

D-Link® Technical Support Setup Procedure

FAQ: How to configure QoS

Release date: 9/07/2015

Model Support: DSL-2877AL

H/W: A1 , A2

S/W: 1.00.10TH

FAQ : How to configure QoS

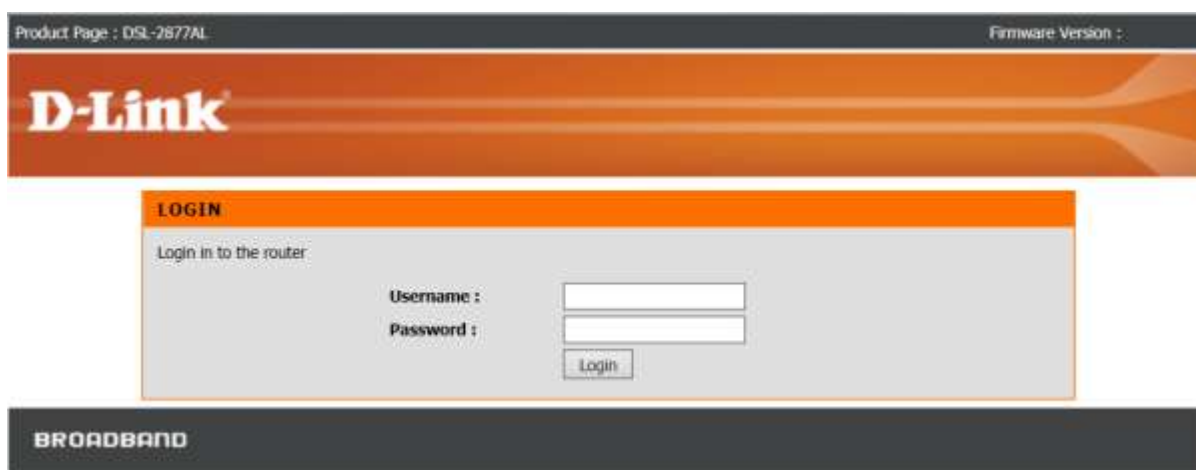
D-Link[®] Technical Support Setup Procedure

การตั้งค่า QoS สามารถทำได้อย่างไร

ขั้นตอนที่ 1 : เปิดเว็บเบราว์เซอร์ของคุณ แล้วพิมพ์ <http://192.168.1.1> ในช่องของ Address Bar



ชื่อผู้ใช้งานที่มาจากโรงงานคือ admin แล้วใส่รหัสผ่านของคุณ ในกรณีรหัสผ่านไม่ได้มีการเปลี่ยนแปลง ให้ใช้ค่าที่มาจากโรงงานเป็น admin แล้วคลิก Login



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ขั้นตอนที่ 2 : คลิกบนแท็บของ Status ที่อยู่ทางด้านบนแล้วคลิก Device Info จากเมนูที่อยู่ทางด้านซ้ายมือ (WAN Connection รวมหมายถึง Bridge , MER , PPPoE)

The screenshot displays the web management interface for a D-Link DSL-2877AL router. The top navigation bar includes tabs for SETUP, ADVANCED, MAINTENANCE, and STATUS. The left sidebar contains menu items for Device Info, System Log, Statistics, and Storage Info, along with an 'Internet Online' indicator and 'Reboot' and 'Logout' buttons. The main content area is titled 'DEVICE' and contains the following information:

GENERAL

- Current Time : Tue Jun 23 20:19:11 2015
- Uptime : 0d: 0h:21m:46s
- DSL Firmware Version : FwVer:5.5.1.23_A_A60901 HwVer:T14.F7_0.1
- Firmware Version : 1.00.11TH
- Build Timestamp : 03232015

INTERNET STATUS

Interface: PVC0

Connection Type: Dynamic IP

Status: Connected

IP Address: 10.2.76.113 [renewIP] [releaseIP]

Subnet Mask: 255.255.255.0

Default Gateway: 10.2.76.254

DNS Server : 8.8.8.8 10.2.76.2

IPv6:

Status: Not Connected

IP Address: N/A [renewIPv6] [releaseIPv6]

Prefix Length: N/A

Default Gateway: N/A

DNS Server: N/A

Prefix Delegation: N/A

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ขั้นตอนที่ 3 : คลิกบนแท็บของ Advanced ที่อยู่ทางด้านบนแล้วคลิก **Enable QoS : Advanced > Network Tools > QoS > Enabled QoS Activated**



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ขั้นตอนที่ 4 : คลิกบน Add, delete เพื่อทำการตั้งกฎของ QoS : ADVANCED→Network Tools→QoS

ตัวอย่างการตั้ง QoS Rule

1. Add DVR rule

The screenshot shows the 'Rule' configuration page in the D-Link web interface. The sidebar on the left contains 'Network Tools', 'Routing', and 'URL Redirect' sections. The main content area is titled 'Rule' and includes the following fields and options:

- Rule Index:** 0
- Active:** Activated Deactivated
- Application:** [Dropdown]
- Physical Ports:** eth0 eth1 eth2 eth3 ra0 rai0
- Destination MAC:** [Text]
- IP:** [Text]
- Mask:** [Text]
- Port Range:** [Text]
- Source MAC:** [Text]
- IP:** 192.168.0.101
- Mask:** [Text]
- Port Range:** 8081 ~ 8081
- Protocol ID:** TCP/UDP
- VLAN ID Range:** [Text]
- IPP/DS Field:** IPP/TOS DSCP
- IP Precedence Range:** [Text]
- Type of Service:** [Dropdown]
- DSCP Range:** [Text] (Value Range: 0 ~ 63)
- 802.1p:** [Text]
- Action:** IPP/TOS DSCP
- IP Precedence Remarking:** [Dropdown]
- Type of Service Remarking:** [Dropdown]
- DSCP Remarking:** [Text] (Value Range: 0 ~ 63)
- 802.1p Remarking:** [Dropdown]
- Queue #:** Highest

Buttons: Apply, Delete

ในการตั้งค่าจะต้องทราบ IP Address ของ DVR และพอร์ตที่ใช้ เพราะว่า ต้องการให้ DVR มี Priority สูงสุด เลือก Highest Priority แล้วคลิกเพื่อบันทึกการตั้งค่า

Note : ถ้าใช้งานผ่านพอร์ตแลน (พอร์ตที่ 1) สำหรับ DVR ให้เลือกพอร์ต eth0

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2. Add Mail rule

The screenshot shows a web-based configuration interface for a network device. On the left is a sidebar with 'Network Tools', 'Routing', and 'URL Redirect' sections. The main area is titled 'Rule' and contains the following fields:

- Rule Index:** 1
- Active:** Activated Deactivated
- Application:** [Dropdown menu]
- Physical Ports:** eth0 eth1 eth2 eth3 ra0 rai0
- Destination MAC:** [Text field]
- IP:** [Text field]
- Mask:** [Text field]
- Port Range:** [Text field] ~ [Text field]
- Source MAC:** [Text field]
- IP:** [Text field]
- Mask:** [Text field]
- Port Range:** 25 ~ 25
- Protocol ID:** TCP
- VLAN ID Range:** [Text field] ~ [Text field]
- IPP/DS Field:** IPP/TOS DSCP
- IP Precedence Range:** [Text field] ~ [Text field]
- Type of Service:** [Dropdown menu]
- DSCP Range:** [Text field] ~ [Text field] (Value Range: 0 ~ 63)
- 802.1p:** [Text field] ~ [Text field]
- Action**
 - IPP/DS Field:** IPP/TOS DSCP
 - IP Precedence Remarking:** [Dropdown menu]
 - Type of Service Remarking:** [Text field]
 - DSCP Remarking:** [Text field] (Value Range: 0 ~ 63)
 - 802.1p Remarking:** [Text field]
 - Queue #:** High

Buttons for 'Apply' and 'Delete' are located at the bottom right of the form.

ในการตั้งค่าจะต้องระบุโปรโตคอล และพอร์ตที่ใช้ เพราะว่า ต้องการให้ Mail มี Priority สูงรองจาก DVR ให้เลือกเป็นลำดับความสำคัญเป็น High แล้วคลิกเพื่อบันทึกการตั้งค่า

3. Add Web rule

Network Tools

Routing

URL Redirect

Internet Online

Reboot Logout

Rule

Rule Index : 2

Active : Activated Deactivated

Application :

Physical Ports : eth0 eth1 eth2 eth3 ra0 rai0

Destination MAC :

IP :

Mask :

Port Range : ~

Source MAC :

IP :

Mask :

Port Range : 80 ~ 80

Protocol ID : TCP

VLAN ID Range : ~

IPP/DS Field : IPP/TOS DSCP

IP Precedence Range : ~

Type of Service :

DSCP Range : ~ (Value Range: 0 ~ 63)

802.1p : ~

Action

IPP/DS Field : IPP/TOS DSCP

IP Precedence Remarking :

Type of Service Remarking :

DSCP Remarking : (Value Range: 0 ~ 63)

802.1p Remarking : ~

Queue # : Medium

Apply Delete

ในการตั้งค่าจะต้องระบุโปรโตคอล และพอร์ตที่ใช้ เพราะว่า ต้องการให้ WEB มี Priority สูงรองจาก DVR และ Mail ให้เลือกเป็นลำดับความสำคัญเป็น Medium แล้วคลิกเพื่อบันทึกการตั้งค่า

D-Link[®] Technical Support Setup Procedure

- **How do I configure of QoS on my router?**

Step 1: Open your Internet browser and enter `http://192.168.1.1` into the address bar.



Enter your login information. If you have not changed the default settings, the

- **Username** field is Admin and
- **Password** field should Admin. Click **Login**.



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Step 2: Click on the **Status** Tab at the top and then click **Device Info** on the left side as shown (WAN Connection include Bridge , MER , PPPoE)

The screenshot displays the web management interface for a D-Link DSL-2877AL router. At the top, there are navigation tabs: SETUP, ADVANCED, MAINTENANCE, and STATUS. The STATUS tab is selected. On the left sidebar, there are links for Device Info, System Log, Statistics, and Storage Info. The Device Info link is highlighted, and below it, there is an 'Internet Online' indicator and 'Reboot' and 'Logout' buttons. The main content area is titled 'DEVICE' and contains a sub-section 'GENERAL' with the following information:

- Current Time : Tue Jun 23 20:19:11 2015
- Uptime : 0d: 0h:21m:46s
- DSL Firmware Version : FwVer:5.5.1.23_A_A60901 HwVer:T14.F7_0.1
- Firmware Version : 1.00.11TH
- Build Timestamp : 03232015

Below the GENERAL section is the 'INTERNET STATUS' section, which shows the following details:

- Interface: PVC0
- Connection Type: Dynamic IP
- Status: Connected
- IP Address: 10.2.76.113 (with renewIP and releaseIP buttons)
- Subnet Mask: 255.255.255.0
- Default Gateway: 10.2.76.254
- DNS Server : 8.8.8.8 10.2.76.2
- IPv6: Not Connected
- IP Address: N/A (with renewIPv6 and releaseIPv6 buttons)
- Prefix Length: N/A
- Default Gateway: N/A
- DNS Server: N/A
- Prefix Delegation: N/A

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Step 3: Click on the **Advance** Tab at the top and then click **Enable QoS : Advanced > Network Tools > QoS > Enabled QoS Activated**



Step 4: Click Add, delete, edit QoS rules : **ADVANCED→Network Tools→QoS**
Example for edit QoS Rule

1. Add DVR rule

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The screenshot displays a network configuration page for a QoS rule. The sidebar on the left contains 'Network Tools', 'Routing', and 'URL Redirect' sections, with 'Internet Online' status and 'Reboot'/'Logout' buttons. The main configuration area is titled 'Rule' and includes the following fields:

- Rule Index:** 0
- Active:** Activated Deactivated
- Application:** [Dropdown]
- Physical Ports:** eth0, eth1, eth2, eth3, ra0, ral0
- Destination MAC:** [Text]
- IP:** [Text]
- Mask:** [Text]
- Port Range:** [Text] ~ [Text]
- Source MAC:** [Text]
- IP:** 192.168.0.101
- Mask:** [Text]
- Port Range:** 8081 ~ 8081
- Protocol ID:** TCP/UDP
- VLAN ID Range:** [Text] ~ [Text]
- IPP/DS Field:** IPP/TOS DSCP
- IP Precedence Range:** [Text] ~ [Text]
- Type of Service:** [Dropdown]
- DSCP Range:** [Text] ~ [Text] (Value Range: 0 ~ 63)
- 802.1p:** [Text] ~ [Text]
- Action:**
- IPP/DS Field:** IPP/TOS DSCP
- IP Precedence Remarking:** [Dropdown]
- Type of Service Remarking:** [Dropdown]
- DSCP Remarking:** [Text] (Value Range: 0 ~ 63)
- 802.1p Remarking:** [Dropdown]
- Queue #:** Highest

Buttons for 'Apply' and 'Delete' are located at the bottom of the configuration area.

In accordance with the actual DVR PC IP address and port number set, because the DVR is the highest priority, in classify queue selects the highest priority queue click the apply button to save.

Note: If use interface eth0 for DVR service, please select eth0 port, etc.

2. Add Mail rule

The screenshot displays the configuration page for a network rule. The interface includes a sidebar with 'Network Tools', 'Routing', and 'URL Redirect' options, along with 'Reboot' and 'Logout' buttons. The main configuration area is titled 'Rule' and contains the following fields:

- Rule Index:** 1
- Active:** Activated Deactivated
- Application:** [Dropdown menu]
- Physical Ports:** eth0 eth1 eth2 eth3 ra0 rai0
- Destination MAC:** [Text input]
- IP:** [Text input]
- Mask:** [Text input]
- Port Range:** [Text input] ~ [Text input]
- Source MAC:** [Text input]
- IP:** [Text input]
- Mask:** [Text input]
- Port Range:** 25 ~ 25
- Protocol ID:** TCP
- VLAN ID Range:** [Text input] ~ [Text input]
- IPP/DS Field:** IPP/TOS DSCP
- IP Precedence Range:** [Text input] ~ [Text input]
- Type of Service:** [Text input]
- DSCP Range:** [Text input] ~ [Text input] (Value Range: 0 ~ 63)
- 802.1p:** [Text input] ~ [Text input]
- Action:**
- IPP/DS Field:** IPP/TOS DSCP
- IP Precedence Remarking:** [Text input]
- Type of Service Remarking:** [Text input]
- DSCP Remarking:** [Text input] (Value Range: 0 ~ 63)
- 802.1p Remarking:** [Text input]
- Queue #:** High

Buttons for 'Apply' and 'Delete' are located at the bottom of the configuration area.

Configure the protocol and port number for the Mail, and configure the queue for a second priority queue.

3. Add Web rule

The screenshot shows a web-based configuration interface for a network device. On the left is a sidebar with 'Network Tools', 'Routing', and 'URL Redirect' sections. The main area is titled 'Rule' and contains the following configuration options:

- Rule Index:** 2
- Active:** Activated, Deactivated
- Application:** [Dropdown menu]
- Physical Ports:** eth0, eth1, eth2, eth3, ra0, rai0
- Destination MAC:** [Text field]
- IP:** [Text field]
- Mask:** [Text field]
- Port Range:** [Text field] ~ [Text field]
- Source MAC:** [Text field]
- IP:** [Text field]
- Mask:** [Text field]
- Port Range:** 80 ~ 80
- Protocol ID:** TCP
- VLAN ID Range:** [Text field] ~ [Text field]
- IPP/DS Field:** IPP/TOS, DSCP
- IP Precedence Range:** [Dropdown] ~ [Dropdown]
- Type of Service:** [Dropdown]
- DSCP Range:** [Text field] ~ [Text field] (Value Range: 0 ~ 63)
- 802.1p:** [Dropdown] ~ [Dropdown]
- Action:**
 - IPP/DS Field:** IPP/TOS, DSCP
 - IP Precedence Remarking:** [Dropdown]
 - Type of Service Remarking:** [Dropdown]
 - DSCP Remarking:** [Text field] (Value Range: 0 ~ 63)
 - 802.1p Remarking:** [Dropdown]
 - Queue #:** Medium

Buttons for 'Apply' and 'Delete' are located at the bottom right of the configuration area.

Configure the protocol used by WEB, and port number, and configure the queue for a third priority queue.

ฝ่ายสนับสนุนทางด้านเทคนิค

Call Center หมายเลขโทรศัพท์ 02-6617997

ภาษาไทย : จันทร์ ถึง ศุกร์ เวลา 9.00 น. – 18.00 น.

Thai : Mon – Fri : Time 9.00 – 18.00.

ภาษาอังกฤษ : เสาร์ , อาทิตย์ , วันหยุดนซ์ตฤกษ์ และ วันธรรมดา หลัง 18.00 น.

English : Sat – Sun , Public Holiday and after 18.00 weekday.

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Facebook : <http://www.facebook.com/DLinkThailandFans>

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