IDIS

One Solution. One Company.

Tech Note: IDIS Solution Suite

User Alarm I/O Configuration

Version 1.2

(May 15th, 2016)

Table of Contents

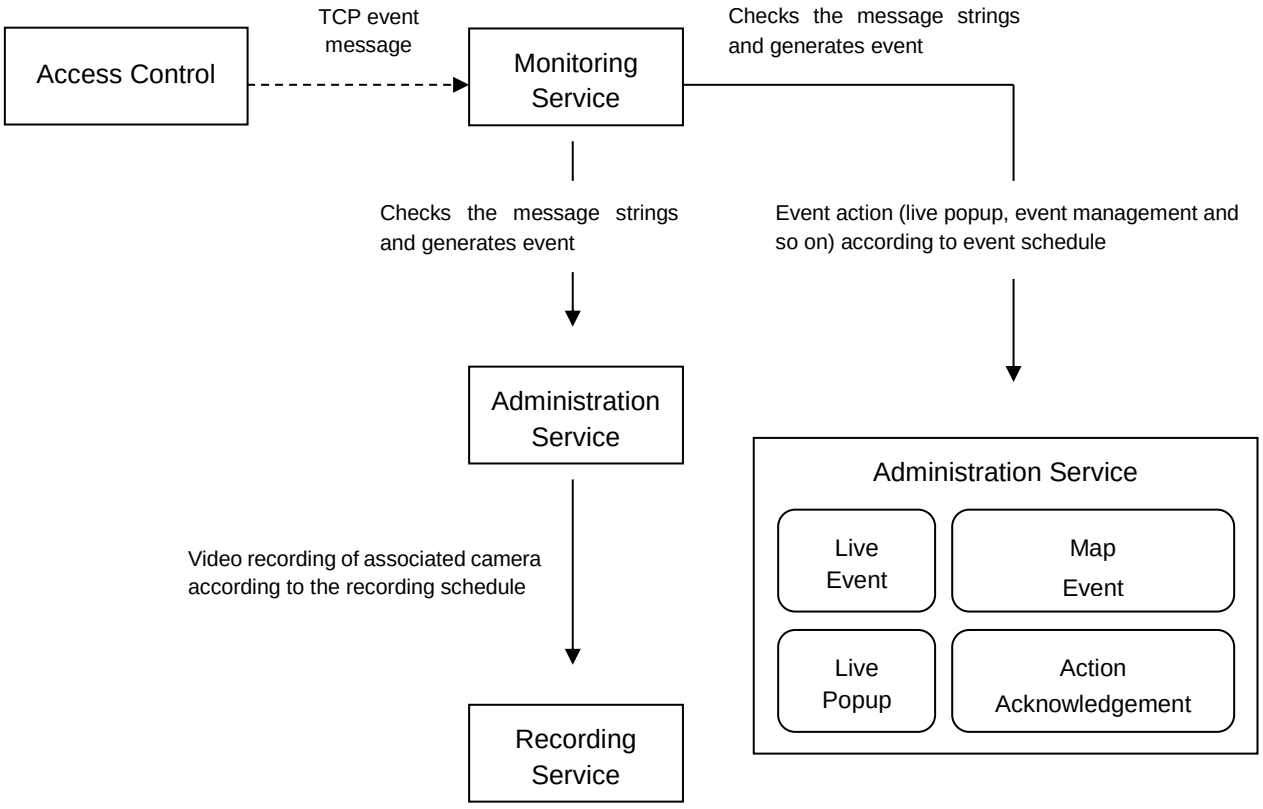
1 Overview

User Alarm-In triggers event when TCP message received from multiple remote sensor matches the pre-defined character string.

IDIS Solution Suite(ISS) monitoring service support up to 16 alarm inputs simultaneously and 32 cameras can be associated with a User Alarm-In.

2 Operation

Receive message through TCP connection and upon disconnection, it checks received message (maximum of 512 characters) whether to trigger event or not. Hence, full message must be received before disconnection.



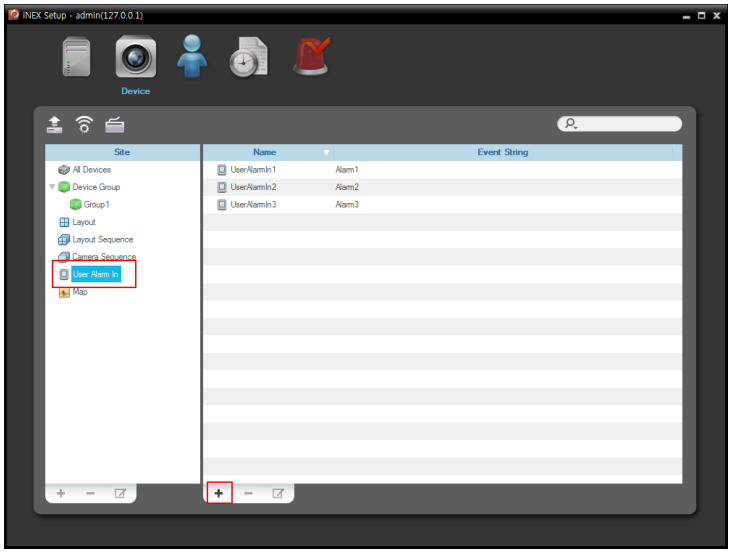
3 User Alarm-In Configuration

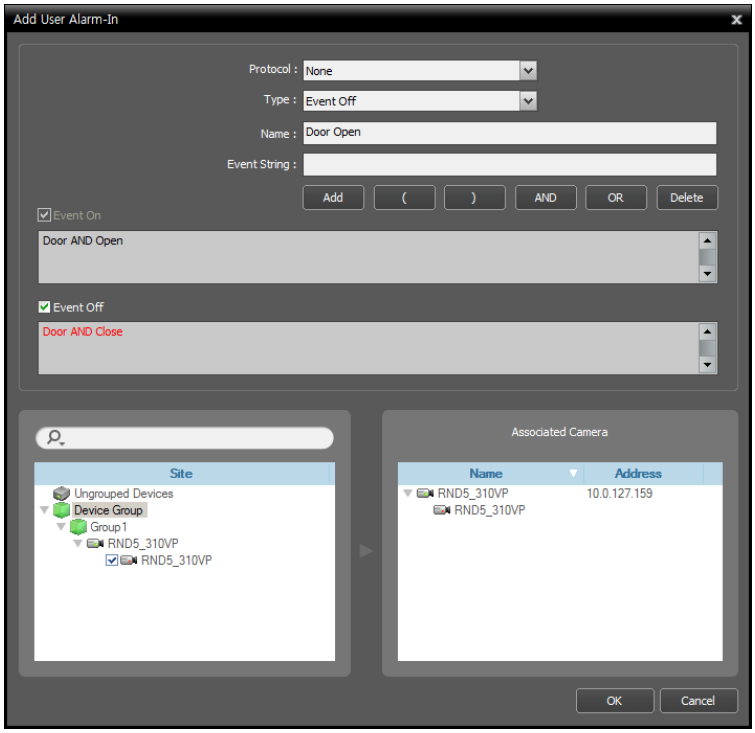
3.1 Event Setting

To add event, insert message string in ‘Event String’ box and click ‘Add’ button. User can use ‘AND / OR’ to define the message more precisely with multiple strings. Also, it is possible to set priority of multiple strings using parentheses.

For example, if event string is set as “Door AND Open AND (Sunday OR Holiday)”,

1. Event generated when “The door is open but today is Sunday” message is received.
2. Event NOT generated if “The door is open but today is Monday” message is received.





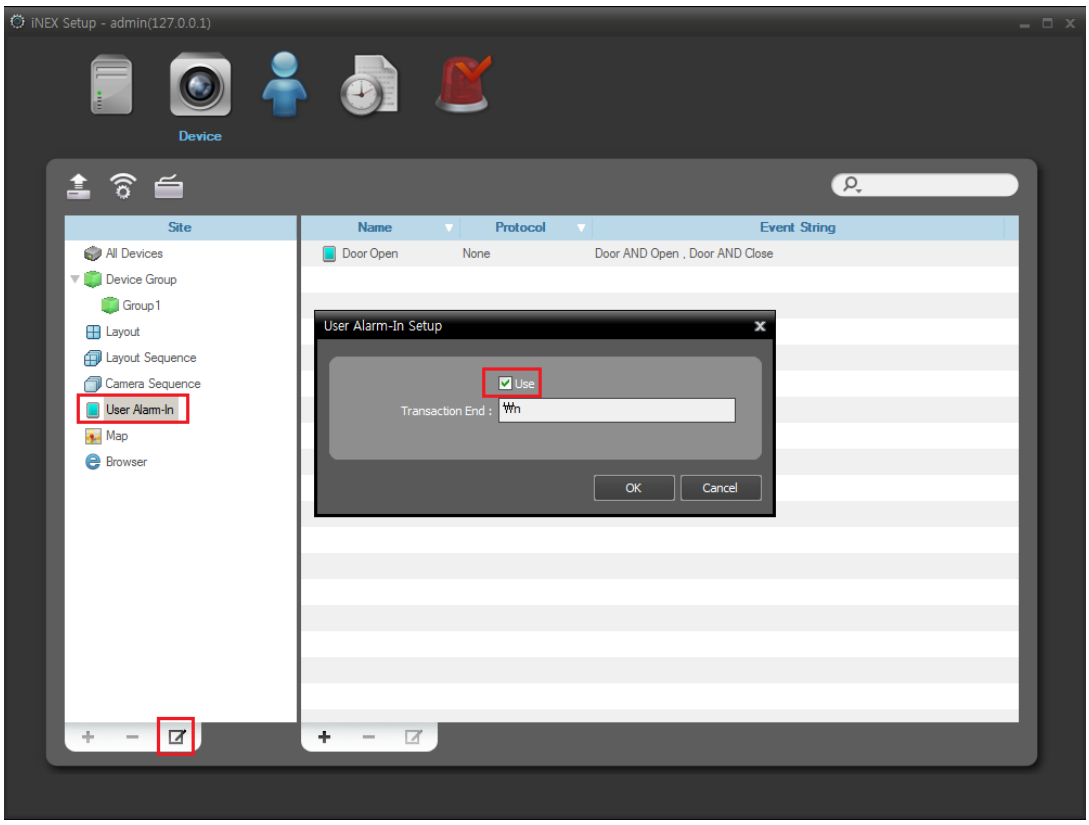
NOTE: ISS searches strings that includes predefined string. i.e.) If “Door1” is added as event string, an event is triggered if “Door1234” message is received.

If event recording is configured, it starts recording upon receiving strings defined on ‘Event On’ and stops recording when a message match the ‘Event Off’ is received.

If ‘Event Off’ is not defined, the recording duration is defined by ‘Duration Time’.

‘Associated Cameras’ is used for configuring the camera displayed on live screen when user drag and drop the real-time event on live screen.

3.2 Transaction End Character Setting



User alarm-in transaction end control character can be configured by double click on device tree or click on edit button. Transaction end is not checked by default. If transaction end is not used, user alarm-in messages are not processed straight after it is received, but is stored in the buffer. The message will be processed either when the buffer (512 characters) is full or when the connection is terminated.

If user wish to process the received string immediately or keep the connection with remote device, transaction end should be used.

For example, ‘\n’ new line command is configured. Therefore, when Event On string is “Door AND Open” and Event Off string is “Door AND Close”,

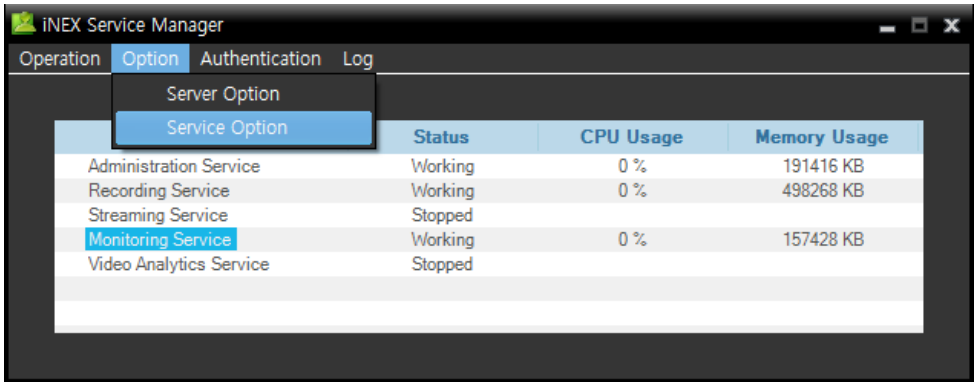
“Door Open\n”: On event is triggered immediately

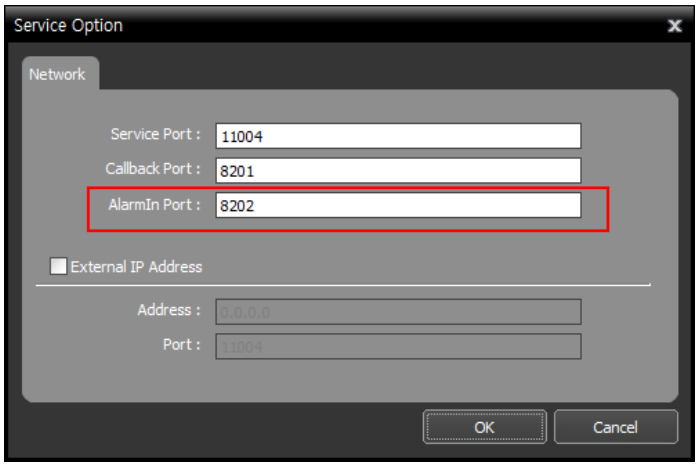
“Door Open\nDoor Close”: On event is triggered immediately

“Door Open\nDoor Close\n”: On event and Off event is triggered immediately.

3.3 Port Setting

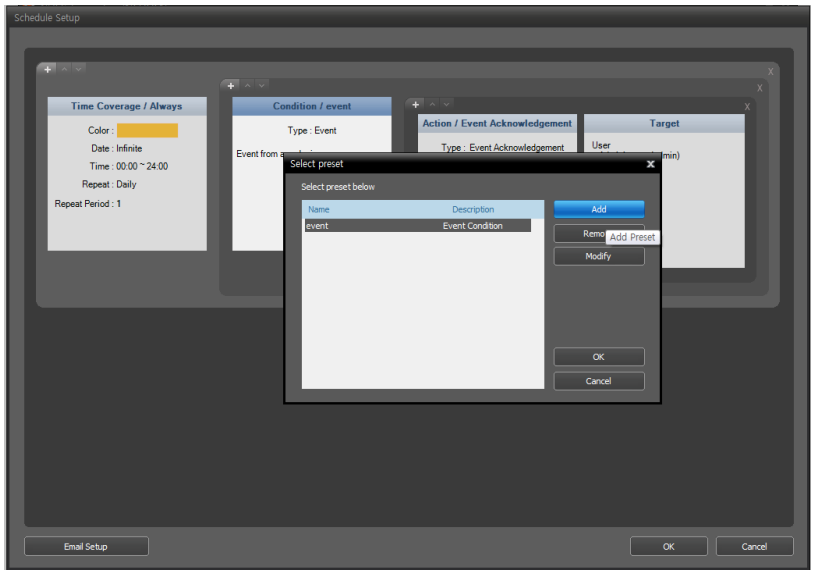
By default the user alarm-in port is set to 8202. Port number can be changed on service option in monitoring service.

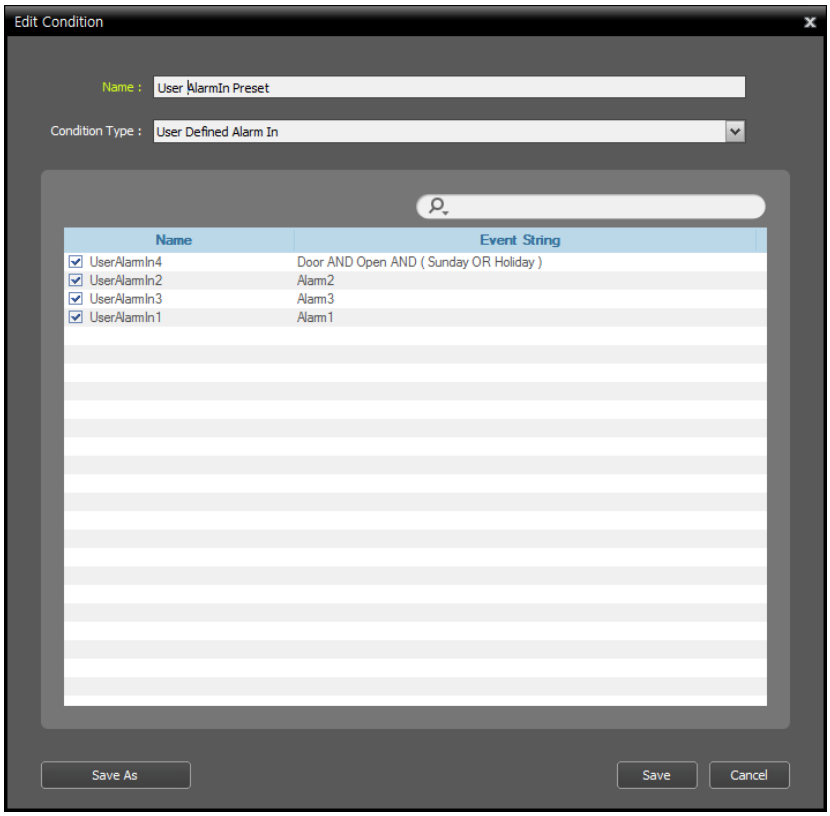




3.4 Monitoring Schedule Setting

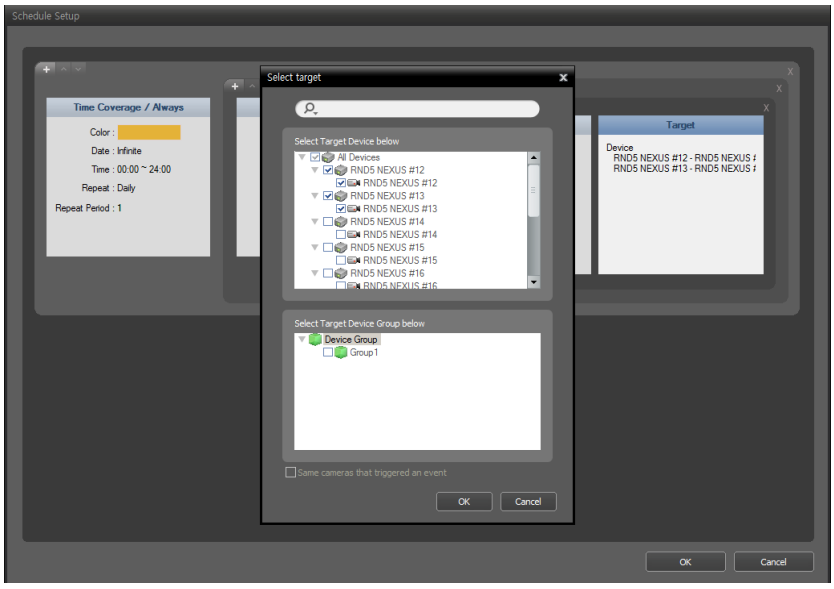
Monitoring schedule can be configured from Condition > Event preset > User Alarm In.





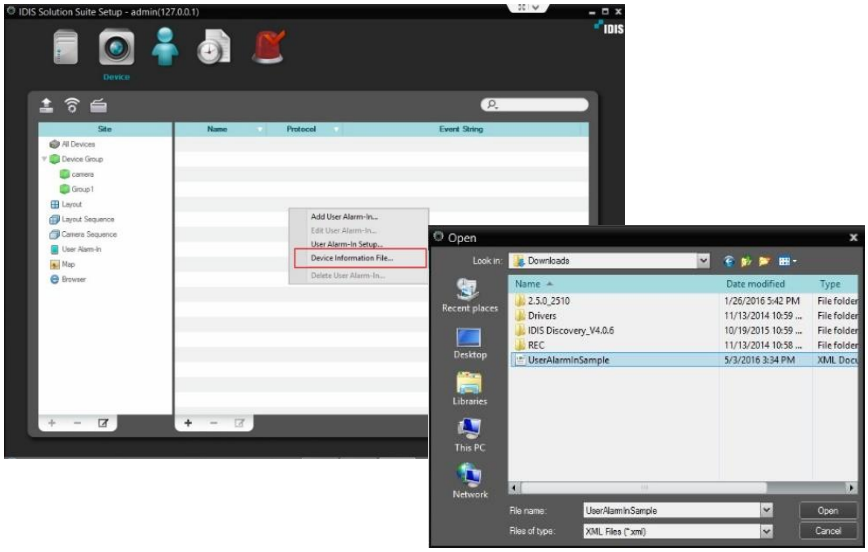
3.5 Recording Schedule Setting

Configure event recording of associated camera.



3.6 Multiple Alarms Input Setting

Add multi alarm-in events in once through XML file: Device > User alarm-in > click right button of mouse > device information file > load XML file.



XML file format is as follows:

```
<?   <?xml version="1.0" encoding="utf-8"?>
<UserAlarmIn_Setup>
    <Header>
        <Version major="1" minor="0"/>
    </Header>
    <Information>
        <!-- AlarmIn none protocol type -->
        <UserAlarmIn name="alarm-in 1" protocol="0">
            <!-- AlarmIn ON -->
            <expression type="on">
                <item context="event"/>
                <item context="&"/>
                <item context="("/>
                <item context="motion"/>
                <item context="|"/>
                <item context="alarm-in"/>
                <item context=")"/>
            </expression>
            <!-- AlarmIn OFF -->
            <expression type="off">
                <item context="event"/>
                <item context="&"/>
```

```
                    <item context="off"/>
                </expression>
                </UserAlarmIn>
                <!-- AlarmIn private protocol type -->
                <UserAlarmIn name="alarm-in 2" protocol="1" channel="1"/>
    </Information>
</UserAlarmIn_Setup>
```

** When add user alarm-in through the XML file, the user needs to input the connected camera's information.

Version History

Version	Writer	Revision Date	Remarks
1.1	Roy, John Chung	October 2, 2015	Created. Updated snap shots.
1.2	Suji Park	May 15th 2016	Add User by XML File