

Liquid Leak Detection Management Software

Software User Guide

1 Introduction

- 'TTKweb' is a management software developed specifically for TTK FG-NET digital unit and its satellite devices.
- This software performs two main functions:
 - It allows to view, in real time, the status of all the connected panels and their cables. In case of fault, TTKweb pin-point the alarm on the concerned cable (precise location in 1m) on the zone map. The alarm can also be managed directly on TTKweb (acknowledge an alarm, override a relay, eject a cable, etc).
 - TTKweb includes the tools to configure the system. For example, build the arborescence of the installation; edit the maps and create detection zones for each sense cable.
- Main interface menu 'MAP' of TTKweb in case of one alarm as below in figure 1:



Figure 1

2 Installation

Install and run TTKweb on your computer.



- Open a web browser (Firefox is recommended) and enter the IP address of the computer where TTKweb is running, ends it with ':8080'. For example: '192.168.0.14:8080'. The TTKweb interface will be displayed.
- Note: To get your IP address, open a command prompt and enter the 'ipconfig' command.
- The main page of TTKweb is composed of 6 parts as shown in the figure 2.

10-	TTK	Web CURRENT ALARMS CONNECT	ED CABLES & LOGOUT HOrizontal	Bar: Quick glance of syst	em's status
fík	STA	TUS			ZONES DEVICES
LEAK DETECTION SYSTEM	STATU	JS': Main menu to sup	ervise the system		-FLOOR 1 EAST
TUS P NTUS		A global view o display here al	s. In case of alarm,	FLOOR 1 SOUTH FLOOR 2 EAST FLOOR 2 SOUTH FLOOR 3	
			NO ALARMS		'ZONES': installation tree 'DEVICES':
NET NES NES	'SETU	P': Main menu to conf	igure the system		Connected panels
		Date	Alares Quick Events Log	Source	
	1	2017.03.14 17.18.50	Leek at 2 m cleared	Room 2-A Cable 2 (FNET 1 0)	8
	2	2017.03.14 17:18:24	Leak at 2 m (Acknowledged)	Room 2-A Cable 2 (FNET_1_0)	2
	3	2017.03.14 17:14:42	Leak at 2 m	Room 2-A Cable 2 (FNET_1_0)	2
	4	2017.03.14 17:14:04	Leak at 15 m cleared	ROOM 1-8 Cable 1 (FNET_1_0	4]
	5	2017.03.14 17:12:47	Leak at 15 m	ROOM 1-B Cable 1 [FNET_1_0	[4]
		2017.03.14.17.12.39	Leak at 15 m cleared	ROOM 1-B Cable 1 IFNET 1 (

3 'STATUS' Menu

 TTKweb interface consists of two main menus: STATUS and SETUP. To summerize, 'STATUS' allows to view and 'SETUP' allows to configure the system.

Sub-menu 'STATUS'

In case of fault, the alarm(s) are displayed in the main page as well as in this sub-menu. Three buttons allow you to take actions on alarms: acknowledge the alarm; eject the cable and show map (see figure 3).



Sub-menu 'EJECTED CABLES'

Ejected cables are displayed under this sub-menu (see figure 4).



Sub-menu 'EVENTS LOG'

The latest alarm history can be seen from this submenu (see figure 5).

	TTKw	ONNECTED CARLES TOTAL LENSTH	LOGOUT		
11 k	EVEN	ITS LOG			
ADUID LEAK DETECTION STOTEMS					
	Ann		- 5520		
	Al		- 5120	 Cable 	
STATUS					
MAP D	1	2017.03.14 16:32.51	Leok at 2 m	Poom 2-A Cable 2 [FNET_1_02]	
STATUS D	2	2017.03.14 16 32 02	Look at 2 m (Ejected)	Room 2-A Cable 2 [FNET_1_02]	
EJECTED CARLES	3	2017.03.14 16:31 25	Leak at 1 m (Acknon/ledged)	Room 2-A Cable 1 [FNET_1_01]	
EVENTILOS	4	2017.03.14 16:00.27	Leak at 1 m	Room 2-A Cable 1 [FNET_1_91]	
	5	2017.03.14 16:08.19	Leek at 1 m cleared	Room 2-A Cable 1 (FNET_1_01)	
SETUP	6	2017.03.14 10:08:15	Leak at 1 m	Room 2-A Cable 1 [FNET_1_01]	
VIERS	7	2017.03.14 16:00.12	Leak at 1 m cleared	Room 2-A Cable 1 [FNET_1_01]	
810403	8	2017.03.14 16:08:10	Leok at 1 m	Room 2-A Cable 1 (FNET_1_01)	
FONET	2	2017.03.14 10:08:06	Leak at 1 m cleared	Room 2-A Cable 1 [FNET_1_01]	
ZONER	10	2017.03.14 16:00:03	Leak at 1 m	Room 2-A Cable 1 [FNET_1_91]	
	15	2017.03.14 16:07.59	Leek at 1 m cleared	Poom 2-A Cable 1 (FNET_1_01)	
CABLES	12	2017.03.14 10:07.55	Leak at 2 m	Floom 2-A Cable 2 [FNET_1_02]	
	13	2017.03.14 10:07.24	Leak at 15 m	ROOM 1-D Cable 1 [FNE7_1_94]	
	14	2017.03.14 16/07.24	Leok at 15 m	ROOM 1-8 Cable 1 [FNET_1_04]	
	15	2017.03.14 10:06:45	Leak at 3 m cleared	ROOM 1-8 Cable 1 [FNET_1_94]	
	16	2017.03.14 10:00:48	Leak at 3 m cleared	ROOM 1-B Cable 1 [FNET_1_94]	
	17	2017.03.14 16:06:32	Leok at 3 m	ROOM 1-8 Cable 1 [FNET_1_04]	
	18	2017.03.14 16:06:28	Leok at 3 m cleared	FOOM 1-8 Cable 1 [FINET_1_04]	
	19	2017.03.14 10:06.24	Leak at 3 m	ROOM 1-8 Cable 1 [FNE7_1_94]	
	20	2017.03.14 16:06:24	Leak at 3 m	ROOM 1-B Cable 1 [FNET_1_04]	
	21	2017.03.14 16:06:20	Leek at 1 m cleared	Room 2-A Cable 1 [FNET_1_01]	
	22	2017.03.14 16:06 15	Leak at 1 m	Room 2-A Cable 1 [FNET_1_01]	
	23	2017.03 13 14 44 59	Leak at 5 m cleared	ROOM 1-A Cable 1 [FNET_1_03]	
	24	2017.03.13 14.44.43	Leek at 5 m (Acknowledged)	ROOM 1-A Cable 1 [FINET_1_03]	
	25	2017.03.13 14:44:25	Leak at 5 m	ROOM 1-A Cable 1 [FNE7_1_03]	
	26	2017.03.13.14.44.00	Leak at 5 m cleared	ROOM 1-A Cable 1 [FNET_1_03]	
	27	2017.03.13 14.43 53	Leek at 5 m (Acknowledged)	ROOM 1-A Cable 1 [FNET_1,03]	
	28	2017.03.13 14:43.38	Leak at 5 m	ROOM 1-A Cable 1 [FNET_1_03]	
	29	2017.03.13.14.42.57	Look at 2 m cleared	ROOM 1-B Cable 1 [FNET_1_04]	
	30	2017.03.13 14.41.17	Leek at 2 m (Acknowledged)	ROOM 1-8 Cable 1 [FNET_1_04]	
	31	2017.03.13 14:40:55	Leok at 2 m	ROOM 1-8 Cable 1 [FNET_1_94]	

Figure 5



'SETUP' menu provides tools to configure the system.

Sub-menu 'USERS'

New users can be created under this menu. Password is required when add a new user. (see figure 6)

Sub-menu 'RIGHTS'

In this menu the administrator grant access/rights to three categories of operators: administrator, user and unprotected. (see figure 7)



Sub-menu 'FG-NET'

This menu allows to link FG-NET panel to TTKweb. Enter the IP address, passcode and license code of the FG-NET panel to be connected. Press on button 'UPDATE' (see figure 8).

The status 'online' indiates the successful connection between TTKweb and FG-NET panel.

Click on the icon 'OPEN' to view FG-NET Web Interface in a

new window to configure FG-NET panel (Refer to 'FG-NET

Repeat this step if several panels are to be connected.



web interface' for more details). **11**k FG-NET Por Password ADMIN 192.168.0.17 OPEN 80 Enabled online

Fiaure 8

Sub-menu 'ZONES'

ADD

MAP

This menu allows to create the building tree map and upload maps for each zone and draw sub-zones



UPDATE save the entered information.

	_
West Side Room R0-W01	
West Side Room R0-W02	Floor (zone)
Floor R1 Data Center Hall B	
- East Side Room R1-E01	Room (sub-zone
West Side Room R1-W01	

Example of the 'ZONES' menu once completed (see figure 10):

→ C (0 192,168,0.14.0)			7	€ \$	1
-	TTKweb COMMENT ALARMS COMMECTED CAR	atter source Losout			
11K	ZONES				
AND LEAK DEPECTION WOTENS	- RULENG			-	
TATUS	- BOLLONS		MAP	•	
1017 1	- PLOOM I BAST		MAP	•	(
STATUS	- FLOOR I BOUTH		MAP		(
EVENTS LOD	- FLOOM 2 EHST		MAP		
TUP	- FLOOR 2 50/TH			-	2
IG+TS	10001250010		MAP		
ONET	- FLOOR S		MAP		
		Figure 10			

Sub-menu 'CABLES'

As the last step of configuration of the system, this menu allows to link each cable to a zone map and draw cables.

The names, lengths, quantities and types of the cables on the FG-NET unit are collected automatically by TTKweb, in condition of the sucessful connection between them. Click on the drop down menu to link each cable to a zone (see figure 11).

Cł	۱BI	ES	IS					
	Zone	ID	Name	Length	Туре			
1	*	P03_FNET_1_01	Technical Room Cable 1	3m	WATER			
2	*	P03_FNET_1_02	Technical Room Cable 2	3m	WATER			
3	-	P03_FNET_1_03	Data Hall A CRAH1	7m	WATER			
4	*	P03_FNET_1_04	Data Hall A CRAH2	15m	WATER			
5	÷	P03_FNET_1_05	Dall Hall B CRAH17	3m	WATER			

Figure 11

Click on the 'MAP' button to open the associated map (see figure 12).

TTKweb CURRENT ALARMS CONNECTED CABLES

MAF

CABLES								
	Zone	ID	Name	Length	Туре			
1	Floor R-1 Technical Room *	P03_FNET_1_01	Technical Room Cable 1	3m	WATER	EJECT	MAP	
2	Floor R-1 Technical Room 👻	P03_FNET_1_02	Technical Room Cable 2	3m	WATER	EJECT	MAP	
3	East Side Room R1-E01 +	P03_FNET_1_03	Data Hall A CRAH1	7m	WATER	EJECT	MAP	
4	West Side Room R0-W01 *	P03_FNET_1_04	Data Hall A CRAH2	15m	WATER	EJECT	MAP	
5	Floor R2 Telecom Hall Y +	P03_FNET_1_05	Dall Hall B CRAH17	3m	WATER	EJECT	MAP	

Figure 12



Click on the '+' button to add a new sense cable on the map. • PO3_FNET_1_04 To delete a cable, click on the '-' button (see figure 13).

To draw the cable, click and move the cursor.

UPDATE Click on the button "UPDATE" to save the entered information.

The figure 14 shows an example of the 'CABLES' menu once completed:



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