



IFTER **EQU**

**MANUAL**

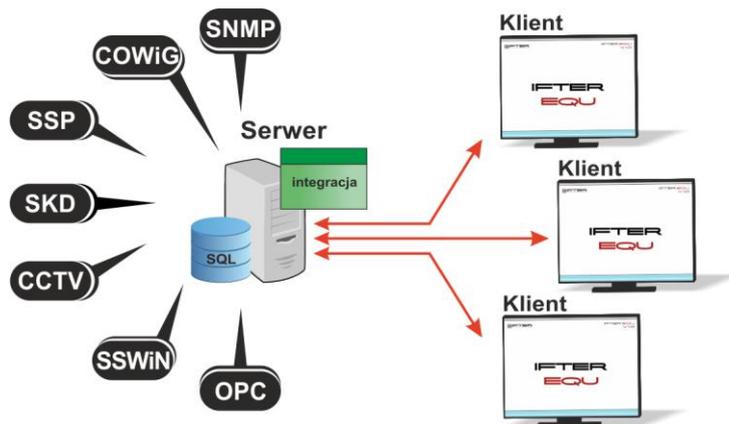
Siemens SPC

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# 1 IFTER EQU – integration and visualization software

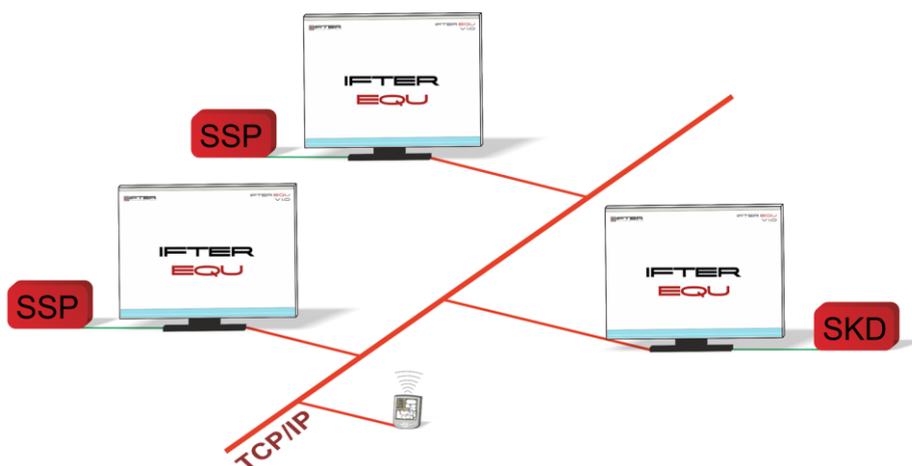
IFTER EQU visualization allows to present, in a graphic and textual form, the elements of the followings systems: FAS, I&HAS, AC, CCTV, building automation and measuring devices. Visualization elements are located on architectural plans, geodetic plans or technological lines.

Client-server architecture allows to suit visualization specifically to the size of an object and makes it easy to manage scattered facilities. By using TCP/IP connection you can create various independent workstations, located in different parts of object or even in different objects. With the use of database, you are able to establish monitoring network and big monitoring centers, manageable from anywhere.



Rys. 1. Architektura systemu

Software was designed to be easily expanded with more objects and devices. Thanks to visualization, the system is easy to handle and easy to configure. User can choose to include default graphics or create his own.



You can control up to 4 monitors and adjust each visualization exactly to your needs (for each particular user). You can issue authorization individually for each user. In order to make his work easier and more “automatic”, you can create schedules.

**Schedules** allow you to plan, control and manage the alarms and events, as well as control the state of integrated devices. You can also use it to manage access control.

You can create schedules for years ahead. One schedule can include an infinite number of users and alarm templates. You can also create any number of “special days”. It can be bank holidays or any day chosen by the user who can define the name, time frame and colour of the special days.

Alarms and device events are logged. User can select which events will be saved on each log and which user will have access to those logs. Logged events can be coloured. When you confirm the alarm, the following information are registered by the system: time when event occurred, time of confirmation, who confirmed it and the comment attached to this alarm (if required). You can define a list of extra procedures which the operator has to complete before confirming the alarm.

In order to make monitoring easier, IFTER EQU offers the following solutions:

- graphic and textual warnings regarding alarm states;
- acoustic signal of the alarm state;
- presentation of the state of elements;
- defined alarm procedures;
- silent alarm sent to monitoring center, bypassing a workstation;
- dynamic display of a location where the alarm occurred
- device integration, making connections between them;
- preview: from general to detail;
- work automation acquired with schedules;
- customized visualization.

These are some of the most essential advantages of the product:

- language settings: you can select your local language;
- SQL database from Oracle: it allows you to use client-server technology to present the state of integrated systems, to steer and configure on multiple computers simultaneously;
- you can configure the communication server for computers and other devices. Server can be put in service mode: it means you don't need monitor, keyboard or a mouse to run it;
- we are an independent company, which means IFTER EQU supports various devices produced by multiple companies – therefore we can adjust our product specifically to the client's needs and expectations;
- integration allows to link various devices and create connection between them;
- you can easily adjust layout to your needs and support visualization with 4 monitors or touch panels;
- you can present the state of any device on any preview. This way you can recreate the real location of devices, as well as their function. You can present the state of security systems and building automation devices on one preview;

- Also, you are able to easily manage access control to the steering – you can edit user's authorization and add a password;
- Variety of alarm types makes an appropriate reaction easier and quicker. In case of intrusion, tamper, bypass or disarming, the user can follow pre-established protocol and add comments from templates;
- Automation is easily-handled due to variety of solutions, such as scripts, schedules, graphs, thresholds and patterns.

## 2 Visualization

Communication is conducted via TCP/IP.

**System logs** are updated with events downloaded from the control unit. There are a couple ways the operator can proceed:

- confirm the alarm, the time of operation will be saved in the system
- conduct a pre-planned procedure for the particular alarm or event (optional)
- leave a comment: might be entered by the operator or selected from the list of default comments

**Visualization** allows you to display states and statuses in a graphic, accessible form.

- partition: no communication, disarming, arming part A, arming part B, arming, alarm, failure
- lines: no communication, disarming, open, arming, alarm, failure, omission, bypass
- outputs: no communication, activated, deactivated

When the state of element changes, it's automatically reflected in the icon representing it. You can de

sign you own graphics or used these available in the system. You can define a different color for each state separately.

**Visualization** also allows for a direct management and steering.

- partition: arm, disarm, delete the alarm
- line: bypass, omission, finish bypass, finish omission

- output: deactivate, activate

**These elements can be controlled:**

- manually: by the mechanism of access levels you can authorize an operator to implement certain changes in the system
- via special scripts, activated upon the alarm
- automatically, in accordance with the schedule

Each user you create in the database, will be assigned with a specific authorization and access level. Every action of the user will be logged in the system. This way, you can control each operator.

You can use special scripts to monitor the state of integrated elements. This way, you are able to define what kind of action shall be undertaken when the certain alarm occurs.

There are 8 types of alarms in this integration:

**Partition:**

- alarm
- arm

**Line:**

- alarm
- failure

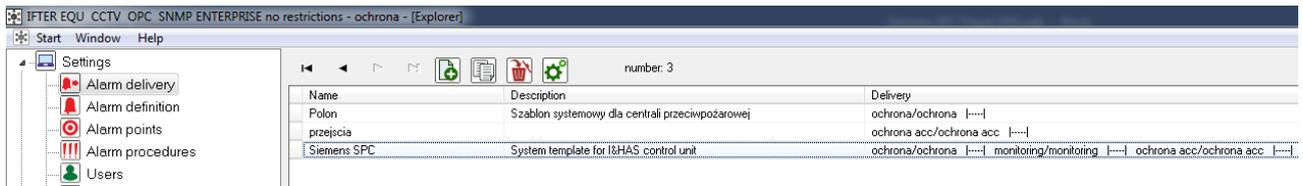
**Output:**

- alarm

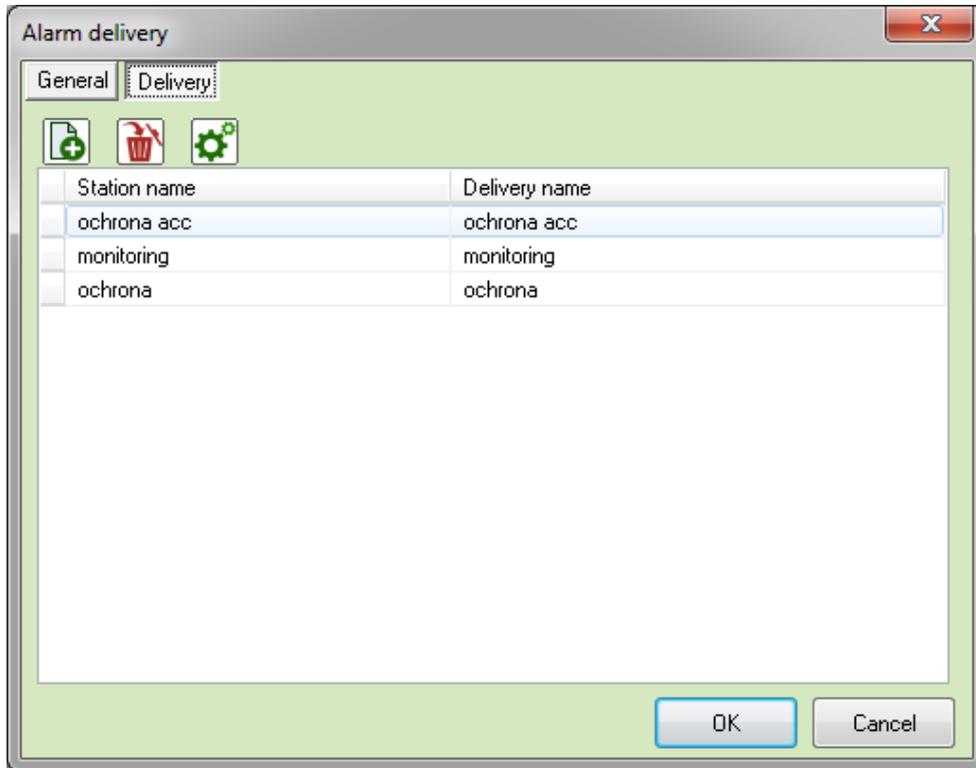
There is also possible to design an alarm without logging it in the system. Operator can set the alarm which only purpose will be to initiate certain steering process.

When logs are disabled, there are no procedures or comments to fill.

Go to Alarm delivery on the explorer tree.



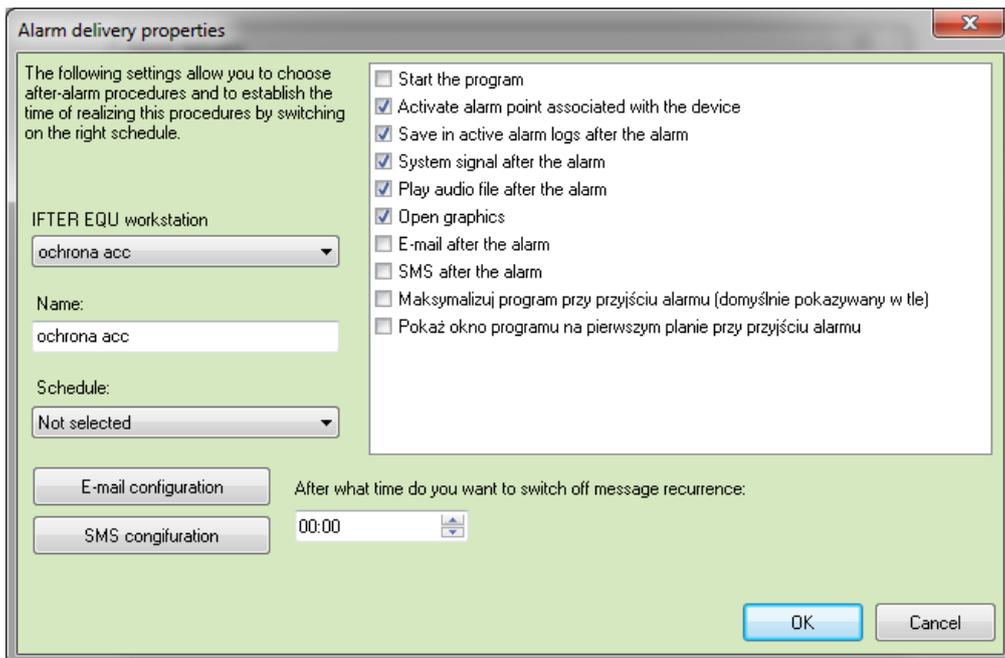
Select a proper alarm and go to settings. Choose Delivery tab.



After selecting an alarm, go to settings



You will see the list of options for alarm delivery. Remember to unselect the third option - Save in active alarm logs after the alarm – if you don't want to log alarms.

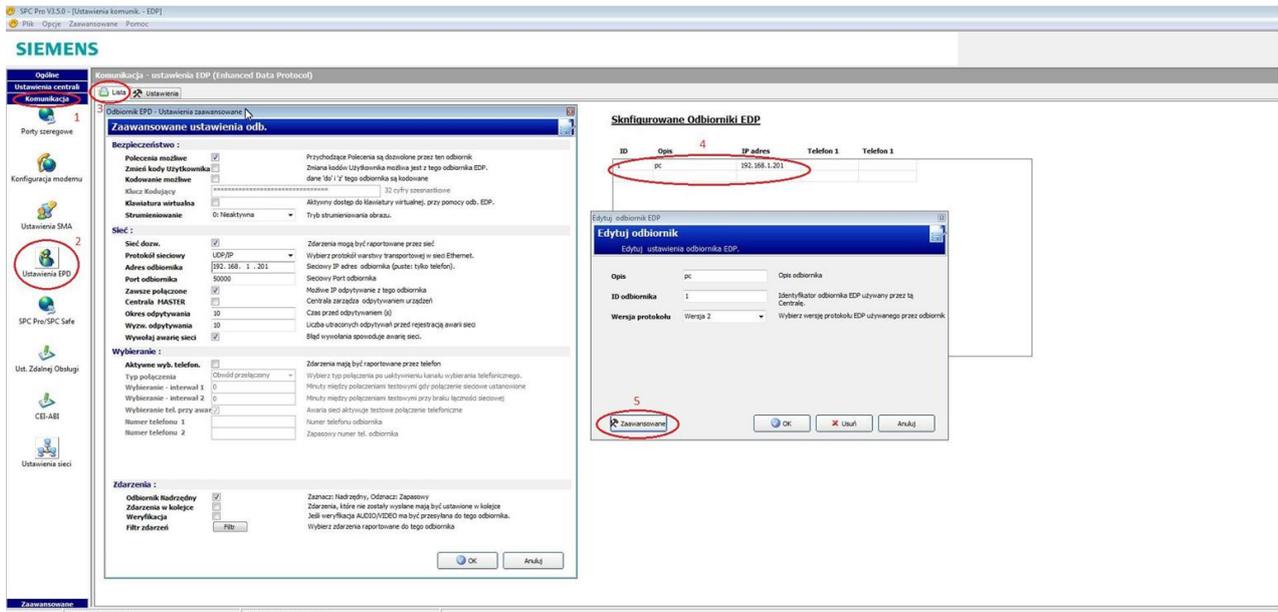


You can assign an alarm point to each alarm. Alarm points are connected with steering outputs. This way, you can steer an output as a reaction to alarm from any other element or to any kind of event from other integrated systems.

### 3 Configuration

#### 3.1 Start

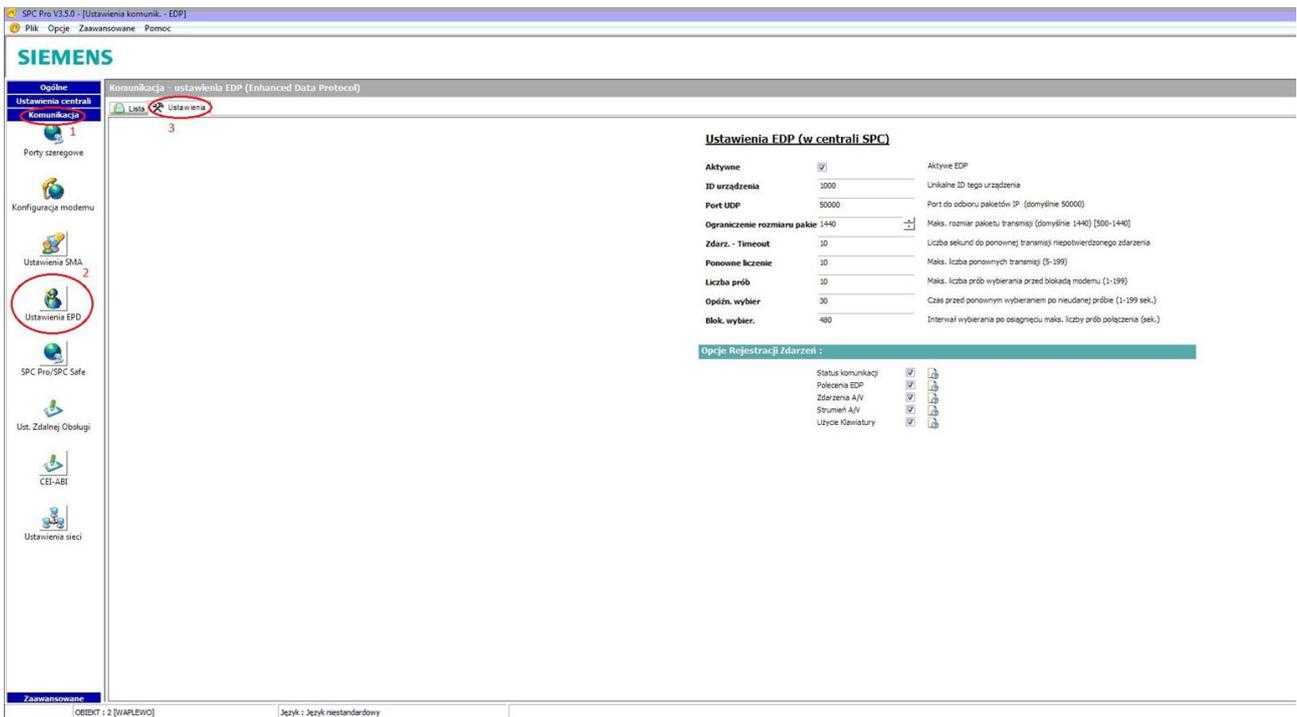
In order to configure Siemens SPC, you need the application – SPC Pro.



**Receiver ID**- ID for IFTER EQU workstation

**Receiver address** – address from IFTER EQU computer

**receiver port** - UDP port connected with IFTER EQU



**Device ID** – SPC unit ID

**UDP port** - port connected with SPC unit

## 4 Create Siemens SPC integration

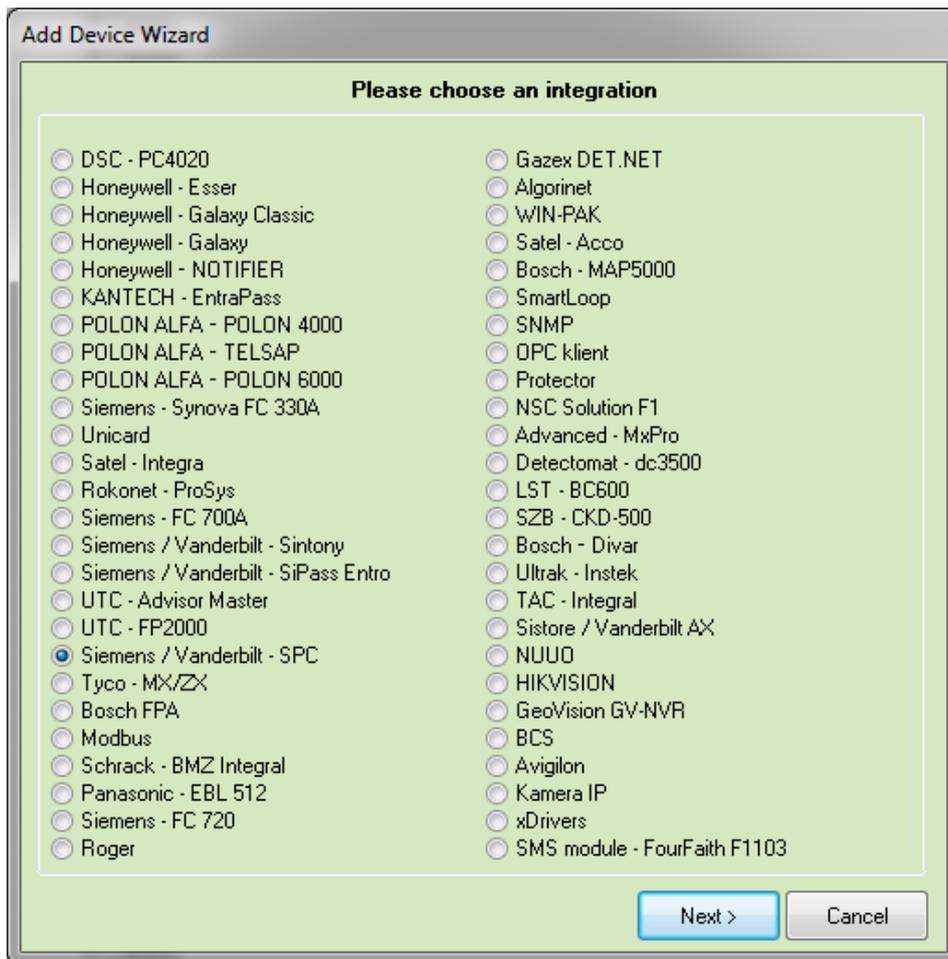
Find **Integration** in the explorer. On the right, you can find a group of buttons to navigate

W celu utworzenia integracji Siemens SPC należy odnaleźć gałąź **Integracja** w ustawieniach Eksploratora.

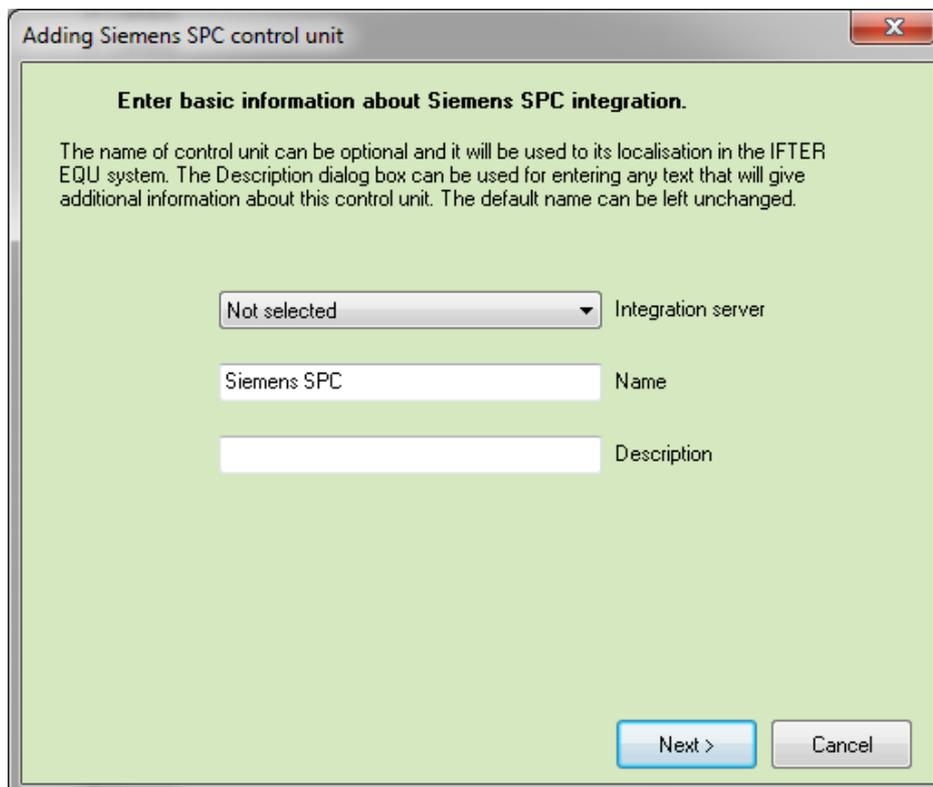
Po lewej stronie znajduje się lista elementów. Nad listą znajduje się pasek przycisków służących do zarządzania aktualnie otwartą listą:

	Add	Click on it to open the Wizard where you can create new element.
	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.

Click **Add** to see the list of possible integrations. Select **Siemens/Vandrbilt SPC** and then **Next**.



Follow instructions in the next window



**Integration server** – wybrać stację roboczą, która fizycznie będzie obsługiwała tę integrację.

**Name** – unique name for identification in the system

**Description** – additional information

Go next to define details:

**Adding Siemens SPC control unit**

**Communication settings.**

The below setting are destined to configure the transmission. Choose the port which control unit is connected to.

IP address  
0 0 0 0

Station port: 50000      Device port: 50000

Station ID: 1      Device ID: 1000

Polling: 1500

Mute the alarm  
 Delete alarm

< Back      Finish      Cancel

**IP address** – for SPC unit

The following settings are available in EDP settings of SPC Pro.

**Station port** – UDP port connected with IFTER EQU (EDP setup)

**Device port** – receiver port

**Station ID** – receiver ID

**Device ID** – ID of SPC unit

**Mute the alarm** – silent alarm

**Delete alarm** – remove alarm

## 4.1 General

The following settings will allow you to change basic parameters of integration with Siemens - SPC.

Server: ochrona

Name: Siemens SPC  Switch on communication

Description: Siemens SPC

Access range: Default range  For the whole integration

Import configuration

OK Cancel

**Server** – select a computer for communication with control unit

**Name** – name for the unit

**Description** – additional information

**Access range** – events uploaded from the control unit will be under the defined access range

**For the whole integration** – all devices connected with the unit will use this particular access range

**Switch on communication** – communication on or off

**Import configuration** – from TempFile.xml on Siemens SPC unit

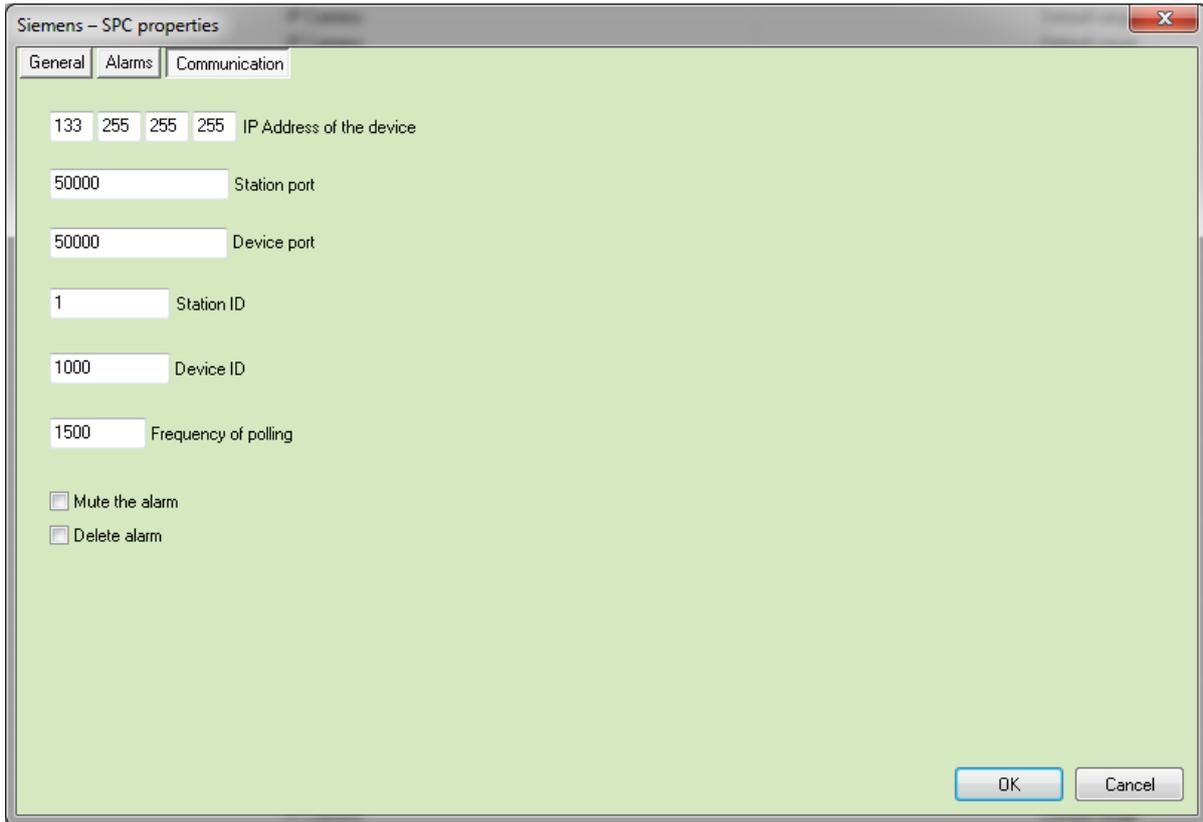
## 4.2 Alarms

	Definition of alarm	Function	Alarm point
<input type="checkbox"/> 1	Not selected	Alarm	Not selected
<input type="checkbox"/> 2	Not selected	Alarm	Not selected
<input type="checkbox"/> 3	Not selected	Alarm	Not selected
<input type="checkbox"/> 4	Not selected	Alarm	Not selected
<input type="checkbox"/> 5	Not selected	Alarm	Not selected
<input type="checkbox"/> 6	Not selected	Alarm	Not selected
<input type="checkbox"/> 7	Not selected	Alarm	Not selected
<input type="checkbox"/> 8	Not selected	Alarm	Not selected

OK Cancel

Define up to 8 alarms and assign specific alarm points.

## 4.3 Communication



The screenshot shows a dialog box titled "Siemens - SPC properties" with three tabs: "General", "Alarms", and "Communication". The "Communication" tab is active. It contains several input fields and checkboxes:

- IP Address of the device: 133 255 255 255
- Station port: 50000
- Device port: 50000
- Station ID: 1
- Device ID: 1000
- Frequency of polling: 1500
- Mute the alarm
- Delete alarm

At the bottom right, there are "OK" and "Cancel" buttons.

Here you can define the connection between control unit and your computer (workstation).

**IP address** – for SPC unit

The following settings are available in EDP settings of SPC Pro.

**Station port** – UDP port connected with IFTER EQU (EDP setup)

**Device port** – receiver port

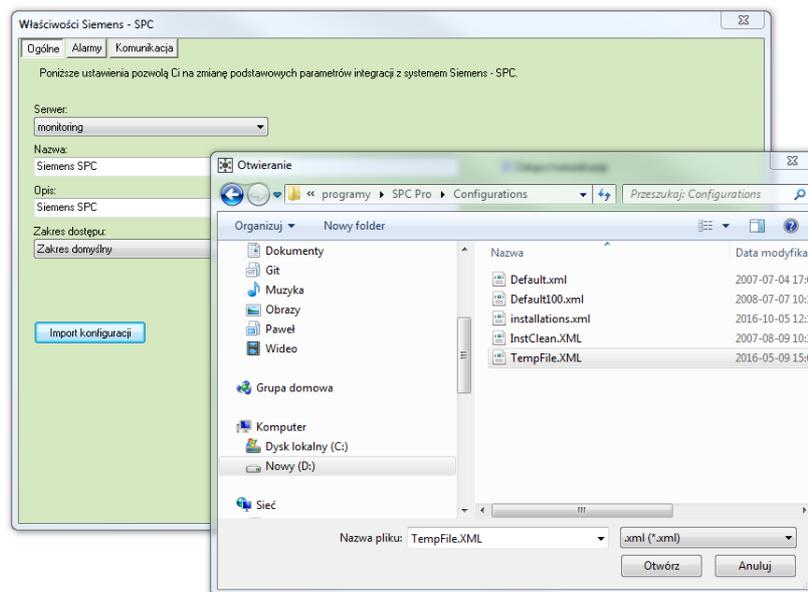
**Station ID** – receiver ID

**Device ID** – ID of SPC unit

**Mute the alarm** – silent alarm

**Delete alarm** – remove alarm

## 5 Import

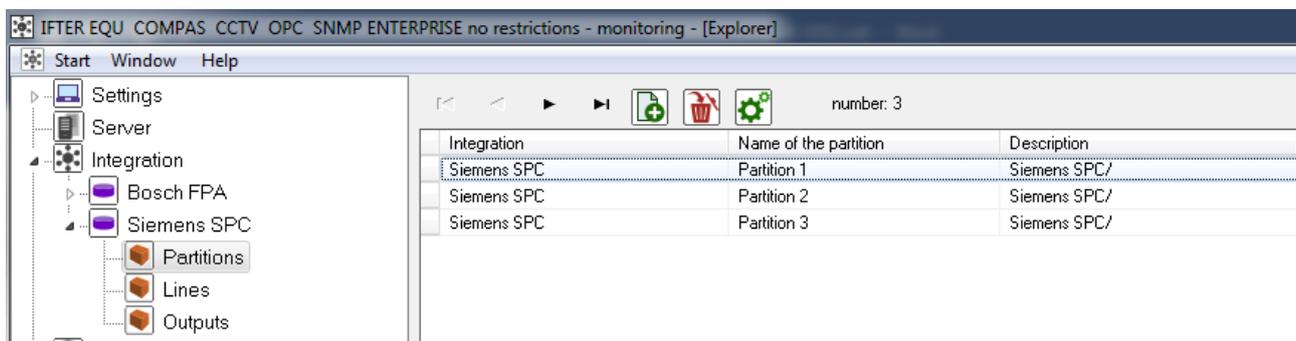


In order to import configuration, you need to go to **General** tab and select „Import configuration”. You will see a new window, where you need to select a specific file: **TempFile.xml** – you can find it in the folder: SPC Pro\Configurations. Open your configuration and click OK to confirm. TempFile.xml is created when you upload configuration from the control unit to SPC Pro application.

## 6 Elements

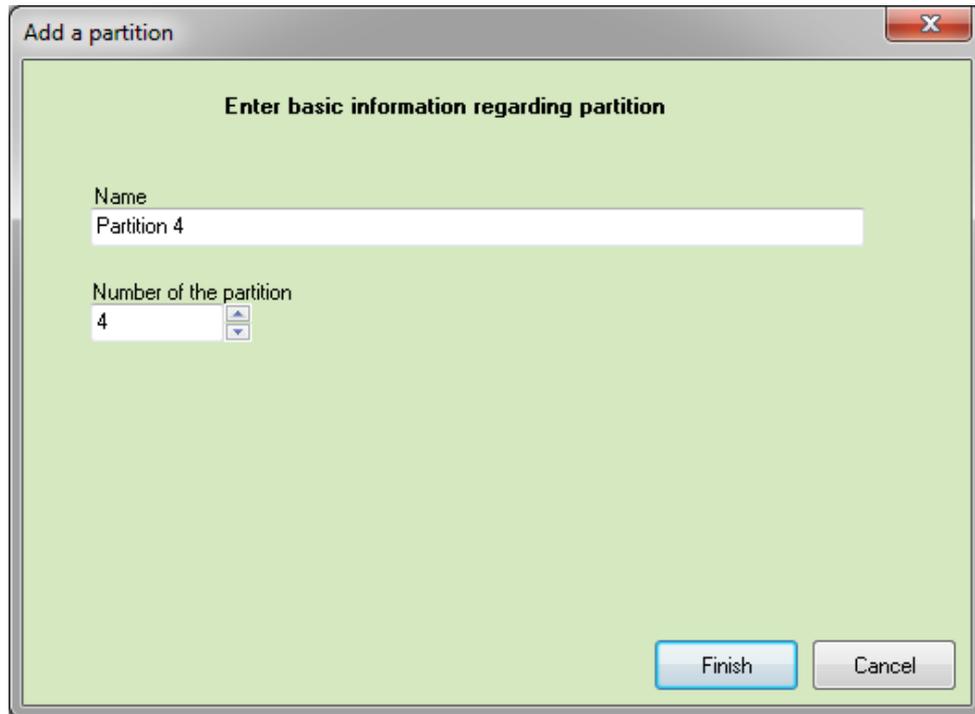
### 6.1 Partition

Here you can see the list of configured partitions.



### 6.1.1 Add

Click Add button to open the following window:



The image shows a dialog box titled "Add a partition" with a close button (X) in the top right corner. The main area has a light green background and is titled "Enter basic information regarding partition". It contains two input fields: "Name" with the text "Partition 4" and "Number of the partition" with the value "4" and up/down arrow controls. At the bottom right, there are two buttons: "Finish" (highlighted in blue) and "Cancel".

Type a name and a number to create new element.

### 6.1.2 Settings

Select a partition from the list and click on Settings button above to define multiple parameters.

### 6.1.2.1 General

The screenshot shows a 'Partition properties' dialog box with a light green background. At the top, there are four tabs: 'General', 'Alarms', 'Schedules', and 'Association', with 'General' selected. The 'Name' field contains 'Partition 1'. The 'Device description' field contains 'Siemens SPC/'. Below this is an 'Access scopes' dropdown menu set to 'Default range'. On the right side, there is a 'Connect with camera' section containing an 'Integration' dropdown menu set to 'Not selected' and a 'Camera' text input field containing '0'. At the bottom right, there are 'OK' and 'Cancel' buttons.

**Name** – unique name for easy identification

**Device description** – additional information

**Access scope** - events uploaded from the partition unit will be under the defined access range

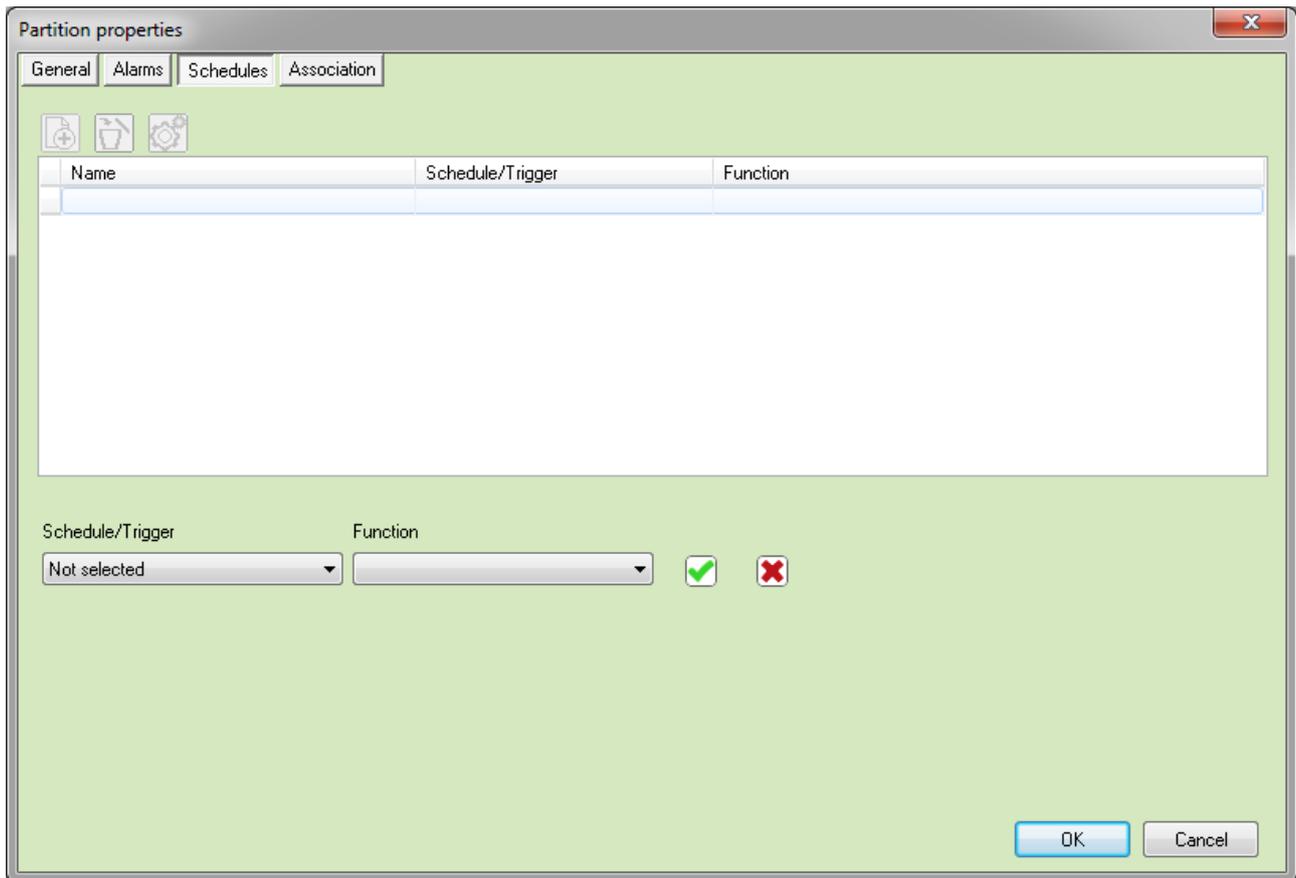
**Connect with camera** – display footage from the selected camera upon the alarm

### 6.1.2.2 Alarmy

	Definition of alarm	Function	Alarm point
<input checked="" type="checkbox"/> 1	Not selected	Alarm	Not selected
<input type="checkbox"/> 2	Not selected	Alarm	Not selected
<input type="checkbox"/> 3	Not selected	Alarm	Not selected
<input type="checkbox"/> 4	Not selected	Alarm	Not selected
<input type="checkbox"/> 5	Not selected	Alarm	Not selected
<input type="checkbox"/> 6	Not selected	Alarm	Not selected
<input type="checkbox"/> 7	Not selected	Alarm	Not selected
<input type="checkbox"/> 8	Not selected	Alarm	Not selected

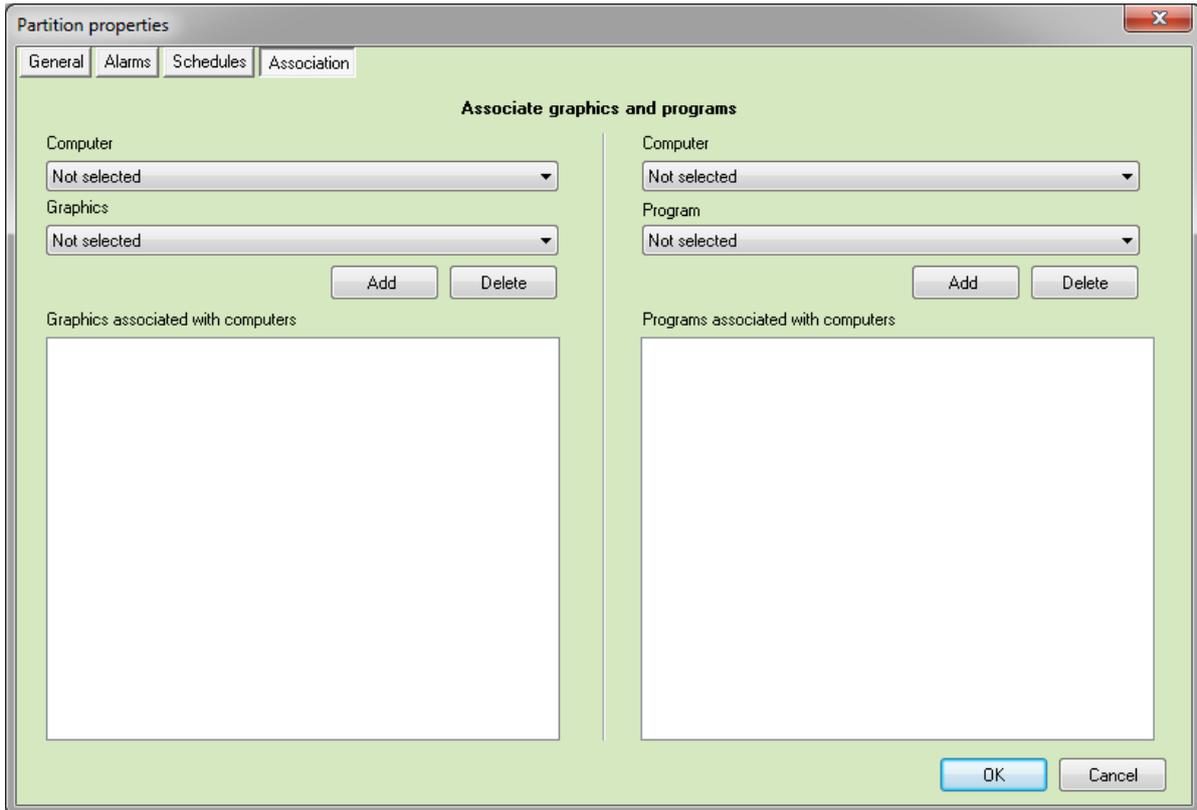
Define up to 8 alarms and assign specific alarm points. Functions available for this element: Alarm, Arm.

### 6.1.2.3 Schedules



Here you are able to connect partitions and defined schedules of triggers.

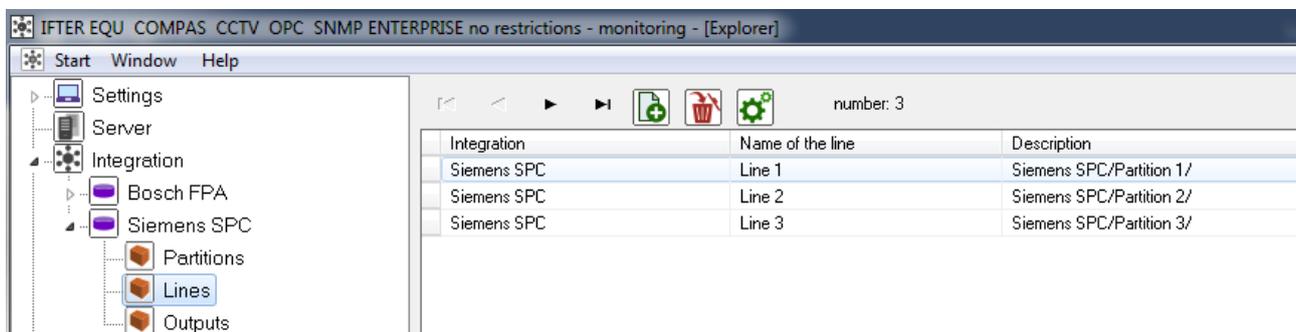
## 6.1.2.4 Association



Assign graphics and applications which shall initiate upon the alarm. Select an element from the list and click Add to confirm. Click Delete to remove the link from the list.

## 6.2 Lines

See configured lines for Siemens SPC unit.



### 6.2.1 Add

Click Add button to open the following window:

**Add a line**

**Enter basic information about the line**

Name  
Line 4

Line number  
4

Partition

Finish Cancel

**Name** – unique name for identification

**Number** – number for identification

**Partition** – location of the line

Click Finish to confirm.

### 6.2.2 Settings

Select a line and click Settings button to define various parameters.

### 6.2.2.1 General

The screenshot shows a 'Line properties' dialog box with the following fields and options:

- Name:** Line 1
- Device description:** Siemens SPC/Partition 1/
- Access scopes:** Default range
- Partition:** (empty dropdown)
- Register line:**
- Connect with camera:**
  - Integration: Not selected
  - Camera: 0

Buttons: OK, Cancel

**Name** – unique name for identification

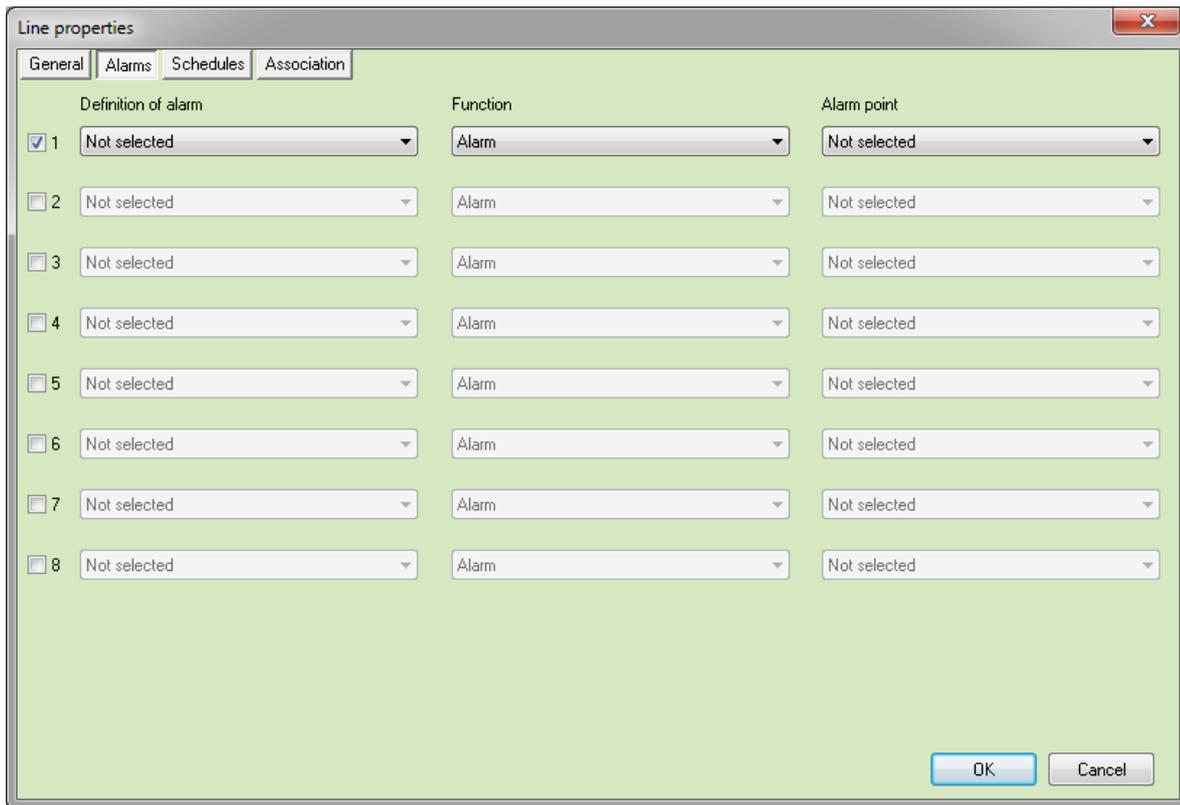
**Description** – additional information

**Access scopes** - events uploaded from the line unit will be under the defined access range

**Connect with camera** - display footage from the selected camera upon the alarm

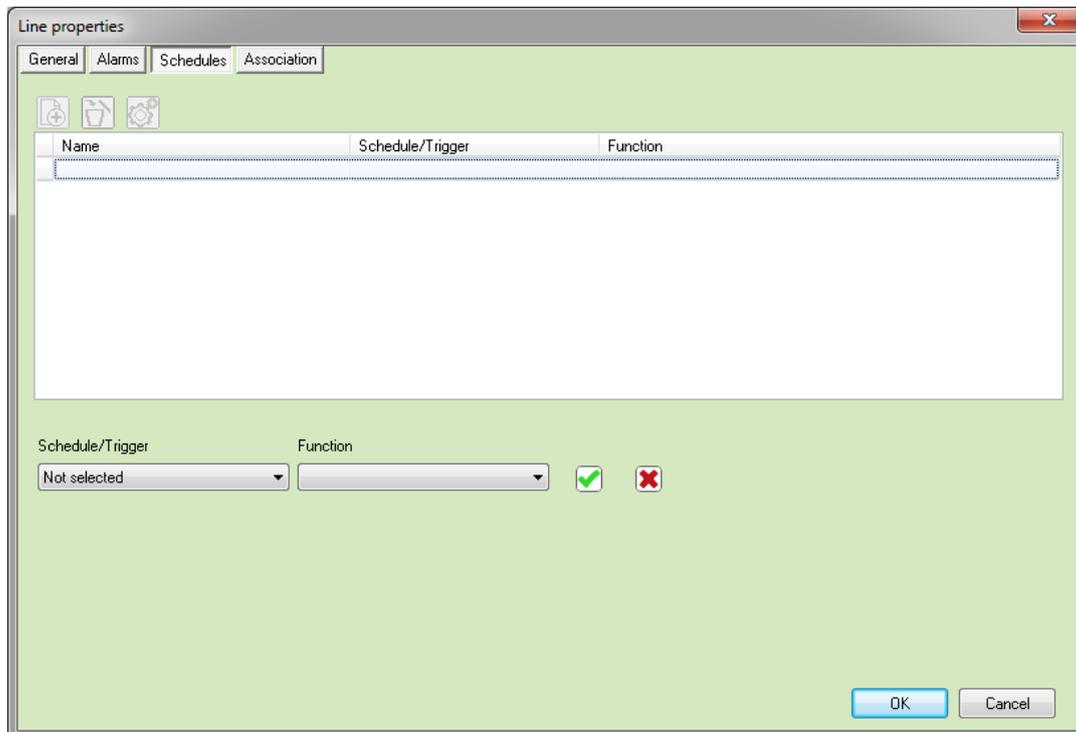
**Partition** – location of the line

### 6.2.2.2 Alarms



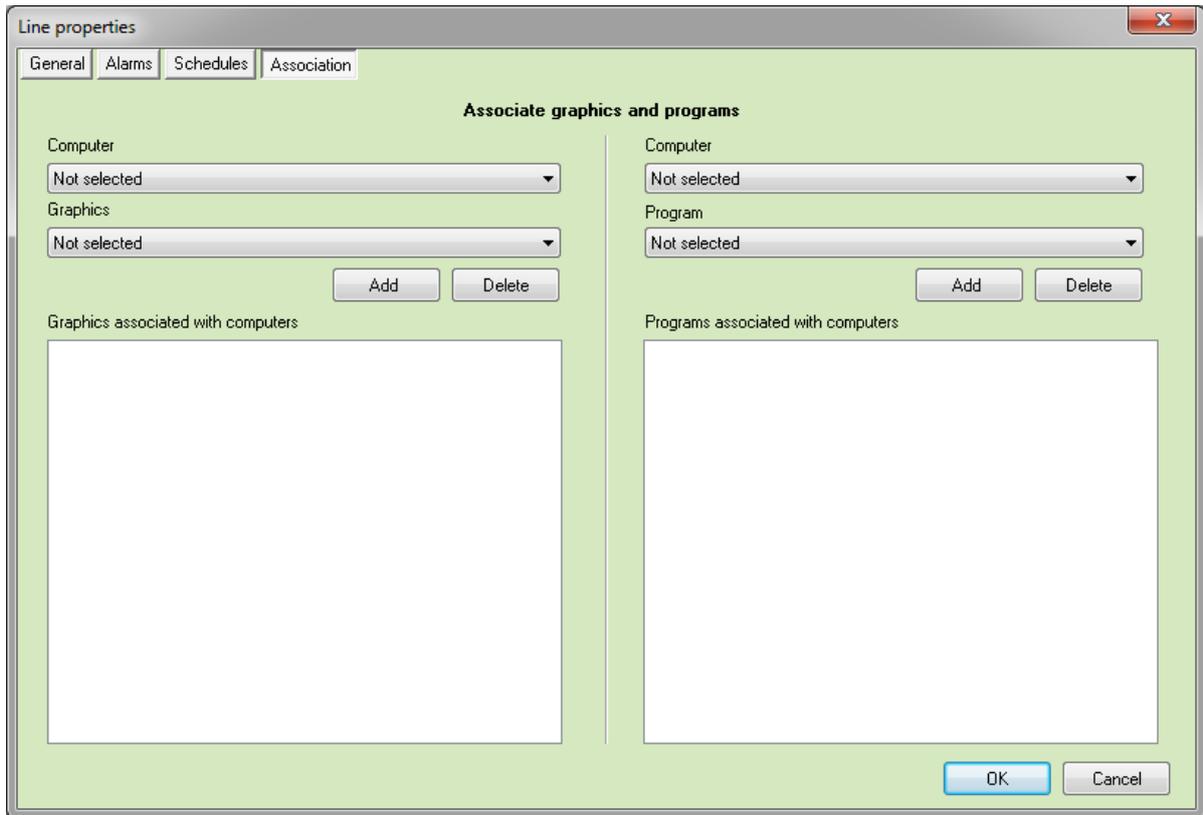
Define up to 8 alarms and assign specific alarm points. Functions available for this element: Alarm, Fault

### 6.2.2.3 Schedules



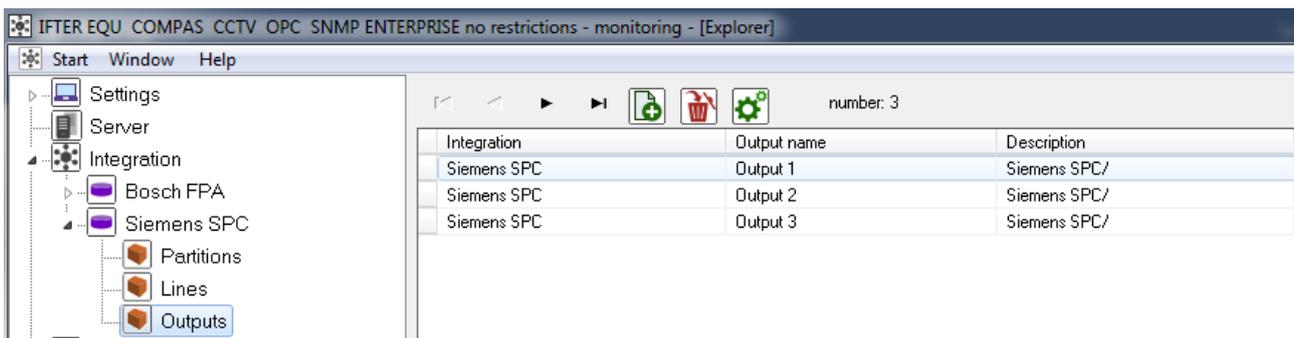
Here you are able to connect partitions and defined schedules of triggers.

### 6.2.2.4 Association



Assign graphics and applications which shall initiate upon the alarm. Select an element from the list and click Add to confirm. Click Delete to remove the link from the list.

## 6.3 Outputs



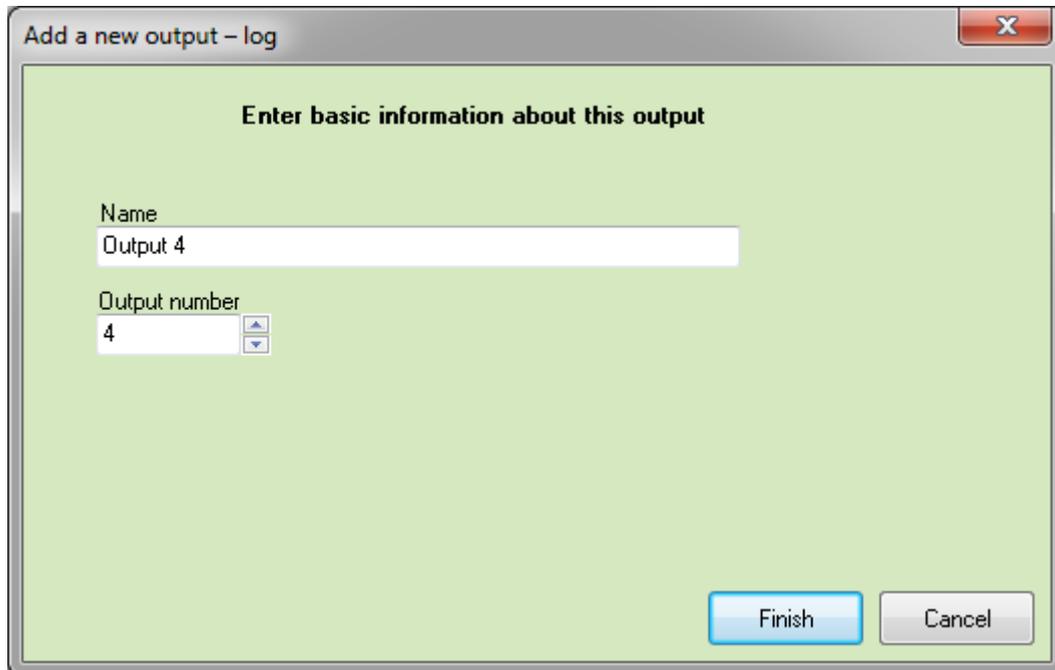
See configured outputs for Siemens SPC unit.

### 6.3.1 Add

Click Add button to display the following window:

**Name** – unique name for easy identification

**Number** – unique number for easy identification



The screenshot shows a dialog box titled "Add a new output - log". The dialog has a close button (X) in the top right corner. The main area is light green and contains the text "Enter basic information about this output". Below this, there are two input fields: "Name" with the text "Output 4" and "Output number" with the value "4" and a spinner control. At the bottom right, there are two buttons: "Finish" (highlighted in blue) and "Cancel".

### 6.3.2 Settings

Select an output and click Settings button to define various parameters.

### 6.3.2.1 General

The screenshot shows a software window titled "Outputs properties" with a close button (X) in the top right corner. The window has four tabs: "General", "Alarms", "Schedules", and "Association", with "General" selected. The "General" tab contains the following fields:

- Name:** A text input field containing "Output 1".
- Device description:** A text input field containing "Siemens SPC/".
- Access scopes:** A dropdown menu currently showing "Default range".
- Connect with camera:** A sub-section containing:
  - Integration:** A dropdown menu showing "Not selected".
  - Camera:** A text input field containing "0".

At the bottom right of the dialog, there are two buttons: "OK" and "Cancel".

**Name** – unique name for easy identification

**Device description** –additional information

**Access scope** -events uploaded from the partition unit will be under the defined access range

**Connect with camera** –display footage from the selected camera upon the alarm

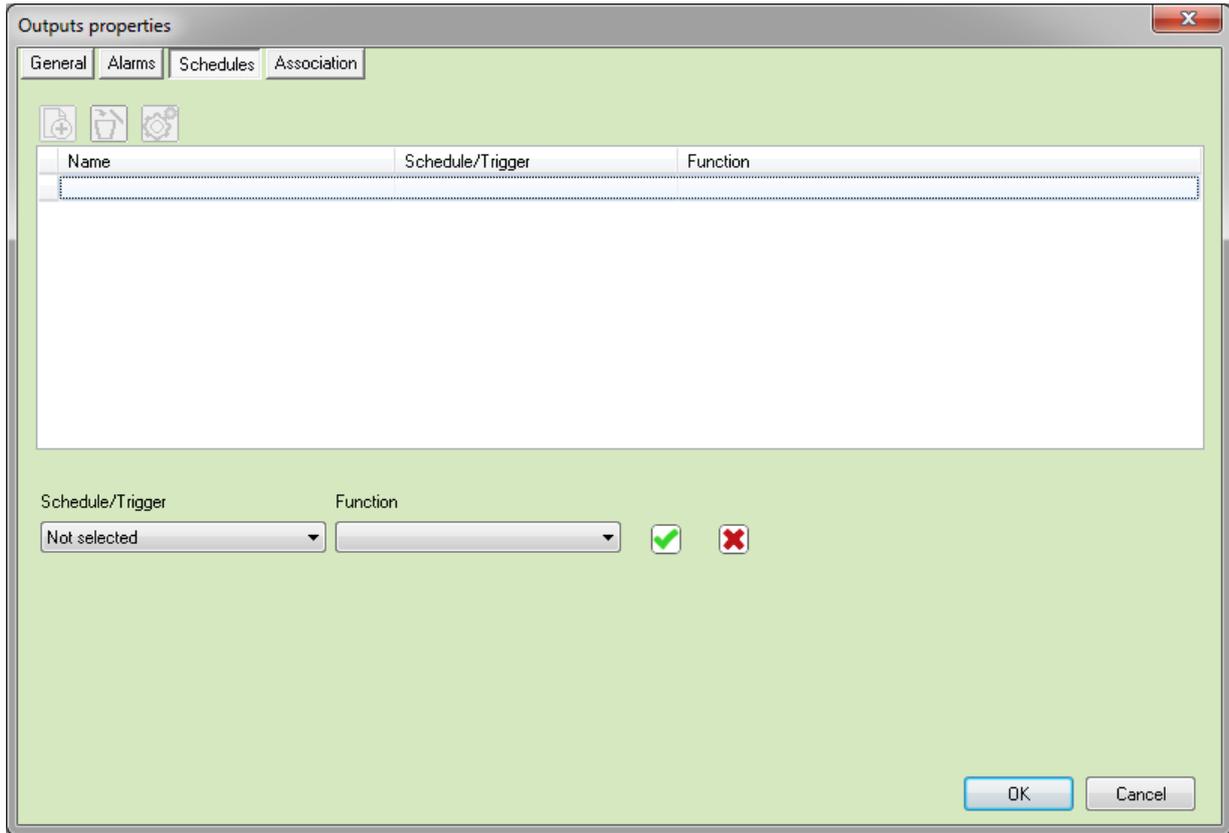
### 6.3.2.2 Alarms

	Definition of alarm	Function	Alarm point
<input checked="" type="checkbox"/> 1	Not selected	Alarm	Not selected
<input type="checkbox"/> 2	Not selected	Alarm	Not selected
<input type="checkbox"/> 3	Not selected	Alarm	Not selected
<input type="checkbox"/> 4	Not selected	Alarm	Not selected
<input type="checkbox"/> 5	Not selected	Alarm	Not selected
<input type="checkbox"/> 6	Not selected	Alarm	Not selected
<input type="checkbox"/> 7	Not selected	Alarm	Not selected
<input type="checkbox"/> 8	Not selected	Alarm	Not selected

OK Cancel

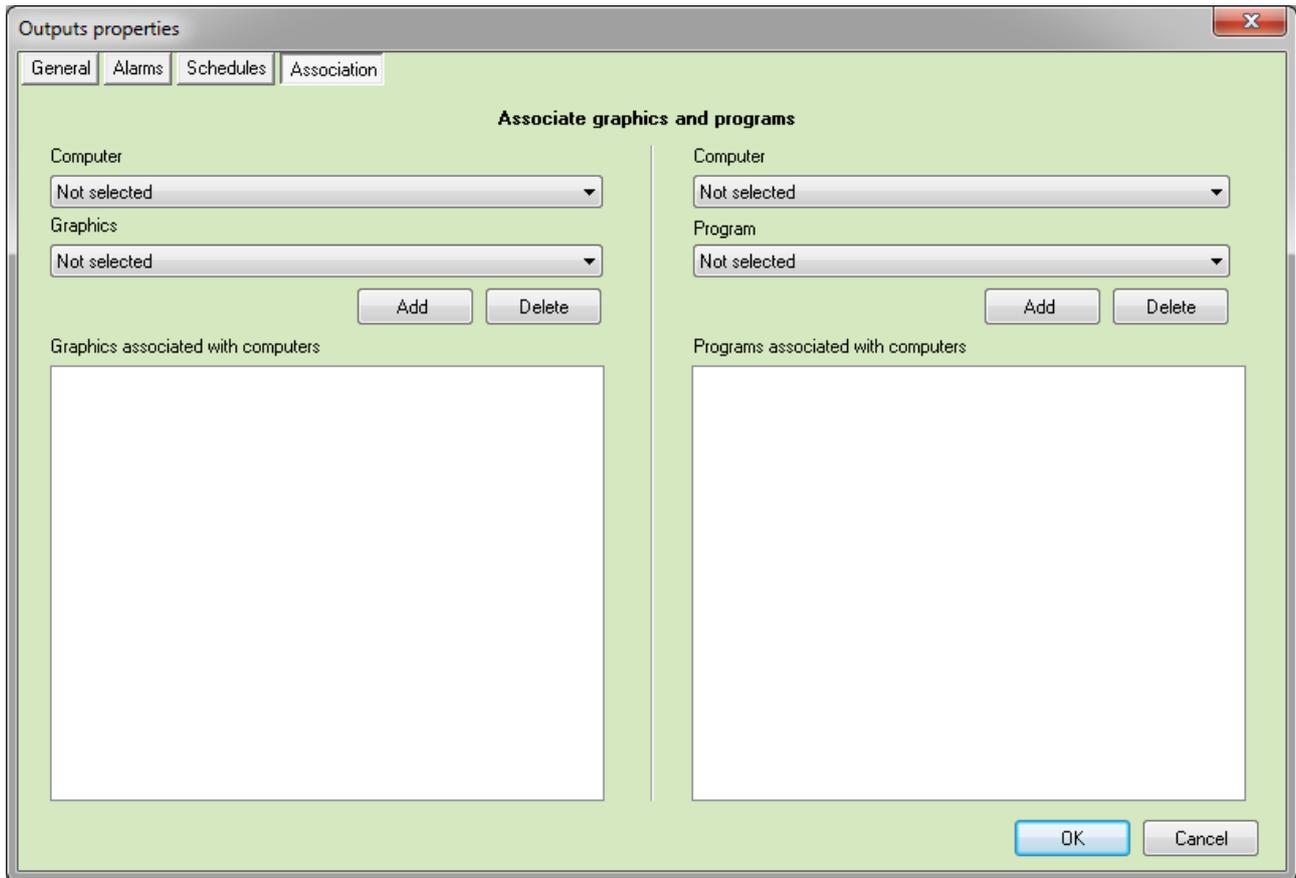
Define up to 8 alarms and assign specific alarm points. Functions available for this element: Alarm.

### 6.3.2.3 Schedules



Here you are able to connect partitions and defined schedules of triggers.

### 6.3.2.4 Association



Assign graphics and applications which shall initiate upon the alarm. Select an element from the list and click Add to confirm. Click Delete to remove the link from the list.