



# Private VLANs

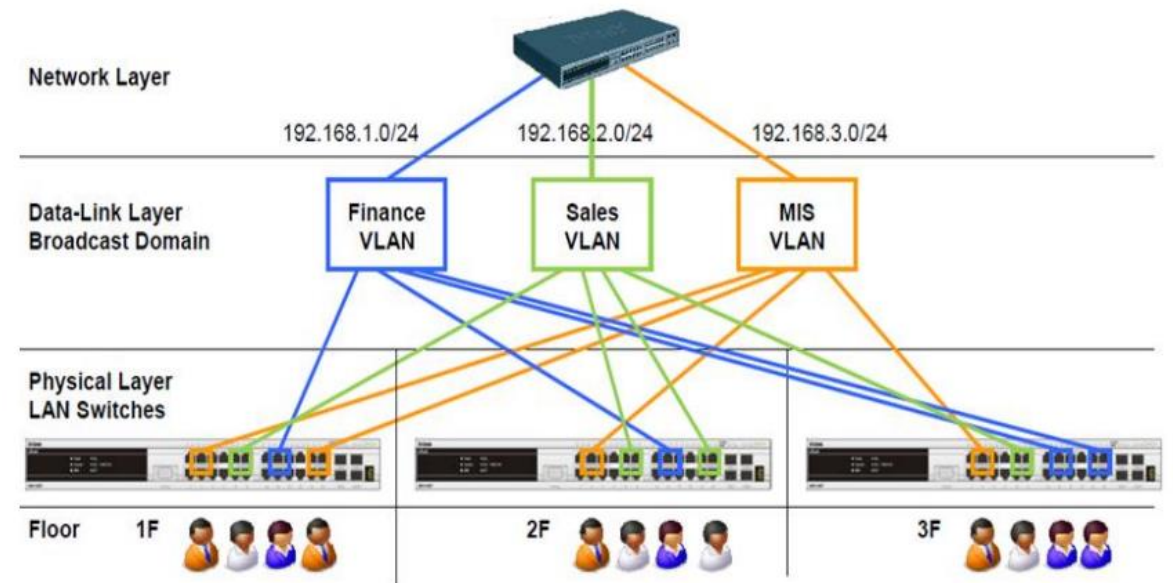
Filtrado selectivo  
en Switches D-Link



**Alberto LM**  
**Presales Engineer**  
**D-Link Iberia**

## ■ Qué vamos a ver

- Segmentación de tráfico con VLANs
- Private VLANs para un filtrado selectivo
- Switching de gama media-alta de D-Link
- Traffic Segmentation
- Asymmetric VLAN
- Private VLAN – Hands-on



**VIDEO YA DISPONIBLE AQUI**  
[https://youtu.be/G7BPGh\\_zNsw](https://youtu.be/G7BPGh_zNsw)

# Segmentación de tráfico con VLANs

## DGS-1100V2 Series Smart Managed Switches

Software Features (DGS-1100-05V2/05PDV2/08V2/08PV2/08PLV2)		
VLAN	<ul style="list-style-type: none"> <li>Port-based VLAN</li> <li>802.1Q tagged VLAN</li> <li>Surveillance VLAN</li> <li>Voice VLAN</li> <li>Management VLAN</li> </ul>	<ul style="list-style-type: none"> <li>VLAN Group</li> <li>Supports 32 static VLAN groups</li> <li>Max. 4094 VIDs</li> <li>Asymmetric VLAN</li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>Flow Control                             <ul style="list-style-type: none"> <li>802.3x Flow Control</li> <li>HOL Blocking Prevention</li> </ul> </li> <li>Jumbo frames up to 9216 bytes</li> <li>IGMP Snooping                             <ul style="list-style-type: none"> <li>IGMP v1/v2 Snooping</li> <li>Supports 128 Groups</li> </ul> </li> <li>Static Trunk                             <ul style="list-style-type: none"> <li>DGS-1100-05V2/05PDV2: 1 group</li> <li>DGS-1100-08V2/08PV2: 2 groups</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Loopback Detection</li> <li>Cable diagnostics</li> <li>Port mirroring                             <ul style="list-style-type: none"> <li>One-to-One</li> <li>Many-to-One</li> </ul> </li> <li>Statistics                             <ul style="list-style-type: none"> <li>Tx Ok</li> <li>Tx Error</li> <li>Rx Ok</li> <li>Rx Error</li> </ul> </li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>802.1p Quality of Service</li> <li>4 queues per port</li> <li>Queue handling                             <ul style="list-style-type: none"> <li>Strict</li> <li>Weighted Round Robin (WRR)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Bandwidth control                             <ul style="list-style-type: none"> <li>Port-based (Ingress/Egress, min. granularity 8 Kb/s)</li> </ul> </li> <li>DSCP</li> </ul>
Security	<ul style="list-style-type: none"> <li>Static MAC addresses                             <ul style="list-style-type: none"> <li>Up to 32 entries</li> </ul> </li> <li>Traffic segmentation</li> </ul>	<ul style="list-style-type: none"> <li>Broadcast/Multicast/Unknown Unicast Storm Control</li> <li>Port security</li> </ul>
Management	<ul style="list-style-type: none"> <li>Web-based GUI (Supports IPv4)</li> </ul>	<ul style="list-style-type: none"> <li>D-Link Network Assistant (DNA)</li> </ul>
Green Technology	<ul style="list-style-type: none"> <li>Compliant with RoHS 10</li> </ul>	<ul style="list-style-type: none"> <li>Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE)</li> </ul>
RFC Standard List	<ul style="list-style-type: none"> <li>RFC768 UDP</li> <li>RFC791 IP</li> <li>RFC792 ICMP</li> <li>RFC793 TCP</li> <li>RFC826 ARP</li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.1p</li> <li>RFC2236, IGMP Snooping</li> <li>RFC1213 MIBII</li> <li>RFC1215 MIB Traps Convention</li> </ul>

## D-Link® Gama DSS-200G Series switches de vigilancia Gigabit PoE++ Smart Managed

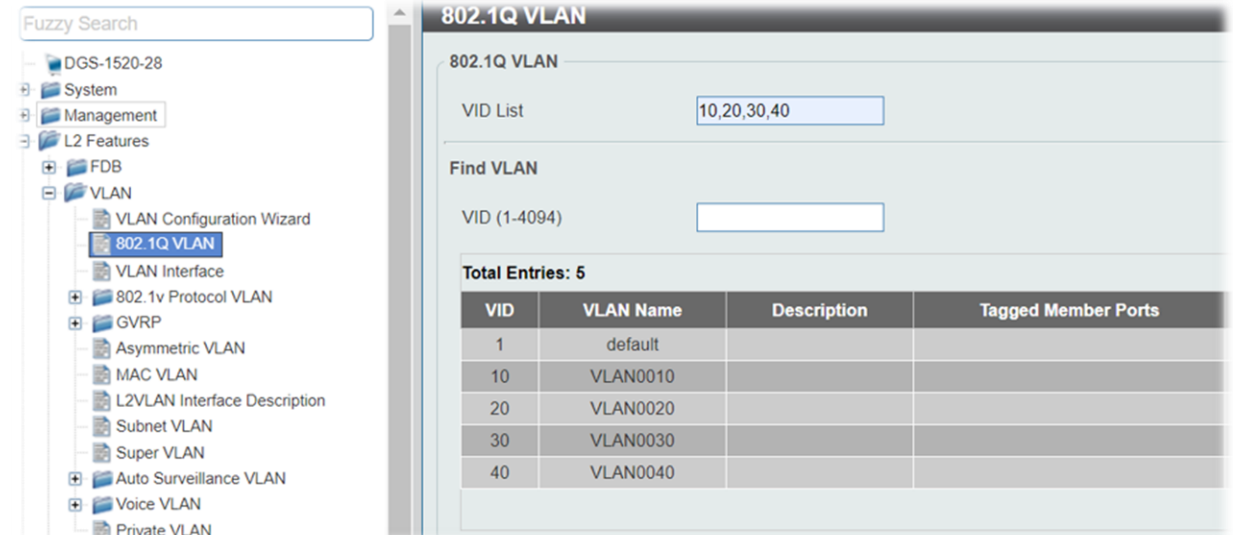
Características físicas				
Entrada de alimentación	<ul style="list-style-type: none"> <li>100 a 240 V CA</li> <li>Fuente de alimentación interna de 50 a 60 Hz</li> </ul>			
MTBF	345.045 horas	508.112 horas	331.732 horas	289.075 horas
Acústica	0 dB(A)	50,6 dB(A)	53 dB(A)	55 dB(A)
Disipación del calor	103,05 BTU/h	87,00 BTU/h	190,74 BTU/h	209,16 BTU/h
Peso	1,55 kg	2,05 kg	2,86 kg	4,71 kg
Dimensiones	280 x 180 x 44 mm	280 x 230 x 44 mm	440 x 208 x 44 mm	440 x 330 x 44 mm
Ventiladores	N/A (sin ventilador)	1	2	
Temperatura operativa	-5 a 50 °C (23 a 122 °F)			
Temperatura de almacenamiento	-40 a 70 °C (-40 a 158 °F)			
Humedad de funcionamiento	0 % a 95 % sin condensación			
Humedad de almacenamiento	0 % a 95 % sin condensación			
EMI	FCC/IC, CE, BSMI			
Seguridad	cUL, UL, LVD, CB, BSMI			
Modos de funcionamiento (switch DIP)				
QoS (prioridad de puerto)	Puertos 1-8	Puertos 1-8	Puertos 1-24	Puertos 1-24
Ampliación (hasta 250 M a 10 Mbps)	DIP: Puertos 1-4 Interfaz web: Puertos 1-4	DIP: Puertos 1-4 Interfaz web: Puertos 1-8	DIP: Puertos 1-8 Interfaz web: Puertos 1-8	DIP: Puertos 1-8 Interfaz web: Puertos 1-24
Aislamiento (de tráfico por puerto)	Puertos 1-8	Puertos 1-8	Puertos 1-24	Puertos 1-24
PD-Alive	Puertos 1-8	Puertos 1-8	Puertos 1-24	Puertos 1-24
STP	Puertos 7-8	Puertos 7-8	Puertos 25-28	Puertos 25-28

Características de software		
VLAN	<ul style="list-style-type: none"> <li>VLAN basada en puerto</li> <li>802.1Q VLAN Tagged</li> <li>AutoSurveillance VLAN</li> <li>AutoVoice VLAN</li> <li>Administración de VLAN</li> </ul>	<ul style="list-style-type: none"> <li>VLAN asimétrica</li> <li>Grupo de VLAN</li> <li>Admite 128 grupos de VLAN estáticas</li> <li>Máx. 4094 VID</li> </ul>

• 802.1Q tagged VLAN

# Segmentación de tráfico con VLANs

- Divide y vencerás
- Facilitar el troubleshooting
- Actualizaciones escalables
- Aislar tráfico entre departamentos
- Mejora del rendimiento de la infraestructura
- Tests independientes sin afectar a toda la red



Fuzzy Search

DGS-1520-28

- System
- Management
- L2 Features
  - FDB
  - VLAN
    - VLAN Configuration Wizard
    - 802.1Q VLAN**
    - VLAN Interface
  - 802.1v Protocol VLAN
  - GVRP
    - Asymmetric VLAN
    - MAC VLAN
    - L2VLAN Interface Description
    - Subnet VLAN
    - Super VLAN
  - Auto Surveillance VLAN
  - Voice VLAN
  - Private VLAN

802.1Q VLAN

802.1Q VLAN

VID List

Find VLAN

VID (1-4094)

Total Entries: 5

VID	VLAN Name	Description	Tagged Member Ports
1	default		
10	VLAN0010		
20	VLAN0020		
30	VLAN0030		
40	VLAN0040		

# Private VLANs para un filtrado selectivo

- Aislamiento de redes sin ACLs
- Dividir un dominio de broadcast
- Diferentes permisos en cada subdominio
- Parejas VLAN primaria con secundaria
- Sólo una VLAN primaria por dominio

Private VLAN

Private VLAN

VID List: 3 or 2-5 State: Disabled Type: Community Apply

Private VLAN Association

VID List: 3 or 2-5 Action: Add Secondary VID List: 3 or 2-5 Apply

Private VLAN Host Association

From Port: eth1/0/1 To Port: eth1/0/1 Primary VID: Secondary VID: Remove Association Apply

Private VLAN Mapping

From Port: eth1/0/5 To Port: eth1/0/8 Primary VID: 10 Action: Add Secondary VID List: 20,30,40 Remove Mapping Apply

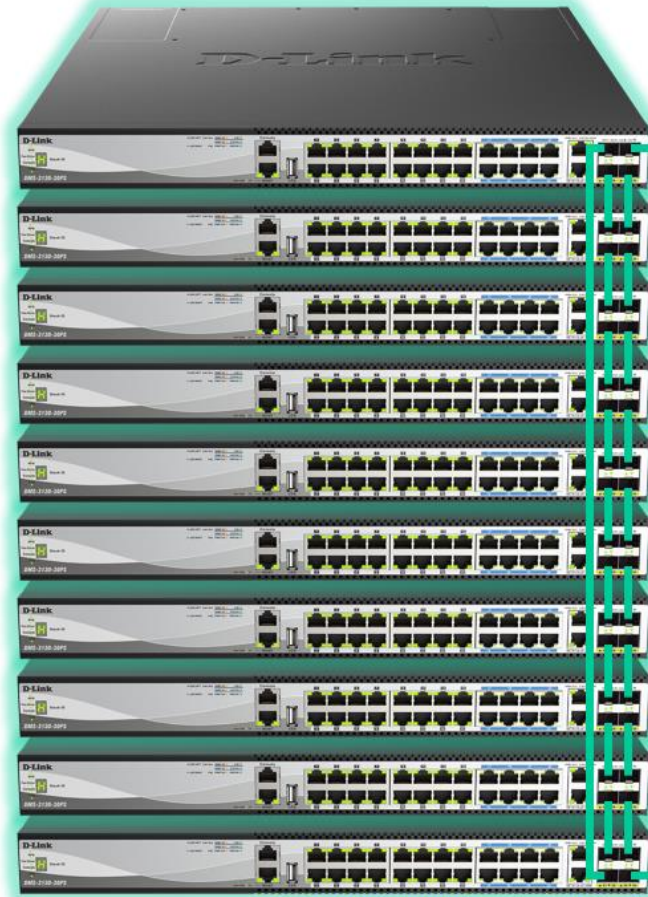
Total Entries: 3

Primary VLAN	Secondary VLAN	Type	Interface
10	40	Isolated	1/0/5-1/0/8, 1/0/17-1/0/20
10	20	Community	1/0/5-1/0/12
10	30	Community	1/0/5-1/0/8, 1/0/13-1/0/16

# Switching de gama media-alta de D-Link



**DGS-1520**



**DMS-3130**



**DGS-3630**



**DXS-3400**



**DGS-3130**



**DXS-3610**

# Traffic Segmentation

## DGS-1100V2 Series Smart Managed Switches

Software Features (DGS-1100-05V2/05PDV2/08V2/08PV2/08PLV2)		
VLAN	<ul style="list-style-type: none"> <li>• Port-based VLAN</li> <li>• 802.1Q tagged VLAN</li> <li>• Surveillance VLAN</li> <li>• Voice VLAN</li> <li>• Management VLAN</li> </ul>	<ul style="list-style-type: none"> <li>• VLAN Group</li> <li>• Supports 32 static VLAN groups</li> <li>• Max. 4094 VLANs</li> <li>• Asymmetric VLAN</li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>• Flow Control                             <ul style="list-style-type: none"> <li>• 802.3x Flow Control</li> <li>• HOL Blocking Prevention</li> </ul> </li> <li>• Jumbo frames up to 9216 bytes</li> <li>• IGMP Snooping                             <ul style="list-style-type: none"> <li>• IGMP v1/v2 Snooping</li> <li>• Supports 128 Groups</li> </ul> </li> <li>• Static Trunk                             <ul style="list-style-type: none"> <li>• DGS-1100-05V2/05PDV2: 1 group</li> <li>• DGS-1100-08V2/08PV2: 2 groups</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Loopback Detection</li> <li>• Cable diagnostics</li> <li>• Port mirroring                             <ul style="list-style-type: none"> <li>• One-to-One</li> <li>• Many-to-One</li> </ul> </li> <li>• Statistics                             <ul style="list-style-type: none"> <li>• Tx Ok</li> <li>• Tx Error</li> <li>• Rx Ok</li> <li>• Rx Error</li> </ul> </li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>• 802.1p Quality of Service</li> <li>• 4 queues per port</li> <li>• Queue handling                             <ul style="list-style-type: none"> <li>• Strict</li> <li>• Weighted Round Robin (WRR)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bandwidth control                             <ul style="list-style-type: none"> <li>• Port-based (Ingress/Egress, min. granularity 8 Kb/s)</li> </ul> </li> <li>• DSCP</li> </ul>
Security	<ul style="list-style-type: none"> <li>• Static MAC addresses                             <ul style="list-style-type: none"> <li>• Up to 32 entries</li> </ul> </li> <li>• Traffic segmentation</li> </ul>	
Management	<ul style="list-style-type: none"> <li>• Web-based GUI (Supports IPv4)</li> </ul>	
Green Technology	<ul style="list-style-type: none"> <li>• Compliant with RoHS 10</li> </ul>	<ul style="list-style-type: none"> <li>• Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE)</li> </ul>
RFC Standard List	<ul style="list-style-type: none"> <li>• RFC768 UDP</li> <li>• RFC791 IP</li> <li>• RFC792 ICMP</li> <li>• RFC793 TCP</li> <li>• RFC826 ARP</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.1p</li> <li>• RFC2236, IGMP Snooping</li> <li>• RFC1213 MIBII</li> <li>• RFC1215 MIB Traps Convention</li> </ul>

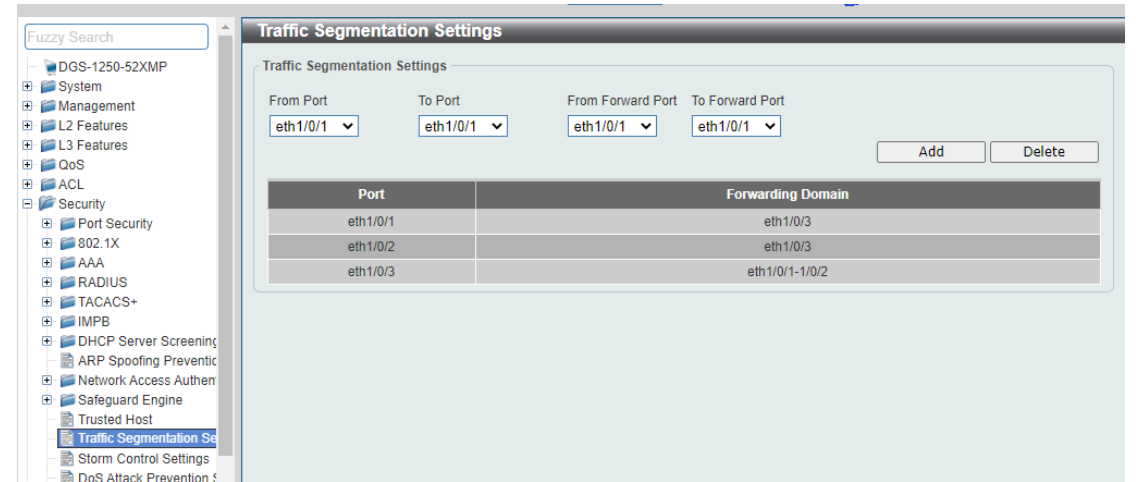
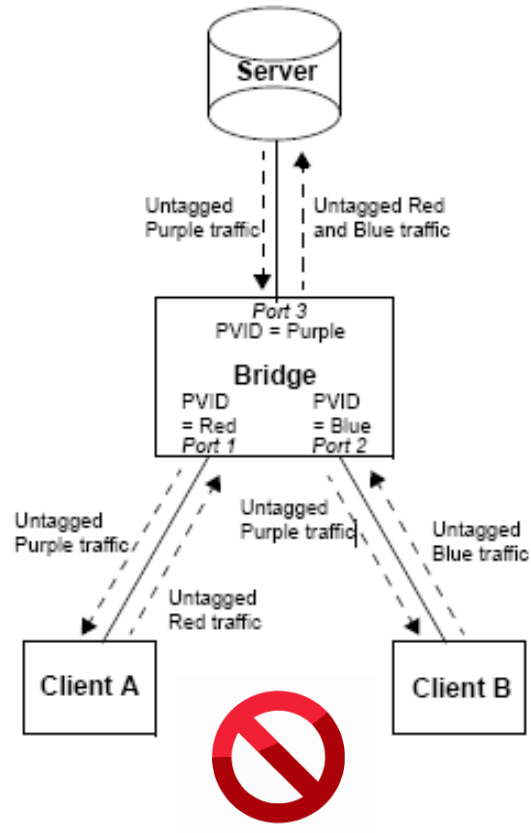


• Traffic segmentation

# Traffic Segmentation

member sets:  
*Purple* - Ports 1 and 2  
*Red* - Port 3  
*Blue* - Port 3

untagged sets:  
*Purple* - Ports 1 and 2  
*Red* - Port 3  
*Blue* - Port 3



```

config t
interface ethernet 1/0/1
traffic-segmentation forward interface ethernet 1/0/3
exit

interface ethernet 1/0/2
traffic-segmentation forward interface ethernet 1/0/3
exit

interface ethernet 1/0/3
traffic-segmentation forward interface ethernet 1/0/1-2
exit
show traffic-segmentation forward
    
```

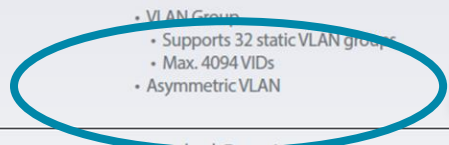


# Asymmetric VLAN

## DGS-1100V2 Series Smart Managed Switches

### Software Features (DGS-1100-05V2/05PDV2/08V2/08PV2/08PLV2)

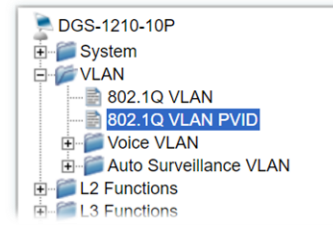
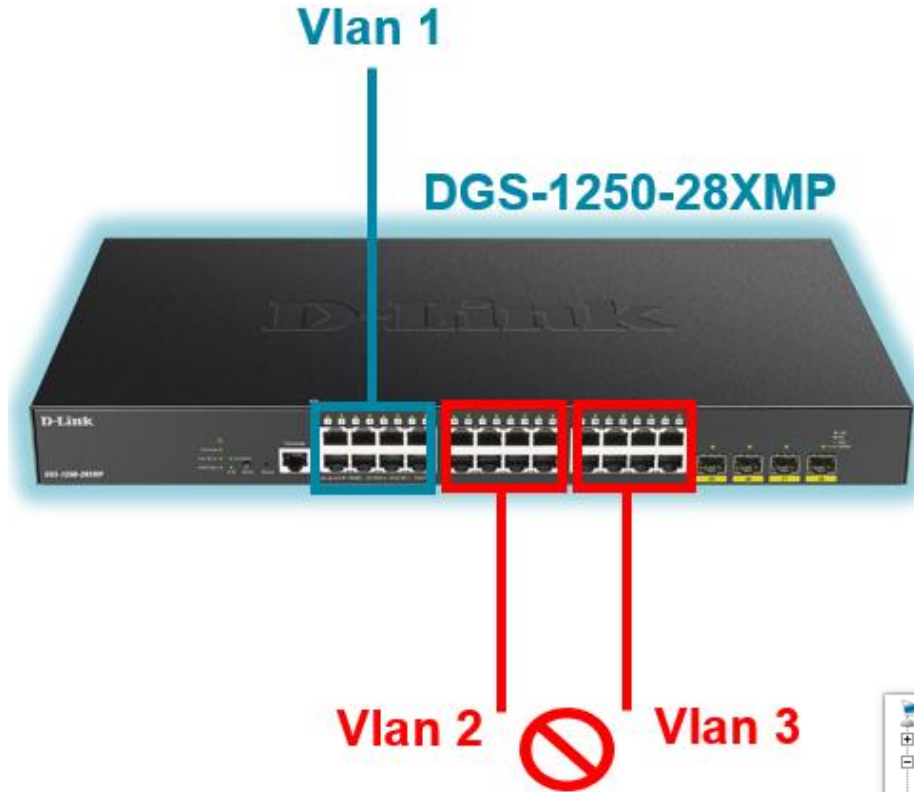
VLAN	<ul style="list-style-type: none"> <li>Port-based VLAN</li> <li>802.1Q tagged VLAN</li> <li>Surveillance VLAN</li> <li>Voice VLAN</li> <li>Management VLAN</li> </ul>	<ul style="list-style-type: none"> <li>VLAN Group                             <ul style="list-style-type: none"> <li>Supports 32 static VLAN groups</li> <li>Max. 4094 VLANs</li> </ul> </li> <li>Asymmetric VLAN</li> </ul>
L2 Features	<ul style="list-style-type: none"> <li>Flow Control                             <ul style="list-style-type: none"> <li>802.3x Flow Control</li> <li>HOL Blocking Prevention</li> </ul> </li> <li>Jumbo frames up to 9216 bytes</li> <li>IGMP Snooping                             <ul style="list-style-type: none"> <li>IGMP v1/v2 Snooping</li> <li>Supports 128 Groups</li> </ul> </li> <li>Static Trunk                             <ul style="list-style-type: none"> <li>DGS-1100-05V2/05PDV2: 1 group</li> <li>DGS-1100-08V2/08PV2: 2 groups</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Loopback Detection</li> <li>Cable diagnostics</li> <li>Port mirroring                             <ul style="list-style-type: none"> <li>One-to-One</li> <li>Many-to-One</li> </ul> </li> <li>Statistics                             <ul style="list-style-type: none"> <li>Tx Ok</li> <li>Tx Error</li> <li>Rx Ok</li> <li>Rx Error</li> </ul> </li> </ul>
Quality of Service (QoS)	<ul style="list-style-type: none"> <li>802.1p Quality of Service</li> <li>4 queues per port</li> <li>Queue handling                             <ul style="list-style-type: none"> <li>Strict</li> <li>Weighted Round Robin (WRR)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Bandwidth control                             <ul style="list-style-type: none"> <li>Port-based (Ingress/Egress, min. granularity 8 Kb/s)</li> </ul> </li> <li>DSCP</li> </ul>
Security	<ul style="list-style-type: none"> <li>Static MAC addresses                             <ul style="list-style-type: none"> <li>Up to 32 entries</li> </ul> </li> <li>Traffic segmentation</li> </ul>	<ul style="list-style-type: none"> <li>Broadcast/Multicast/Unknown Unicast Storm Control</li> <li>Port security</li> </ul>
Management	<ul style="list-style-type: none"> <li>Web-based GUI (Supports IPv4)</li> </ul>	<ul style="list-style-type: none"> <li>D-Link Network Assistant (DNA)</li> </ul>
Green Technology	<ul style="list-style-type: none"> <li>Compliant with RoHS 10</li> </ul>	<ul style="list-style-type: none"> <li>Compliant with IEEE 802.3az Energy Efficient Ethernet (EEE)</li> </ul>
RFC Standard List	<ul style="list-style-type: none"> <li>RFC768 UDP</li> <li>RFC791 IP</li> <li>RFC792 ICMP</li> <li>RFC793 TCP</li> <li>RFC826 ARP</li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.1p</li> <li>RFC2236, IGMP Snooping</li> <li>RFC1213 MIBII</li> <li>RFC1215 MIB Traps Convention</li> </ul>



• Asymmetric VLAN



# Asymmetric VLAN



### 802.1Q Asymmetric VLAN Settings

Asymmetric VLAN [\[ Example \]](#)  Enabled  Disabled Apply

Total static VLAN entries: 3 Add  
 Maximum 256 entries.

VID	VLAN Name	Untagged	Tagged	Delete
1	default	01-10		Delete
2	VLAN2	03-04		Delete
3	VLAN3	05-06		Delete

### VID Settings

VID:   
 VLAN Name:   
 Maximum 20 characters. Back Apply

Port	Select All	01	02	03	04	05	06	07	08	09	10
Untagged	All	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tagged	All	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not member	All	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

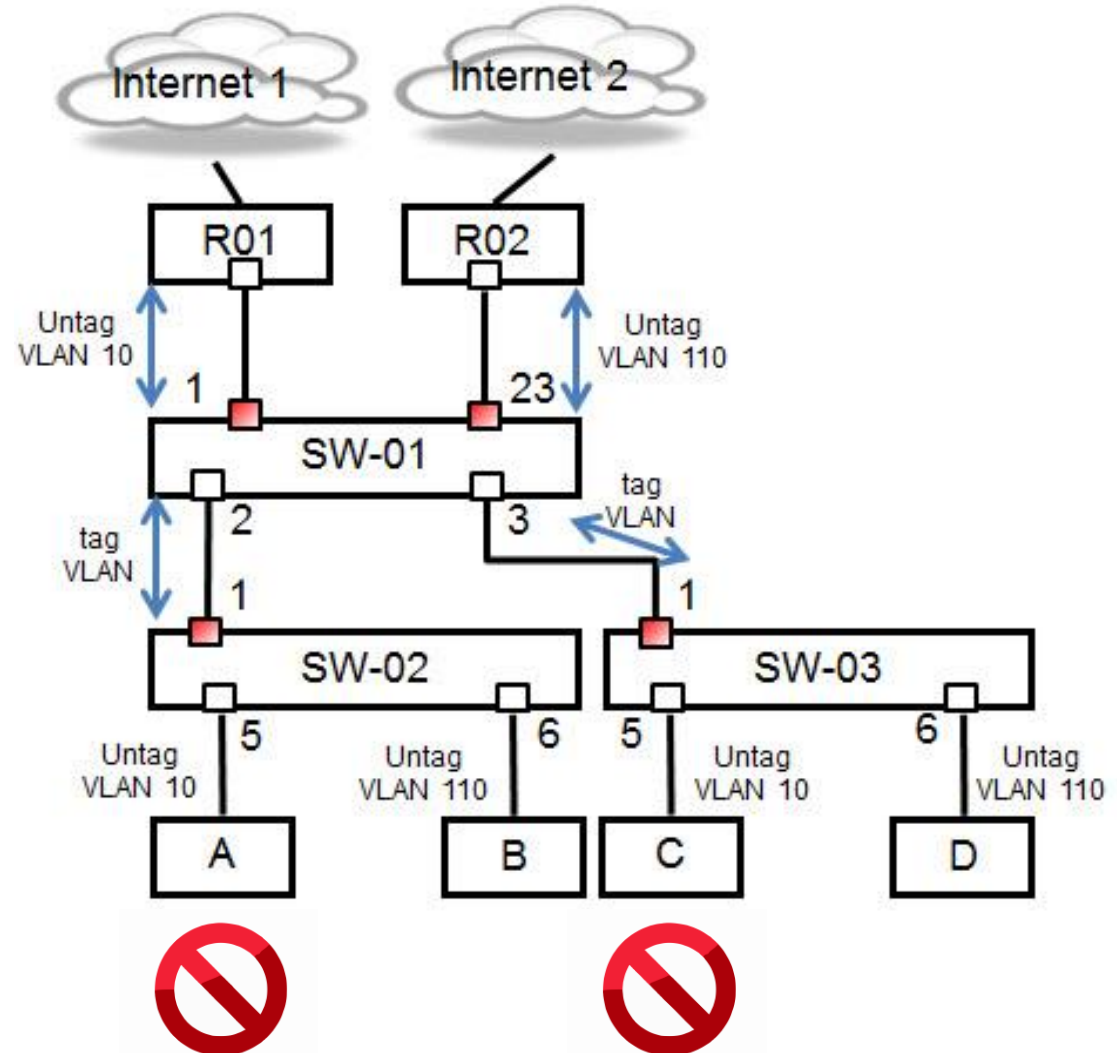
### 802.1Q VLAN PVID Settings

Port	01	02	03	04	05	06	07	08	09	10
PVID	1	1	2	2	3	3	1	1	1	1

Apply

## Private VLAN

- Podemos incluso filtrar el tráfico dentro de una misma VLAN
- y permitir el de otras según sean:
  - VLAN comunidad (*community*)
  - VLAN aislada (*isolated*)



# Private VLAN

Primer paso: creación de VLANs

Fuzzy Search

- DGS-1520-28
  - System
  - Management
  - L2 Features
    - FDB
    - VLAN
      - VLAN Configuration Wizard
      - 802.1Q VLAN**
      - VLAN Interface
    - 802.1v Protocol VLAN
    - GVRP
      - Asymmetric VLAN
      - MAC VLAN
      - L2VLAN Interface Description
      - Subnet VLAN
      - Super VLAN
    - Auto Surveillance VLAN
    - Voice VLAN
    - Private VLAN

**802.1Q VLAN**

802.1Q VLAN

VID List

Find VLAN

VID (1-4094)

Total Entries: 5

VID	VLAN Name	Description	Tagged Member Ports	Untagged Member Ports	VLAN Type		
1	default			1/0/1-1/0/28		<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
10	VLAN0010					<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
20	VLAN0020					<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
30	VLAN0030					<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
40	VLAN0040					<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

1/1 < < 1 > > Go

```
DGS-1520-28#configure terminal
DGS-1520-28(config)#vlan 10,20,30,40
DGS-1520-28(config-vlan)#
```

# Private VLAN

Editamos sus nombres

802.1Q VLAN

802.1Q VLAN

VID List  Apply Delete

Find VLAN

VID (1-4094)  Find Show All

Total Entries: 5

VID	VLAN Name	Description	Tagged Member Ports	Untagged Member Ports	VLAN Type		
1	default			1/0/1-1/0/28		<span>Edit</span>	<span>Delete</span>
10	<input type="text" value="PRIMARY"/>					<span>Apply</span>	<span>Delete</span>
20	DPT_A					<span>Edit</span>	<span>Delete</span>
30	DPT_B					<span>Edit</span>	<span>Delete</span>
40	GUEST					<span>Edit</span>	<span>Delete</span>

1/1 |< < 1 > >|  Go

```
DGS-1520-28#configure terminal
DGS-1520-28(config)#vlan 10
DGS-1520-28(config-vlan)#name PRIMARY
DGS-1520-28(config-vlan)#
```

# Private VLAN

Añadimos una descripción para dar más detalles

**L2VLAN Interface Description**

Create L2VLAN Interface Description

L2VLAN Interface: 20  
Description: Sales Department  
Apply

Find L2VLAN Interface Description

L2VLAN Interface:   
Find Show All

Total Entries: 5

Interface	Status	Administrative	Description	
L2VLAN 1	down	enabled		Delete Description
L2VLAN 10	down	enabled	Internet	Delete Description
L2VLAN 20	down	enabled	Sales Department	Delete Description
L2VLAN 30	down	enabled	Marketing Department	Delete Description
L2VLAN 40	down	enabled	Guest Vlan	Delete Description

1/1 < < 1 > > Go

```
DGS-1520-28#configure terminal
DGS-1520-28 (config)#interface l2vlan 20
DGS-1520-28 (config-if)#description Sales Department
DGS-1520-28 (config-if)#
```

# Private VLAN

Editamos las vlans primarias y secundarias

The screenshot displays the 'Private VLAN' configuration page. On the left, a navigation tree shows the hierarchy: DGS-1520-28 > System > Management > L2 Features > FDB > VLAN > Private VLAN. The main configuration area includes:

- Private VLAN:** VID List (20,30), State (Enabled), Type (Community).
- Private VLAN Association:** VID List (3 or 2-5), Action (Add), Secondary VID List (3 or 2-5).
- Private VLAN Host Association:** From Port (eth1/0/1), To Port (eth1/0/1), Primary VID, Secondary VID, and a Remove Association checkbox.
- Private VLAN Mapping:** From Port (eth1/0/1), To Port (eth1/0/1), Primary VID, Action (Add), Secondary VID List (3 or 2-5), and a Remove Mapping checkbox.

At the bottom, a table summarizes the configuration:

Primary VLAN	Secondary VLAN	Type	Interface
10		Primary	
	20	Community	
	30	Community	
	40	Isolated	

```
DGS-1520-28#configure terminal
DGS-1520-28 (config)#vlan 20,30
DGS-1520-28 (config-vlan)#private-vlan ?
  association  Associate the secondary vlan
  community   Specify the VLAN as a community VLAN
  isolated    Specify the VLAN as a isolated VLAN
  primary     Specify the VLAN as a primary VLAN

DGS-1520-28 (config-vlan)#private-vlan community
DGS-1520-28 (config-vlan)#
```

# Private VLAN

Asociar las VLANs secundarias a la primaria

The screenshot displays the configuration page for Private VLAN on a D-Link device. The left sidebar shows a tree view with 'Private VLAN' selected. The main content area is divided into several sections:

- Private VLAN:** VID List: 3 or 2-5, State: Disabled, Type: Community. [Apply]
- Private VLAN Association:** VID List: 10, Action: Add, Secondary VID List: 20,30,40. [Apply]
- Private VLAN Host Association:** From Port: eth1/0/1, To Port: eth1/0/1, Primary VID: [ ], Secondary VID: [ ], [ ] Remove Association. [Apply]
- Private VLAN Mapping:** From Port: eth1/0/1, To Port: eth1/0/1, Primary VID: [ ], Action: Add, Secondary VID List: 3 or 2-5, [ ] Remove Mapping. [Apply]

**Total Entries: 3**

Primary VLAN	Secondary VLAN	Type	Interface
10	40	Isolated	
10	20	Community	
10	30	Community	

```
DGS-1520-28#configure terminal
DGS-1520-28 (config)#vlan 10
DGS-1520-28 (config-vlan)#private-vlan association add 20,30,40
DGS-1520-28 (config-vlan)#
```



# Private VLAN

Configuramos los puertos como Host o Promiscuous

Fuzzy Search

DGS-1520-28

- System
- Management
- L2 Features
  - FDB
  - VLAN
    - VLAN Configuration Wizard
    - 802.1Q VLAN
    - VLAN Interface

### Configure VLAN Interface

Configure VLAN Interface

Port: eth1/0/5

VLAN Mode: Promiscuous

Acceptable Frame: Admit All

Ingress Checking:  Enabled  Disabled

Clone

From Port: eth1/0/6

To Port: eth1/0/8

Back Apply

Fuzzy Search

DGS-1520-28

- System
- Management
- L2 Features
  - FDB
  - VLAN
    - VLAN Configuration Wizard
    - 802.1Q VLAN
    - VLAN Interface

### Configure VLAN Interface

Configure VLAN Interface

Port: eth1/0/9

VLAN Mode: Host

Acceptable Frame: Admit All

Ingress Checking:  Enabled  Disabled

Clone

From Port: eth1/0/10

To Port: eth1/0/20

Back Apply

```
DGS-1520-28#configure terminal
DGS-1520-28(config)#interface range ethernet 1/0/5-8
DGS-1520-28(config-if-range)#switchport mode private-vlan promiscuous
DGS-1520-28(config-if-range)#interface range ethernet 1/0/9-20
DGS-1520-28(config-if-range)#switchport mode private-vlan host
DGS-1520-28(config-if-range)#
```

# Private VLAN

Asociamos los puertos de hosts a sus VLANs Primaria y Secundaria

The screenshot shows the configuration interface for Private VLAN. It includes sections for Private VLAN, Private VLAN Association, Private VLAN Host Association, and Private VLAN Mapping. The 'Private VLAN Host Association' section is highlighted with a blue box, showing the configuration for associating ports eth1/0/9 and eth1/0/12 with Primary VID 10 and Secondary VID 20.

Primary VLAN	Secondary VLAN	Type	Interface
10	40	Isolated	1/0/17-1/0/20
10	20	Community	1/0/9-1/0/12
10	30	Community	1/0/13-1/0/16

```
DGS-1520-28#configure terminal
DGS-1520-28(config)#interface range ethernet 1/0/9-12
DGS-1520-28(config-if-range)#switchport private-vlan host-association 10 20
```

# Private VLAN

Asociamos los puertos promiscuos a sus VLANs Primaria y Secundarias

**Private VLAN**

Private VLAN

Private VLAN  
VID List: 3 or 2-5    State: Disabled    Type: Community    Apply

Private VLAN Association  
VID List: 3 or 2-5    Action: Add    Secondary VID List: 3 or 2-5    Apply

Private VLAN Host Association  
From Port: eth1/0/1    To Port: eth1/0/1    Primary VID:    Secondary VID:     Remove Association    Apply

Private VLAN Mapping  
From Port: eth1/0/5    To Port: eth1/0/8    Primary VID: 10    Action: Add    Secondary VID List: 20,30,40     Remove Mapping    Apply

Total Entries: 3

Primary VLAN	Secondary VLAN	Type	Interface
10	40	Isolated	1/0/5-1/0/8,1/0/17-1/0/20
10	20	Community	1/0/5-1/0/12
10	30	Community	1/0/5-1/0/8,1/0/13-1/0/16

```
DGS-1520-28#configure terminal
DGS-1520-28(config)#interface range ethernet 1/0/5-8
DGS-1520-28(config-if-range)#switchport private-vlan mapping 10 add 20,30,40
DGS-1520-28(config-if-range)#
```

# Private VLAN

## Resultado

Total Entries: 3

Primary VLAN	Secondary VLAN	Type	Interface
10	40	Isolated	1/0/5-1/0/8,1/0/17-1/0/20
10	20	Community	1/0/5-1/0/12
10	30	Community	1/0/5-1/0/8,1/0/13-1/0/16

```
DGS-1520-28#show vlan private-vlan
```

```
Primary VLAN   Secondary VLAN   Type           Interface
-----
10             40              Isolated      eth1/0/5-1/0/8,eth1/0/17-1/0/20
10             20              Community     eth1/0/5-1/0/12
10             30              Community     eth1/0/5-1/0/8,eth1/0/13-1/0/16
```

```
Total Entries : 3
```

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Premios Muy Canal 2022 Editorial TPNET

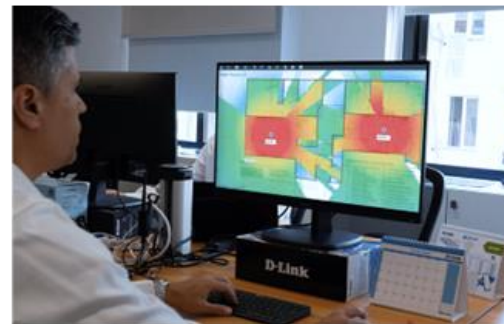


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- Programa de compra de productos DEMO (hasta 50% de descuento)
- WI-FI Planner Pro: Diseño proyectos WIFI sobre planos reales, con distribución de puntos de acceso y cobertura

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OBRIGADO**

