5000 series ONIE install OS

D-Link®

ONIE install OS

What's situation you need install OS via ONIE ?

- If the switch is bare metal and you want to install D-Link OS
- If the switch has D-Link OS already, but you want to upgrade to the latest version.

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Four actions you should do before installing OS :

1. Connect Console cable to console port

2. Connect RJ45 cable to service port

3. Save D-Link OS file on this PC or laptop

4. Power on this switch

Option 1: Bare metal switch and you want to install D-Link OS

1. You will see ONIE menu options on switch bootup.
2. Select install OS .

Option 2 : D-Link OS is already installed, but you want to upgrade to the latest version

1. On bootup, the switch will stay on GRUB page for 3-5 seconds, if there is no action, it will enter D-Link OS automatically .

2. Select ONIE to enter ONIE options before it boots D-Link OS.

```
                GNU GRUB   version 2.02-beta2+e4a1fe391

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 │  D-Link OS                                                         │
 │ *ONIE                                                              │
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      Use the ^ and v keys to select which entry is highlighted.
      Press enter to boot the selected OS. 'e' to edit the commands
      before booting or 'c' for a command-line.
```

ONIE options :

3. Select "Install OS"


```
              GNU GRUB   version 2.02~beta2+e4a1fe391

+-----------------------------------------------------------------------+
|*ONIE: Install OS                                                      |
| ONIE: Rescue                                                         |
| ONIE: Uninstall OS                                                   |
| ONIE: Update ONIE                                                    |
| ONIE: Embed ONIE                                                     |
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     Use the ˉ and v keys to select which entry is highlighted.
     Press enter to boot the selected OS, 'e' to edit the commands
     before booting or 'c' for a command-line.
```
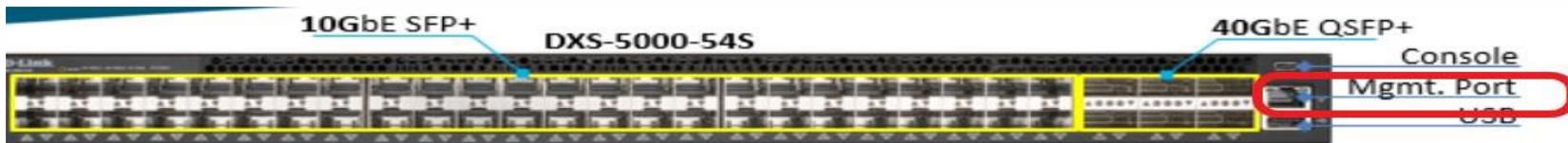
(Note: once you enter this setting section, the existing OS image will be removed. So even if don't go ahead with OS loading, after device bootup, you should install the OS again)

- Stop ONIE auto discovery first: input the command "**onie-discovery-stop**"
- This switch default IP is = 192.168.3.10 /24. Connect a PC with TFTP server to the Management port.
- Set your TFTP server IP = 192.168.3.x (for example 192.168.3.168)


```
Info: Trying DHCPv4 on interface: eth0
Warning: Unable to configure interface using DHCPv4: eth0
ONIE: Using default IPv4 addr: eth0: 192.168.3.10/24
ONIE: Using link-local IPv4 addr: eth0: 169.254.104.123/16
Info: Platform NCIIX-RANGELEY detected ...
Starting: dropbear ssh daemon... done.
Starting: telnetd... done.
Installing for i386-pc platform.
Installation finished. No error reported.
discover: installer mode detected.   Running installer.
Starting: discover... done.

Please press Enter to activate this console. Info: eth0:   Checking link... up.
Info: Trying DHCPv4 on interface: eth0
Warning: Unable to configure interface using DHCPv4: eth0
ONIE: Using default IPv4 addr: eth0: 192.168.3.10/24
ONIE: Using link-local IPv4 addr: eth0: 169.254.250.65/16
ONIE: Starting ONIE Service Discovery

To check the install status inspect /var/log/onie.log.
Try this:   tail -f /var/log/onie.log
```
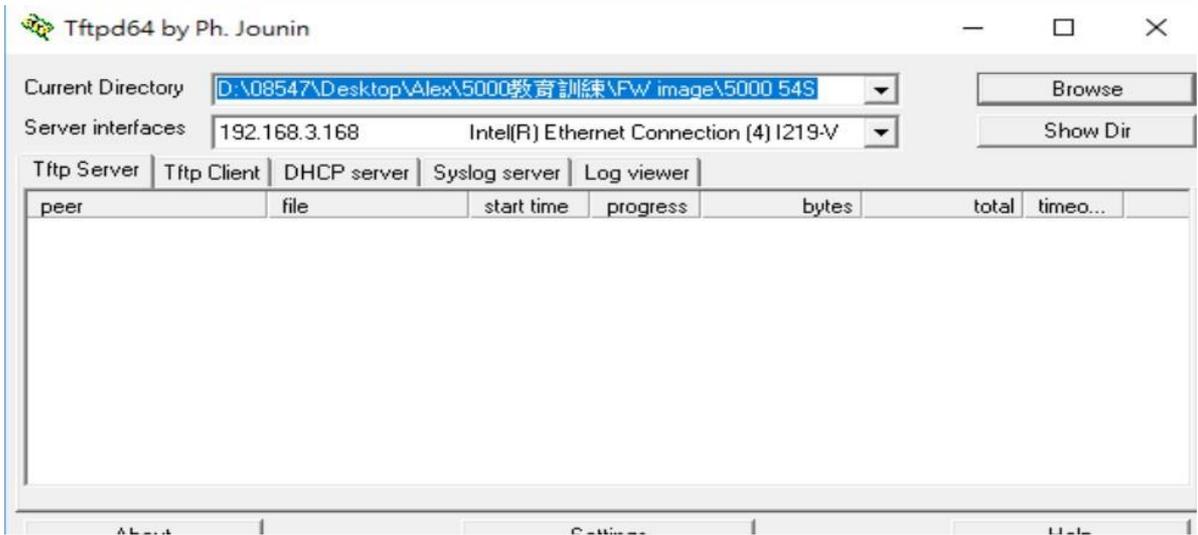
```
ONIE:/ # onie-discovery-stop
discover: installer mode detected.
Stopping: discover... done.
ONIE:/ #
```

- Start your TFTP server (e.g. Tftpd64), set the correct current directory (where the firmware file is located) and IP.

- Issue command: **onie-nos-install tftp://YOUR IP ADDRESS/FILE NAME**
- Example:
onie-nos-install tftp://192.168.3.168/onie-installer-x86_64-nc2x_rangeley-1.0.3-rc-DLink-DXS-5000-54S

```
ONIE:/ # onie-discovery-stop
discover: installer mode detected.
Stopping: discover... done.
ONIE:/ # onie-nos-install tftp://192.168.3.168/onie-installer-x86_64-nc2x_rangeley-1.
0.3-rc-DLink-DXS-5000-54S
```

- You will see log messages during the install. Wait for "success" message and "machine restart"

ONIE:/ # onie-nos-install tftp://192.168.3.168/onie-installer-x86_64-nc2x_rangeley-1.

0.4-rc-DLink-DXS-5000-54S

discover: installer mode detected.

Stopping: discover... done.

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/etc/rc3.d/K79puppet -> ../init.d/puppet

  /etc/rc4.d/K79puppet -> ../init.d/puppet

  /etc/rc5.d/K79puppet -> ../init.d/puppet

Success: Support tarball created: /mnt/dlinkos/broadcom/install/onie-support.tar.bz2

Installing for i386-pc platform.

Installation finished. No error reported.

ONIE: NOS install successful: tftp://192.168.3.168/onie-installer-x86_64-nc2x_rangeley-1.0.4-rc-DLink-DXS-5000-54S

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Sent SIGTERM to all processes

Sent SIGKILL tosd 4:0:0:0: [sda] Synchronizing SCSI cache

Restarting system.

machine restart

- After the installation you will see GNU GRUB menu again
  The switch will boot with D-Link OS automatically.