



Formación técnica
especializada

D-Link Academy

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<https://www.youtube.com/user/DLINKIberiaTV>

D-Link[®]
ACADEMY
> WEBINARS

20 años
espectaculares

D-Link[®]
IBERIA

Redundancia en Entornos Industriales



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D-Link Iberia
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D-Link

Agenda

- Soluciones de red para Industria 4.0
- Topologías en anillo para redundancia de datos
- ERPS
- RING protection
- Topologías de red redundantes



Solución Industrial – La familia

DIS-100E



DIS-200G



DIS-300G



DIS-100G

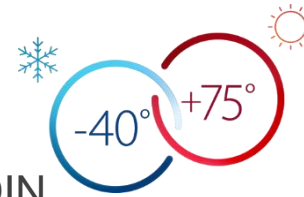


DIS-700G

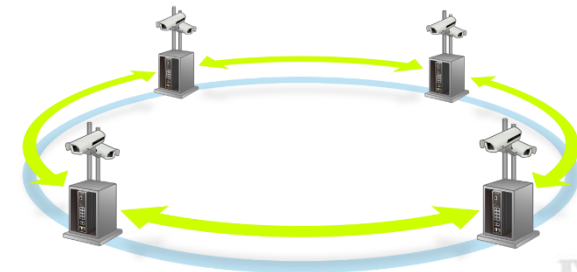


Ventajas & Características

- Trabajo a rangos altos de temperatura
- Poder instalarse en armarios con carril DIN
- Equipos sin ventilador
- Robustez (anti vibración, anti caída o golpes)
- Seguridad y rapidez en la recuperación en anillo



UL/CE/FCC	✓
IEC 60068-2-27/32/6	✓
EN61000-6-2/4	✓
EN61000-4-2/3/4/5/6	✓
FCC Part 15	✓
NEMA-TS2, EN50121-4	✓



DIS-100E Series: Unmanaged 10/100



DIS-100E-5W

5 x 10/100BasetT Ports

DIS-100E-8W

8 x 10/100BasetT Ports



UL/CE/FCC	✓
IEC 60068-2-27/32/6	✓
EN61000-6-2/4	✓
EN61000-4-2/3/4/5/6	✓
FCC Part 15	✓
NEMA-TS2, EN50121-4	✗



- IEEE 802.3x flow control and back-pressure
- 1K MAC forwarding addresses
- Multicast/Broadcast/Flooding Storm Control
- Link Fault Pass Through

DIS-100G Series: Unmanaged Gigabit



DIS-100G-5W

5 x 100/1000BaseT Ports

DIS-100G-5SW

4 x 100/1000BaseT Ports

1 x 100/1000BaseSFP Slot

DIS-100G-5PSW

4 x 100/1000BaseT PoE Ports
(120W PoE Budget / 802.3af/at)

1 x 100/1000BaseSFP Slot



UL/CE/FCC	✓
IEC 60068-2-27/32/6	✓
EN61000-6-2/4	✓
EN61000-4-2/3/4/5/6	✓
FCC Part 15	✓
NEMA-TS2, EN50121-4	✓



- IEEE 802.3x flow control and back-pressure
- 1K MAC forwarding addresses
- Multicast/Broadcast/Flooding Storm Control
- Link Fault Pass Through
- Multicast/Broadcast/Flooding Storm Control
- Redundant Input Terminals, Reverse Power Protection and Overload Current Protection

DIS-200G Series: Smart Gigabit



DIS-200G-12S

- 10 x 100/1000BaseT Ports
- 2 x SFP Slots
- 1 x RJ-45 Console port

DIS-200G-12PS

- 8 x 100/1000BaseT PoE Ports
(240W PoE Budget 1-8)
- 2 x 100/1000BaseT Ports
- 2 x SFP Slots
- 1 x RJ-45 Console Port



UL/CE/FCC	✓
IEC 60068-2-27/32/6	✓
EN61000-6-2/4	✓
EN61000-4-2/3/4/5/6	✓
FCC Part 15	✗
NEMA-TS2, EN50121-4	✗

- High availability with G.8032 ERPS support
- 50ms recovery time for 16-node ring with <1200km circumference
- IEEE 802.1D/1w/1s Spanning Tree Protocol, 802.3ad Link Aggregation
- Port-based VLAN, 802.1v Protocol-based VLAN, Private VLAN
- Auto Surveillance mode
- IGMP v1/v2/v3, IGMP snooping
- WEB-based Management and SNMP v1, v2c, v3 , CLI
- Multicast/Broadcast/Flooding Storm Control
- Advanced security with port-level security and malicious traffic prevention



DIS-300G Series: Managed Gigabit



DIS-300G-8PSW

4 x 100/1000BaseT PoE Ports
(PoE Budget 120W)
2 x 100/1000BaseT Ports
2 x 100/1000Base SFP slots

DIS-300G-12SW

8 x 100/1000BaseT Ports
4 x 100/1000Base SFP slots

DIS-300G-14PSW

8 x 100/1000BaseT PoE Ports
(PoE Budget 240W)
2 x 100/1000BaseT Ports
4 x 100/1000Base SFP slots



UL/CE/FCC	✓
IEC 60068-2-27/32/6	✓
EN61000-6-2/4	✓
EN61000-4-2/3/4/5/6	✓
FCC Part 15	✓
NEMA-TS2, EN50121-4	✓

- Support Single & Multiple rings; Ring coupling; Dual-homing; Chain with link loss recovery < 20ms
- IEEE 802.1D/1w/1s Spanning Tree Protocol, 802.3ad Link Aggregation
- Port-based VLAN, 802.1Q, 802.1ad Double Tagging (QinQ), 802.1v Protocol-based VLAN, Private VLAN
- IGMP v1/v2/v3, IGMP snooping
- IEEE 802.1X authentication Network Access Control, RADIUS or TACACS+ AAA
- WEB-based Management and SNMP v1, v2c, v3
- Multicast/Broadcast/Flooding Storm Control and Diagnostics

DIS-700G Series: Layer 2+



DIS-700G-28XS

24 x SFP Auto-Negotiating Ports
4 x SFP+ uplink slots

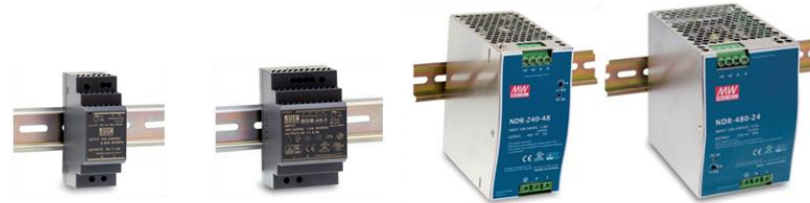


-10 to 65°C

UL/CE/FCC	✓
IEC 60068-2-27/32/6	✓
EN61000-6-2/4	✓
EN61000-4-2/3/4/5/6	✓
FCC Part 15	✓
NEMA-TS2, EN50121-4	✗
EN 55022	✓

- Intelligent QoS
- Single & Multiple rings supported with link loss recovery < 20ms
- IEEE 802.1D/1w/1s Spanning Tree Protocol, 802.3ad Link Aggregation
- IGMP v1/v2/v3, IGMP snooping
- Port-based VLAN, 802.1Q, 802.1ad Double Tagging (Q in Q), 802.1v Protocol-based VLAN, Private VLAN
- Multi-layer ACL support, Policy/profile-based ACL
- IEEE 802.1X authentication Network Access Control, RADIUS Client for IEEE 802.1X
- Multicast/Broadcast/Flooding Storm Control on per port and per VLAN basis
- WEB-based Management and SNMP v1, v2c, v3
- Diagnostics

Power Supplies



Power Supplies	DIS-H30-24	DIS-H60-24	DIS-N240-48	DIS-N480-48
Power	30W	60W	240W	480W
Input	85 ~ 264VAC	85 ~ 264VAC	90 ~ 264VAC	90 ~ 264VAC
Output	21.6 ~ 29V DC	21.6 ~ 29V DC	48 ~ 55V DC	48 ~ 55V DC
Mount	Din rail TS-35/7.5 or 15 mountable	Din rail TS-35/7.5 or 15 mountable	Din rail TS-35/7.5 or 15 mountable	Din rail TS-35/7.5 or 15 mountable
Operating Temperature Range	-30~70°C	-30~70°C	-20~70°C	-20~70°C

Dual Input for Power Supply



SFP Transceivers



SFP Transceivers	DIS-S301SX	DIS-S302SX	DIS-S310LH
Type	Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre	Mini-GBIC SFP to 1000BaseSX Multi-Mode Fibre	Mini-GBIC SFP to 1000BaseLX Single-Mode Fibre
Distance	Up to 550 m	Up to 2 km	Up to 10 km
Operating Temperature Range	-40~85°C	-40~85°C	-40~85°C



4G LTE Router



DWM-312

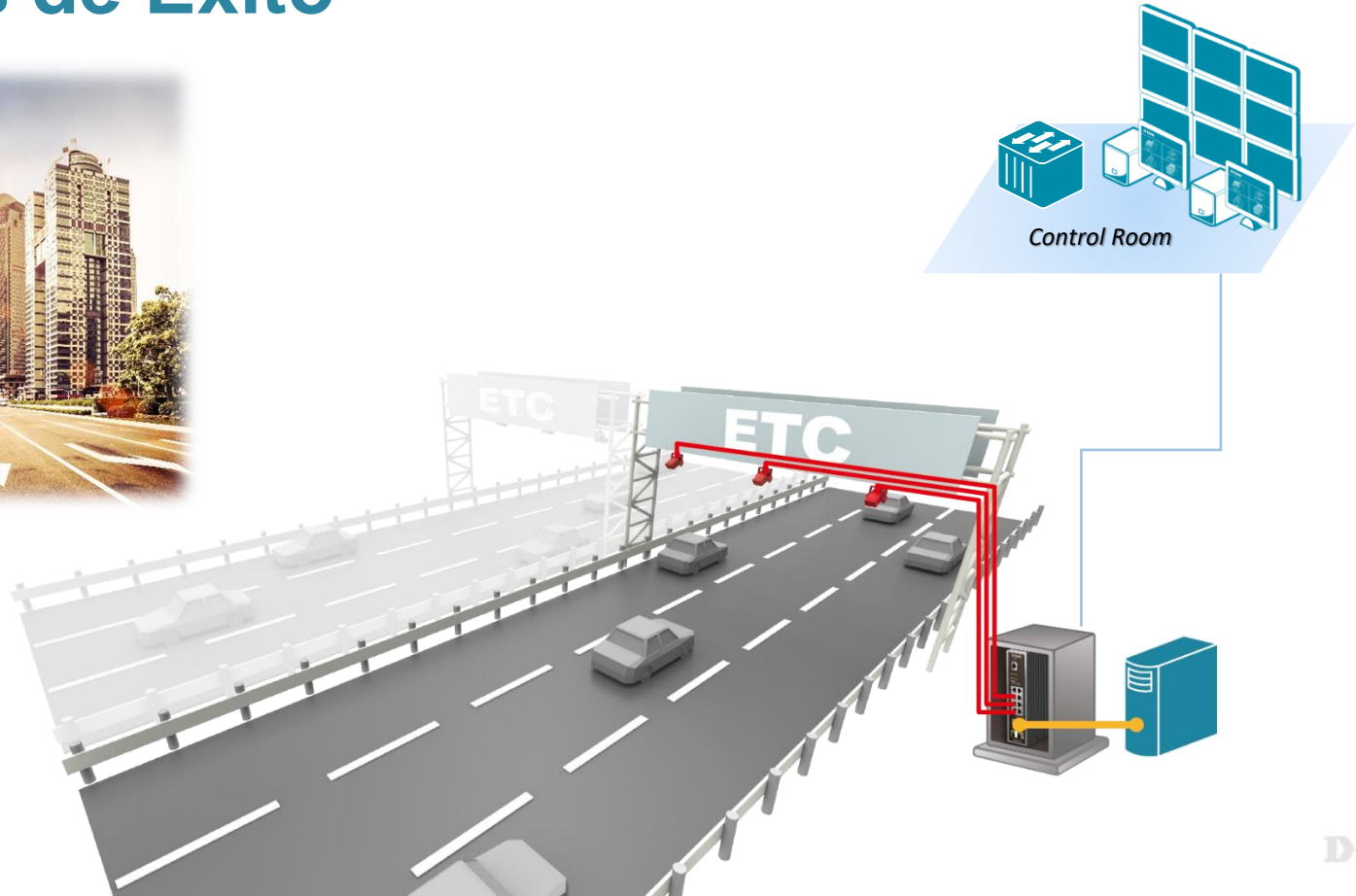


COMING SOON



DWM-312W

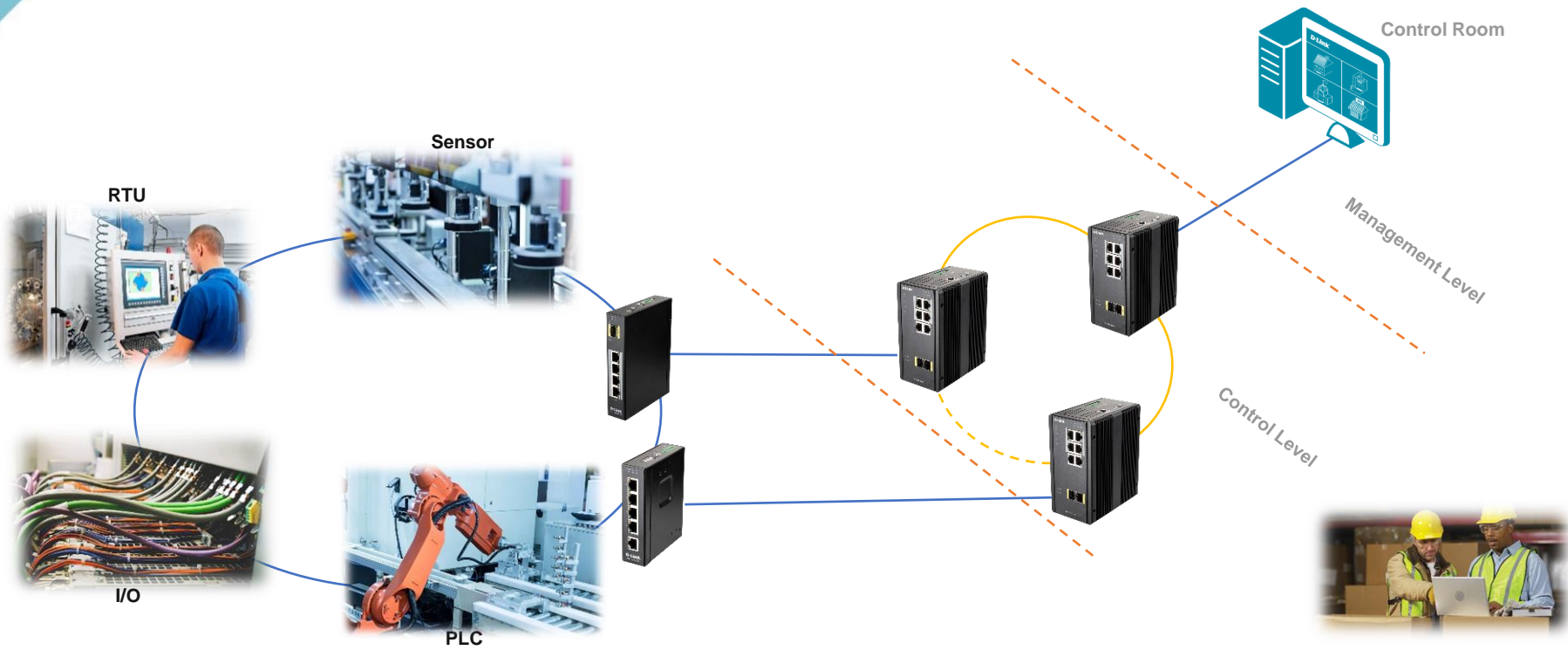
Casos de Éxito



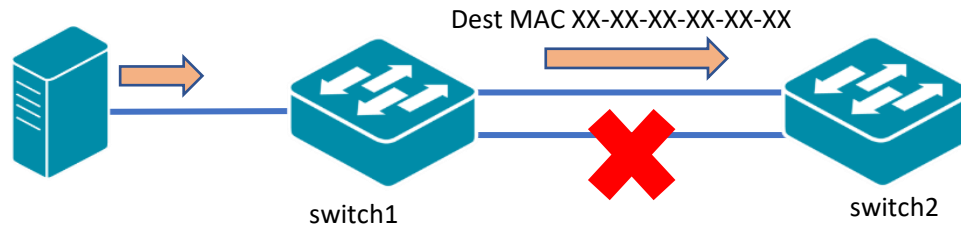
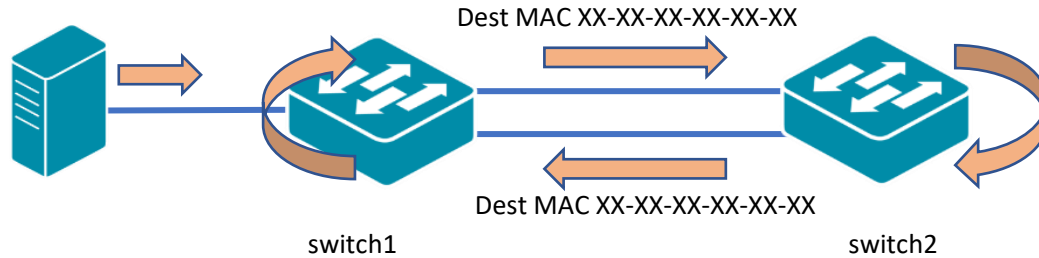
Metro de Lisboa



Redundancia con Anillos

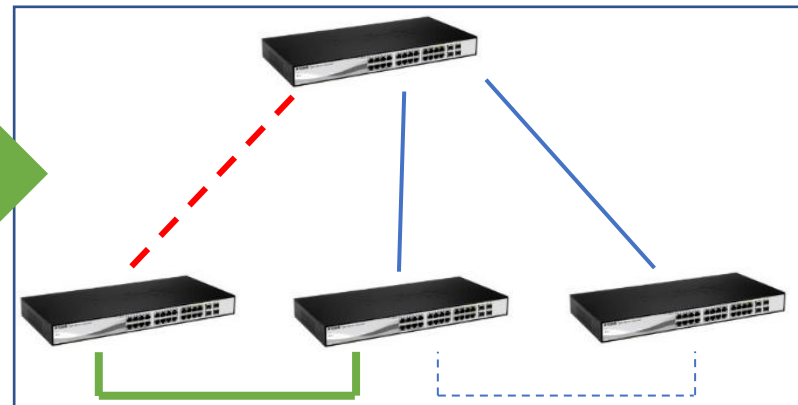
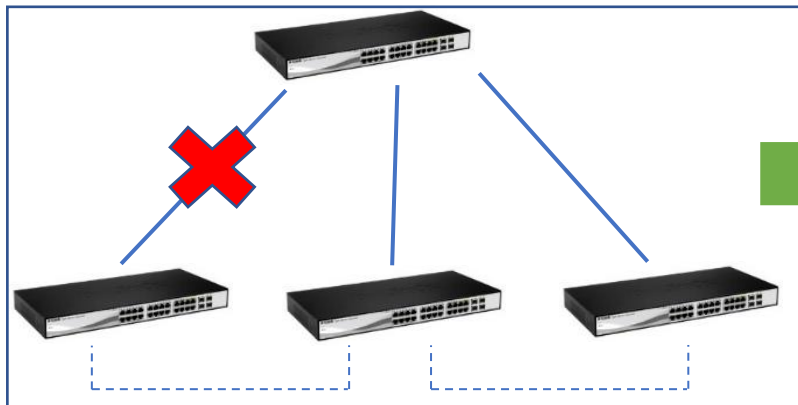
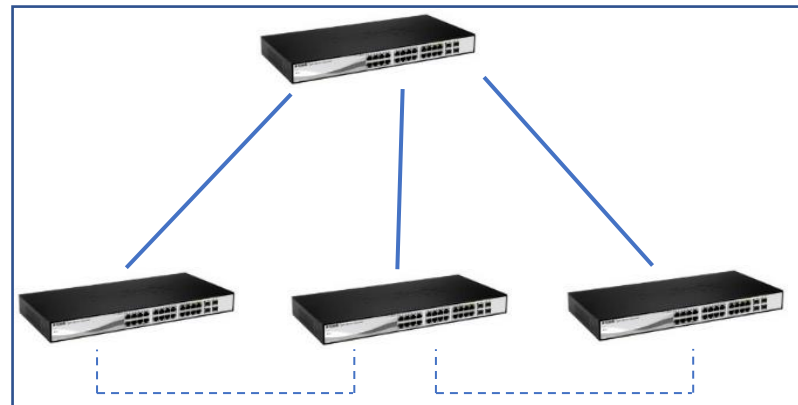
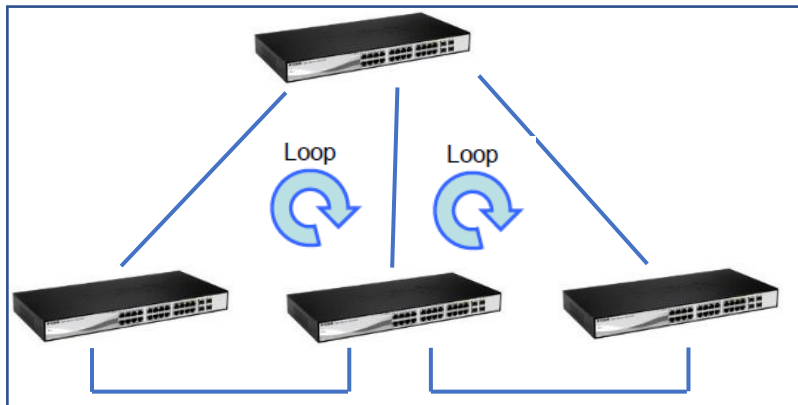


Evitar BUCLES



- ✓ STP (30-60 segundos)
- ✓ RSTP (2-3 segundos)
- ✓ **ERPS** (<50ms)
- ✓ **RING protection** (<20ms)
- ✓ LBD

Spanning-Tree

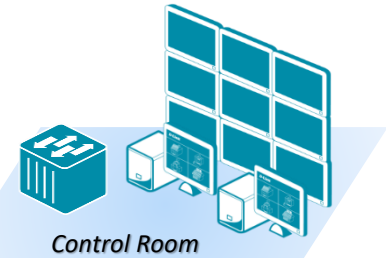


ERPS (G.8032) – DIS-200G



DIS-200G-12PS
DIS-200G-12S

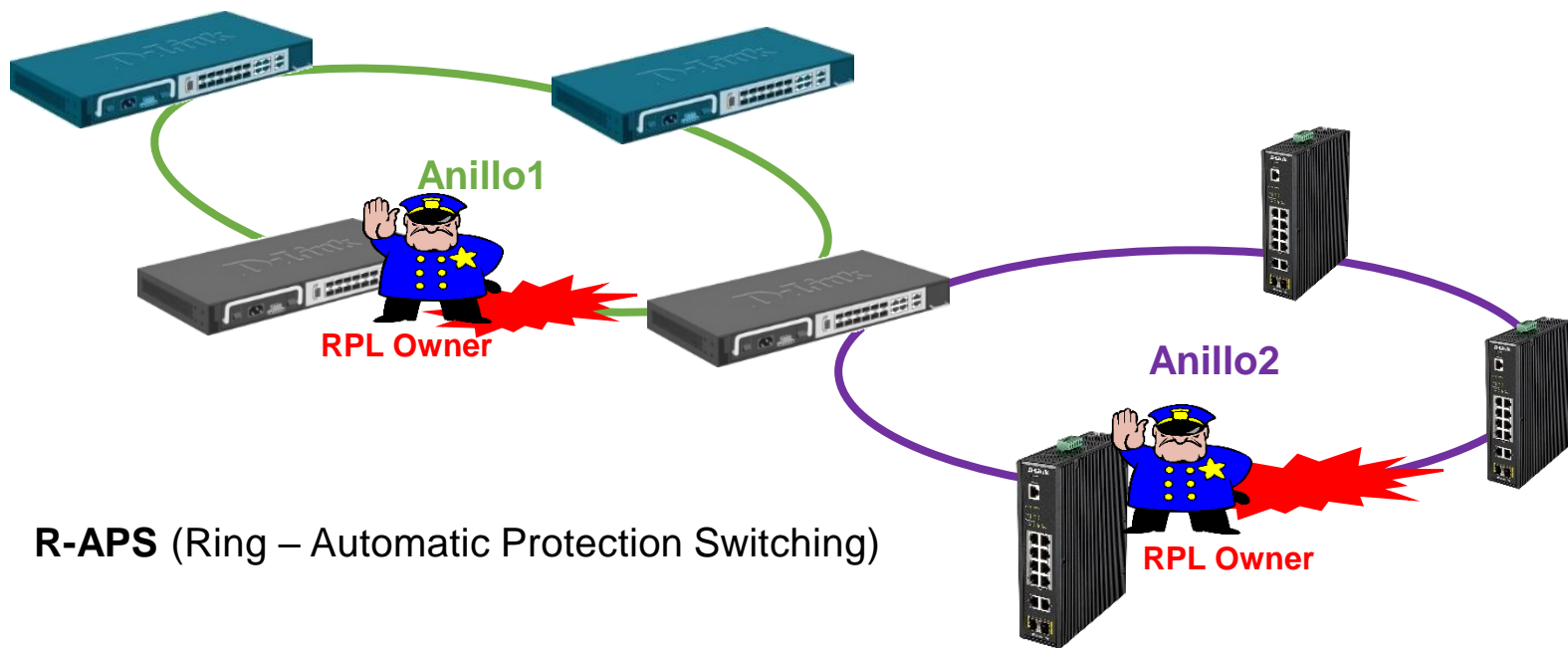
- Anillos de **16** nodos
- Convergencia < **50** ms



Control Room

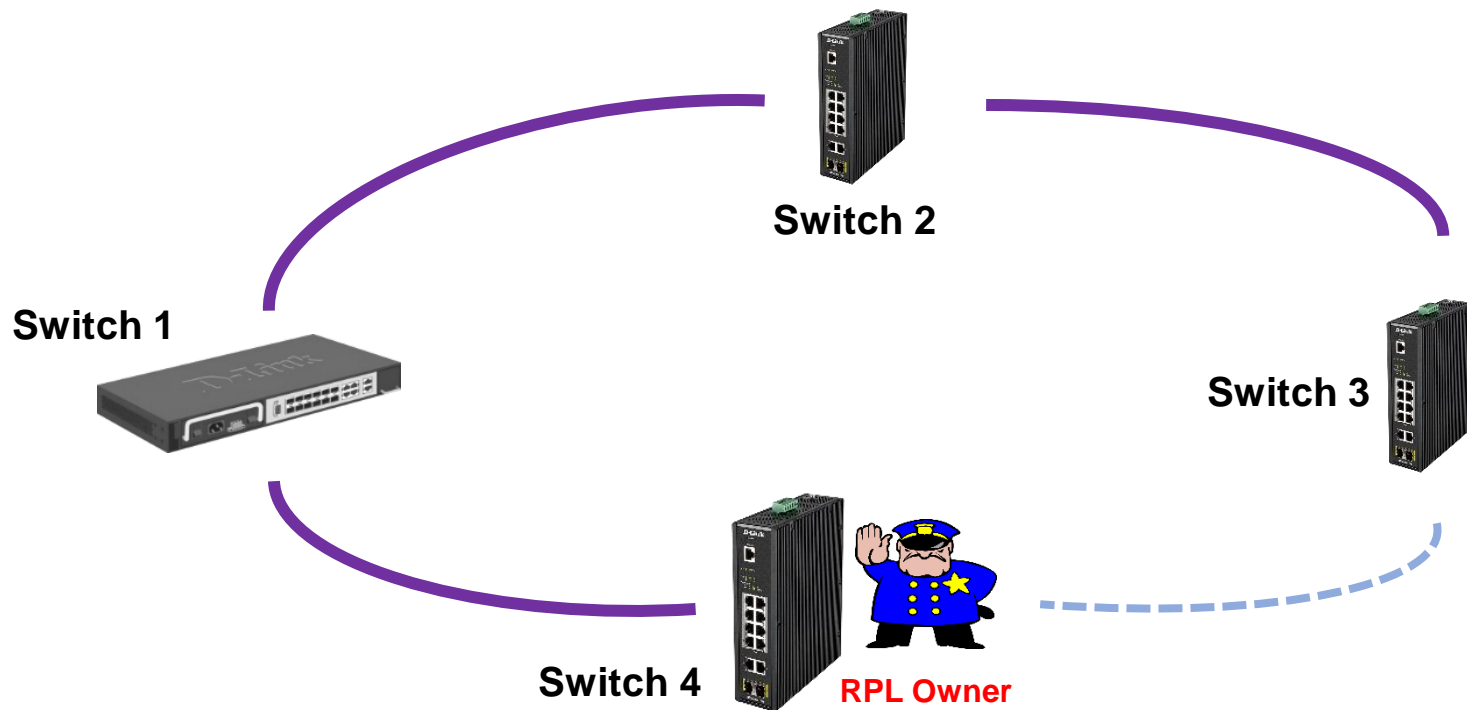


ERPS - Funcionamiento

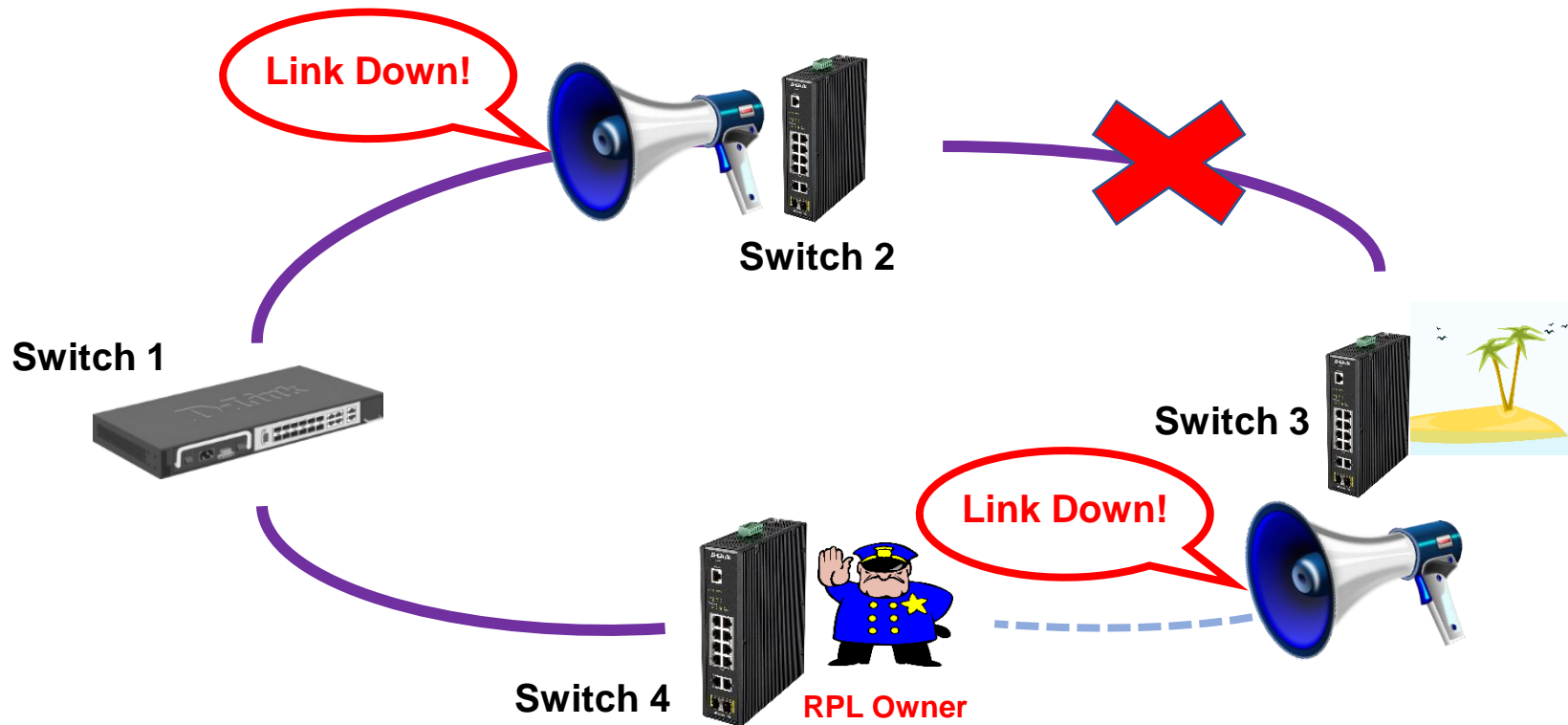


R-APS (Ring – Automatic Protection Switching)

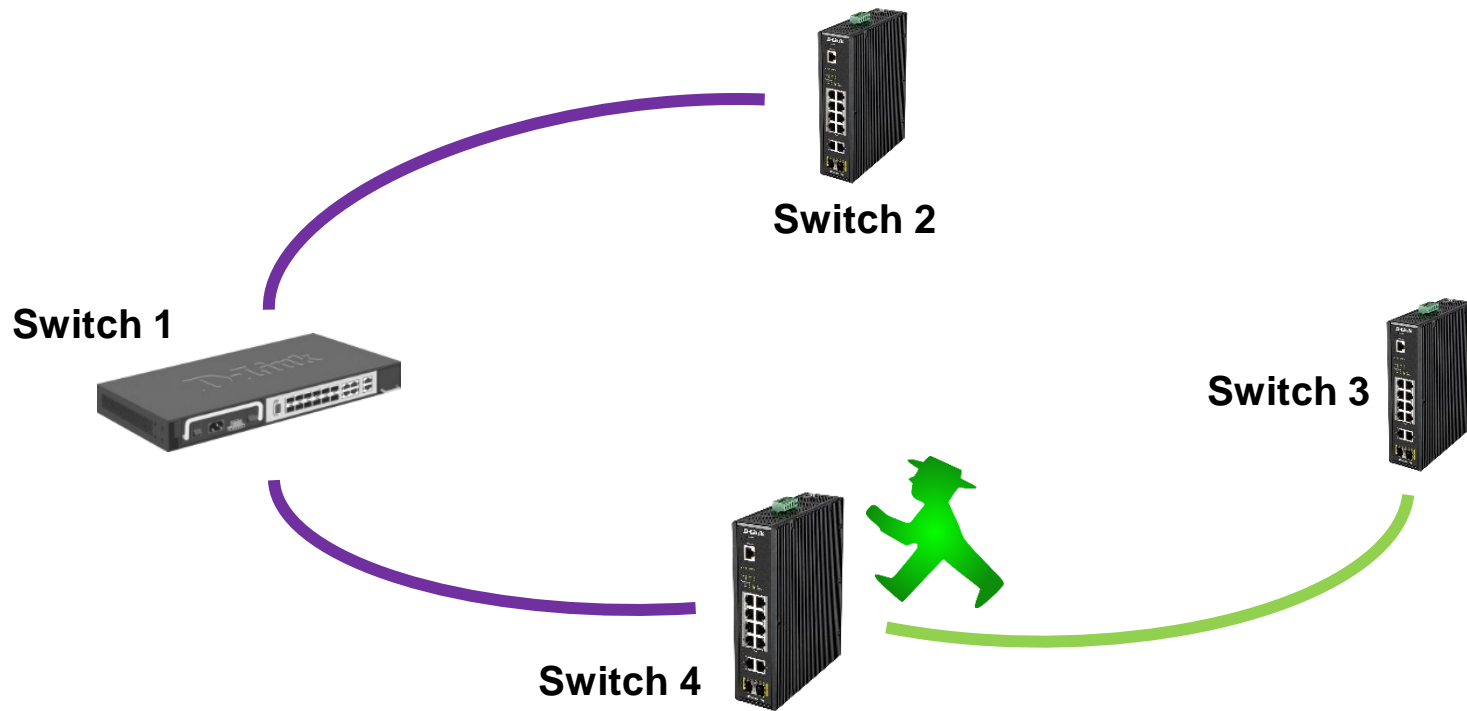
ERPS - Funcionamiento



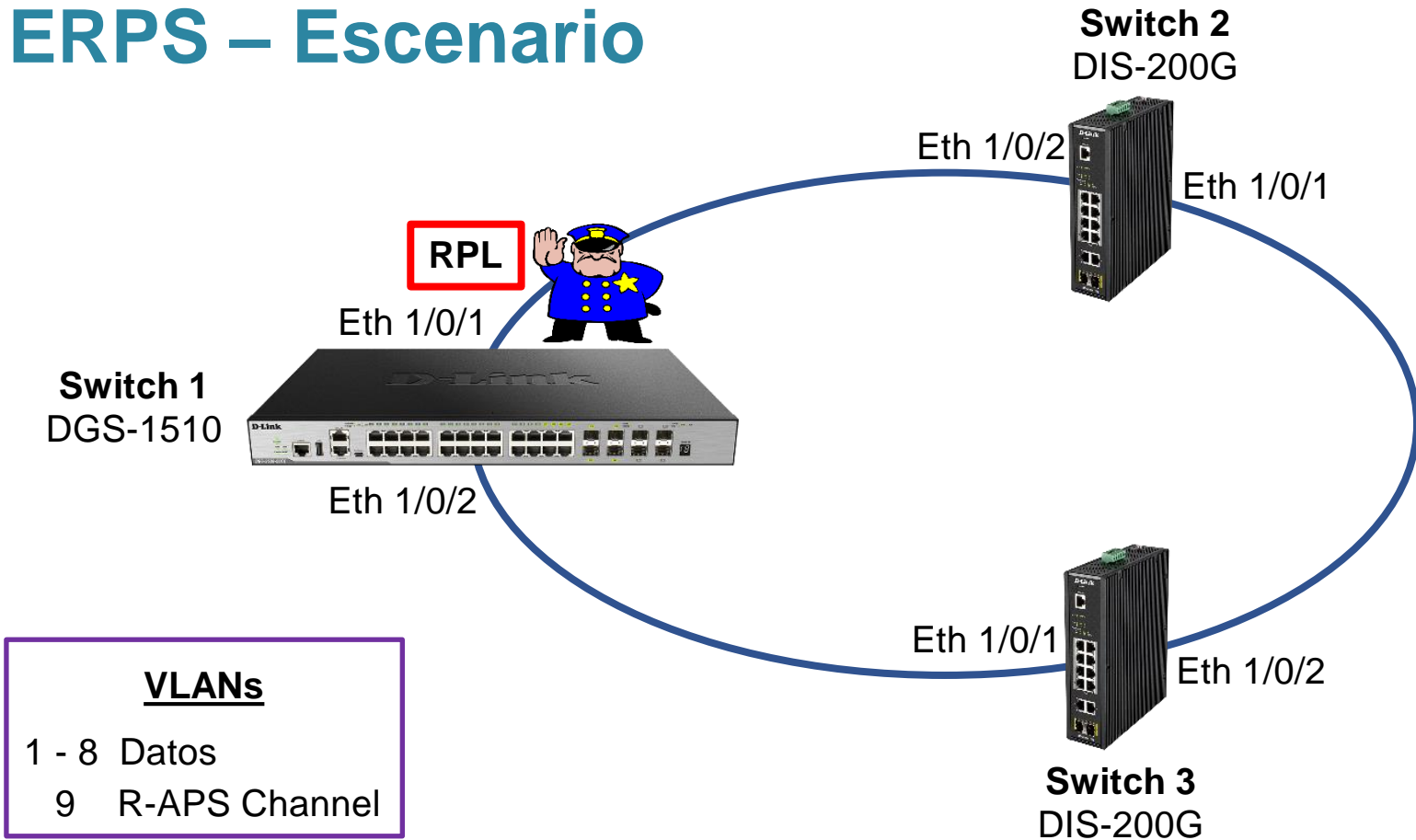
ERPS - Funcionamiento



ERPS - Funcionamiento



ERPS – Escenario



Paso 1 – VLANs

Fuzzy Search

- [-] DGS-1510-28P
 - [-] System
 - [-] Management
 - [-] L2 Features
 - [-] FDB
 - [-] VLAN**
 - 802.1Q VLAN**
 - 802.1v Protocol VLAN
 - GVRP
 - Asymmetric VLAN
 - MAC VLAN
 - VLAN Interface
 - Auto Surveillance VLAN
 - Voice VLAN
 - STP
 - ERPS (G.8032)
 - ERPS
 - ERPS Profile
 - Loopback Detection
 - Link Aggregation
 - L2 Multicast Control
 - LLDP
 - L3 Features
 - QoS
 - ACL

802.1Q VLAN

802.1Q VLAN

VID List

3

Find VLAN

VID (1-4094)

Total Entries: 9

VID	VLAN Name	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"/>
2	VLAN0002	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
3	VLAN0003	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
4	VLAN0004	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
5	VLAN0005	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
6	VLAN0006	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
7	VLAN0007	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
8	VLAN0008	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
9	VLAN0009	1/0/1-1/0/2			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Paso 2 – Interfaces

1 Fuzzy Search

- DGS-1510-28P
 - System
 - Management
 - L2 Features
 - FDB
 - VLAN
 - 802.1Q VLAN
 - 802.1v Protocol VLAN
 - GVRP
 - Asymmetric VLAN
 - MAC VLAN
 - VLAN Interface**
 - Auto Surveillance VLAN
 - Voice VLAN
 - STP
 - ERPS (G.8032)
 - ERPS

2 Configure VLAN Interface

Port: eth1/0/1

VLAN Mode: **Trunk**

Acceptable Frame: Admit All

Ingress Checking: Enabled Disabled

Native VLAN: Native VLAN Untagged Tagged

VID (1-4094): 1

Action: **Add**

Allowed VLAN Range: 1-9

Current Allowed VLAN Range: 1-9

4 Clone: Clone

From Port: eth1/0/1

To Port: eth1/0/2

Back Apply

Paso 3 – ERPS

1 Fuzzy Search

- DGS-1510-28P
- System
- Management
- L2 Features
 - FDB
 - VLAN
 - STP
 - ERPS (G.8032)
 - ERPS**
 - ERPS Profile

2 Ethernet Ring G.8032

Ring Name

3 Apply

Total Entries: 1

Ethernet Ring	Instance ID		
Ring1	0	4 Edit Ring	5 Edit Instance

Show Status Delete 1/1 < < 1 > > Go

Edit Ethernet Ring

Ethernet Ring Settings

Ethernet Ring Name Ring1

Instance ID (1-32) None Specify

Sub Ring Name None Specify

Port0 None Specify

Port1 None Specify

Edit Ethernet Instance

Ethernet Instance Settings

Ethernet Ring Name Ring1

Instance ID 1

Description None Specify

R-APS Channel VLAN (1-4094) None Specify

Inclusion VLAN List None Specify

MEL (0-7) None Specify

Profile Name None Specify

RPL Port

RPL Owner

Activate

Paso 4 – Verificar

Fuzzy Search

- DGS-1510-28P
 - System
 - Management
 - L2 Features
 - FDB
 - VLAN
 - STP
 - ERPS (G.8032)
 - ERPS
 - ERPS Profile

ERPS

Ethernet Ring G.8032

Ring Name

Total Entries: 1

Ethernet Ring	Instance ID
Ring1	0

Apply

Edit Ring Edit Instance **Show Status** Delete

1 > > Go

ERPS Status

ERPS Status Information

Ethernet Ring	Ring1
Instance ID	1
Description	
MEL	1
R-APS Channel	9
Protected VLAN	1-8
Profile	
Guard Timer	500 ms
Hold-Off Timer	0 ms
WTR Timer	5 min
Revertive	Enabled
Instance State	Idle
Admin RPL	Owner
Operational RPL	Owner
Admin Port0	eth1/0/1
Operational Port0	eth1/0/1
Port0 State	Blocked
Admin Port1	eth1/0/2
Operational Port1	eth1/0/2
Port1 State	Forwarding
Admin RPL Port	Port0
Operational RPL Port	Port0

Configuración por CLI

1

```
# configure terminal  
(config)# vlan 2-9
```

2

```
(config)# interface range eth 1/0/1-2  
(config-if-range)# switchport mode trunk  
(config-if-range)# switchport trunk allowed vlan 1-9
```

3

```
(config)# ethernet ring g8032 Ring1  
(config-erp)# instance 1  
(config-erp-instance)# port0 interface eth 1/0/1  
(config-erp-instance)# port1 interface eth 1/0/2  
(config-erp-instance)# inclusion-list vlan-ids 1-8  
(config-erp-instance)# r-aps channel-vlan 9  
(config-erp-instance)# rpl port0 owner  
(config-erp-instance)# activate
```

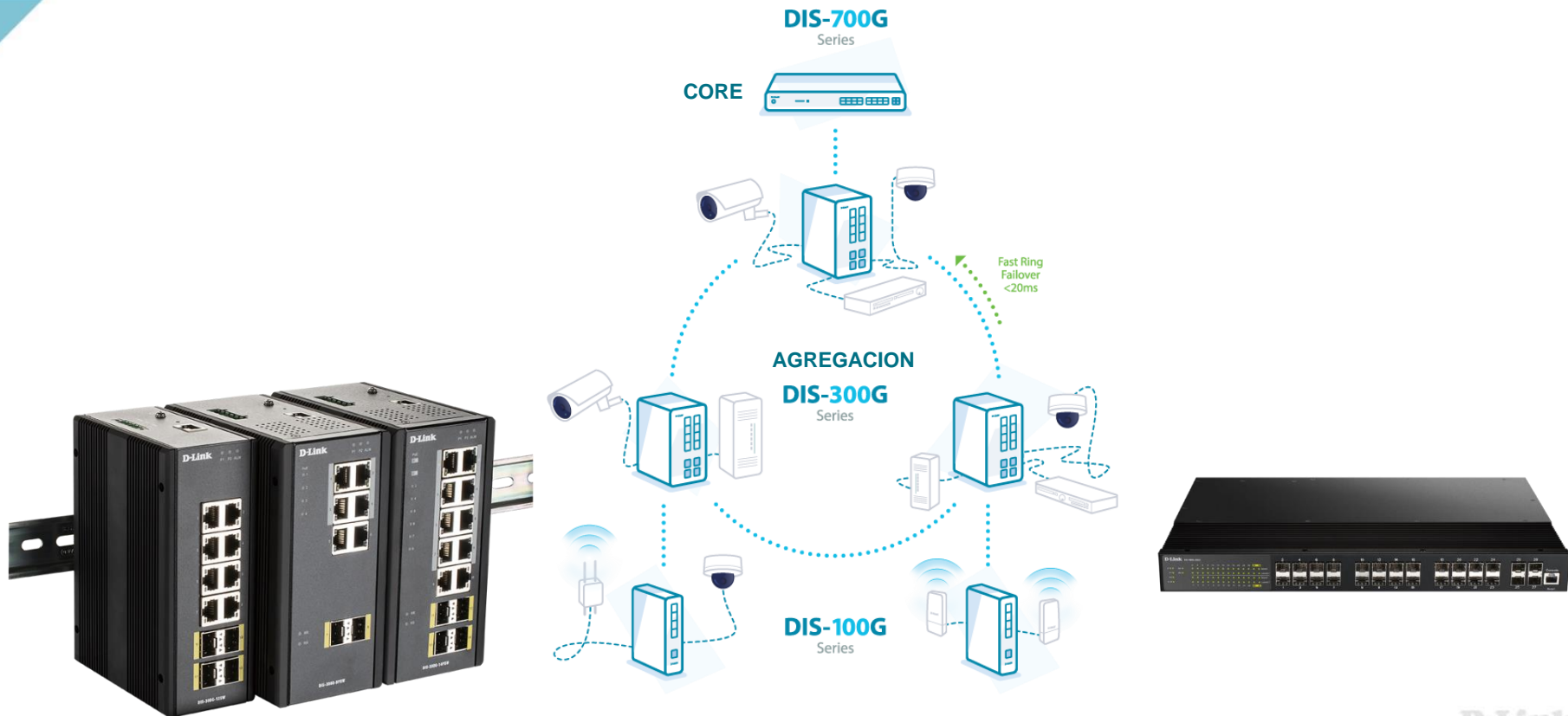
Configuración por CLI

4

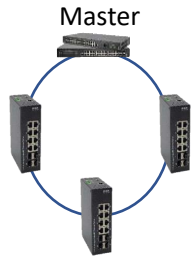
```
# show ethernet ring g8032 status  
# show ethernet ring g8032 brief
```

```
Switch#show ethernet ring g8032 status  
  
Ethernet ring Ring1,instance 1  
-----  
Description:  
MEL: 1  
R-APS Channel: 9,Protected VLAN: 1-8  
Profile:  
Guard timer: 500 milliseconds  
Hold-Off timer: 0 milliseconds  
WTR timer: 5 minutes  
Revertive  
Instance State: Idle  
Admin RPL: Owner  
Operational RPL: Owner  
Admin Port0: eth1/0/1  
Operational Port0: eth1/0/1  
Port0 State: Blocked  
Admin Port1: eth1/0/2  
Operational Port1: eth1/0/2  
Port1 State: Forwarding  
Admin RPL Port: Port0  
Operational RPL Port: Port0  
  
Total Entries: 1
```

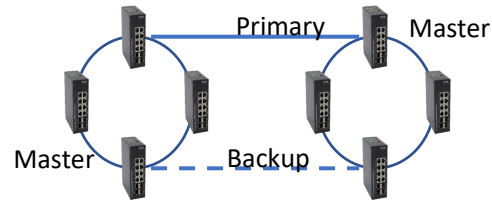

RING Protection – DIS-300G/DIS-700G



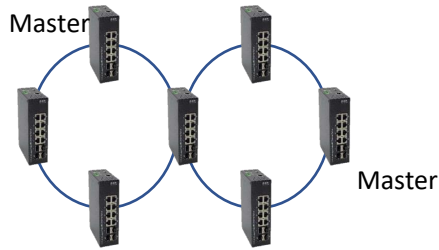
Topologías de Red Redundantes



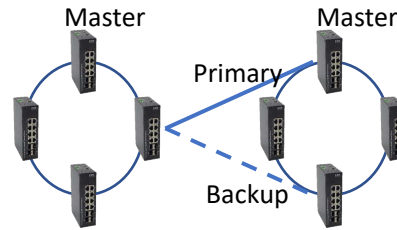
Ring



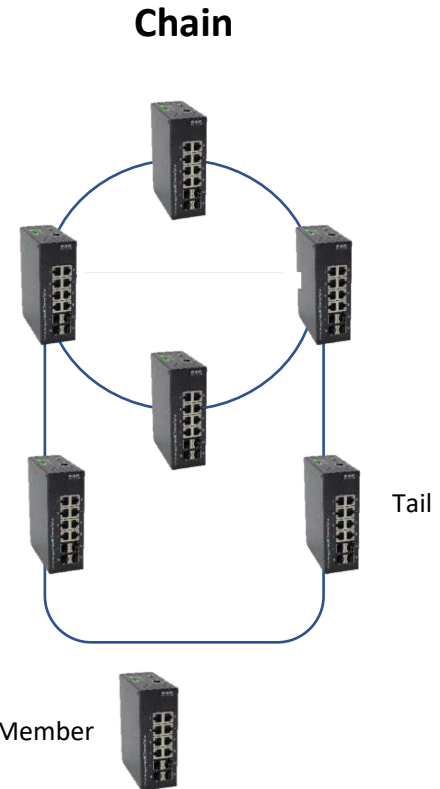
Ring Coupling



Dual Ring



Dual Homing

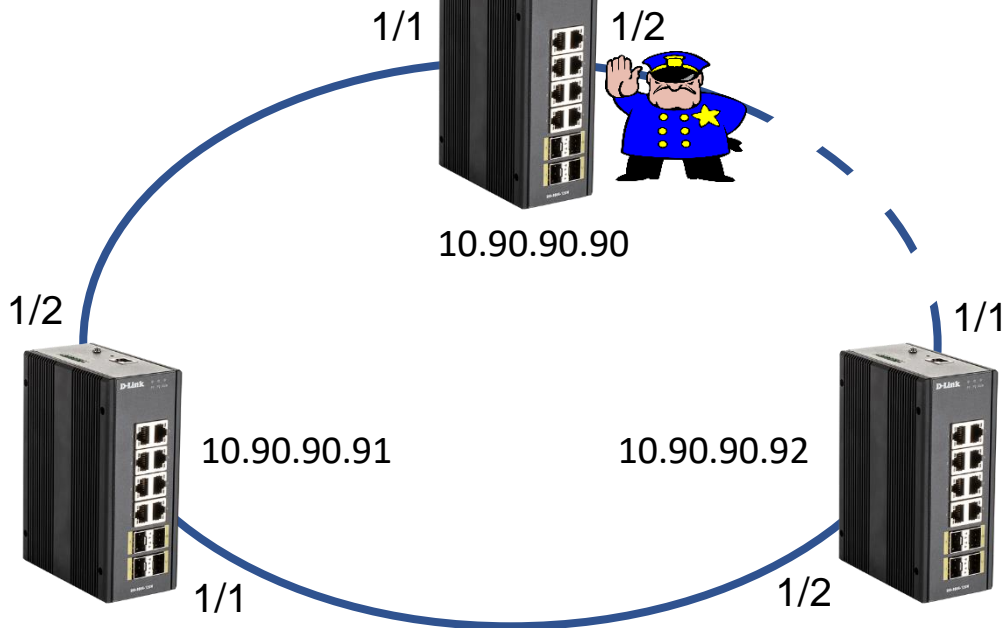


RINGv2: Escenario

Switch 1
MASTER



10.90.90.90



Switch 2
SLAVE

10.90.90.91

10.90.90.92

Switch 3
SLAVE

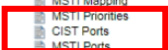
Paso 1 – Deshabilitar STP



DIS-300G-12SW

- Configuration
 - System
 - Green Ethernet
 - Ports
 - DHCP
 - Security
 - Aggregation
 - Loop Protection
 - Spanning Tree
 - Bridge Settings
 - MSTI Mapping
 - MSTI Priorities
 - CIST Ports**
 - MSTI Ports
 - IPMC Profile
 - MVR
 - IPMC
 - LLDP
 - MAC Table
 - VLANs
 - Private VLANs
 - VCL
 - Voice VLAN
 - QoS
 - Mirroring
 - GVRP
 - sFlow
 - RingV2
- Monitor
- Diagnostics
- Maintenance

1



STP CIST Port Configuration

CIST Aggregated Port Configuration

Port	STP Enabled	Path Cost	Priority	Admin Edge	Auto Edge	Restricted Role	TCN	BPDU Guard	Point-to-point
	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forced True

CIST Normal Port Configuration

Port	STP Enabled	Path Cost	Priority	Admin Edge	Auto Edge	Restricted Role	TCN	BPDU Guard	Point-to-point
1	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
2	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
3	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
4	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
5	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
6	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
7	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
8	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
9	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
10	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
11	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto
12	<input type="checkbox"/>	Auto		128	Non-Edge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Auto

2

Save Reset

Paso 2 – Configurar RING MASTER

1



D-Link
Building Networks for People

DIS-300G-12SW
 Configuration
 System
 Green Ethernet
 Ports
 DHCP
 Security
 Aggregation
 Loop Protection
 Spanning Tree
 IPMC Profile
 MVR
 IPMC
 LLDP
 MAC Table
 VLANs
 Private VLANs
 VCL
 Voice VLAN
 QoS
 Mirroring
 GVRP
 Show
 RingV2
 Monitor
 Diagnostics
 Maintenance

RingV2 Configuration

Ring Configuration

Index	Mode	Role	Ring Port(s)
1	Enable	Ring(Master)	Forward Port : Port-1 Block Port : Port-2
2	Disable	Ring(Slave)	Forward Port : Port-3 Forward Port : Port-4
3	Disable	Chain(Member)	Member Port : Port-1 Member Port : Port-2

Save Reset

2

Paso 3 – Configurar RING SLAVE

D-Link
Building Networks for People

DIS-300G-8PSW

Configuration

- System
- Green Ethernet
- Ports
- DHCP
- Security
- Aggregation
- Loop Protection
- Spanning Tree
- IPMC Profile
- MVR
- IPMC
- LLDP
- PoE
- MAC Table
- VLANs
- Private VLANs
- VCL
- Voice VLAN
- QoS
- Mirroring
- GVRP
- sFlow
- RingV2**
- SD-WAN

RingV2 Configuration

Ring Configuration

Index	Mode	Role	Ring Port(s)	
1	Enable	Ring(Slave)	Forward Port:	Port-1
			Forward Port:	Port-2
2	Disable	Ring(Slave)	Forward Port:	Port-3
			Forward Port:	Port-4
3	Disable	Chain(Member)	Member Port:	Port-1
			Member Port:	Port-2

Save Reset

1

2

Configuración por CLI

1

```
spanning-tree aggregation
no spanning-tree
```

2

```
configure terminal
ringv2 protect group1
mode disable
role ring-master
node1 interface GigabitEthernet 1/1
node2 interface GigabitEthernet 1/2
mode enable
```

FW

BCK

3

```
configure terminal
ringv2 protect group1
mode disable
role ring-slave
node1 interface GigabitEthernet 1/1
node2 interface GigabitEthernet 1/2
mode enable
```


D-Link Business Products



Switching

- ✓ Switches desde el Core al Extremo de red. Redes LAN Gigabit y 10 Gigabit, Sin gestión, Smart, Gestionables L2/L4, Stackables, Power Over Ethernet (PoE) VLAN para VoIP y Videovigilancia.



IP Surveillance

- ✓ Soluciones de Videovigilancia IP completas, ONVIF, 5 Mpx, IP67, Antivandálicas IK10, de interior y de exterior, PoE, NVR's y con soporte Cloud mylink para entornos domésticos

Accesorios



Wireless Centralizado

- ✓ Soluciones centralizadas Nuclias Connect hasta 1.000 Puntos de Acceso y soluciones Nuclias Cloud con escalabilidad ilimitada y Zero Touch Provisioning con gestión de AP's y Switches Cloud.
- ✓ Soluciones centralizadas basadas en Controladora Wireless



Industrial

- ✓ Soluciones de Switching y Routing Industrial y M2M para entornos de Industria 4.0 y Smart Cities.



Routers VPN

- ✓ Unified Service Routers Wireless, VPN, Firewall, failover, load balancing y posibilidad de 4G*



- ✓ Transceivers, Media Converters, PoE Injectors, Direct Attach stacking Cables, etc...



D-Link Consumer Products



Switching

Switches sin gestión para crear tu red o ampliar puertos de tu router.



Wireless Repeaters y Powerline

Amplía la cobertura WiFi de manera sencilla y práctica con Repetidores o soluciones Powerline a través de la red eléctrica.



WiFi Mesh

Amplía la cobertura de red y optimiza la señal para máximo rendimiento de manera automática.



Adaptadores WiFi

Actualiza tus dispositivos a la última tecnología Wireless con nuestros dongles USB WiFi.



Routers

Routers AC Wave2 y WiFi 6 con compatibilidad para IPTV y máximo rendimiento



Mobility 4G/5G

Dongles, Routers y MiFi's 4G (Cat4 y Cat6) y 5G de última generación.



Cámaras y Domótica mydlink

Cámaras de Videovigilancia Cloud de interior y Exterior, Autónomas, PTZ y 180°. Sensores de Agua, Smart Plugs y Regletas Inteligentes



USB y USB-C

Hubs y Docking Stations USB-C multipuerto

Programa de Canal VIP+



Programa de Canal VIP+

Registro gratuito para resellers en:
<https://vipplus.dlink.com>

- Portal Online responsivo con materiales exclusivos: lista de precios, eBooks técnicos, etc
- Rebates por volumen
- Promociones exclusivas
- Herramientas online de Planificación Proyectos
- Soporte comercial y técnico dedicado
- Programa de Compra Productos Demo hasta -50%
- D-Link Academy: Certificaciones oficiales online y presenciales



Product Selector Pro
Sencilla herramienta que te permite seleccionar y comparar nuestros productos para que nuestros partners puedan ofrecer la solución más avanzada.



Wi-Fi Planner Pro
Herramienta para diseño avanzado de entornos Wireless, para presentación profesional de planos de cobertura WiFi, estudios y proyectos.



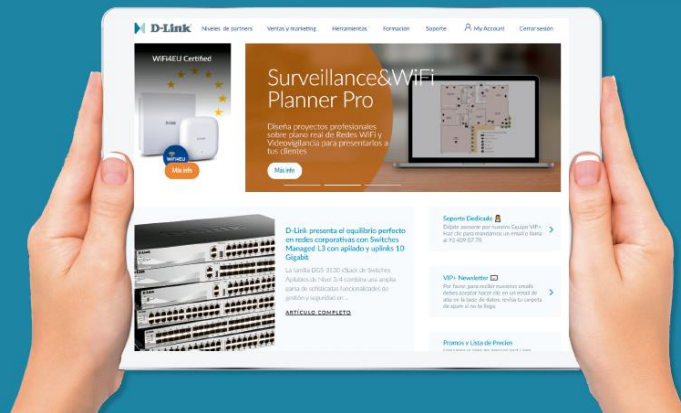
Surveillance Floor Planner Pro
Herramienta para diseñar instalaciones de videovigilancia CCTV, con selector de cámaras, colocación y cobertura para presentar planos profesionales.



Bandwidth Calculator
Calculadora de ancho de banda para gestionar la tasa de transferencia necesaria para optimizar el tráfico de red de Cámaras IP, videograbadores NVR, etc.



GUI Emulator Pro
Herramienta interactiva que te guía por las interfaces gráficas de usuario (WEB GUI) de cada uno de nuestras soluciones.



20 años espectaculares
D-Link IBERIA


Ya disponible en iOS & Android

Nueva app VIP+




D-Link
WEBINARS

D-Link te lo pone fácil: VIP+ Tools



Get started with
Product Selector *PRO*

A web-based tool to select and compare D-Link business products in a few clicks



Switch Switch Firewall Camera VMP Access Point Antenna Unified Controller & Switch Storage Network Security



Product Selector PRO



Wi-Fi Planner PRO

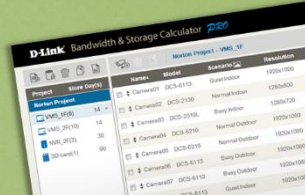
Get started with
Wi-Fi Planner *PRO*

A web-based RF simulation tool to simplify your WLAN deployment



Get Started with
Bandwidth & Storage Calculator *PRO*

An online tool to estimate the bandwidth and storage capacity requirements for IP Surveillance installation



Project	Name	Model	Resolution	Capacity
Project 1	Camera01	DCS-6113	Standard	1020x1080
Project 2	Camera02	DCS-6113	Standard	1280x1024
Project 3	Camera03	DCS-2136L	Super HD	1920x1080
Project 4	Camera04	DCS-6113	Standard	1020x1080
Project 5	Camera05	DCS-6113	Standard	1020x1080
Project 6	Camera06	DCS-6113	Standard	1020x1080
Project 7	Camera07	DCS-6113	Standard	1020x1080



Bandwidth & Storage Calculator PRO



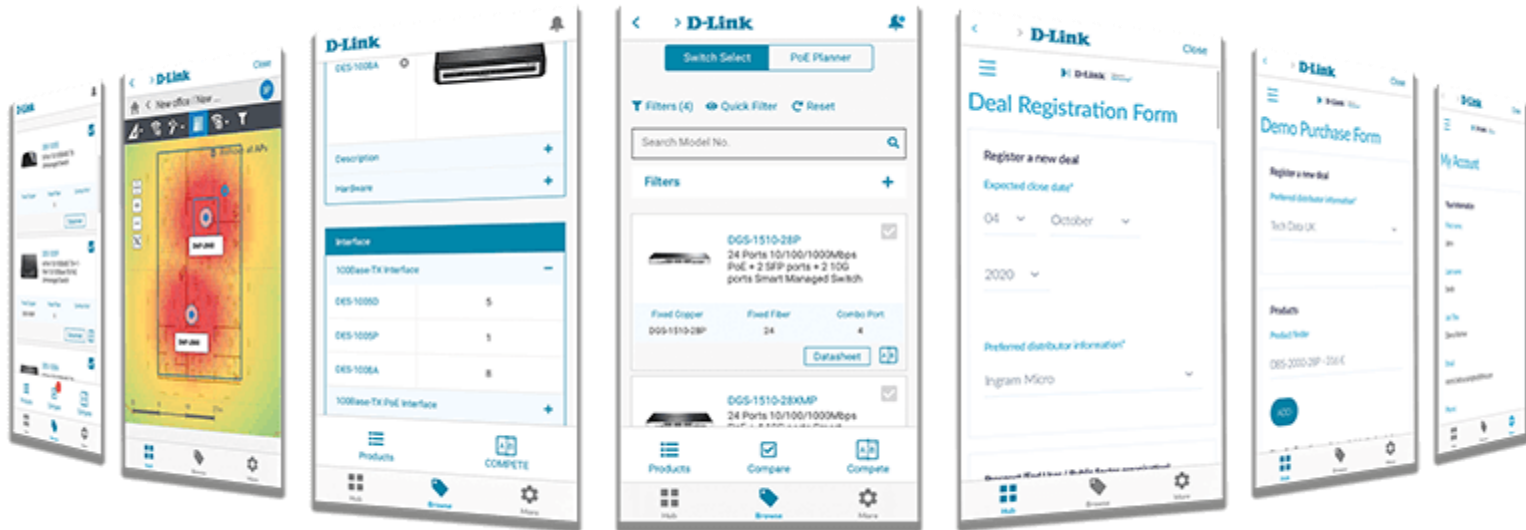
GUI Emulator PRO

Get Started with GUI Emulator *PRO*

A tool to navigate web UI of D-Link products without the need to set up actual devices



D-Link te lo pone fácil: app VIP+





**¡Muchas Gracias!
Muito Obrigado!**

D-Link[®]
ACADEMY