

### Nexans Switches Frequently Asked Questions IV Switch Replacement via "Fixed IP Address

Version 1

This document describes, how to replace a switch and push its configuration to a new one via "Fixed IP Address".

This method is especially useful if the old switch has no memory card to transfer the configuration.

### 1. Start the new Switch with "Fixed IP Address"



Start the new switch with a fix IP address (see also in the manual):

- Press and hold the configuration pushbutton (min. 3 seconds). The switch will change into the configuration mode, which is indicated by the Mgmt-LED going off. As soon as the Mgmt-LED is permanently off, the configuration pushbutton must be released again. A rapidly flashing blue Mgmt-LED shows that function number 1 has been selected.
- Then press the configuration pushbutton briefly one time. The led should turn red.
- And finally, in order to execute the function, the configuration pushbutton must be pressed and held for at least 3 seconds. The Mgmt-LED flashes briefly and goes out to show that the switch has accepted the command. Now the configuration pushbutton can be released and the switch will boot to execute the command.

Your device will start with the fixed IP address 172.23.44.111. After booting with fix IP address the Mgmt-LED must light red permanently.

### 2. Add "Fixed IP Address" to Device-List

To add the Switch to your device-list in NEXMAN, select in the "Add/Remove" menu: "Add fixed IP 172.23.44.111"



Then configure the network card of your computer connected to this switch, so that it matches IP range 172.23.44.x.

| Eigenschaften von Internetprotokoll Ve   | ersion 4 (TCP/IPv4)   |
|--|---|
| Allgemein  |   |
| IP-Einstellungen können automatisch zu<br>Netzwerk diese Funktion unterstützt. V<br>den Netzwerkadministrator, um die gee<br>beziehen. | ugewiesen werden, wenn das<br>Venden Sie sich andernfalls an<br>igneten IP-Einstellungen zu |
| <ul> <li>IP-Adresse automatisch beziehen</li> </ul>  |   |
| Folgende IP-Adresse verwenden:   |   |
| IP-Adresse:  | 172 . 23 . 44 . 3   |
| Subnetzmaske:  | 255.255.255.0   |
| Standardgateway:   | · · ·   |
| <ul> <li>DNS-Serveradresse automatisch b</li> <li>Folgende DNS-Serveradressen ver</li> </ul>   | rwenden:  |
| Bevorzugter DNS-Server:  |   |
| Alternativer DNS-Server:   | · · ·   |
| Einstellungen beim Beenden über  | prüfen  |
|  | Erweitert   |
|  | OK Abbrechen  |

The switch should be now reachable.

| Devic | e-List  |            |         |               |                    |          |             |   |
|-------|---------|------------|---------|---------------|--------------------|----------|-------------|---|
| Check | Alarms  | Redundancy | PoE     | IPv4Address   | Active MAC Address | Name     | Location    |   |
|       | 8       | V          | V       | V             | R                  | 8        |             | V |
|       | 0       | Disabled   | Powered | 172.23.44.111 | 00:C0:29:26:54:61  | Switch_6 | not defined |   |
|       | Offline |            |         | 192.168.0.77  | 00:C0:29:25:B6:0E  | Switch_3 | not defined |   |

### 3. Copy the old Switch's configuration on the new Switch

In NEXMAN, open in Device-Editor, the configuration of the switch that you need to replace: To do so, right click on the switch in the Device-list, and select "**Open Device-editor from Database**"

| Check | Alarms                                     | Redundancy | PoE                                     | IPv4Address                                | Active MAC Address      | Name          | Location             | Description                   |  |  |  |
|-------|--|------------|---|--|-------------------------|---------------|----------------------|-------------------------------|--|--|--|
|       | V  | V          | V                                       | 7  | P                       | V             | P                    | V                             |  |  |  |
|       | 0  | Disabled   | Powered                                 | 172.23.44.111                              | 00:C0:29:26:54:61       | Switch_6      | not defined          | GigaSwitch V5 TP(PSE+) SFP    |  |  |  |
|       | Offline                                    |            | Open De                                 | 192 168 0 77                               | Device                  | Switch 3      | not defined          | GinsSwitch 6/1 Deek SEP-I ES3 |  |  |  |
|       |  |            | Open De                                 | vice-Editor from                           | Database                |               |                      |                               |  |  |  |
|       |  |            | opende                                  |  | batabase                |               |                      |                               |  |  |  |
|       |  |            | Open WEB Browser (HTTPS)                |  |                         |               |                      |                               |  |  |  |
|       |  |            | Open We                                 | Open WEB Browser (HTTPS)                   |                         |               |                      |                               |  |  |  |
|       |  |            | Open SS                                 | Open Telnet Client [NexMan default client] |                         |               |                      |                               |  |  |  |
|       |  |            | Open SSH Client [NexMan default client] |  |                         |               |                      |                               |  |  |  |
|       |  |            | Show Local Logging messages             |  |                         |               |                      |                               |  |  |  |
|       |  |            | Read Loo                                | al Logging mes                             | sages from Device into  | o Database    | (via SCP)            |                               |  |  |  |
|       |  |            | Read CLI                                | -Config from De                            | evice into Database (or | nly with par  | ameters changed from | n Factory-Default)            |  |  |  |
|       |  |            | Read CLI                                | -Config from De                            | evice into Database (wi | ith all parar | neters)              |                               |  |  |  |
|       |  |            | Open CL                                 | I-Config from D                            | atabase                 |               |                      |                               |  |  |  |
|       | Open Basic Configurator (MAC Address Mode) |            |   |  |                         |               |                      |                               |  |  |  |
|       |  |            | Copy IP a                               | address to clipb                           | oard 192.168.0.77       |               |                      |                               |  |  |  |
|       |  |            | Copy Act                                | ive MAC to clip                            | board 00:C0:29:25:B6:0  | E             |                      |                               |  |  |  |
|       |  |            | Copy Act                                | ive MAC to clip                            | board 00C0.2925.B60E    |               |                      |                               |  |  |  |
|       |  |            | Copy Act                                | tive MAC to clip                           | board 00C02925B60E      |               |                      |                               |  |  |  |
|       |  |            | Update I                                | Firmware                                   |                         |               |                      |                               |  |  |  |
|       |  |            | Activate                                | maintenance mo                             | ode                     |               |                      |                               |  |  |  |
|       |  |            | Go to ca                                | teaory: XXXXXXX                            | 200000000               |               |                      |                               |  |  |  |

Then in the Device-Editor, select in the menu "Configure" the option "Write Config to Device with fixed IP 172.23.44.111"

| Device-List 192.168.0.77          |         |                 |                       |        |   |   |
|-----------------------------------|---------|-----------------|-----------------------|--------|---|---|
| [Exit & Save] [Quit] [Read Config | from De | vice] [Wri      | ite Config to Device] | Show   | Configure Database Templates Help   |   |
| ⊿ State                           | Globa   | +Link State     |                       |        | Read Config from Device   |   |
| Global+Link State                 |         |                 |                       |        | Write Config to Device  | 5 |
| MAC+Security State                | Refr    | esh interval (s | seconds): 1           | Manual | Write Config to Device with fixed IP 172.23.44.111                                | J |
| PoE State                         |         |                 |                       |        | Open WEP Proving (Dert 90)  |   |
| Radius State                      | Por     | t Link State –  |                       |        |   |   |
| Device Info                       |         | _               |                       |        | Open WEB Browser (HTTPS) [Port 443]   | ſ |
| ⊿ Port Setup                      | No      | Description     | Name                  |        | Open Telnet Client [NexMan default client]  |   |
| Port 0 [MGMT]                     | 0       | MGMT            |                       |        | Open SSH Client [NexMan default client]   |   |
| Port 1 [TP-1]                     | 1       | TP-1            | <none></none>         |        | Read CLL-Config into Database (only with parameters changed from Eastony-Default) | 0 |
| Port 2 [TP-2]                     | 2       | TP-2            | <none></none>         |        |   |   |
| Port 3 [TP-3]                     | 3       | TP-3            | <none></none>         |        | Kead CLI-Config into Database (with all parameters)                               |   |
| Port 4 [TP-4]                     | 4       | TP-4            | <none></none>         |        | Open CLI-Config from Database   |   |
| Port 5 [UPLINK-SFP]               | 5       | UPLINK-SFI      | P <none></none>       |        | Update Firmware t   |   |
| Port 6 [UPLINK-TP]                | 6       | UPLINK-TP       | <none></none>         |        | Autoneg. no link n/a No alarm No change since last reboot                         |   |

### Nexans ANS FAQ

Enter the current credentials of the new Switch (by factory default "admin" and password "nexans"), and if the credentials are changed with the new configuration enter the new credentials in the bottom part of the window:

| Authentication - NexMan                               |                             |
|---|-----------------------------|
| Please enter Name and Pass<br>Current<br>Admin Name:  | sword for Admin Account.    |
| Admin Password:                                       | *****                       |
| Admin-Name/Password c                                 | hanges after writing Device |
| Admin Name:   | admin                       |
| Admin Password:                                       |                             |
| Write Config to Device Don't read back Config a Write | after writing Device        |

# 4. OPTIONAL: Deploy a Master-Config to the new switch

Select with the check-box the fixed IP address, then select in the menu "Templates" the option "Copy Master-Config to checked Devices"

| Configu | re   | Ter | mplates  | In   | ventory     | Extras   | Logfi    | le   | Help       |     | _   |
|---------|------|-----|----------|------|-------------|----------|----------|------|------------|-----|-----|
| 🔒 🖶 👋   | 21   |     | Edit Ma  | ster | -Config     |          |          |      |            |     |     |
| Devic   | e-Li |     | Copy N   | last | er-Config   | to check | ed Dev   | ices |            |     |     |
|         |      |     | Copy N   | last | er-Config   | to check | ed Dev   | ices | scheduled  |     | Н   |
|         |      |     | Copy C   | onf  | iguration 1 | Template | es to ch | ecke | d Devices  |     |     |
| Спеск   | Ala. |     |          | ,    |             |          |          |      |            |     |     |
|         |      | V   |          | V    | V           |          | V        |      |            | V   |     |
|         | 0    |     | Disabled |      | Powered     | 172.23.4 | 4.111    | 00:0 | 0:29:26:54 | :61 | Swi |
|         | Offl | ine |          |      |             | 192.168  | .0.77    | 00:0 | 0:29:25:B6 | :0E | Swi |

### Nexans ANS FAQ

Select the master-config file you want to deploy. Then enter the current credentials of the new Switch, and if the credentials are changed with the maser-config enter the new credentials in the bottom part of the window:

#### Authentication - NexMan

| Admin Name:            | admin                            |
|------------------------|----------------------------------|
|                        | ******                           |
| Admin Password:        |                                  |
| V Admin-Name/Passw     | ord changes after writing Device |
| New                    |                                  |
| Admin Name:            | admin                            |
| Admin Progword         |                                  |
| Aumin Password.        |                                  |
|                        |                                  |
| Write Config to Device |                                  |
| Write Config to Device | nfig after writing Device        |

## 5. Restart your Switch

Wait at least 30 seconds before disconnecting switch from power. With the next reboot, all settings will be valid.

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