Connecting the ioLogik 2000 to a SolarWinds NPM

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The purpose of this note is to provide a detailed example of how to connect a Moxa Smart Remote I/O device, the ioLogik 2000 series, with the SolarWinds Network Performance Monitor (NPM) software via the SNMP protocol. In this example, the SolarWinds NPM receives traps and the ioLogik 2000 is an SNMP agent. The system architecture is illustrated in the following diagram.
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There are two sections in this document. The first section introduces how to connect the ioLogik 2000 to the SolarWinds NPM via the SNMP protocol, and second section introduces how to set up the SolarWinds NPM to receive SNMP traps from the ioLogik 2000 series.

1 How to connect the ioLogik 2000 series to a SolarWinds NPM via the SNMP protocol

1. After installing the SolarWinds NPM, open the Orion Web Console and log in to your account (you may also log in as admin without using a password).

2. After logging in, use the step-by-step wizard to complete the settings.

Note: Make sure that the ioLogik 2000 series IP addresses are in the correct IP range.
2 How to set up the SolarWinds NPM to receive SNMP traps from the ioLogik 2000

1. If you’re using the ioLogik 2200 series, refer to the ioAdmin section below for instructions.
   If you’re using the ioLogik 2500 series, refer to the IOxpress section below for instructions.
ioAdmin

A. Open ioAdmin and click **Start Search** to locate ioLogik 2200 series devices.

B. Click the **Server Settings** tab and then click **Login**.
C. Click the **Click&Go Logic** tab to configure an IF-THEN-ELSE logic routine.

![Click&Go Logic tab]

D. In the THEN section, choose SNMP Trap, click on the setting buttons, and then customize your trap message.

![SNMP Trap settings]

- Highlighted message: **We are now doing Trap test.**
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E. After you complete the configuration, return to the Click&Go Logic tab and click on Upload to ioLogik; the rules will take effect after the system has been restarted.

Note: After logging back in as administrator and returning to the Click&Go Logic tab, click Retrieve to view the current ruleset. Click Run to activate the ruleset, and click Stop to deactivate it.

To learn more about the ioLogik 2200 series, ioAdmin, and Click&Go Logic, refer to the user’s manual for details:
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**IOxpress**

A. Open IOxpress and then click **Device Configuration ➔ Add Configuration...** on the menu bar. Next, choose your device from the list of ioLogik 2500 series devices.

![Device Configuration Menu](image1)

B. Click **Settings ➔ Click&Go Plus ➔ SNMP Trap** on the menu bar, and then type in the Name, Server IP Address, Trap Community and messages, then click **Add**.

![SNMP Trap Settings](image2)
C. Click the **Click&Go Plus** tab to configure an IF-THEN-ELSE logic routine:
   Click on “Condition” to set the IF condition, and then click on “Action” for the THEN and/or ELSE condition.

D. In **Action Settings**, click **ACTIVE MESSAGE**, select SNMP Trap under “Type”, and then select a self-defined parameter under “Parameter”.

E. Update the Configuration to the Device:
To update a configuration completed in **Offline Configuration Management**, click the **Configure Device** column and select the configuration you created. (The configuration name will be shown using the **Device Name** that was set during the offline configuration.)

Type in your username and password, and then click **Submit**.

![Image](image.png)

**Note:** You can also update the configuration from a configuration file saved on your computer.

To learn more about the ioLogik 2500 series and IOxpress, refer to the user’s manual for details: [http://www.moxa.com/support/DownloadFile.aspx?type=support&id=7916](http://www.moxa.com/support/DownloadFile.aspx?type=support&id=7916)

For Click&Go Plus, refer to the following link: [http://www.moxa.com/support/DownloadFile.aspx?type=support&id=7892](http://www.moxa.com/support/DownloadFile.aspx?type=support&id=7892)
2. You can see trap messages in one of two ways:
   A. Via the SolarWinds web console.
   Under **ALERTS & ACTIVITY** click **Traps**.

   The trap messages will appear as illustrated in the following figure:
B. Via the SolarWinds Trap Viewer.

Open the SolarWinds Trap Viewer, as shown below:

You will then see the trap messages: