

IES DVS-110W02-3SFP Managed Switch

IABG PLC Division





Agenda

Overview

- ▶ Outlook
- ▶ Product Specification

Product Feature

- ▶ Management Function
 - ◆ Network Redundancy
 - ◆ LACP, Port Trunking
 - ◆ Auto Warning
- ▶ Web Interface
- ▶ EMC Noise Immunity

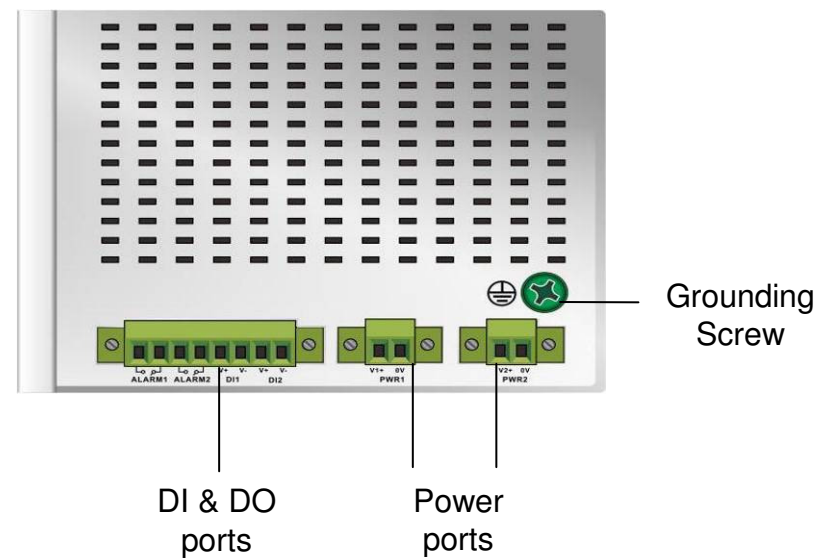
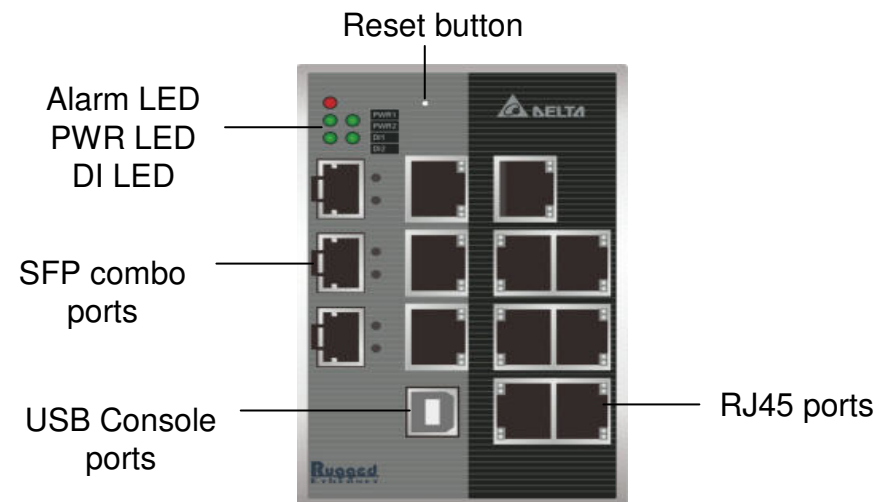
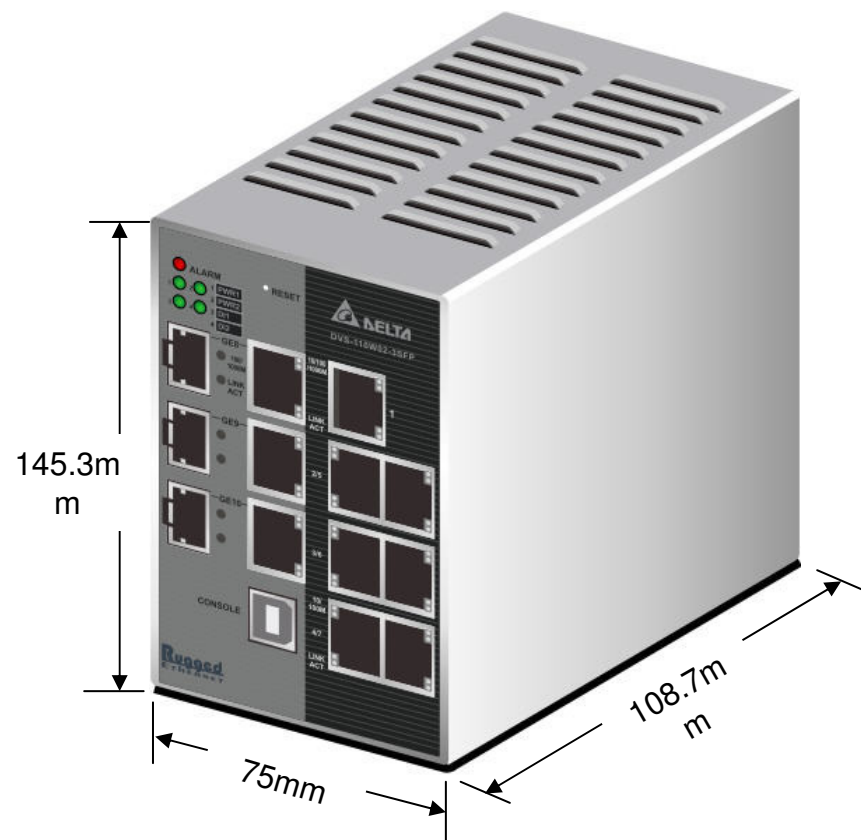
Product Application

- ▶ Application Architecture
- ▶ Case Study
 - ◆ Power Substation
 - ◆ Water Treatment Automation

Product List



Outlook





Product Specification

Ethernet Ports	RJ45 ports	7 10/100Base-T(X)	
	Gigabit combo ports	RJ45 ports	3 10/100/1000Base-T
		SFP fiber ports (DDM)	3 1000Base-SFP
Management	VLAN, QoS, LACP, SNMP V1/V2c/V3, IGMP Snooping V1/V2/V3		
Network redundancy	STP/RSTP/MSTP		
Network Security	IEEE 802.1X, TACACS+,SSH and HTTPS		
Remote Monitoring	SNMP V1/V2c/V3, MODBUS TCP		
Fiber Optic	MultiMode	550m, 2km, 5km	
	SingleMode	15km, 30km, 40km, 60km	
Consoles	Web Browser, Telnet & USB		
I/O	2 set Digital Inputs, 2 sets relay outputs		
Auto Warning	SNMP trap, System log, E-mail & Relay		
Certificate	UL508, CE, FCC		
Case	IP40 aluminum		
Operating Temperature	-40~75°C (-40~167°F)		
Power Inputs	Redundant, 12 to 48VDC		



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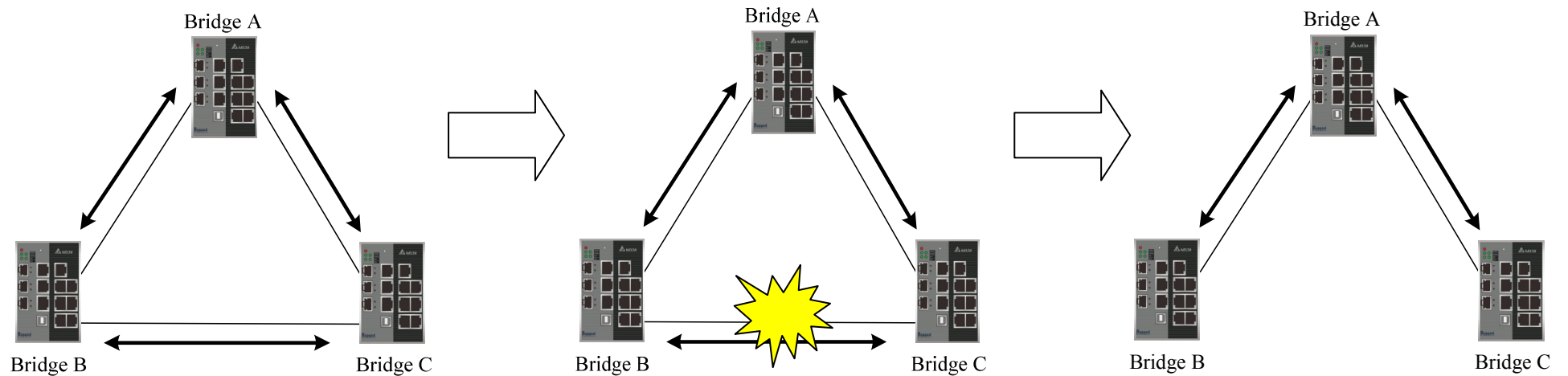
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Management Function

– Network Redundancy

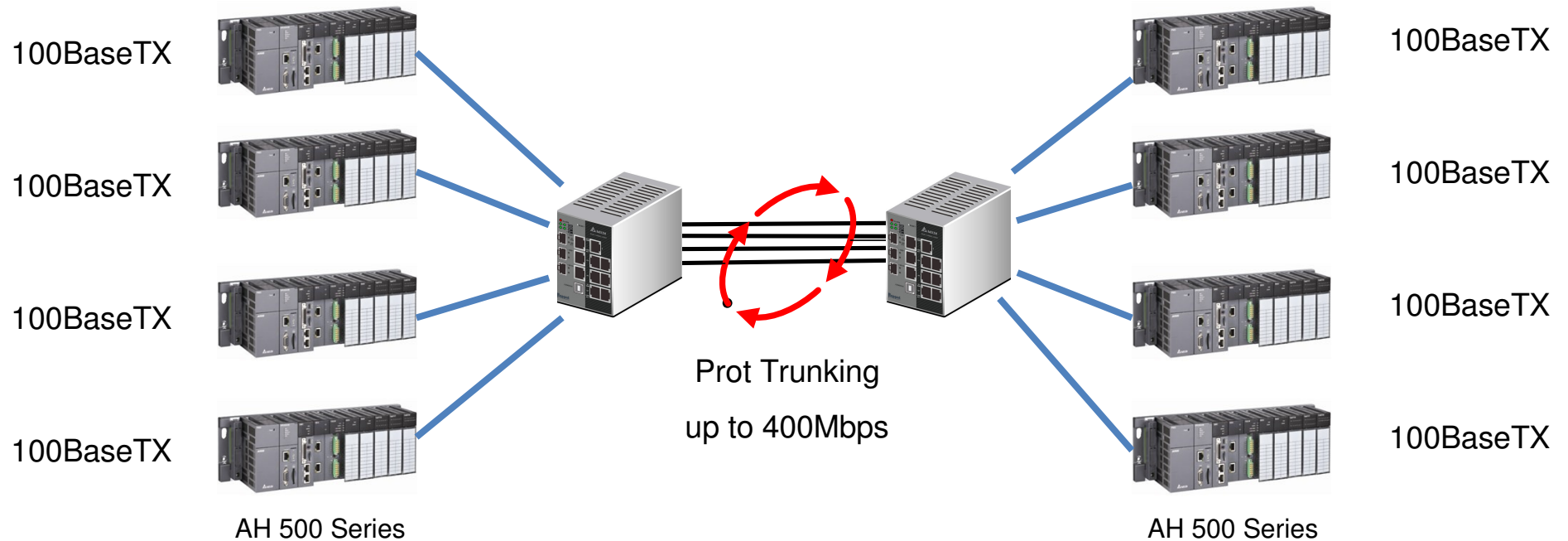
- Protect network loops
- Reduce Link Failure in network
- Count shortest path





Management Function – LACP, Port Trunking

- Aggregate more links to form as one link group.
- Backup and share the traffic automatically.

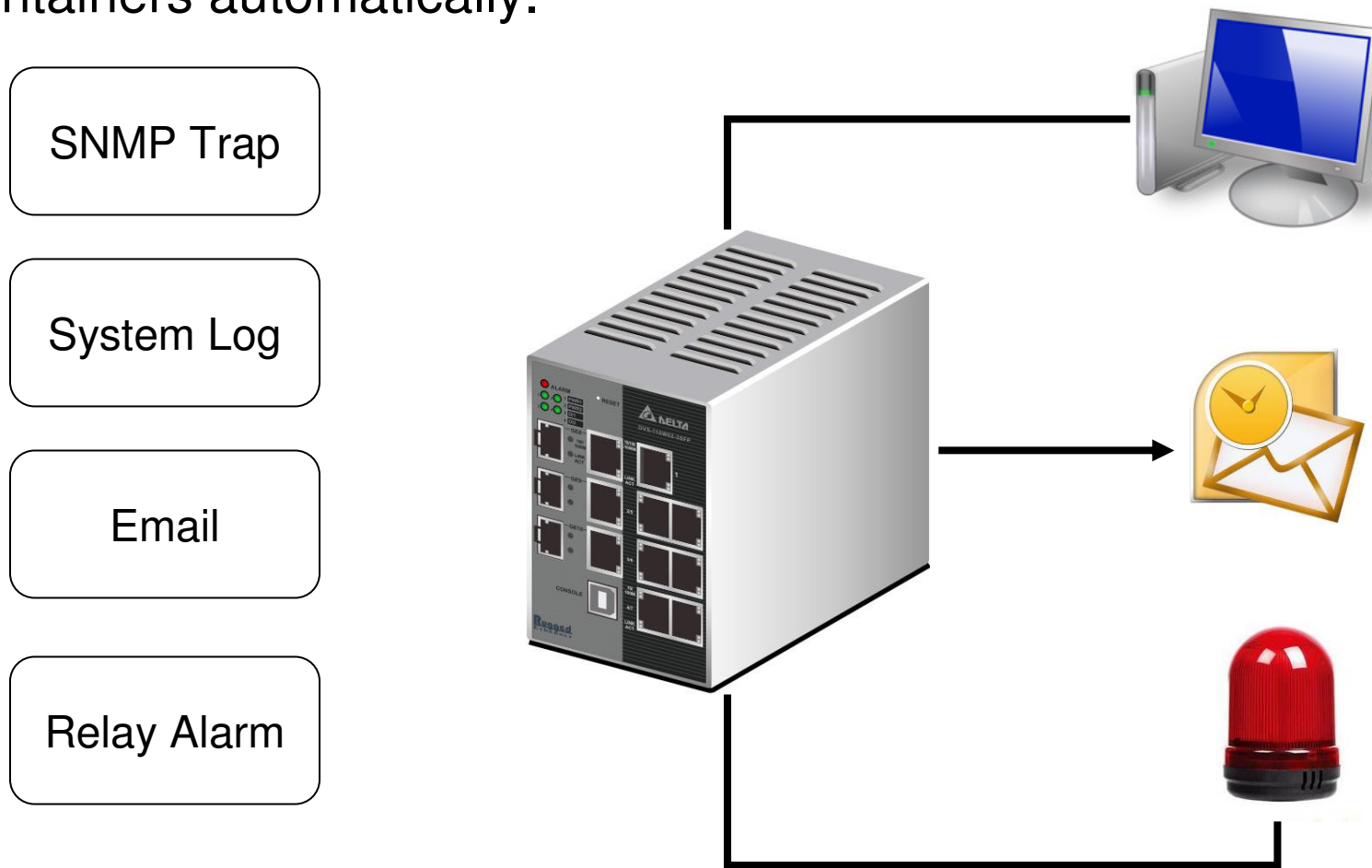




Management Function

– Auto Warning

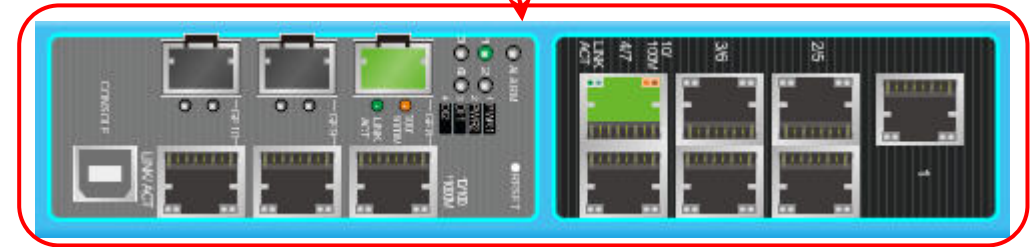
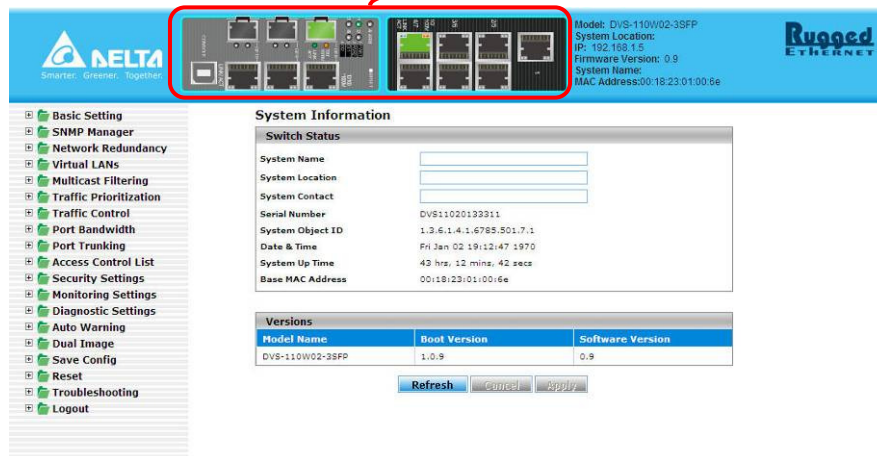
- DVS managed switch provides different approaches to warn engineers or maintainers automatically.





Web Interface

- Monitor the ports and LED status in web interface.



- Provide advanced SFP DDM (Digital Diagnostic Monitor) function.

SFP DDM												
<input type="checkbox"/>	Port	Status	Temperature		Voltage		Bias		Tx Power		Rx Power	
			Current	Range	Current	Range	Current	Range	Current	Range	Current	Range
<input type="checkbox"/>	0/8	Present	47.1 C	-5.0 - 85.0	3.3 V	3.1 - 3.5	15.2 mA	0.0 - 45.8	-11.1 dBm	-14.1 - -8.1	-15.0 dBm	-33.0 - -5.0





EMC Noise Immunity

Directive	Test item	Description	Condition
IEC61000-4-2	ESD	Enclosure Contact	+/- 6KV
		Enclosure Air	+/- 8KV
IEC 61000-4-3	Radiated RFI (RS)	Enclosure ports	10V/m
IEC 61000-4-4	Burst (Fast Transient)	Signal ports	+/-1KV
		DC power ports	+/-4KV
IEC 61000-4-5	Surge	Signal ports	+/- 2KV line-to-earth, +/- 1KV line-to-line
		DC power ports	+/- 2kV line-to-earth, +/- 1kV line-to-line
IEC 61000-4-6	Induced (Conducted) RFI (CS)	Signal ports	10V for 0.15-80MHz
		DC power ports	10V for 0.15-80MHz
IEC 61000-4-8	Magnetic Field (PFMF)	Enclosure ports	30A/m



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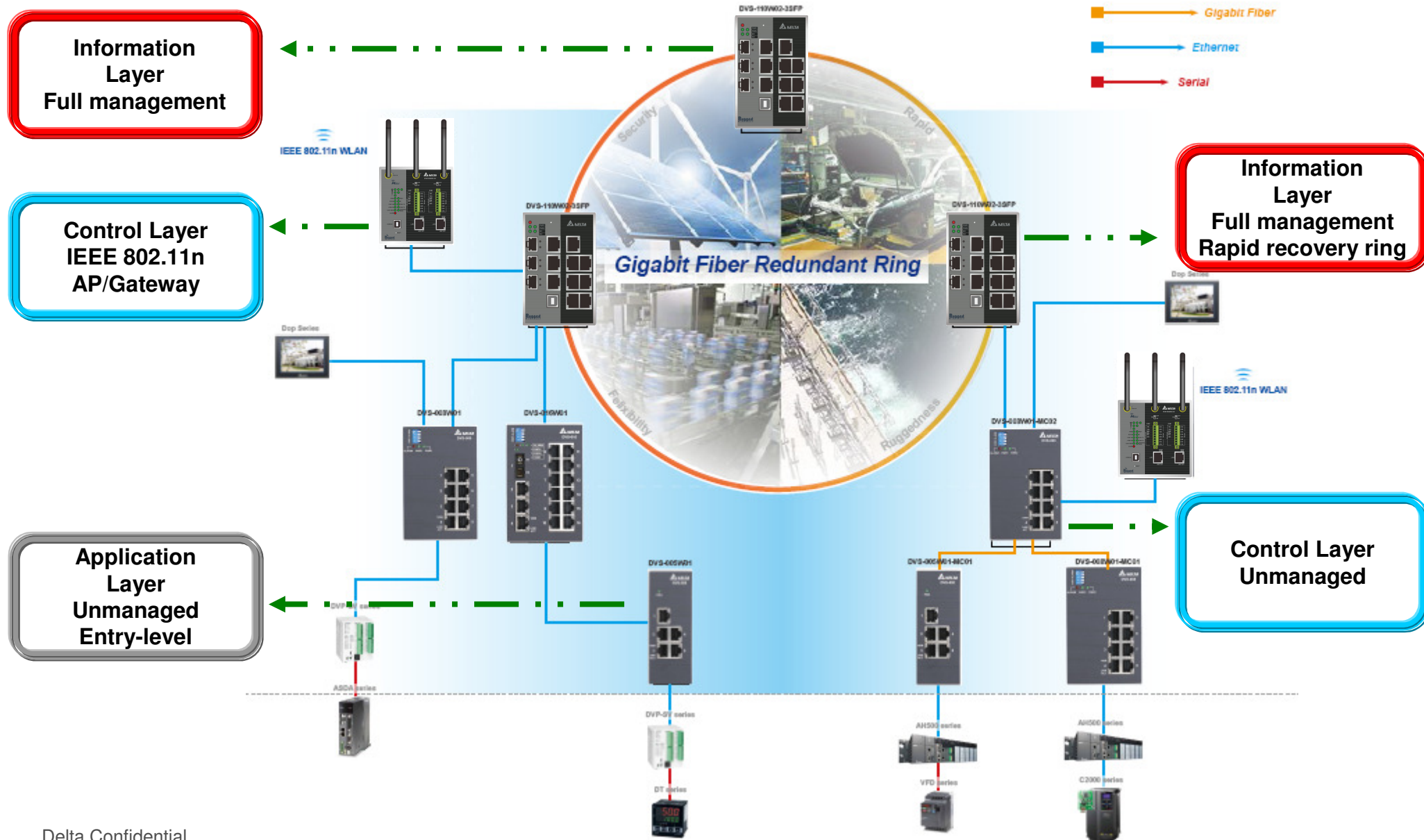
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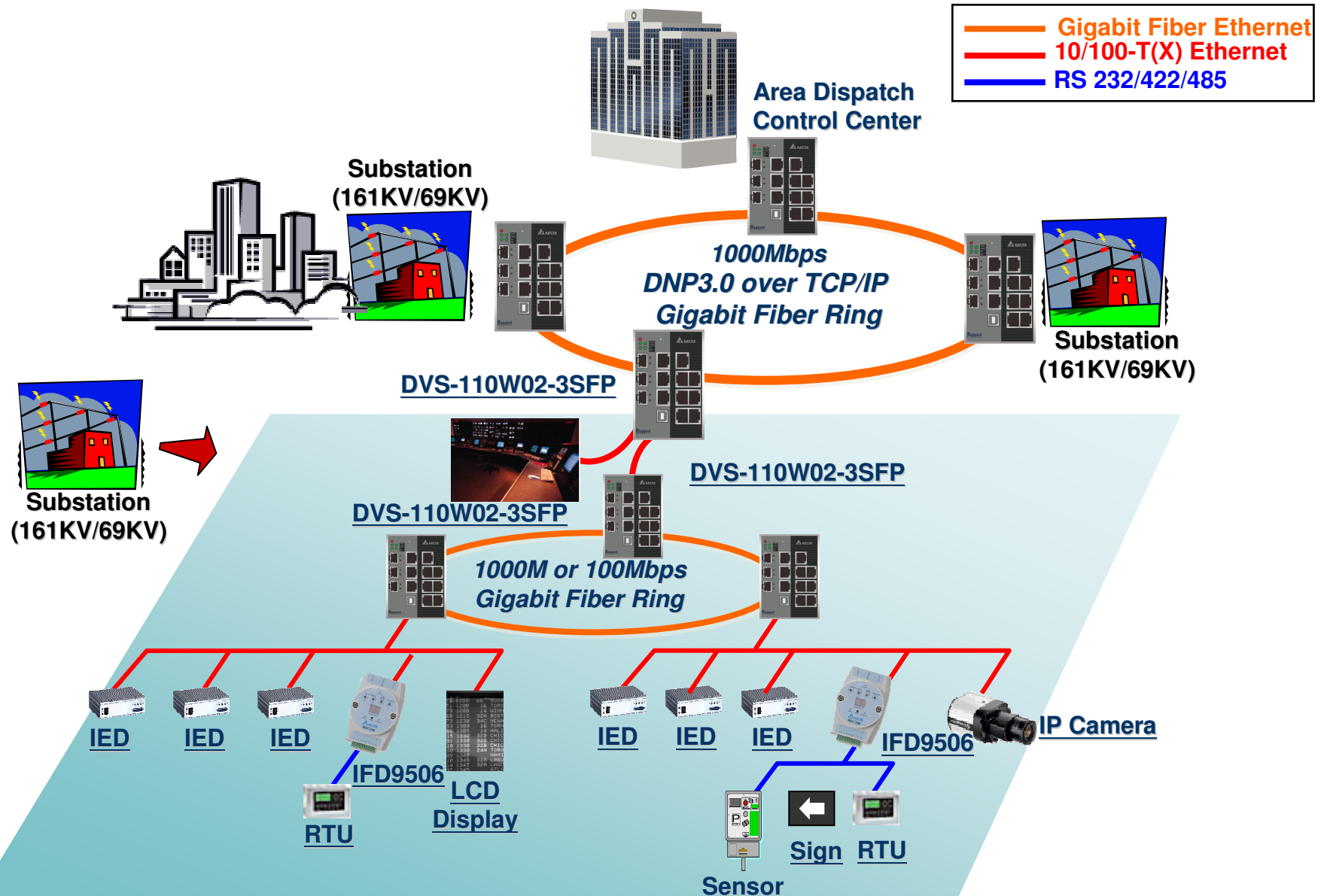
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Application Architecture



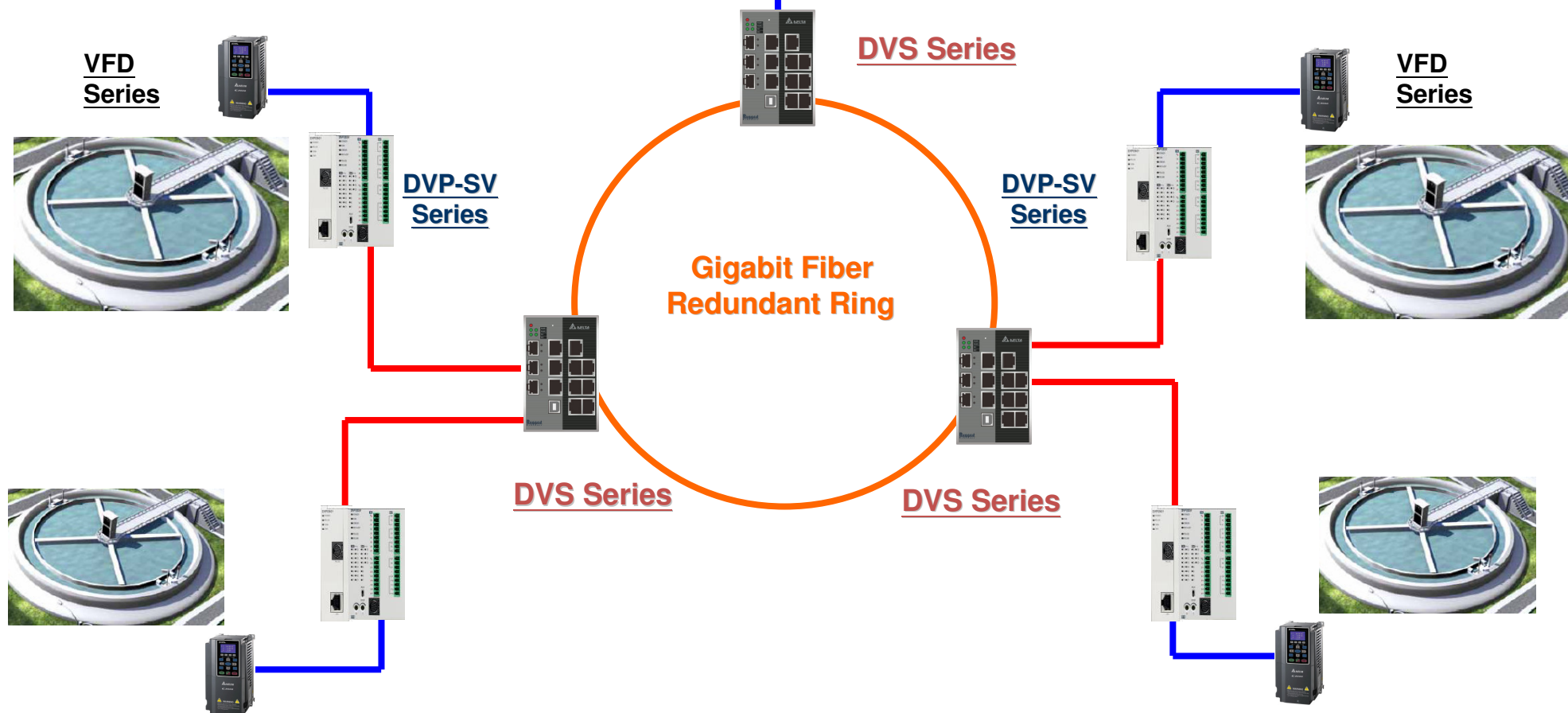
Case Study – Power Substation





Case Study – Water Treatment Automation

Control Center





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No	Module name	Description	Type	Operation Temp.		Ethernet port		Fiber	MP
				IT -10~60	WT -40~75	100M	1G		
1	DVS-005I00	Unm Industrial CTRL Switch 5P	Unmana gement	●		x5			MP
2	DVS-G005I00A	Unm Industrial CTRL Switch 5GP		●			x5		Oct-13
3	DVS-005W01	Unm WT Industrial CTRL Switch 5P			●	x5			MP
4	DVS-005W01-MC01	Unm WT Industrial CTRL Switch 4P+1F-MM			●	x4		SC X1	MP
5	DVS-005W01-SC01	Unm WT Industrial CTRL Switch 4P+1F-SM			●	x4		SC X1	MP
6	DVS-008I00	Unm Industrial CTRL Switch 8P		●		x8			Oct-13
7	DVS-G008I00A	Unm Industrial CTRL Switch 8GP		●			x8		Oct-13
8	DVS-008W01	Unm WT Industrial CTRL Switch 8P			●	x8			MP
9	DVS-008W01-MC01	Unm WT Industrial CTRL Switch 7P+1F-MM			●	x7		MC X1	MP
10	DVS-008W01-SC01	Unm WT Industrial CTRL Switch 7P+1F-SM			●	x7		SC X1	MP
11	DVS-008W01-MC02	Unm WT Industrial CTRL Switch 6P+2F-MM			●	x6		MC X2	MP
12	DVS-008W01-SC02	Unm WT Industrial CTRL Switch 6P+2F-SM			●	x6		SC X2	MP
13	DVS-016W01	Unm WT Industrial CTRL Switch 16P			●	x16			MP
14	DVS-016W01-MC01	Unm WT Industrial CTRL Switch 15P+1F-MM			●	x15			MP
15	DVS-016W01-SC01	Unm WT Industrial CTRL Switch 15P+1F-SM			●			MC X1	MP
16	DVS-110W02-3SFP	Mn WT Industrial CTRL Switch 7TX+3G-SFP	Manage ment		●	x7		SFPX3	Jan-14
17	DVW-W02W2-E2	WT Industrial WLAN CTRL Device 2GP+2COM	Wi-Fi		●		x2		Jan-14

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