



Networking with ScopeAdmin

Nowadays, it is possible to have applications operating with several oscilloscopes. ScopeAdmin is an application which makes it simple to manage several networked measuring instruments via a web browser. In this context, the instruments (Scopix, OX 6000, ScopIn@box) must be equipped with an Ethernet or Wifi connection.

In electronics laboratories, for example, the use of several devices or measuring instruments is commonplace. Not many laboratories are only equipped with one instrument.

Another example is the education and training sector, where each student must be able to handle and discover the instrument so that they are as comfortable using it as possible. As a result, the teacher has to keep a constant eye on what the students are doing because they are inexperienced and often unaware of the risks of electric shocks.

The purpose of this Case Study is to present one of the options in the ScopeAdmin software which can be used to manage a substantial fleet of instruments directly via a web browser.

Network

Monitoring

Customization

Networking of several instruments

Equipment used

- a PC running Windows, Linux or MacOs with a browser,
- JVM Oracle J2RE 1.6.0 or a more recent version.

Configuration of the PC:

- use port 50000 (firewall, antivirus),
- grant the rights to the application by using "Policytool" (see *User's Guide*).

1 The ScopeAdmin tool is available via a web browser at the IP address of the administrator's oscilloscope.

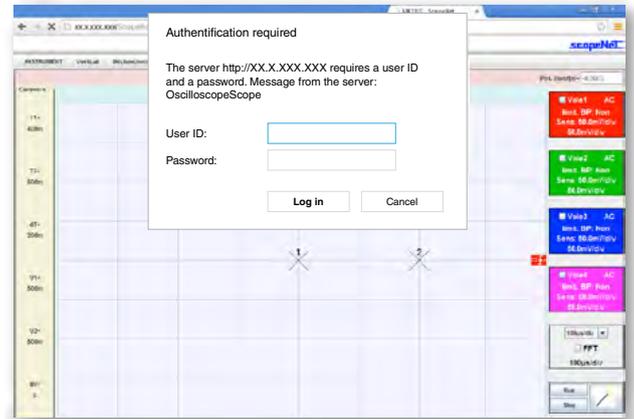
To use it, type the following in the URL bar:

← → X

Then replace the X's with the IP address of the administrator's oscilloscope.

2 Next, enter the user ID "admin" and the password "admetri*" and start a search for instruments on the network.

This step allows you to obtain a list of all the instruments connected to the network. In the example below, the instruments connected are 5 oscilloscopes of 4 different types, each with a different software release.



3 Two methods can be used to manage all the oscilloscopes: clicking directly on the menu bar to change the parameter settings of all the instruments in one go or clicking directly on the name of the instrument which you want to configure.

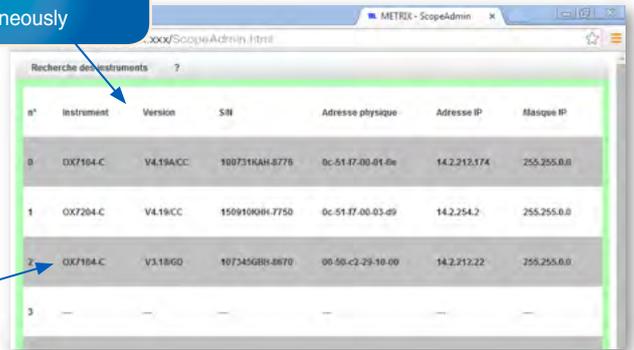
Each instrument is then managed separately.

Possible operations:

- Assignment of an IP address with its network mask,
- Configuration of the printing parameters,
- Configuration of the general parameters,
- Locking of the oscilloscope's system parameters,
- Display of a message on the oscilloscope's screen,
- Standby or shutdown of the instrument.

Click on the menu bar to configure all the instruments simultaneously

Click on the name of the instrument that you want to configure



A wide variety of applications are possible, such as quick configuration of the whole fleet, for example:

no	Instrument	Version	S/N	Physical address	IP adresse	IP mask
0	MTX1052B	v2.04a/7/A01	APPAREIL4	00-50-c2-9d-e7-07	14.3.250.49	255.0.0.0
1	OX7104-C	V4.18/CC	144055JFH-1530	00-50-c2-9d-ed-f3	14.3.211.21	255.255.0.0
2	OX7204	V4.18/AA	123456ABE-5583	00-01-02-03-40-05	14.3.250.47	255.255.0.0
3	OX7202-C	V4.18/CC	144055JFH-1530	00-50-c2-9d-ed-f3	14.3.211.20	255.255.0.0
4	OX7104-C	V3.14/GC	116305FBH-7076	00-50-c2-60-2a-07	14.3.212.27	255.255.0.0

If an error message appears when you start up the application:

- Check the navigation bar (IP address);
- Re-open Policytool to check the rights granted (see the *Scopix® User's Guide*).

To sum up, the ScopeAdmin data management platform is a powerful configuration tool. It can be used for both grouped (fleet of instruments) and individual instrument configuration, thus ensuring that your network is customized and secure.

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