EKI-7600 Series VLAN Configuration SOP

LAB 1: Configure Port-based VLAN
 LAB 2: Configure 802.1Q based VLAN

Revision Date	Revision	Description	Author
Feb/2018	V1.0	Initial release	ICG AE Eddie.Wei / Raimen Liu

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Abstract

* This SOP explains how to configure VLAN on Advantech EKI-7000 series industrial ethernet manage switch.

Related products:

EKI-7654, EKI-7656, EKI-7657, EKI-7659, EKI-7758, EKI-7554, EKI-7559 EKI-2748

Requirement:

Advantech manage switch, RJ45 ethernet cable, PC



LAB 1: Configure Port-based VLAN



Goal:

- Enable VLAN by *port-based* successfully. •
- VLAN members can communicate with each other. •

Topology:



Task:

- Laptop A can ping to Laptop B but can't ping to Laptop C.
- Step 1: Log in switch > <u>Go to Protocol > VLAN</u>

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Open all Main Page System Port Port Port Statistics Port Control Port Trunk Port Mirroring Rate Limiting Protocol VLAN RSTP	VLAN Operation Mode : Disable Disable Enable GVRP Protocol Management Vlan ID : 0 * Apply



Step 2:

- Choose the VLAN operation mode by Port Based and "Apply" it.
- Press "Add" to separate your VLAN.

VLAN Configuration

VLAN Operation Mode : Port Based 🔻					
Enable GVRP Protocol					
Management Vlan ID : 0 😽					
Apply					

VLAN Configuration

VLAN Operation Mode :	Port Based 🔻					
Enable GVRP Protocol						
Management Vlan ID :	0 💥					

Apply



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- Step 3:
 - Distribute Port 01/Port 07 into a group
 - Distribute Port 08 into another group

VLAN Configuration



VLAN Configuration

VLAN Operation Mode : Port Based 🔻

Enable GVRP Protocol

Management Vlan ID : 0

Apply

*

Group Name	Group2	
VLAN ID	2	
Port.01 ▲ Port.02 Port.04 Port.05 Port.06 Port.07 Port.09 Port.10	Add Remove	Port.03 A Port.08

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Step 4: Finally you may have two groups and ping result as below.

VLAN Configuration





LAB 2: Configure 802.1Q Based VLAN



Goal:

- Enable VLAN by **802.1Q based** successfully.
- VLAN member can communicate with each other.



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- Task:
 - Laptop A can ping to Laptop B but can't ping to Laptop C.
- Step 1: Log in switch > <u>Go to Protocol > VLAN</u>



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- Step 2:
 - Assign the same untagged Vid (ex:2) for Port01 on EKI-7659C-1&2.
 - Assign the same tagged Vid (ex:2) for Port08 on EKI-7659C-1&2 (Untagged Vid & tagged Vid should be the same)



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- Step 3:
 - Follow the below setting, and you can let Laptop A ping to Laptop B but unable to ping Laptop C.







