



How to setup a TIF-PRO2

This document will guide you through the basic steps to setup your TIF-PRO2, it will show you the minimum steps you need to get your TIF-PRO2 working. You can find more information in the manual and on the RTS website. If you need more help you may contact the RTS support engineers, these are listed on the RTS website www.rtsintercoms.com under "Contact".

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Before you start

- When you switch on the unit, an administrator password must first be assigned.
- Please store the password in a safe place as the unit will need to be reset to factory settings if it is lost.
- Enter a self-selected password via the front keypad and confirm with OK.
- The password must be 8-16 characters long and must contain letters, numbers, and special characters.
- By pressing and holding the Shift key, you can switch between numbers, upper and lower case letters.
- The characters can be changed by pressing the keys several times. The table below shows the key assignment. 1 press and hold: space 2 press and hold: numbers/upper/lower case
- The technical manual in PDF format and the PC Workplace Management software for the TIF-PRO2 can be found on the enclosed USB drive. TS TIF-PRO2

 0 ¹	 M N O Ö 6
 1	 P Q R S 7
 A B C Ä @ 2	 T U V Ü 8
 D E F 3	 W X Y Z 9
 G H I 4	 + * , . - ! /
 J K L 5	 # ²

¹ press and hold: space

² press and hold: numbers/upper/lower case



Notice!

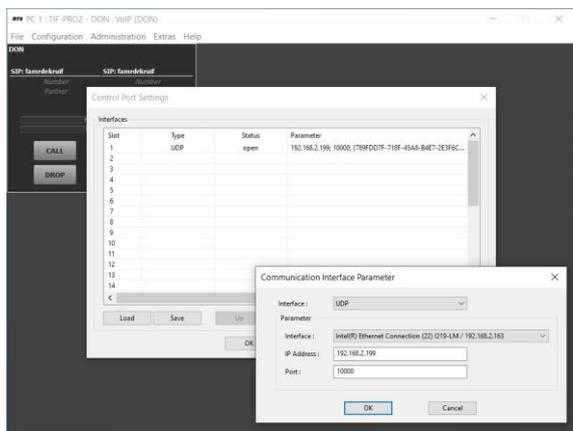
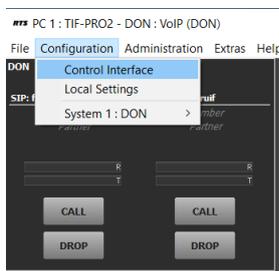
If you forgot your administrator password, you need to reset the RTS TIF-PRO2 to factory settings via the front display: **MENU | LOGIN | FACTORY**.

Network setup

Set the LAN IP address via the front panel of the TIF-PRO2. Make sure that you have internet access on your network. Connect your TIF-PRO2 (LAN connector) and your config PC to this network using an IP address in the same subnet. I.e. TIF-PRO2 LAN 192.168.2.199, subnet mask 255.255.255.0. Config PC / Laptop 192.168.2.99, subnet mask 255.255.255.0. Also specify a gateway and DNS server address if needed to get to the internet.

Software install and use

Install the TIF-PRO2 software on your laptop with admin rights and run it as administrator. Configure the connection between your config pc and the TIF-PRO2. Go to the dropdown menu Configuration and click *control interface* and set these settings according to your IP addresses. The program might ask for your password as mentioned on the previous page.



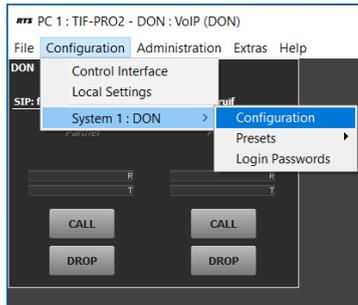
Where the Interface is you config PC IP and the IP address is the IP of the TIF-PRO2, leave the port to 1000

Check if you are now connected, If not an error message will pop up.

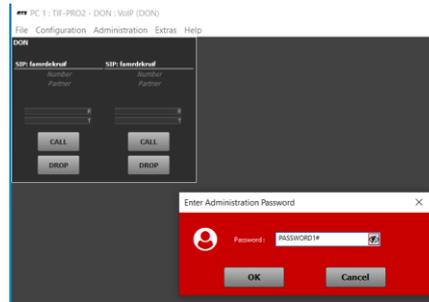
Commented [dKR(C1)]: Wat bedoel je hier?

Commented [DR2R1]: Bij interface staat je laptop / config PC IP en bij IP address die van de Tif

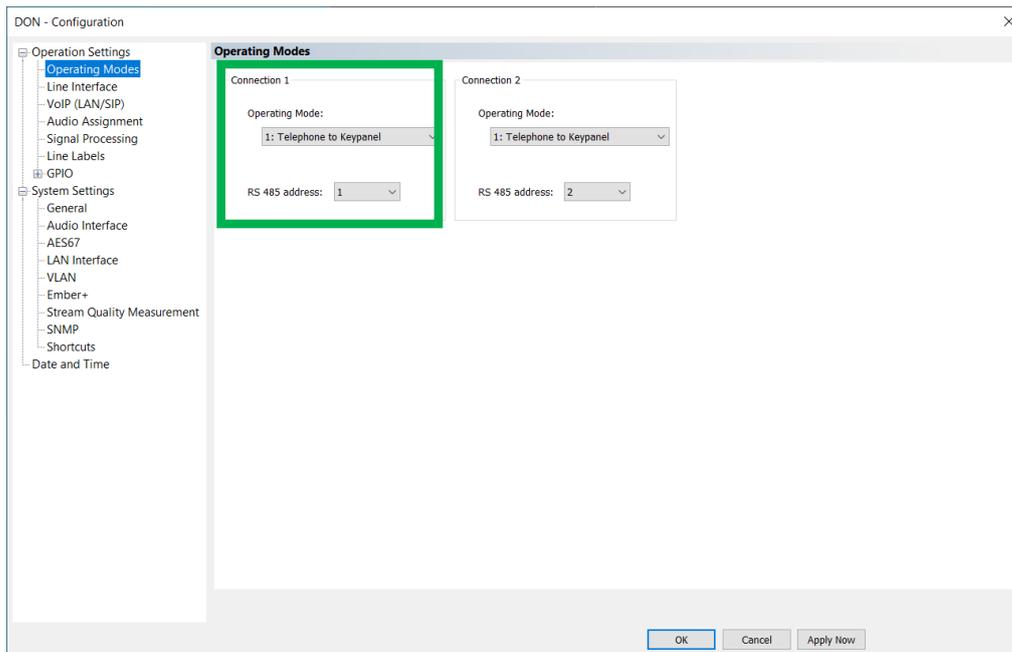
SIP server setup



Go to the menu
"Configuration"
↓
"System1"
↓
"Configuration"
and fill in the
password.



Set the desired operation mode, in this case Telephone to Key panel.



In the VoIP settings fill in the SIP Server address, the username, user Authentication and the password. Don't tick the boxes @ tcp or STUN

Line	SIP Server	Backup Server	TCP	STUN	User Name	User Authen...	Password	Audio Port	Displayed N...	DTMF Tx
Line 1	sp.browserscalls.com		<input type="checkbox"/>	<input type="checkbox"/>	famrdelr...	famrdelrnf	***	5004	DON	Inband
Line 2	sp.browserscalls.com		<input type="checkbox"/>	<input type="checkbox"/>	famrdkruf	famrdelrnf	***	5006	RON	Inband

STUN Server Parameters
 STUN Server:
 NAT Keep Alive Message Time: sec (5.60)

Quality of Service (DiffServ)
 Voice: (0..63) DiffServ: 184dec
 SP: (0..63) DiffServ: 104dec

VoIP Parameter
 Payload Time: msec
 A-Law/μ-Law Signalling on incoming G.722 calls
 Use first codec of SDP audio codec list as default

Registration
 Delay between SIP lines: msec (0..4000)
 Timeout: sec (60..500)

Also define the STUN server. In the middle of the page. And leave all other settings to default as shown.

Now go to system settings, Audio interface and

LAN Interface

Primary IP Address
 DHCP
 IP:
 Sub net Mask:
 Default Gateway:
 DNS Server:

Second IP Address

Third IP Address

Control UDP Port Addresses

PC 1:	<input type="text" value="10000"/>	PC 5:	<input type="text" value="10004"/>
PC 2:	<input type="text" value="10001"/>	PC 6:	<input type="text" value="10005"/>
PC 3:	<input type="text" value="10002"/>	PC 7:	<input type="text" value="10006"/>
PC 4:	<input type="text" value="10003"/>	PC 8:	<input type="text" value="10007"/>

Accessible from: Disable Insufficient LAN Alarm

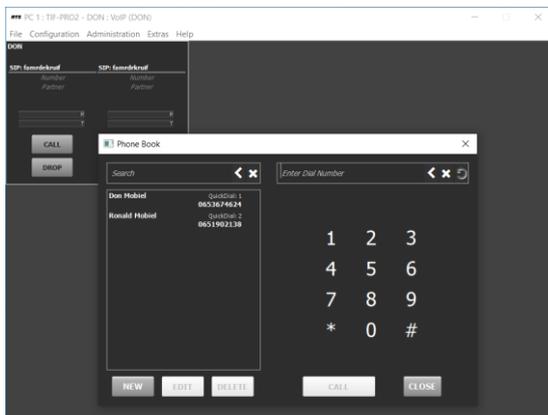
Link Type:

Now go to "LAN interface" and check / correct the settings. And click Apply now and or OK.



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If you have no error messages you should be able to make a call.



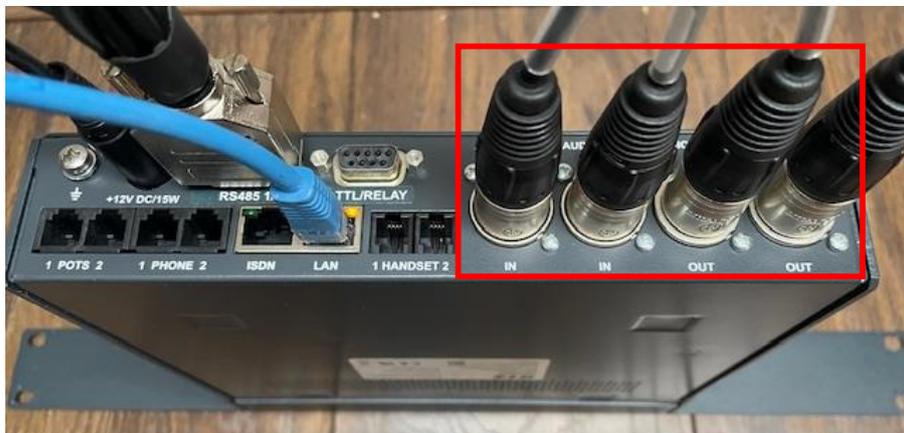
Just dial your mobile phone number and or save it in the phonebook and as new and call, to test if this works. (no audio yet but the phone should ring)



If this is all ok we can continue to connect your TIF-PRO2 to your able to use

intercom matrix. You can purchase an adapter cable to be regular LAN cables for this.

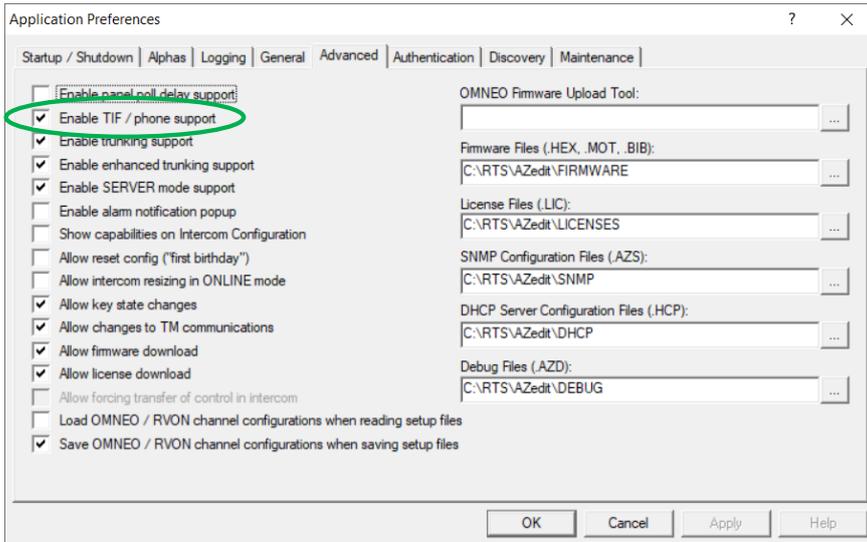
When using this adapter don't forget to connect the XLR breakout cables to the TIF-PRO2 backside corresponding in and outputs.



Setting up the intercom via AZedit.

First connect the TIF adapter cable to the RS 485 port (DB9) and the XLR connectors to the corresponding XLR chassis connectors on the Tif pro. After this connect the Aux 1 and 2 AIO connectors via ethernet cables to the AIO ports on the matrix.

Now connect to your matrix in AZedit and go to Options -> preferences and the TAB Advanced.



Check if the box Enable TIF / phone support is checked. If not do it now, and apply the setting.

Port	Alpha	Type	Channel	Warning
11	N011	OMNEO	11	
12	N012	OMNEO	12	
13	N013	OMNEO	13	
14	N014	OMNEO	14	
15	N015	OMNEO	15	
16	N016	OMNEO	16	
17	TIF1	AIO	1	
18	TIF2	AIO	2	
19	N019	OMNEO	19	
20	N020	OMNEO	20	
21	N021	OMNEO	21	
22	N022	OMNEO	22	
23	N023	OMNEO	23	
24	N024	OMNEO	24	
25	N025	OMNEO	25	
26	N026	OMNEO	26	

Now make sure the port you want to use for the TIF is set to AIO in *Options -> Port Allocation table*.

In this case we use Ports 17 and 18 of the matrix for the TIF-PRO2. And physical AIO channel 1 and 2. On your matrix.

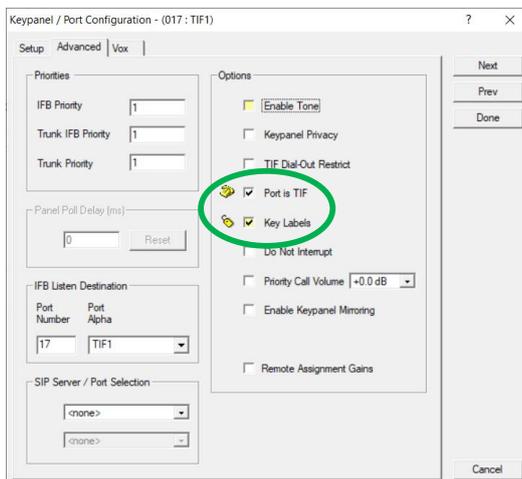
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In The Alphas menu give the assigned ports a suitable name like TIF or PHONE.

Port	Alpha (4)	Alias (4)	Description	Description 2
001	BELT	BELT	Beltpack	Beltpack
002	REG1	REG1	Regie	Regie
003	5032	5032		
004	N004	N004		
005	OAP	OAP		
006	N006	N006		
007	N007	N007		
008	N008	N008		
009	N009	N009		
010	N010	N010		
011	N011	N011		
012	N012	N012		
013	N013	N013		
014	N014	N014		
015	N015	N015		
016	N016	N016		
017	TIF1	TIF1	TIF PRO1	
018	TIF2	TIF2	TIF PRO2	
019	N019	N019		
020	N020	N020		

In AZedit KP view go to the ports you've specified for the TIF in this case Port 17 and 18 and go to *Keypanel / Portsettings* -> *Edit* and *Advanced*. In the *Options* section

Select both *Port is TIF* and *Key Labels* checkboxes. Click *Done* and send the changes to your matrix via the lightning button.



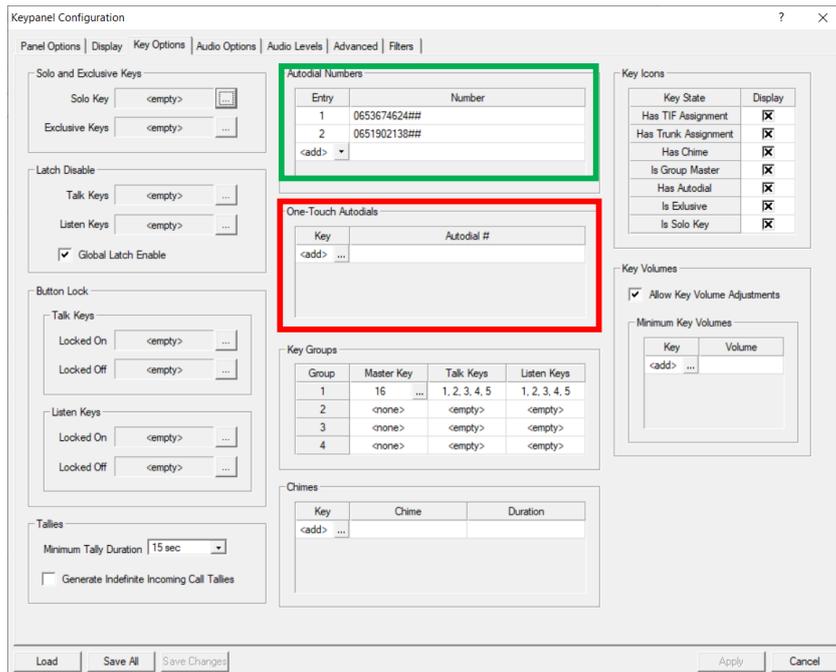
Now go into one of the Keypanels and assign the TIF ports to the desired keys of the panel.

Send the changes to the matrix and see if the buttons appear on the panels with a phone symbol on top of it. If you now press to talk on one of these buttons you get the options to dial a number on the keypanel display. You can navigate with your aux/vol. knob and type a phone number via the keypad.

After typing the number end with ## to initiate a call.

You can also store *local Autodial numbers* in the Keypanel using AZedit if you panel has the AC options license. Go to the keypanel / Port settings menu and click on the keypanel icon.

In this go to the tab Key Options and make sure to also add the ## behind the numbers as in the example below.



Also *One Touch Autodials* can be specified per button so when you press these the call is being made automatically.

There is also a way to store *Autodail numbers* on the Intercom matrix instead of the panels locally. Go to System and Auto Dail (alt+F9) and specify them here.

Auto Dial	Alpha	Scroll Enable	Phone Number	Description
001	DON	<input checked="" type="checkbox"/>	0653674624##	Don mobiel
002	RONA	<input checked="" type="checkbox"/>	0651902138##	Ronald Mobiel
003	AD03	<input type="checkbox"/>		
004	AD04	<input type="checkbox"/>		
005	AD05	<input type="checkbox"/>		
006	AD06	<input type="checkbox"/>		
007	AD07	<input type="checkbox"/>		
008	AD08	<input type="checkbox"/>		
009	AD09	<input type="checkbox"/>		
010	AD10	<input type="checkbox"/>		
011	AD11	<input type="checkbox"/>		
012	AD12	<input type="checkbox"/>		
013	AD13	<input type="checkbox"/>		
014	AD14	<input type="checkbox"/>		
015	AD15	<input type="checkbox"/>		
016	AD16	<input type="checkbox"/>		
017	AD17	<input type="checkbox"/>		
018	AD18	<input type="checkbox"/>		
019	AD19	<input type="checkbox"/>		
020	AD20	<input type="checkbox"/>		
021	AD21	<input type="checkbox"/>		
022	AD22	<input type="checkbox"/>		
023	AD23	<input type="checkbox"/>		
024	AD24	<input type="checkbox"/>		
025	AD25	<input type="checkbox"/>		
026	AD26	<input type="checkbox"/>		
027	AD27	<input type="checkbox"/>		



Don't forget the ## at the end of the number and make sure to tick the Scroll Enable box so you can see them on every panel.

You should now be able to choose these on your keypanels as well when you select the switch you've configured for this TIF.

Have fun!