_		_		1	1:	0		2	A	Unlatch		-	-	_	_	-	-	×
		In	s Entry code	✓ 1066	Steve									Day/Night	1:	0	H	1	A	Pulse			님	님				×
(1)	Engineering	In	s Entry code	*2222		-			H					Day/Night	1:	0	H	2	A	Pulse			님	님		4	끝	×
		In	s Entry code	*3333		-			H					Day/Night	1:	0	H	1	A	Latch		H	님	H		*		0
		1	s Entry code	-0000	_	-			H		H	H		Day/Night	1:	0	H	1	A	Unlaten	1	-	ч	-			10	0
		10	s Ext release		_	-			H		12	H		Day/Night	10	0	H		A	Puse	ŀ							0
		10	s Timed 1	~		-		NN	n		in			Day/Night	1.	0	H			Latch	i.							Ŷ
			SMS open 1	Open	Opened R1A	-		nn	n	nr	in	n	nr	Day/Night	1-	0	n	1	A	Puke	in							×
		In	s SMS open 2	Pulse		-								Day/Night	1:	0		2	A ~	Pulse							10	×
				~																		1						

To add a new function, head to the 'Use wizard' setting.

This will give you a set of options; Select the code, tone or function you wish to assign, then the relay that you wish it use.

A display message isn't necessary if you don't have a screen, however it can be helpful for future reference. If you wish to use any time periods, please also check them here.

Once all the relay configuration is complete, click 'Upload from PC to Hy-Can'.



CONFIGURING THE PANEL

CONFIGURING TIME PERIODS

Click on the *'Time Periods'* tab. A table of 9 time periods is displayed. Click *'Download from Hy-Can to PC'* to check which time periods are in the panel already.

Connect and login	Upload Download all all	Logout and disconnec	Ser: TIME	7400 : 10 Conne	05 Firm :10 Wea	mware d, 12	: V11.1	107 G	SM 4	G SIN	17300 . EV	۲ ا	28.0C Hum: 47 [Link]	02 - UH .3% RSSI: - Y.10 0	(Globall -89dBm
			29	රුව	I A I	<u></u>	۽ 🖵 ۹	# C) 5	ÌĒ	8	6) 🛈 🏛 🚣 🗵	- ≣ ⊙ 7	• 🗲 🚍 🖬
	Time Periods 🖻 Set Clock/Date 🛓 Activity Logs														
як	🖈 Connect & Login														
1=	Numbers		_												
		Period	Start ti	me	End time		Mo Tu	u We	eeka Th	Fr	Sa	Su	Start date	End date	
E	Relay Ops	1	06:00		11:00										
		2													
	Time Periode	3													
	S mile renous	4													
		5													
>_	T-Emulator	6													
		7													
616	More Eurotions	8												L	-

Fill out the start and end times of time periods you wish to use. Each time period can be configured by Week days or by Start and End date. Once again click *'Upload from PC to Hy-Can'* when finished.

Once uploaded, click 'Logout' and disconnect if programming is complete.



BACKUP AND RESTORATION OF INFORMATION

- When you have downloaded a list of numbers, relay ops or time periods from a panel, or have created one to upload, this can be saved by simply clicking *'File'* in the top toolbar, then *'Save As'*. Give the file a reference for the panel you are working on and click *'Save'*.
- This produces a backup notepad file of the information in a format that the system can read. This also gives you a reference file for the information in the system.
- If you ever need to restore this file, simply select the tab from the left that you wish to restore, then click *'File'* and choose *'Open'*. Choose your file and then click *'Upload from PC to Hy-Can'* to push this file to the panel.





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EU CE Declaration of Conformity and Radio Equipment Directive is available at www.commtel-uk.com | GB-RH10 9XN