

Operator's Manual

Scope:

Туре:

IFTER EQU

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1. General information

IFTER EQU is a software designed for integration and visualization of the following systems:

- I&HAS Intruder and Hold Up Alarm Systems
- BMS Building Management Systems
- FAS Fire Alarm Systems
- ACS Access Control Systems
- CCTV Closed Circuit Television
- Control-measuring systems

For the current list of supported systems please refer to our website: www.ifter.eu

1.1 Database

IFTER EQU is based on Oracle SQL database. Normally free version is implemented – Oracle 10G, which includes up to 4 GB of data and up to 4 computers connected to the database. In case of bigger objects, you can implement a commercial version, which is Oracle 12C. Thanks to this solution it is possible to obtain multi-station system, in which each computer can both record and readout the database.

System works in a client-server technology. It allows to implement a flexible and stable solution with multiple computers working at the same time. The database server is installed on a main computer, while the other computers are connected to it.

Database is a type of storage for configuration and events. Every time any change is made, it is introduced on all computers. This way you are able to work online. Both database and software can be installed on the same computer.

Integration server connects with supported devices and registers all events in the database.

1.2 IFTER EQU - Modes

With IFTER EQU you can choose between two modes:

- visualization: allows to present your data in the form of events lists and graphic icons placed on architectural plans. It contains both configuration and communication modules which allow it to interact with devices. Visualization is a standard version of IFTER EQU;
- server: works in a background without interface. It contains both configuration and communication modules which allow you it to interact with devices. Working this

mode, you cannot configure graphics. Server mode is implemented on data distribution servers or as a gateway for other BMS systems.

1.2.1. Visualization

IFTER EQU allows you to define your interface, which makes the program easy to operate. You use Graphics editor to do so.

We put active elements on graphic background. The elements are:

- buttons,
- boxes,
- icons,
- functional modules,
- events list.

The administrator can put access restrictions on each component (view and steering options).

Defined graphics can be used on other computers as well, you just need to copy them on a local disc

1.2.2. SNMP Server

Simple Network Management Protocol (SNMP) is a standard protocol for device management within IP network. SNMP is popular among network management systems and allows to monitor network devices. This protocol forms a part of Protocol Suite (IPS), defined by the Internet Engineering Task Force (IETF). It consists of a standard package for network management, that includes application layer, data scheme and data object set.

SNMP devices share data in form of variables and Traps, allowing supervising systems to fully control them.

Thanks to SNMP server mode, you are able to share the data downloaded from integrated systems with external SNMP clients. Using SNMP server, IFTER EQU can transfer data downloaded from the control units and control-measuring devices. Thanks to SNMP Server, external systems without a direct device support can download all data regarding the control unit. Moreover – if it's technically possible – it can steer that device.



1.2.3. OPC Server

OPC (OLE for process control) is an open communication standard, implemented in building automation. OPC interconnects Windows-based applications with measuring systems, building automation, security systems and other devices.

When you work in OPC server mode, you are able to share the data downloaded from integrated systems with external OPC clients. Using OPC server, IFTER EQU can transfer data downloaded from the control units and control-measuring devices. Thanks to SNMP Server, external systems without a direct device support can download all data regarding the control unit. Moreover – if it's technically possible – it can steer that device.

2. Start

Before installing the software, you need to make sure you have got:

- USB hardware key,
- license code

they are necessary to perform proper installation.

You don't need Internet connection to activate the product. Installation consists of two steps:

- license key definition (you need to establish the computer to which you connect USB key;
- adding license codes.

If you don't have any of these, there are a few options:

- DEMO mode: you can work with 20 elements maximum;
- TEST mode: program works for 30 minutes you cannot connect to the devices. After 30 minutes, restart the program to continue configuration;
- TRIAL mode: program will work for a specified period of time. You are able to connect to the devices.

Technical requirements:

- Windows 7 or 8;
- PC computer, 8 GB RAM, Windows Experience Index: equal or higher than 5,5.
- Computer screen: 24"

2.1 Start the program without USB key and a license code

Without a key and a license, you will see that window after starting the program.



Click OK to start DEMO version (up to 20 elements). After superpassing that number the program will start in TEST version. Trial version does not require USB key, but you do need an activation code with an "expiration date".

2.2 License key server declaration

You need one USB key for one object. You need to insert the key in the computer that will be a key server. Other computers must have a direct network connection with a key server. The number of codes is equal to the number of licenses.

License codes are assigned to one hardware key. After starting a program, go to Settings (Explorer tree) and select License key server declaration.

🔆 Start Window Help	
⊳ <mark></mark> Settings	🖬 🔹 🕨 🖬 😿 Additional tools
Server	Name
>	Event recording properties
Network IFTER EQU	Events custom colours
Events from devices	License key server declaration
_	Touchpanel: settings

In the following window, you need to select a server station, where you will insert USB key.

License	e key server declaration		×
	Key server:		
	monitoring		
	Server IP:		
	192.168.0.112		
		ОК	Cancel

After you choose a workstation, you will see an additional caption: Server IP. Click OK.

IFTER EQU: Activation
IFTER EQU: Activation
Hardware key installed Hardware key number:
Introduce the first license
Activate the program Activate temporary license
Activation Activate 30 days license Activate later Exit the program

Click OK to move forward. You will see the next window:

- you will see the number of a license key and a box where you should insert license code. Next, click on **Activation** on the left side.
- If you have a time limited license (trial), insert license code and click on **Activation** on the right side. IFTER EQU will work accordingly to the license (standard trial lasts 30 days).

Activate later – starts in DEMO mode.

Exit the program – closes IFTER EQU.

After introducing license code to the system, restart the program.

2.3 License key

Server workstation will show extra tab – **License key.** Here you can see all declared licenses. Also, you can add new licenses here for key server and other workstations. License codes are assigned to one USB key.

Workstation properties						
General	Window settings	Monitors Events	License key			
Licers Licens	nse data e code	Î		*	Key data Key 0	
Sele	ct host		•			
			¢°			
Lie	cense number	Workstation	Licence description			Generation date
						OK Cancel

License data – contains your license code. Paste your license code in the window above, select host and then click Add button to implement your license. Key data – key serial number Select host – select workstation for this license.

In this window you can see the list of all your licenses. Use the corresponding button to add another license. If your hardware key is removed from the workstation, you can select a new workstation from the list.

Properties – contains all info about the license.

2.4 Login

If you start the program for the first time, you will see the window to enter login and password. After IFTER EQU is installed, **ifter** is default user, with full administrator authorization.

User: ifter Password: ifter After you log in for the first time, you should change default password. Don't delete default user, because he has full access to the system and can define the scope of access control for other users.

₩IFTER EQU √ 1.0	
Username Password	
Default Enter Cancel	

You can choose from the following options

- Start,
- Window,
- Help.
- Menu Start:
- Log in / log out default User log in as default user, defined in workstation properties;
- Log out quit IFTER EQU and go to log-in window.
- Explorer start system manager
- Close quit the system
- Click on **Window** to change your setup:
- Cascade
- Set horizontally
- Set vertically
- Refresh

Go to Help menu to see the Information about the system, such as name, version and the latest update.



2.5 Default user

You can set a default user on each station. He will be logged automatically each time you start the program. You can configure a different default user for each workstation.

Workstation properties							
General W	indow settings Monitors	Events License key					
	Name of the workstation		Description				
	equ						
	Access scopes						
	Default range		_ _				
		TCP/IP settings		Identyfika	tor BACnet		
	IP address	192 168 0 115	Port	0			
	Computer name		1026				
	Default Operator:						
	ifter						
	Adjust touch panels						
	Adjust to the touch pa	anel					
	File server (users photos)						
	Access path to the users	photo catalogue					
					OK Cancel		

You can always add a new operator using the tools in Explorer. After logging out, you can log in as default user, without any password.

3.0 Explorer

Explorer is a main tool for administrating IFTER EQU. Here you can add, edit and delete configuration elements.



Explorer divides into two main parts: tree on your left and a list on your right. Select an element on a tree to see the list.

Above the list you can see special buttons designed to easily manage the list.

٥	Add	Click on it to open the Wizard where you can create new element.
<u>الم</u>	Delete	Click on it to delete an element. This action often requires confirmation.
¢	Settings	Open a new window where you can see and edit numerous setting regarding selected element.
ľ,	Сору	Create new element, based on the existing one. You will need to enter the name. Make sure to enter a unique name each time, so that every element can be easily identified.
Ø	Edit	This button is applicable only in case of graphics. Click on it to edit any settings of a graphic element.
	Show	This button is applicable only in case of graphics and reports. Choose it to see a preview of selected graphic or a report printout.

The list of available icons depends on the access level of the operator, as well as selected elements.

On the list of elements, you can see their name and descriptions. Tree of elements consists of 5 basic parts.



Settings – general system settings

Server – define your server for data distribution between IFTER EQU and external systems via OPC or SNMP.

Integration – configure devices supported by IFTER EQU.

Network IFTER EQU – define your workstations in IFTER EQU.

Events from devices – global system events. You can restrict access with appropriate settings in Access range.



In this column you can find:

- Alarm delivery,
- Alarm definition,
- Alarm points,
- Alarm procedures
- Users,
- Users groups,
- Areas,
- Graphics templates
- Graphics,
- Schedules,
- Triggers,
- Operators,
- Access Range,
- Graphs,
- Thresholds,
- Patterns,
- Scripts.

Click **Properties** to see the list of available options:

- Event recording properties
- Events custom colors
- License key server declaration
- Touch panel settings

3.1.1 Event recording properties

IFTER EQU events are registered in two separate databases simultaneously. In the first database you store events along with global system configuration. After exceeding logs capacity, the oldest events are deleted.

Second database was designed for archive. You can see older events, using Archiw.exe. If you use Oracle 10G database, your oldest events will be deleted, when the event load approaches 4GB total. This mechanism prevents the system from blockade as a result of exceeded maximum capacity. Click on Settings to open a new window with two tabs:

- General
- Archive data

General

Here you can configure your events logs and their capacity. Events are displayed automatically without any action from the operator. If you also implement access range, some of the events might be left out.

Event recording properties							
General Archive data Image: The following settings will allow to set the maximum logs capacity. The oldest events will be deleted when you reach maximum load.							
Alarm log:		Operator log:		System log:			
2000 ▼ Integrated system 2000 ▼	Confirm active Delete Delete history n log: Delete Delete history	1000 -	Delete Delete history	1000 🔻	Delete Delete history]	
				Restore default			
					OK Canc	el	

Here you can set the following parameters:

- Alarm log: registered separately for each workstation. Limited for alarms, both confirmed and not confirmed;

- Integrated system log: global system logs;
- Operator log: registered actions of IFTER EQU Operator. Logs are submitted for each workstation separately;
- System log start/finish of system activity, modules upload, etc. Logs are submitted

for each workstation separately.

You can introduce the following commands: **Confirm active** – confirm active alarms on all stations. **Delete** – delete log entries on all workstations. **Delete history** – delete archive entries on all workstations.

Enter the maximum event load. Once it's exceeded, the oldest events will be deleted.

Archive data

Switch on archive to save logs from a proper log. Log tables are located in a separate database scheme.



Select the element you want to archive in the log. Event tables are saved in a separate database scheme, so that the increased event load won't impact the speed and stability of IFTER EQU. With Oracle 10G database you are limited to 4GB of data.

3.1.2 Event custom colors

If you want to distinguish your events really easily, you can assign a different color to each type of event. Click Add to open a new window that includes: Device, Name, Font, Color, Device, Type and Background color.

Events custom colours						
device	Name		Font	Colour	Identifier	
	Device	Туре:				
	Not selected 🗾 👻					
	Font colour	Background colour				
			ncer			
Add	Delete					
				0	IK Cancel	

Device – select from the list

Type – enter the number of event for a particular integration. You can find a number in events log (ID number).

Font color, Background color – you can choose from number of colours. Click Add or Cancel to proceed.

3.1.3 License key server declaration

Select a computer where you installed an USB hardware key. Click on Properties to choose workstation and see the IP address.

3.1.4 Touch panel: Settings



You are free to adjust a touch panel for your specific needs. You can define various keyboards and characters specific for any language. You can also set a number of different keyboards and use them every time you need. Select appropriate buttons (Add, Delete, Edit) to configure your keyboard.

Tou	chpanel	settings										×
To	uchpanel	: settings		Tou Ke	uchpanel: yboard	name						
	~	1	2	3	4	5	6	7	8	9	0	_ =
	q	W	е	r	t	у	u	i	0	р]	
	a	S	d	f	g	h	j	k		,	•	\+
	z	X	С	V	b	n	m	,	•	1	<	>?
	<< >> Space Backspace											
											OK	Cancel

Click Add to create a new keyboard. Next, you need to **Edit**. You will see a new window with editable keyboard. Fill it with the characters of your selection and choose a name. When your keyboard is ready, click **Save**. If you have more than one keyboard, you can use arrows to choose one of them.

То	Touchpanel: settings									x		
Т (Touchpanel: settings Image: Setting Image: Seti											
	ł	Ś	ć	ń	ą	ę						
	~~		·>			Spa	асе			Bac	kspace	
										ОК		Cancel

3.2 Alarm delivery

Here you can decide, when to set off the alarm and how and where to deliver it. You can see two tabs: General and Delivering.

3. 2. 1 General

Define basic parameters of alarm delivery.

Alarm delivery	
General Delivering	
Name:	
dostarczanie 1	
Description:	
Call the alarm upon no response Alarm	Time
Not selected	0
Access range: Default range	
	OK Cancel

Name – up to 31 characters, all included, with space.

Description – additional text by the system or the administrator, up to 63 characters, all included, with space.

Access range – access to alarm delivery. Without proper access, operator will not be able to see this delivery.

Call the alarm upon no response – decide where to set off the alarm.

Time – time (minutes) for reaction; operator must take action to confirm the alarm. If the defined time passes without any reaction, the alarm will be set off. It can be activated from another computer. It will inform about lack of reaction.

3.2.2 Delivering

Here you can add, delete and edit settings. You can define multiple deliveries for one workstation, with different settings for each of them.

Alarm delivery							
General Delivering							
۵ 谢 🗳							
Station name	Delivery name						
Acc	dfsdf						
	OK Cancel						

Click Add to see the following window.

Alarm delivery	- settings	_	×
	Station type		
	Oesktop computer		
	○ Mobile device		
		Next >	Cancel

3.2.2.1 Desktop computer

Click Next to move on to this step.

Alarm delivery – settings	
The following settings allow you to choose after-alarm procedures and to establish the time of realizing this procedures by switching on the right schedule. IFTER EQU workstation Not selected Name: Schedule:	 Start the program Activate alarm point associated with the device Save in active alarm logs after the alarm System signal after the alarm Audio file playing after the alarm Open graphics E-mail after the alarm SMS after the alarm
Not selected	
E-mail configuration After what SMS congifuration 00:00	at time do you want to switch off message recurrence:

Here you can define the following settings:

IFTER EQU workstation - where to set off the alarm;

Name – we recommend a unique name for each delivery, for easy identification;

Schedule - delivery will take place within time range associated with a schedule;

Switch off message recurrence – regarding e-mail and SMS configuration. The first alarm will initiate the countdown. During that countdown another alarm delivery will not send another e-mail or SMS. After countdown is complete, an e-mail/SMS will be sent upon the alarm and the countdown will start over.

E-mail configuration

E-mail configuration	×
Server configuration	
	Mail server:
	Sender address:
	Sender name:
25 Port: (default 587)	
No encryption Connection security	
	Login for authentication
	Password to e-mail account
Messages settings	
	Sending address
	Subject
	Message
Run a test	OK Cancel

Enter the following data:

Server configuration – server and sender data;

Connection security – select one option: no encryption, Start TLS, SSL/TLS;

Authentication - select this option and then proceed with login and password;

Messages settings - enter an address, subject and message;

Run a test – check for any errors in message configuration.

You can configure your message with macros with a symbol % on the front. See the following pattern:

%k - name of the controller, control unit;

- %w name of the alarm line, reader, fire line or the element on a fire line;
- %s name of the area, subsystem, group;
- %d date and time when the alarm occurred;
- %o alarm description, downloaded from integrated system;
- %u name of the user who set off the alarm

Configure SMS

Alarm notification can be sent by SMS.

Configure SMS	
SMS integration:	
Messages settings	
Phone number	
Message	
	Ok Anuluj

SMS Integration – choose GSM modem (configuration in Integrations on explorer tree). **Message settings** – telephone number and message.

Options

Start the program – when the alarm is set off, the system will start a program associated with an output from which the alarm came. You can find available programs on the explorer tree (IFTER EQU workstation).

Activate alarm point associated with the device – alarm point defined for particular alarm;

Save in active alarm logs after the alarm - save the event in alarm logs;

System signal after the alarm – After the alarm there will be an audio signal from the system. If you select an option to play audio file after the alarm, the system will bypass this step and will only play an audio file.

Play audio file after the alarm – WAV. file you can configure in Alarm definition (General tab).

Open graphics – when the alarm is set off, the system will open a graphic which you can choose on Association tab on the alarm device.

E-mail after the alarm / SMS after the alarm – textual notification about the alarm.

You can configure your message with macros with a symbol % on the front. See the following pattern:

%k – name of the controller, control unit;

%w - name of the alarm line, reader, fire line or the element on a fire line;

%s – name of the area, subsystem, group;

%d - date and time when the alarm occurred;

%o – alarm description, downloaded from integrated system;

%u - name of the user who set off the alarm.

3.2.2.2 Mobile device

Select mobile device to see the following window:

Alarm delivery – settings	
The following settings allow you to choose after-alarm	IFTER EQU mobile device:
procedures and to establish the time or realizing this procedures by switching on the right schedule.	Not selected
	Name:
	Schedule:
	Not selected
	System signal after the alarm
	Open graphics
	OK Cancel

Enter the following information:

Name – unique name which will help you identify specific setup;

Schedule – delivery will take place within scheduled time range;

System signal after the alarm – signalize the alarm;

Open graphics – when the alarm is set off, the system will open a graphic associated with this alarm.

3.3 Alarm definition

With alarm definition you can establish how to present an alarm to the user. There are two types of alarm definition:

- standard: associated with the device (there are two tabs in this case: General and Comment);
- structure definition: allows you to identify alarms on multiple levels (for example: room, floor, building, object); there is only one tab here (General).

3.3.1 Standard definition: General

Alarm definition	
General Comment	
Alarm	Name
	Description
Alarm structure definition	
Alarm comment is required	
Not selected	Alarm delivery
Not selected	Alarm procedures
Not selected	Active script upon alarm set off
Not selected	Active script upon alarm confirmation
Description	
Alarm %k %w	
Parameters available: %k %w %s %d %o %u	
Audio file	
Colours	
Alarm colours	Priority:
	0
	OK Cancel

Here you need to set the following parameters:

Name – name can contain up to 31 characters – you can introduce any character and spaces between words

Description- additional text – originated from system or user – can contain up to 63 characters. You can introduce any character and spaces between words.

Alarm delivery – alarm delivery

Alarm procedures – select alarm procedures

Description – text displayed upon alarm and after restore to the normal operation. You can add your own description and use the template with % at the beginning. Follow this pattern:

- %k name of the controller, control unit
- %w name of the alarm line, reader, fire line or the element on a fire line
- %s name of the area, subsystem, group
- %d date and time when the alarm occurred
- %o alarm description, downloaded from integrated system
- %u name of the user who set off the alarm

Audio files- choose WAV file which you want to hear upon the alarm. To switch on audio file, you need to select a corresponding option in Alarm delivery properties.

Colors – define the color of the font and background of the active alarm.

Priority – a number from 0 to 255 which will define the alarm priority on the "active alarm" list. 0 (zero) is the highest priority. The highest priority will be at the top of the list, even if there will be more alarms coming after them. If all the alarms have the same priority, they will be sorted according to the time of arrival (when the alarm start).



3.3.2 Standard definition: Comment

In this tab you can define up to 16 comment templates which will be suggested after the alarm occurs. Each comment can consist of 63 characters. Operator can later introduce his own comment or select one from the list. Comments are saved in alarm logs.

3.3.3 Alarm structure definition - General

Thanks to alarm structure definition you can define alarms of multiple layers, representing system structure on the object.

Alarm definition		_
General		
Alarm	Name	
	Description	
Alarm structure definition		
Add/delete an alarm		
Available	Used	
Alarm UNICARD SINTONY		
	OK Cancel	

On this tab you can see the name and description of alarm structure. To build a structure you need to create the alarms in alarm definition. They might relate, for example, to particular floors of the building. Next you need to create building alarm and select the following option: **Alarm structure definition**.

Assign defined alarms to the chosen structure. Confirm the structure to put it on the main list in the Explorer.

Properties

Click on **Properties** to see and change any settings regarding alarm definition.

3.4. Alarm points

Alarm point is the integration element of IFTER EQU. It is activated during the alarm and sends steering command to other devices (also via internet). Alarm point supports multiple kinds of steering. It can send commands both textual and numerical.

3.4.1 Add alarm point

Click **Add** to see the list of alarm points. Go to Properties to declare which outputs you want to include on that list: commands or scripts.

Add	d alarm points	X
	Select a device/script for which you want to define steering	
	GALAXY/Output1001 Script 1	
	Previous Next Can	cel

Select a device and click Next.

Add	alarm points	x
	Name of the alarm point	
	GALAXY/Output1001	
	Name	
	GALAXY/Output1001	
	State	
	OFF	
	[⊙] on	
	Previous OK Can	cel

Enter the name and the state of the alarm point. Operator can define a script as an alarm point. Therefore, by selecting that point, you will see the following window:

A	dd	alarm points	x
		Name of the alarm point	
		Script 1	
		Name	
		Script 1	
		Туре	
		Enumerative	•
		State	
		0	
		Previous OK Can	cel

Define Type (enumerative, analogue, text) and state (0 – disabled, 1 – activated).

3.5 Alarm procedures

Alarm procedures form a part of alarm structure. It's a support mechanism that forces certain steps to be taken upon the alarm. Thanks to pre-established procedures, the operator is provided with quick and clear instructions that he can follow in a stressful situation. User cannot confirm the alarm unless all the procedures are finished.

3.5.1 Add alarm procedures

In this window you work on three tabs: General, Alarm procedures,

3.5.1.1 General

Alarm procedures - properties	
General Alarm procedures Links	
Name:	
Fire hazard	
Description:	
Stanuaru procedule	
Schedule:	
Not selected	
	OK Cancel

Set the basic parameters of the alarm procedure: name, description and defined schedule.

3.5.1.2 Alarm procedures

Alarm p	rocedures - properties	
Genera	Alarm procedures Links	
Hea	sdine:	
Fire	: hazard	
Pro	cedure:	
1	Real	
2	False	
3	Call the fire brigade	
4	Call the police	
5	Call the ambulance	
6	Call off the alarm	
7	Begin evacuation	
8	Release evac door	
9		
10		
11		
12		
13		
14		
15		
16		
		UN Lancel

Create short descriptions of procedures. Those procedures will need to be completed before confirming the alarm (the alarm can be mute, but not confirmed before that). You can define up to 16 procedures and create special links in the next tab.

Links

Create alarm procedures						
General Alarm proc	edures Links					
Nevt stens:					a	3
Net selected						-
Not selected		•]		
, ·						ר

By creating precise links between procedures you can establish protocol useful in dangerous and stressful situations. To edit procedures, click **Add** button on the right side of the window. The window will slightly change:



The smaller **Add** button (on the right) allows you to add steps. Green box button on the left allows you to add procedures. Procedure forms a part of the step. For example: when fire alarm occurs, the first thing for operator is to check whether the alarm is true or false. In this case, "False" and "True" parts are "the procedure" and selecting one of those options is a step.

In order to change relation ("and" / "or") or set a procedure, you need to exit edition mode. After your procedure tree is created, assign defined procedures you entered on the previous tab. See the example below:

Alarm procedures - properties	×
General Alarm procedures Links	
Next steps:	ð 🐔
1. Real and or	
3. Call the fire brigade	
4. Call the police	
5. Call the ambulance	
7. Begin evacuation	
8. Helease evac door	
6. Call off the alarm	
	OK Cancel

To delete a procedure, use **Delete** button.

With IFTER EQU you can manage users in a simple and effective way. Users are persons introduced to the security systems. Use a creator to add a user.

3.6.1 Add a user

User creator	X
Enter basic informa	ation about this user
Surname: Locke	Personal ID number 1234
Name: John	Year of birth: 1980
Sex 🔿 Woman 💿 Mar	
To continue	, click Next.
	Dalej > Anuluj

To start the creator, click **Add**. In the first window you must enter basic information, such as: name, surname, sex, etc.

Click **Next** to fill additional information regarding this employee.

User creator				×
	Additiona	l info		
	Position: Office staff		Phone number - work: 111111	
	Department: IT		Phone number - home 222222	c
	Group:			
	To continue, click Ne	ext.		
		< Back	Next >	Cancel

Next, you can add a photo for easier identification. Click Add in order to search photo catalogue defined as a server. You can only select a file from this catalogue. It must be a .bmp file.

-	Jser creator	J
	Photo	
	Personal photo can faciliate identification of persons present on site. It also can help search through user database.	
	To continue, click Next.	
	< Back Next > Cancel	

Click Next to open another window and choose ID type. The administrator can create empty Ids without any data and use them later for visitors.

User creat	tor	×			
	Choose the ID type.				
Choosing a system type will allow to enter the number of ID card of the user.					
	Sustem tune:				
		Not selected			
Acc	cess range:	ID number:			
De	efault range 🔹 👻				
	To Finish, click Finish.				
	- Back	Finish Cancel			

System type: which integration will support this ID (Galaxy, Satel, etc.). **ID number:** unique number for user identification, saved in the system. **Access range:** select access range for this user.

3.6.2 User properties

In this window you can edit personal data of defined users. Here you have two tabs: General and Access Control.

3.6.2.1 General

Here you can change personal data saved in the system.

User properties						
General Level and access control						
Locke		Surname				
John		Name				
123	34	Personal ID number				
198	30	Year of birth:				
🔲 Woman	🔽 Man			180 x 2	40	
Office staff		Position				
IT		Department:				
First floor	•	Group				
Reference nur	nber:					
Additional in	formation:					
				ОК	Cancel	
3.6.2.2 Level and access control

It's a two-step arming mechanism for Galaxy alarm groups. For more information, please refer to Galaxy manual.

User properties		_	x
General Level and access c	ontrol		
Identifier			
Steer:	System type:	Number of the group	
 Group 	GALAXY	1	
🔿 Output	ID number:		
	1		
Access range:			
Example range	▼		
		OK Cancel	

3.7 Users groups

IFTER EQU Explorer allows you to create groups (departments) and assign users.

Add a new department	x
Enter the name of the department	
I he name of the department must be unique, because it will be used to identity and distinguish groups.	
In the description you can include the information to help the IFTER EUU Uperator distinguish the departments	
News	
Description	
Next>	Cancel

Click **Next** to form the group of selected users. You can choose from the list of users introduced to the system. You can assign one person to one group. If you assign one person to the second group, he/she will be deleted from the first group.



In the Properties you can edit group and see basic information defined earlier in the system.

3.8 Areas

Isolated parts of the object based on the integrated access control system. Thanks to areas you are able to quickly locate defined users and visitors. Special counting mechanisms allow you to keep track of number of people present in the area.

Area pro	operties 🧰	۲
Genera	al Door	
	Name	
	Building 1	
	Description	
	Main building	
	Туре	
	Direct door control (default)	
	Access scopes	
	Default range	
	OK Cancel	

3.8.1 Add area

In a General tab you can edit a name, add a description and decide, whether or not the area will support access control system or area structure control.

Doors

You can see this tab only after you select an option of Direct door control. To assign the door to the area, you need to go to properties of the proper reader.

3.9 Graphics templates

Here you can define how to graphically symbolize any state of a given component.

3.9.1 Add a template

Select Graphics templates in the Explorer and click Add button.

Templates		 2	(
	Name Template 1		
	Description		
	1		
	C	Next Cancel	

Templates	
	Turn
	Element:
	Reader
	Previous Next Cancel

Follow instructions in the window. Enter the name and additional description. Next, you need to select a type (integration) and an element (for example, a controller). Click Next to define more advanced parameters of your template.

Color

You can change color and description for each state.

Templates: cctv			
Name / -Type: © Co © Bit	description lor map	Settings Descriptions ✓ Name of the element ✓ State description	
State	Image	Description	Font
0	Text	Active	F
1	Text	Access Denied	F
2	Text	Access Granted	F
Frame Style Color Thick	e	Black Color White Transparency	
		Save	Cancel

Description

Name of the element – select this option to include name of the element in the template. **State description** – select this option to include the state in the template.

Hints:

Name of the element – hove over the element to see a hint with a name.

State description – hover over the element to see the description of the current state of the element.

Font – select a style, size, color.

Frame – if you want to frame your template, choose a color and thickness. **Background** – choose a color for each state.

Transparency – select a color you want to be transparent.

Bitmap

Templates: cctv		
Name /	description	Settings
Type: Col Bitr	or nap	Transparency Hint Switch on Name of the element White State description
State	Image	Description / Path
0		Active
1		Access Denied
2		Access Granted
		Save Cancel

Transparency – select a color you want to be transparent on your bitmap.

Hints

Name of the element – hove over the element to see a hint with a name. State description – hover over the element to see the description of the current state of the element.

3.10 Graphics

Graphics were designed for integrated systems visualization. Operator defines size and look of graphic boxes. IFTER EQU offers and editor where you can set all the necessary parameters of your graphics. After you place components, your graphics becomes dynamic – shows current state. Select **Graphics** in the Explorer to see the list, add, delete and edit graphics.

Functional buttons

ò	Add	Open graphics creator
E,	Сору	Create a new graphics, identical to the old one. You need to assign a unique name.
<u>ل</u> ب ا	Delete	You won't be able to recover deleted graphics. All the components will be erased as well.
¢°	Properties	Here you can change defined parameters of the graphics.
Ø	Edit	Open component manager of the selected graphics. You can add, delete and change existing components.
	Show	Graphics preview. Your graphics is dynamic, which means you can see the state of devices located on the graphics as components.

Functional buttons in the Editor

×	Close	Close graphics editor and go to the Explorer.
	Save	Save graphics properties.
k	Cancel insert	Hit this button to block new components. With hand tool you are able to manage existing components.
*	Insert component	Place components on the selected graphics.
-	Show	Display component properties: size, access range, etc.
(Hide	Hide component properties.
	Shapes	You can create alarm area of any shape. Click Shape button. Next, click Start and draw a desired shape. Click Stop to finish drawing. This button is available only for Alarms .
	Start	Use it to start creating a shape.
STOP	Stop	Use it to stop creating a shape.

3.10.1 Add Graphics

Use a Creator to add a new graphics.

Graphics Creator	X
Enter basic information abo	ut a new graphics.
Name:	
Description:	
Number of layers	
0	
	Next > Cancel

Please enter the following information:

Name – name can include small and capital letters, as well as numbers;
 Description – add any description that will help to identify the graphics;
 Number of layers – define how many layers will be included in your graphics.

In the next window, choose your graphic background.



The file has to be .bmp extension.

Before you choose your background you will see a preview.

If you don't want to choose any background, click **Next** to select a color.

Click **Finish** to save the background.

3.10.2 Graphic properties

In order to make changes in the graphics, open Properties. Here you can find two tabs: General and Background.

3.10.2.1 General

Graphics properties	×
General Background	
Name:	
alarm	
Description:	
Author:	
ifter	
Graphics size	
 Standard 	
O Dialog box	
·	
Scripts	
During oppoping of graphics	
National States	
Layers	
Number of layers	
Access level	
Default range	
ОК	Cancel

Name: unique identification name of the graphics.

Description: additional information.

Author: operator who created this graphics.

Graphics size:

Standard: define maximum window size (depending on resolution).

Dialog box: define graphics size: height and width. We **do not recommend** you open dialog box in a cascade.

Scripts: here you need to decide if you want to activate any scripts while you open or close the graphics.

Layer: you can change number of layers defined before in the creator.

Access level: define access level an operator must have to open or edit the graphics.

Graphics properties	
General Background	
Background	
Net	
🔲 Use a bitmap	
Alarm graphics	
🔲 Use a bitmap	
Wrong filepath *.bmp	
	OK Cancel

Here you can manage graphic parameters (bitmap or color). If you select **Net** you should define density as well. The net will be visible in graphics editor.

Alarm graphics

A background for alarm graphics is used only for printouts. In this case graphics filled with components will be printed. It includes components in alarm and active alarm events.

3.10.3 Graphics editor

To go to graphics editor, select a graphics from the list and click **Edit**. You will open a new window with three tabs: Integrations, Alarms and System. With this tool you are able to define your interface and functionality.



Here you can find the list of devices and components that belong to each integration. **Integration** – select a system integrated by IFTER EQU, according to your license. **Device** – list of devices changes, depending on integration. The list of available devices will be displayed in the left column.

Component type – this option is available after you define more than one component. If it's possible to steer the device (for example, send a commend to bypass, activate, arm, etc.), you will have to additionally establish appropriate functions. You can also define access range for steering.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

Graphic template – select defined template.



Here you can place components which will represent the state of alarms established in Alarm definition. In the left column you can see the list of alarm definition. Select one to see available options in the right column.

Realized function – select a function from the list. Depending on a function, you have some extra options available.

Blinking – when the alarm goes off, the component will blink.

Support when it's not active – when the alarm is not active, system will conduct defined functionality.

Graphic template – select defined template.



This tab allows you to manage all available components. Operator place them on a graphic template in a form of a rectangle. To make them fully functional, you need to save and display your graphics (**Show** button).

3.10.3.3.1 Component: Image



This component allows you to manage bitmaps and color background.

Bitmap:

Bitmap – component.

Transparency on – choose a color you want to be transparent on your background. **Height, Width – set the size of the component.**

Rotation – rotation range of the component.

Graphic template – select defined template.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.

Fill with color

Color – select a color.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

Graphic template – select defined template.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.

Select **Use the template** to open a window where you can choose your template.

3.10.3.3.2 Text



Fill your graphics with text.

Description text – enter a proper text.
F – font size and style.
Color – select a color.
Fill color – select a color.
Horizontal / Vertical align: set the text.
Height, Width – set the size of the component.

Rotation – rotation range of the component.

Graphic template – select defined template.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.



This tool allows you to create 3D button or a template button.

Description text – enter a proper text.

Funkcja realizowana – wybranie funkcji jaką będzie realizował przycisk. **Height, Width – set the size of the component.**

Rotation – rotation range of the component.

Graphic template – select defined template.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.

You can also select **Template** button and assign a proper **Realized function**.



This component allows you to steer external devices via xDrivers module.

xDrivers - name of the steered device.

xDrivers output – a command which is to be sent to an external device.

Steering – select one of available options: No password, Enter the password of logged-in Operator, Enter any Operator's password.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.

3.10.3.3.5 Log



Log – select one type from the list.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.

Save the component to see the log on graphics.

3.10.3.3.6 Graphs chart



This component represents value changes from outputs and inputs of integrated devices.

Source (graphs) – select a trend which will be displayed.

Graph description – enter any description.

Axis value description – axis Y.

Refresh time – how often a graph value will be registered. **Height, Width – set the size** of the component. Layer – if you created more than one layer, assign your component to one or all of them.

View access range - any operator below this access level will not be



This component represents the list of tasks executed by IFTER EQU.

Script – select a script.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

Layer – if you created more than one layer, assign your component to one or all of them.

View access range – any operator below this access level will not be able to see the component.

3.10.3.3.8 Footfall in the area



This component allows you to estimate a number of people present in the particular area.

Area – select an area for footfall count
Text – enter the text that will be displayed on this component.
F – font size and style.

Color – select a color.

Fill color – select a color.

Horizontal / Vertical align: set the text.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

3.10.3.3.9 Users in the area – Correct



You can update the list of persons present in the particular area.

Source area – select.

Target area – select an area where deleted persons will be assigned.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

3.10.3.3.10 Find a person



You can look for a particular person present in the area.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

Layer – if you created more than one layer, assign your component to one or all of them. **View access range** – any operator below this access level will not be able to see the component.

With this component you can search through personnel database and quickly locate person you are looking for. You can search by name, surname, age, sex, status (employee, visitor, VIP), area, department and position.

🔍 Find a person	Surname	Name	Department:	Position:
Enter the surname:	Locke	John	IT	
	NazwiskoEQU2	ImieM		The person was last seen at
Or/and the name:				
				Phone number - work:
Search now				
				Phone number - home:
Searching options >>				
Searching options allow to search people also by other criteria, not only by name or surname				

3.10.3.3.11 Add a person - Wizard

This component is available in COMPAS integration.



Reader port - select from the list.

Permission for issuing cards – check a proper box.

Height, Width – set the size of the component.

Rotation – rotation range of the component.

component.

3.10.3.3.12 Restrict persons



Height, **Width** – set the size of the component.

Rotation – rotation range of the component.

Layer – if you created more than one layer, assign your component to one or all of them. **View access range** – any operator below this access level will not be able to see the component.

Restriction is a useful tool for reception employees. EQU user can quickly and effectively manage access control on the object. User can check for necessary information, such as specific location where the visitor is allowed to go, whether this person is banned from the premises, etc.

3.10.3.3.13 Event and persons preview

Edit graphics		×
💽 Integrations [Alarms 🕅 System		Description:
Podstawowe		Preview of people going through the p
А ок		
Image Text Button		
		Access range:
		
xDrivers Log Graphs chart		
	_	
N 124 🍂	=	
Scripts Footfall in the Users in the area area - Co		
2 1 2		Width Height
Find a person Add a person Restrict		842 400
wizard persons		Rotation:
		0
Event and State State list		
persons signalization		
		Layer
Reader Panel		All
		View access range
	*	Default range

Description – enter any description.

Access range – concerns a controller used for events registration.

Height, Width – set the size of the component.

Rotation – rotation range of the component.





Thanks to this component you can work with module which will inform you if certain element is blocked or bypassed.

Signalization - select: Bypass, Alarms, Faults.

Realized function – select: Close graphics and open another one, Open another graphics.

Height, Width – set the size of the component.

Rotation – rotation range of the component.



This is a tool to present a list of elements that meet certain criteria. Click on the device to display a proper graphics with this device.

Show on the list – select: Bypassed elements, Damaged elements, Elements in alarm. **Text** – device description.

F – font size and style.

Height, Width – set the size of the component.

Rotation – rotation range of the component.



This component is designed to support Combo Scan device, which scans ID papers and extracts data such as name, surname, parents' names and photo.

3.10.3.3.17 Component box



Component box is an additional window on which you can put other components to see them on one background instead of multiple backgrounds. Create components and place them in the component box, you will obtain a whole preview.

3.10.4 Place components of graphics

Select a component and click on a graphic background. Each click makes another component. You can edit active components (with little squares in the corners). Click **Insert Stop** to finish.

3.10.5 Delete components

Click the right mouse button and choose **Delete.** You can also use a keyboard – Delete.

3.10.6 Copy and paste components

Click the right mouse button and choose **Copy.** You can also use a keyboard – CTRL + C. Selected component will be duplicated with all its parameters.

To put duplicated component on your graphics, click the right mouse button and choose **Paste.** You can also use a keyboard – CTRL+V.

3.10.7 Settings

Click the right mouse button and choose **Settings.** You can also use a keyboard – F4. Window with component properties is different, depending on a component.

3.11 Schedules

Schedules were designed to plan, steer and manage alarms and events. Also, it allows to steer integrated devices and define access level for other operators. You can create schedules years ahead. One schedule can include an infinite number of operators and alarm templates.

						X
Daily Annual preview						
Add a day						
Monday 🖉 🗊 🔺	6.	C-	D	C -	N	
00 02 04 06 08 10 12 14 16 18 20 22 24	51		Pt 2	50	N 5	
6 7	8	9	10	11	12	
Tuesdau 🖉 🕞 13 14	15	16	17	18	19	
	22	23	24	25	26	
27 28	29	30				
00 02 04 06 08 10 12 14 16 18 20 22 24						
Name of a sche	lule					
Ihursday [27] ∥≣] 00 02 04 06 08 10 12 14 16 18 20 22 24						
	-					
June	-					
2016	-					
Saturday Ø 🗊						
Sunday 🧭 🛱						
					OK	Cancel

3.11.1 Add schedule

Click Add to create a new schedule. You will see the following window.

You can manage schedules with the following buttons.

ò	Add	New schedule.
ľ,	Сору	Copy saved schedule with all parameters. Select from the following options:
		 to the existing day: select a day; create a new day using the settings you copied: enter the name of the day where you want to copy your parameters.

×	Delete	Delete schedule.
(٢	Refresh	Update.
	Back	Get to the previous window.
<	Set	Confirm the schedule.
Ø	Edit	Open and change settings.

3.11.1.1 Daily

You can change particular days regardless of annual schedule. If you change one day of the week, it will apply to the whole year. If you don't design an annual schedule, it will be realized according to daily schedule. Special days are an exception and you have to define them individually for each date.

In order to create a new schedule, follow the instructions below:

- 1. Enter the name for the new schedule;
- 2. Use arrows to set month and year;
- 3. Edit chosen day of the week;
- 4. Set time range of a schedule (Start, Stop).
- 5. Hit Set defined time range will apply to daily schedule;
- 6. To set more than one schedule, click Add.

Monday	00 0	1 02 I	03 04 	05 	06 (D7 08	09 	10 	11 	12 	13 	14 	15 	16 	17 	18 	19 	20 	21 	22 	23 	24 		×	
Start Stop	00 0	1 02 	03 04 	05 	06 C)7 08 I I	09 1	10 	11 	12 	13 	14 1	15 	16 	17 	18 	19 	20 	21 	22 	23 	24 1	-		
08:45 🔄 13:45 🚖	00 0	1 02 I	03 04 	05 	06 C I)7 08 I I	09 I	10 I	11 	12 	13 	14 	15 	16 I	17 	18 I	19 	20 	21 	22 	23 	24 			
15:30 读 📧:59 荣																									
,																									
																						ок (Can	icel	

If one two schedules are partly simultaneous, the system will combine them into one time range which starts with the first schedule and ends with another.
Set the schedule for two days

If you want your schedule to include two consecutive days, set the time range for those two days. For example: you want to create a schedule from 17 on Tuesday till 10 on Wednesday, you should take two steps: create a schedule for Tuesday from 17 to 23:59 and for Wednesday from 00:00 to 10. This one-minute window will not disturb the whole two-day schedule.

3.11.1.2 Special days

Special days are exceptions from a regular schedule. It is useful in case of bank holidays, etc. You can assign a name and a color for each special day.

																													x
Special day1	ò	2	00 I	01 	02 	03 	04 1	05 	06 1	07 	08 	09 	10 	11 	12 	13 	14 	15 	16 	17 	18 	19 	20 	21 	22 	23 	24 _		
Start 09:45	Stop 13:45		00 I	01 	02 	03 	04 	05 	06 	07 	08 	09 	10 	11 	12 	13 	14 	15 	16 	17 	18 	19 	20 	21 	22 	23 	24]		
																											OK	Canc	el

If you want to add a special day, click **Start.** To remove it, click **Stop.** You can define a special day for any day of the month – just hit the name with preferred special day and next click on a proper date on a calendar on the right. Special days will be visible in the annual preview, including the color.



3.11.1.3 Annual preview

On the annual preview you can see all the special days throughout, as well as particular months. You can create schedules for years ahead.



3.11.2 Copy a schedule

IFTER EQU	×								
To the existing day									
Choose the day name, to which you want to copy the settings									
Not selected 🗸									
Create a new day using the settings you copied									
Fill the name for a new day									
OK Cancel									

You can duplicate any schedule. You can choose the existing day or create a new day for the schedule. New day will appear on the list automatically after you click OK.

3.12 Operators

Operator is a person with authorization to log in and operate IFTER EQU workstation. The administrator adds operator into the system. For each Operator you have to define the following parameters:

Name: unique identification, it can include big and small letters and numbers. It can include 4-15 characters. Username is used to log in to the system.

Password: security measure against unauthorized access. Each password should be unique (small and big letters and numbers). It should include 4-15 characters. The password is hidden while entering. Furthermore, it's encrypted with mathematic algorithm. Pay attention to small and big letters, both in the login and the password.

Name and surname: can include up to 64 characters.

Access level:

There are 8 access levels described below:

Level 1	This is bottom, most restricted level access. On this level user can open and close graphics, mute alarms, manage windows and change his own password.
Level 2	This level is for users that should not make any changes in the system. Here the user has level 1 authorization plus he has an access to event logs, location of a graphic on which the alarm occurred. User can also print reports.
Level 3	This level was designed for users which should be able to confirm the alarm. It's access level 2 plus alarm confirmation and closing the system.
Level 4	Here the user has all level 3 authorizations. Additionally, he can edit properties. This level was designed for operators of automation which is not available in this version.
Level 5	This level was designed for operators supporting administrator in setting up and managing workstations. It's access level 4 extended by the possi- bility to fully control the process of writing and configuring the reports, graphics, alarms, colors. User also has access to workstation lists, con- trollers and inputs.
Level 6	This level was designed for operators supporting administrator in person- nel managing. It's access level 5 with little modifications: user cannot manage alarms, graphics, workstation lists, controllers and inputs. Instead he has extended access to personnel and user schedule manager.
Level 7	This level was designed for operators who install and configure the sys- tem. This is the administrator access level, but without the possibility to create users, confirm alarms and locate alarms.

Level 8 Administrator has access to the whole system. For security purposes it is recommended that the administrator has two accounts: one as an admin and one for everyday activities.

3.12.1 Add an Operator

Hit **Add** to open a new window:

New Ope	New Operator – Wizard									
Enter ba	Enter basic information about new Operator									
	JohnS	Login								
	John Sun	Name and surname								
		Description								
Ope chai	rator will use his login to open the s acters, numbers, small and big lette	ystem, that is why it must be unique, contain at least 4 ers. Next > Cancel								

Login: small and big letters and numbers, up to 4-15 characters. **Name and surname:** up to 64 characters. **Description:** up to 250 characters.

Click Next to see the following window:

New Operator – Wizard										
Enter	Enter and confirm password for this Operator									
	•••••	Password								
	•••••	Confirm the password								
	Password should contain at le small and big letters.	east 4 and up to 15 characters. It should contain numbers,								

Numbers and letters are hidden for security purpose.

New Operator – Wizard	×
Additional information about Opera	itor
	Address
	Work phone
	Home phone
	Position
	ID of the employee
	< Back Next > Cancel

Address – can include up to 255 characters.
Work phone – can include up to 48 characters.
Home phone – can include up to 48 characters.
Position – can include up to 32 characters.
ID number of the employee - can include up to 32 characters.

Next, you need to assign a proper access level.

New Opera	ator – Wizard 🧮	x
Access le	evel you want to assign to this Operator:	
A	Access levels	
(🔿 Level1	
(◯ Level2	
(🔿 Level3	
(🔿 Level4	
(◯ Level5	
(🔿 Level6	
	evel7	
(🔿 Level8	
	<pre></pre>	

Click **Next** to establish specific authorization points for each Operator. Use arrows to move selected points between two columns.

New Operator – Wizard	X
Authorization you want to assign to th Available	is uder: Authorized to:
Alarms → Alarm localisation (graphics) Alarms → Alarm validation Alarms → Enter a comment Alarms → Settings Areas → Add Areas → Add Areas → Delete Areas → Settings Event Log → Settings Graphics → Add Graphics → Delete Graphics → Closing Graphics → Delete Graphics → Closing Graphics → Settings Help Integration → Add	 Alarm Log → Settings >> < <
	< Back Next > Cancel

In the following window you can decide, what elements of the system will be visible for the Operator.

New Operator – Wizard	
What elements of the main window you want to make accessible for the Operator?	
V Alarm line	
✓ Status line	
Graphics navigator	
< Back Next > Cancel]

Alarm line – displayed at the bottom of a screen, informing about the alarms.

Status line – displayed at the bottom of a screen, with the following information: date and time, active alarm, number of elements, used elements, Operator.

Graphics navigator – helps to manage graphics. To use it, you need to check the option **Adjust to the touch panel** in the workstation properties.

Next, you need to assign the Operator to a proper access range. It will apply automatically in the system.

New Operator – Wizard	×
A	ccess range
Available	Authorized to:
	Default range zakres1 Example range
	>>
	<<
	< Back Create Cancel

3.12.2 Operator properties

Enter Properties to edit any settings for the Operator selected from the list. One administrator cannot change properties of another maximum level user.

3.12.2.1 General

Operator	properties							X
General	Operator data	Access level	Schedules	Access range	Graphics	Operator control		
								· · ·
						itter		Login
				ifter				Name and surname
	ifter							Description
▼A □ 0	Ilow this Operator Iperator will be au 15 minute	to log in the syst tomatically logou es	tem It after					
V SI	tatus line Iarm line							
Pass 0	sword change req The days.	uired every		New p	assword	Confirm	new password	Enter
								OK Cancel

Basic information about the Operator and logging settings.

3.12.2.2 Operator data

Operator	properties						X
General	Operator data	Access level	Schedules	Access range	Graphics	Operator control	
	I				Add	Iress	
					Hor	ne phone	
					Wo	rk phone	
					Pos	ition	
					ID (of the employee	
					Dat	e of creation	
					Cre	ated by:	
							OK Cancel

Contains personal identification data of the Operator.

3.12.2.3 Access level

Operator	properties						×
General	Operator data	Access level	Schedules	Access range	Graphics	Operator contr	rol
Access	level	Additional limits Available				Aut	thorized to:
C Leve	el1 el2					Ad Ad Ad	ccess range → Add ccess range → Delete ccess range → Settings Jam Log → Settings
C Leve	el3 el4					Al Al Al Al Al	Jams → Alam localisation (graphics) Jams → Alam validation Jams → Enter a comment Jams → Stetings
C Leve	el5 el6					Ai Ai Ai	reas → Add reas → Delete reas → Settings vent Log → Settings
C Leve	el7					Gi Gi Gi	raphics → Closing iraphics → Delete iraphics → Edit iraphics → Edit
	010					Gi H	iraphics → Settings lelp -
Not sele	cted 👻						
							OK Cancel

Here you can see and change access level and specific settings for the Operator. Use arrows to move particular points between two columns.

3.12.2.4 Schedules



Assign schedule to the Operator. He will be able to use the system only within this time frame defined by the schedule.

Available – see all schedules created in the system. **Authorized to –** schedules assigned to the Operator.

3.12.2.5 Access range

Operator	properties						X
General	Operator data	Access level	Schedules	Access range	Graphics	Operator control	
Avail Zakr Exar	able able apple range			Access range	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Authorized to: Default range	
							OK Cancel

Assign access range to the Operator.

Available – see all ranges created in the system. **Authorized to –** ranges assigned to the Operator By setting access range, you define which functions the Operator will be able to use.

3.12.2.6 Graphics

Oper	perator properties									
Ger	ieneral Operator data Access level Schedules Access range Graphics Operator control									
	Workstation	Monitor	1:		Monitor	2:		Monitor 3:	Monitor 4:	Mo
	equ	alarm			Not sele	ected		Not selected	Not selected	No
	Acc	alarm			Not sele	ected	•	Not selected	Not selected	No
	<									ъ
									ОК	Cancel

Choose graphics that will be automatically available in the system. You can assign different graphics to each monitor.

3.12.2.7 Operator control

Operator	properties									X
General	Operator data	Access level	Schedules	Access range	Graphics	Operator control		 		
Con	trol the Operator									
Min	imum control time	(mins)		Sched	ule					
5				Week	:1	•				
Ma	ximum control time	(mins)		Time fo	or reaction wi	thout setting off the	alarm (mins)			
51	۲			1	۲					
				Alarm						
				Alarm		•				
🛛 🕡 Ope	rator control: audir	sound								
-Audio	file	, sound								_
	Wrong filepath *	.wav								
								ОК	Can	cel

This mechanism allows you to test the Operator's vigilance during work hours.

Minimum control time [mins] – at least one minute.	
Maximum control time	[mins] – 1440 minutes maximum (24 hor	urs).

The system will display a control message in a random time (within defined range) and place of the monitor. The system will start another countdown after message is confirmed by the Operator. Both the control message and confirmation will be logged in Operator's Log.

Check-in message	
Please confirm the check-in n	nessage
Confirm	n

You can also establish how much time the Operator will have to confirm the control message. If the Operator fails to react in the given time, alarm will go off. Operator control can be adjusted and assigned to the schedule.

3.13 Access range

Access ranges allow to manage system resources. Use it to manage events, presentation or component steering on the graphics. Each Operator must have a proper access range to work on workstations, components, etc.

3.13.1 Add

Click Add and enter basic parameters for access range – name and description.

Access range properties	
Access ranges allow to manage system reso component steering on the graphics.	purces. Use it to manage events, presentation or
Name:	
Access 2	
Description:	
Medium	
	OK Cancel

Go to Operator's Properties to assign an access range.

3.14 Graphs

Graphs are designed to present value changes regarding inputs and outputs of integrated devices.

3.14.1 Add

To add a new graph, you need to enter basic parameters: name and description.

New graph		×
	Name	
	Graph 1	
	Description	
	Next >	Cancel

Click Next to move on to Settings.

Save:

```
Every time interval – with this option you need to set interval below
Each day at the scheduled time - set time of entry
When changing value– set Precision
```

```
enter an integer in the place of power in this formula:

\Delta = 1xE_{-1}

where: delta – incremental value

E - scientific notation

negative power - negative integer, for example -1

\Delta = 1x E_{-1} = 1x 10_{-1} = 0,1 we have value rounded to decimal place

positive power – positive integer, for example 2

\Delta = 1x E_2 = 100 value before decimal point
```

Schedule limit - select schedule Entry limit: Number of days – set the number of days p Number of entries– set the number of entries

In **Properties** you can also change settings.

3.15 Thresholds

Thresholds are designed to control device parameters. After exceeding threshold value system will generate a warning or initiate activity. Threshold value can be analogue or enumerative.

3.15.1 Add

Click the corresponding button to **Add** a threshold. Enter name and description. Choose the type: Analogue or Enumerative.

Thresholds		×
	Name	
	Threshold 1	
	Description	
	Example	
	Туре	
	Analogue	
	© Enumerative	
		Next Cancel

3.15.1.1 Analogue parameter

Threshold	s: edit						— X —
General	Parameters						
Thres	shold value						
		Add Delete					
					-		
State	Interval	Description		State type	U	ielay [sec]	Event log
1	(-INF;-9E125)			No commun	ication 0		Disarmed
2	(HNF;INF)			No commun	ication 0		Disarmed
Functi	on: incremental scope				State time		Event Ion
From	To Increi	mental function Y=A*X	Tin 🛛	ne Looloo 🔺	state type	lan -	
0	U T=		~ 00	:00:00 📷	Nocommunica		•
						0	

Threshold value – enter a value and click **Add**. This value will be included within the interval.

Description – interval description

State type – choose from the list: No communication, Active, Warnings, Alarm, or numerical 5-25.

Delay – for how long the state must go on

Event log – Click to see a little box on the right. Check it to switch on / uncheck it to switch off.

Incremental function - set desired values "from-to". If the value goes above or below, it will set off the alarm.

3.15.1.2 Enumerative parameter

Here you assign enumerative value taken from the Patterns.

3.16 Patterns

Patterns are designed to change the information format. For example, you can acquire textual description instead of numerical information. You can also establish a pattern for inputs and outputs regarding data display. Numerical patterns are designed for analogue inputs and outputs. Enumerative patterns are designed for binary inputs and outputs, as well as presentation of state of variables designated with specific nominal value.

3.16.1 Add

Add a new Patterr	1	x
	Enter basic parameters of the pattern	
Name:		
Description:		
Type of value		
Numerical		
	ОК	Cancel

To **Add** a new pattern, click on a corresponding button and enter basic information: name, description, type.

3.16.2 Numerical variable: Properties

Pattern properties			×
Name:	Parameters of the	e pattern of numerical variable	
Pattern 1			
Description:			
Unit	Divisor:	Precision:	
	0	0	
Displayed text and value form	nat:		
		OK	Cancel

3.16.3 Enumerative variable: Properties

Pattern properties	
Name: Pattern 2	Parameters of the pattern of enumerative variable
Description:	
Value	Text
Value:	Displayed text and value format:
0	
	Add Replace Delete Delete

Value – enter a number.
Text – enter text.
Export values to thresholds – you can use these variables in thresholds.

Pattern properties	
Name:	Parameters of the pattern of time variable
Pattern 3	
Description:	
Input unit	
Millisecond	•
Pormat:	
*	
	OK Cancel

Input unit can be a second or a portion of a second. Click Format to configure date.

3.17 Scripts

Scripts are tasks to be conducted by IFTER EQU with programming language. Defined script might control the device as an alarm point.

Script might be called from schedule, button (if script is defined as alarm point). You can see the following tabs: **General, Parameters, Associations.**

Scripts		x
General	Parameters Links	
	Name	
	Description	
	Define as alarm point	
	Save Cancel	

3.17.1 General

Enter basic information about the Script – name and description. If you want put the script on the list of alarm points, check **Define as alarm point**.

3.17.2 Parameters



This tab allows you to create a script. Open a new window to find a device (Find an element of the integration). Select a device from the list. You can also use filter. Select one or more devices and hit Insert. You can also search by Type.

Check syntax – check your script for errors. Start – script activation.

cripts 📃 💌							
General Parameters Links							
When changing its state, schedule executes a script with two input parameters: schedule state (bool), schedule ID (integer)							
Computer	Computer						
Not selected	Not selected						
Schedule:	Trigger:						
Add Delete	Add Delete						
Combined schedules	Associated triggers:						
	Save Cancel						

Here you can link your script with a schedule. Select a computer and schedule and click **Add.** In a column below you will see available combined schedules.

4. Server

With servers you are able to transmit data to external systems, via OPC or SNMP.

4.1. Add

* 4	Add server – Wizard	
	Choose the server type	
	● OPC	
	© SNMP	
	OK Cancel	

Click Add and select server type:

4.1.1 OPC Server

OPC server	X
hlana	
I	
Description:	
Workstation:	
	-
Access range:	
Default range	•
🔽 Active	
Register as application	🔞 Register as service
💽 Wyrejestruj serwer	🕘 Deregister service
	Save Cancel

Name - name of the server.

Description – for easier identification.

Workstation – select workstation which will support this server.

Access range – select station, on which this server will be visible. **Active** – select this option to switch on the server.

Add OPC definition

The client won't see the server until you add a definition. Select server from the Explorer tree and click **Add.**

)PC server				
Name				
Description				
	Integration			
	Access scopes Default range			
	Next Ca	ancel		

Enter the following data:

Name – enter any name. If you choose the name of an integration, it will upload automatically.

Description – for identification.

Access range – select workstation for the server.

Steering – OPC client can steer particular control units.

Click Next.

OPC server				×
Integracja: GALAXY Types:	States:			
Module Group Line Output			Add	
Туре	Priority / State	State		
Delete				
		< Back	Save	Cancel

Type – integration elements.

State - element state.

Add - use it to move put elements on the list.

Delete - cancel elements from the list.

Use arrows to set priority list regarding state presentation for particular element's state. OPC server events are logged in system log.

OPC Server: Properties

Enter Properties to change any settings in server definition. You can use two tabs:

- General basic information and description;
- Parameters, with included states, types, priority of elements.

SNMP Agent							
Enter basic information about SNMP Agent							
The following settings allow you to configure SNMP Agent and to select port and IP address used by this server.							
	Not selected		•	Agent Server			
	SNMP Agent			Name			
				Description			
		161	۲	Port			
	public			Community			
			l	OK Cancel			

Select SNMP and enter the following information:

Agent Server – select a workstation for this server.

Name – name of the server.

Description – describe the server for easier identification.

Port – server port number for selected workstation (default 161).

Community – password: an operator will need it to enter information located on this server.

Enter Properties to establish additional information about SNMP Agent. This window contains three tabs: General, Encode, Send.

General

SNMP Agent – Pro	operties		×					
	Enter additional information about SNMP Agent							
General Encode	al Encode Send							
The following and password) settings allow you to conf d (community) used by this	igure SNMP Agent server.	and to select port					
	Not selected	•	Agent Server					
	SNMP Agent		Name					
			Description					
	16	1	Port					
	public		Community					
		V Arm						
			OK Cancel					

Agent Server – select a workstation for this server.

Name – name of the server.

Description – describe the server for easier identification.

Port – server port number for selected workstation (default 161).

Community – password: an operator will need it to enter information located on this server.

Encode

SNMP Agent – Properties		×
Enter additional inf	ormation about SNMP Agent	
General Encode Send		
Encode characters		
utf-8 🔹		
without Polish characters		
	ОКС	ancel

ISO – 8859-2 – standard regarding Polish characters. **Utf-8** – Unicode system.

Cp 1250 – System used by Microsoft Windows.

You can switch off Polish characters.

Send

SNMP Agent – Properties								
Enter additional information about SNMP Agent								
General Encode	Send							
Enter the address	of the station to which y	ou want to se	nd notificati	ions:				
Select the station:	IP address		Port	Community				
Select	127.0.0.1	162	۲	public				
Select	0.0.0.0	162		public				
Select	0.0.0.0	162		public				
C Select	0.0.0.0	162		public				
				OK Ca	ancel			

Send server notifications (traps) to workstations.

Select workstation – recipient station for the server.

IP Address – workstation address.

Port – server port number for selected workstation (default 161).

Community – password: an operator will need it to enter information located on this server.

5. Integration

Here you can find configuration settings of devices supported by IFTER EQU. Communication is conducted via RS232 or Ethernet. You can integrate all systems and define reactions between them.

5.1 Add



Click **Add** to see the list of integrations available for your license. Depending on integration, you will have to proceed with configuration.

For further information regarding integrations, please refer to specific documentation.

6. IFTER EQU Network

IFTER EQU network consists of workstations (computers) on which the software is installed.

6.1 Add workstation

Add a new workstation	×
Enter basic information about a new workstation	
Name of the workstation	
Neut	
Next >	

To add a workstation, you need to enter **Network IFTER EQU** section and select **Add** button. Enter the name and optional description. Click **Next**.

IP Address – address of the computer which serves as database. The workstation will connect with this computer.

Port – connection port for the workstation (default 1024). It will connect the workstation with the database.

Next you move to window settings. Unless you check **Maximum window size**, you will see the following window:

Add a new workstation	×
You didn't choose maximum window size. En permanent.	ter a size you want to set as
Window size	_
◯ 1024 × 768	
◯ 1280 x 1024	
◯ 1600 × 1200	
	<back next=""> Cancel</back>

You can set extra options: Edit preview, Edit access range, Adjust to the touch panel, Adjust to multiple monitors. Check Adjust to multiple monitors option to see the following window. You can include up to 8 monitors.

Add a new wo	orkstation
	Now you can set extra options
	Edit preview
	✓ Edit access range
	Adjust to the touch panel
	Adjust to multiple monitors
	< Back Next > Cancel

Click **Next** to set access path for users' photos. In the next window you need to choose a user which will be automatically logged in on the workstation.

Add a new workstation	×
Which Operator will be automatically logged	in after starting the workstation?
Choose an Operator:	
Not selected	
	< Back Finish Cancel

Click Finish. New workstation will be added in IFTER EQU.

6.2 Workstation Properties

6.2.1 General

Workstation p	Workstation properties						
General Wi	ndow settings Monitors	Events License key					
	Name of the workstation	L. C.		Description			
	equ						
	Access scopes						
	Default range		-				
		TCP/IP settings				Identyfikator BACne	et
	IP address	192 168 0	115 Port			0	
	Computer name		102	26			
	Default Operator:						
	ifter	•					
	Adjust touch panels						
	Adjust to the touch p	anel					
	File server (users photos))					
	Access path to the users photo catalogue						
						ОК	Cancel

Here you can change the name, description and access scopes (ranges).

TCP/IP settings: you can change IP address of the workstation.

Default Operator you can choose an operator logged in the system automatically, without username or password. You can also start the program in **Demo mode.**

6.2.2 Window settings

Workstation properties				
General Window settings Monitors Events License key				
Main window settings	Graphics settings - access range			
V Minimising	✓ Edit preview			
Maximum window size	Edit access range			
Hide the title bar				
	OK Cancel			

Here you can see Main window settings. You can minimize, maximize and hide a title bar. Graphics settings – access range. Here you can edit preview and access range.

6.2.3 Monitors



Choose how many monitors will by supported by IFTER EQU (8 monitors maximum).

6.2.4 Events

Workstation properties					
General Window settings Monitors Events License key					
Contirm Delete Delete history					
Operator events					
Delete history					
System events Delete history					
ОК	Cancel				

Confirm– confirm active alarms.

Delete – delete logs.

Delete history – delete archive logs.

6.2.5 Zakładka: klucz licencyjny

See: 1.3

6.3 Logs

0	Net	work	IFTER EQU
	모	equ	
		Þ,	Alarm Log
			System Log
		. E	Operator Log
	_	. 🔳	⊃rograms

Logs allow you to see all the events that occur in the system, as well as filter tchem properly.

Alarm log: see the list of faults that occurred in the system. System log: see the events in the system. Operator log: see actions of the logged Operator.

Programs

IFTER EQU allows you to establish programs that will start automatically if the specified criteria are met (events, alarm, etc.). Also, the program can be started by the Operator on the Graphics level (3D button component). Thanks to this function you can facilitate day-today activities, for example, start a Notepad to make some side notes. All configured programs are easily accessible without searching through your computer.

7. Events from devices

Events from devices are saved in Event log of integrated systems.