# DWS-4026 Firmware Release Notes


**Firmware Version:** 3.0.0.16
**Published:** Oct 26, 2011

**Content:**

## Revision History and System Requirement:

| Firmware Version | Date | Model | Hardware Version |
|---|---|---|---|
| V3.0.0.16 | 26-Oct-11 | DWS-4026 | A1G |
| V3.0.0.14 | 28-April-11 | DWS-4026 | A1G |
| V1.0.0.8 | 01-April-10 | DWS-4026 | A1G |
| V1.0.0.6 | 09-Dec-09 | DWS-4026 | A1G |
| | | | |

## Upgrade Instructions:

The following steps describe how to upgrade the wireless system comprising of the Access Points (AP) and the managing Wireless Switch (WS) from release 1.0.0.6 to 1.0.0.8. These instructions are applicable to any upgrade from 1.0.0.x to 1.0.0.x version.

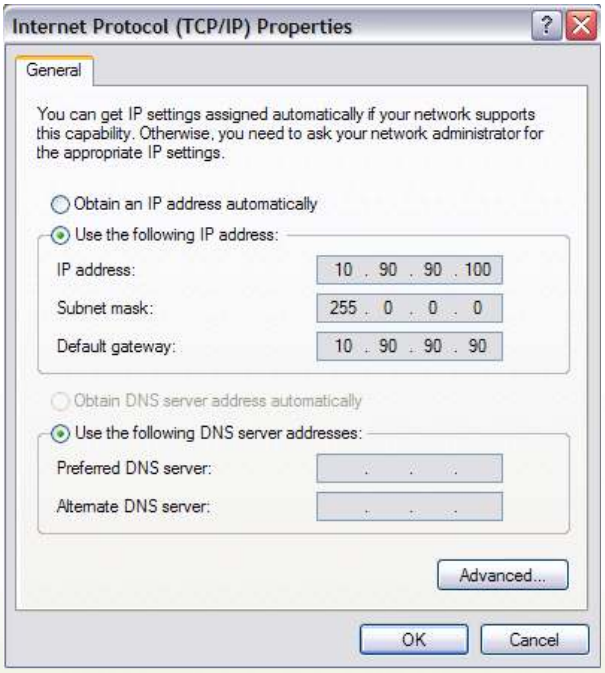
**NOTES:**

**1. Before you upgrade, make sure that the Wireless Switch (WS) and the Access Points (APs) have the same version of software, or at least, the APs are managed successfully by the WS.**

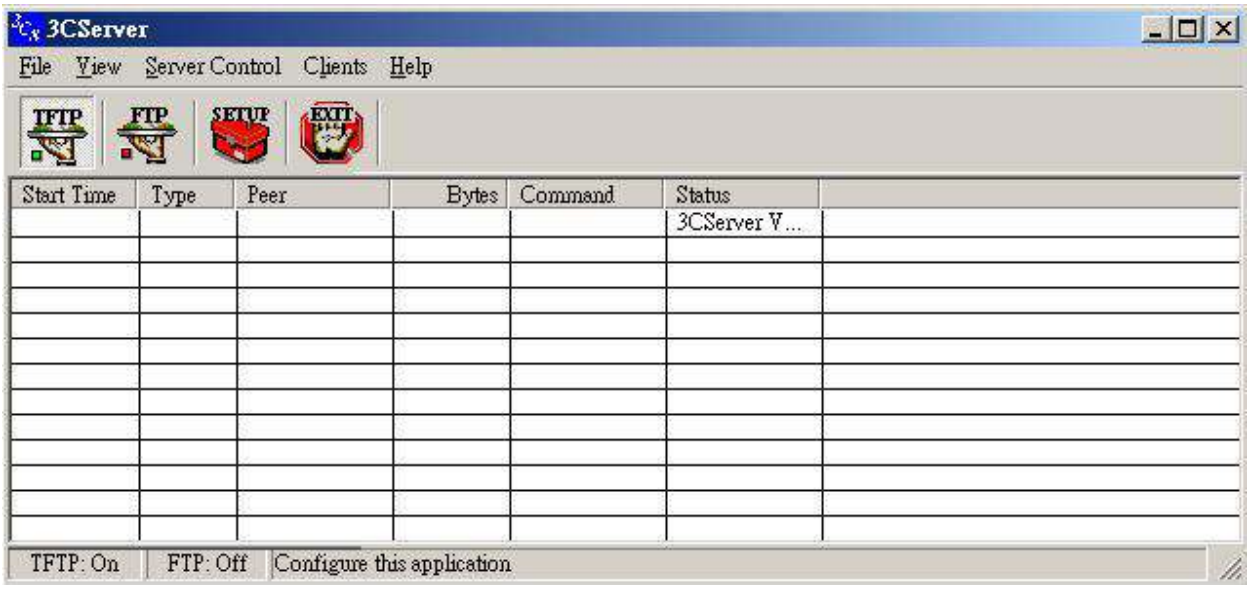
**2. Please upgrade the APs before you upgrade the managing WS.**

**Step 1 : Configure IP address on your PC**

Make sure the PC on which the TFTP server resides is configured in the same network as the switch and the AP. Verify that the PC is accessible from these devices. For example, if the WS (10.90.90.90) and the APs are in the 10.0.0.0/8 network, you can configure the PC network interface as follows.



**Step 2: Install TFTP server on your PC.**




**Step 3 : Copy the WS and AP images into the designated folder and start TFTP service.**

**Step 4: Check runtime version of the WS**

Username: admin; Password: no password required.

(DWS-4026) #show version

```
System Description.............................. D-Link DWS-4026
Machine Model................................... DWS-4026
Serial Number................................... P4OI19C000004
Burned In MAC Address........................... 00:17:9A:95:2C:B4
Software Version................................ 1.0.0.6
Additional Packages............................. QOS
                                                 IPv6 Management
                                                 Wireless
                                                 Routing
```

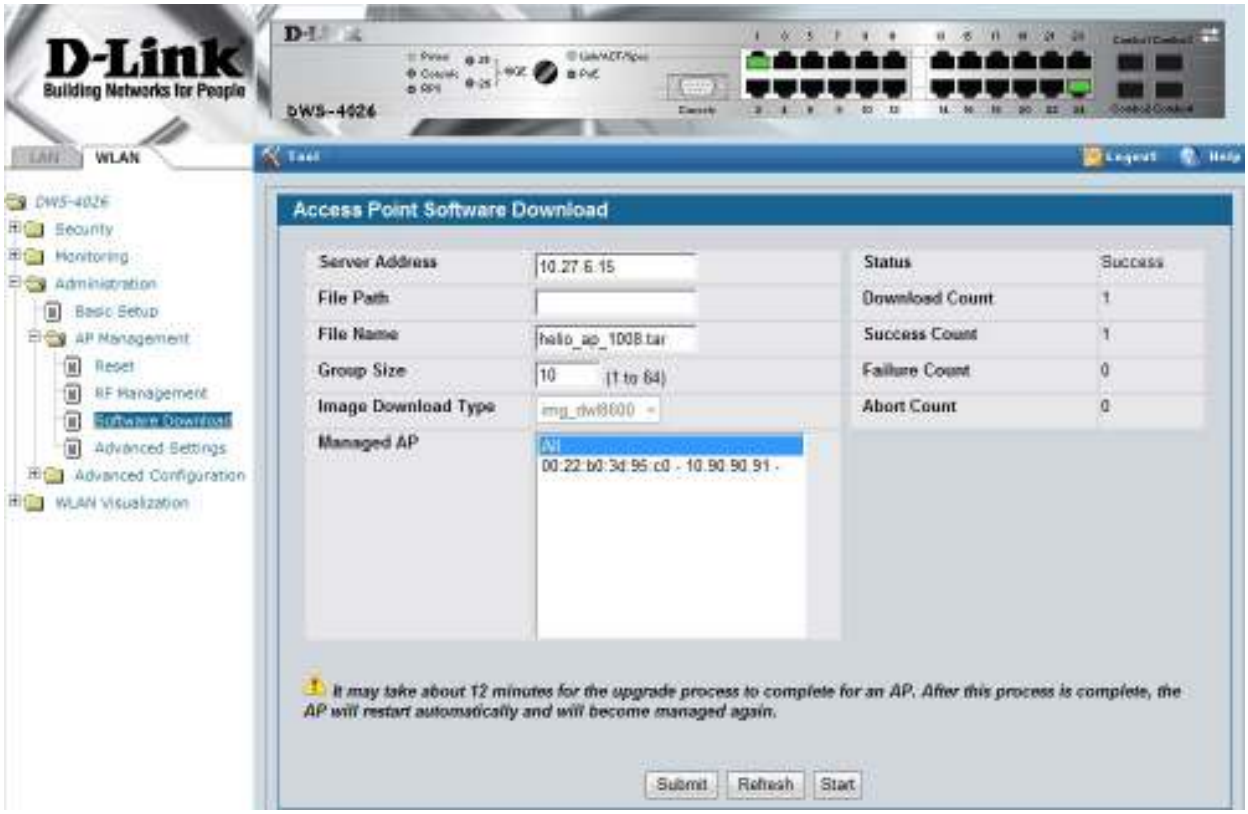
Verify it on the web UI at LAN->Monitoring->Device Status page as follows.


The versions of both the images on the switch are displayed at LAN->Monitoring->Dual Image Status page as follows.


**Step 5 : Upgrade the Managed Access Points from WS Web UI using TFTP**

**Note: Record the IP addresses of the APs that are currently managed by the 1.0.0.6 WS.**

Download the 1.0.0.8 image on the AP using WLAN->Administration->AP Management -> Software Download as follows. Make sure that the TFTP server is accessible from the APs as the WS is going to direct the APs to the TFTP server to get their upgrade image.




Once the APs are upgraded, they should become managed by the WS that is still running 1.0.0.6. Verify on the WLAN->Monitoring->Access Point ->Managed Access Points page as follows. (Verify the Software Version of the APs is 1.0.0.8.)

**Note: Make sure there is no other WS in the network that will manage these APs. In that case, you may not see the APs managed by this WS.**


**Step 6: Save the switch configuration in case it is needed for downgrading.**

Transfer the switch configuration to a TFTP server using Tool->Upload File menu item. This is switch configuration in binary form. If needed, it could be downloaded on the switch later using Tool->Download File menu item.

**Step 7: Upgrade the WS using TFTP**

Download 1.0.0.8 WS firmware image using the Tool->Download File web page as follows. Make sure the Image Name selected is same as the Next Active Image. Next Active Image can be verified from LAN->Monitoring->Dual Image Status page


You should see the success message as follows when the transfer is complete.


Now reboot the WS using Tool->Reboot System as follows. Respond appropriately if want to save the configuration changes before the reboot.

After the switch is back up, you should see all the APs with version 1.0.0.8 managed as follows on the WLAN->Monitoring->Access Point ->Managed Access Points page.


**Step 8: Update the WS boot code**

The boot code is embedded in the upgrade image. So once the operational code is upgraded, the boot code could be updated.

When the 1.0.0.6 WS is coming up, you will see the following information that includes the boot code version in terms of the date.

```
CPU Card ID:   0xa28245
Boot Menu Version (Date):  15 OCT 2009
Select an option. If no selection in 10 seconds then
operational code will start.
```

You can update the bootcode using Tool->Multiple Image service web page as follows. Make sure you select the appropriate image before clicking the Update Bootcode button. You should select the image name that corresponds to the 1.0.0.8 version. So far the bootcode has no difference between the 1.0.0.6 and 1.0.0.8.

**Step 9 : Check the WS software version again.**

```
(DWS-4026) #show version

System Description.............................. D-Link DWS-4026
Machine Model................................... DWS-4026
Serial Number................................... P4OI19C000004
Burned In MAC Address........................... 00:17:9A:95:2C:B4
Software Version................................ 1.0.0.8
Additional Packages............................. QOS
```

*IPv6 Management*

*Wireless*

*Routing*

## New Features:

| Firmware Version | New Features |
|---|---|
| V3.0.0.16 | None, bug fix release only |
| V3.0.0.14 | None |
| V1.0.0.8 | 1. Disable DFS band support for US and JP<br>2. Remove channel 14 for JP |
| V1.0.0.6 | Initial Release; please refer to DWS-4026 External Specification. |
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## Problems Fixed:

| Firmware Version | Problems Fixed |
|---|---|
| V3.0.0.16 | 1. The switch is unable to save and reload the channel bandwidth information when the mode is configured for 802.11a/n.[ HQ20110225000013]<br>2. The VLAN ID and other parameters do not get updated for a wireless client when it roams between a virtual access point with different SSIDs and default VLANs. [HQ20110315000014]<br>3. The Multicast TX Rate is not preserved in the configuration and is lost after a reboot[HQ20110328000014]<br>4. The show tech-support CLI command does not show the complete running configuration[HQ20110414000016]<br>5. The switch might not respond to PDUs if the source port matches with IANA well-known ports like 2000 (SCCP). Some SNMP tools might be configured with these ports, and the result is that the switch does not respond to SNMP get requests. [HQ20110415000014] |
| V3.0.0.14 | 1. The master DWS-4026 fails to push AP configuration to the peer switch and the DWL-8600APs managed by peer switch.[DI20100705000002] [DI20110105000010]<br>2. DWL-8600APs that are managed by a DWS-4026 become hung suddenly. [DUSA20101029000001]<br>3. DWL-8600APs managed by a DWS-4026 may be incorrectly reported as rogue APs in the AP RF scan status and by the WLAN Visualization tool.[DEUR20100602000006]<br>4. After several days of normal operation, some DWL-8600APs managed by a DWS-4000 switch begin to be inaccessible and can't be managed by the DWS-4026. [DEUR20101021000007]<br>5. No SNMP support is available to control client failure traps [DEUR20101021000007]<br>6. When placing an object on the WLAN Visualization graph, the object is not placed in the desired location.[DEUR20100715000001]<br>7. DWS-4026 might report its total number of associated clients incorrectly as 65535 on the WLAN Global Status and Associated Client Status page [DI20100730000001]<br>8. Client fails to associate with a DWL-8600AP managed by a DWS-4026 with 802.1X or WPA-EAP authentication.[DUSA20100520000001]<br>9. The result is showed as error after compile with |

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|---|---|
| | net-snmp.[DI20100430000002]<br>10. The DWS-4026 will not allow for the DHCP Server on the VLAN 1 to be specified in the Helper IP address. It will show an error message: "Error! adding the Helper IP Address".[DUSA20100520000001]<br>11. The switch PoE feature reports an incorrect power budget, and the PoE usage threshold and per-port power limit do not work.[DUSA20100513000001]<br>12. Editing and changing the graph image multiple times through the "Edit > Edit Graph menu" in "WLAN Visualization Tool" function might cause the switch to automatically reboot.[DI20100407000001]<br>13. The WLAN > Monitoring > Client > Associated Clients page reports an incorrect value for the Encryption field of authentication clients.[DI20100415000017]<br>14. The RADIUS authentication keeps dropping out. After rebooting the switch, it all works for a while before failing again.[DI20100129000009]<br>15. After enabling the Captive Portal feature, the access to the network or management access to the switch through the Captive Portal might become unresponsive after a period of several hours or days. [DEUR20100621000003] [DI20100511000005] [DI20100511000005] |
| V1.0.0.8 | 1. Sometimes AP stops passing DHCP packets to the clients. AP will work fine again after rebooting, but it will stop passing DHCP packets again later. [DI20100105000002]<br>2. When using Microsoft Windows 2008 server as DHCP and RADIUS Server, if accounting function on the RADIUS server is disabled but RADIUS Accounting related configuration on DWS-4026 is enabled, the clients can connect normally at the beginning, but can not authenticate successfully after several hours (< 1 day). The issue is due to out of RADIUS buffers on the switch that handles RADIUS accounting.[DI20100129000009] |
| V1.0.0.6 | None, initial release |
| | |

## Known Issues:

| Firmware Version | Issues |
|---|---|
| V3.0.0.16 | When updating code from previous code version 2.x to 3.0.0.15+, some or all wireless radio configuration setting will be lost.<br>*A workaround for this issue exists using the CLI on the console port. Prior to upgrading, execute a* **show running-config** *command and capture the output in a text editor. Perform the upgrade from 2.2.x to the latest firmware. Activate the image and reboot the switch. Using the CLI again, paste the output into the CLI and the configuration will be restored.* |
| V3.0.0.14 | When the SSID on a VAP of a managed AP is hidden (non-broadcasting), the VAP is reported as Rogue APs in DWS-4026. |
| V1.0.0.8 | None |
| V1.0.0.6 | None |
| | |

## Related Documentation:

- DWS-4000 Series & DWL-8600AP User Manual
- DWS-4000 Series & DWL-8600AP CLI Manual